LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

LIMPOPO DEPARTMENT OF PUBLIC WORKS, ROADS AND INFRASTRUCTURE

BID NUMBER: LDPWRI-B/20105

PROVISIONAL
BILL OF QUANTITIES

For the

REFURBISHMENT AND ADDITIONS AT REBONE SECONDARY SCHOOL

For the

DEPARTMENT OF EDUCATION,
LIMPOPO PROVINCE

CIDB CLASS GRADING: 7GB OR HIGHER

43 Church Street. Polokwane, 0699, Private Bag X9490, POLOKWANE, 0700
Tel: (015) 284 7001, (015) 284 7030 website: http//www.dpw.limpopo.gov.za

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

CIDB CLASS GRADING 7GB OR HIGHER

BID NUMBER: LDPWRI-B/20105

REFURBISHMENT AND ADDITIONS AT REBONE SECONDARY SCHOOL

PROCUREMENT DOCUMENT

Name of Tenderer: ……..

CIDB CRS Number: ……..……...

CSD Registration Number: …….

Tax Pin: ……

Tender Amount including Vat: ……...

CLOSING DATE AND TIME: ……

ISSUED BY:

DEPARTMENT OF PUBLIC WOKS, ROADS AND INFRASTRUCTURE
PRIVATE BAG X9491
POLOKWANE
0700
TEL: 015 284 7000/1

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LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

PART A: SPECIAL NOTES TO BIDDERS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

NOTES TO BIDDERS

1. NAME OF PARTIES

EMPLOYER

Limpopo Province Department of Roads & Infrastructure: Works Towers
43 Church Street
Tel: (015) 284 7000/1
Private BAG X9490
POLOKWANE
0700
Tel: 082 460 6271

Contact:

Name: Makape P
Email: makapep@dpw.limpopo.gov.za.

Principal Agent:

Tectura International
Suite 04
76 Hans Van Rensburg
Polokwane
Tel: 015 291 4611

Contact:

Name: Timothy Nkandu
Email: Timothy@tecturai.com

Quantity Surveyor:

Pro-serve Consulting (Pty) Ltd
Address
Irene Corporate Corner
37 Via Salara Crescent

Cnr Nellmaphius & Van Reyneveld Rd

Irene,

Pretoria

Tel: 012 661 3435

Contact:
Name: Duduzile Ruwuya

Email: Druwuya@proservegroup.co.za

Civil Engineers:

Lowflow Construction & Engineering

26 Peace Street

Tzaneen

Tel: 060 311 2170

Contact:

Name: Tashinga Muronda

Email: tashy1902@live.com

Mechanical Engineers:

Muteo Consulting

39 Grobler Street

Polokwane

0699

Tel: 015 291 4611

Contact:

Name: Edwin Khumalo

Email: Edwink@muteo.co.za

Electrical Engineers:

Takusa Consulting Services

Fourways Office Park

Block 5, Ground Floor

Roos Street, Fourways Boulevard

Sandton

Polokwane

Tel: 010 110 8724

Contact:

Name: Kamogelo Sechoaro

Email: kamogelo@takusaconsulting.co.za

2. SPECIAL CONTRACT DOCUMENTS

Note:

The clauses in these Special Contract Conditions form part of the contract requirements and shall have preference over any contradicting clauses in these Bills of Quantities, the preliminaries, and the Conditions of Contract.

2.1 CONTRACT DOCUMENTS

The Contract Document will consist of:

I. The agreement shall be the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005 amended as hereinafter described.

II. Documents to be provided by the Contractor in terms of the requirements of these Provisional Bills of Quantities. Where reference is made to the "subcontract agreement" this is deemed to mean the "JBCC Series 2000 Nominated /Selected Sub-Contract Agreement" (March 2005 Edition)

III. The JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee (May 2005 edition) amended as hereinafter described, shall be deemed to be incorporated herein.

IV. Tenderers are referred to the above -mentioned documents for the full intent and meaning of each clause thereof. These clauses are hereinafter referred to by clause numbers and headings only, for which, such allowance must be made as may be considered necessary.

V. Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given as far as possible under each relevant clause. Where modifications or amendments as described are made, such modifications and/or amendments shall supersede any conflicting provision in the relevant clauses of the JBCC Series 2000 Preliminaries or the JBCC Series 2000 Principal Building Agreement and the tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

VI. Where any clause is not relevant to this specific contract such clause is marked N/A (signifying "not applicable").

VII. "The Model Preambles for Trades" as recommended and published by the Association of South Africa Quantity Surveyors -1999 edition, shall be deemed to form part of this contract documentation. Any amendments and/or additional information is listed under the supplementary preambles at the start of each trade in the bills of quantities.

VIII. **Pricing of preliminaries - The relevant clause numbers of sections A and B of the preliminaries are listed at the end of the contract preliminaries section for pricing purposes.** if Alternative as

set out in clause 10 of the preliminaries hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories.

IX. The **tenderer** shall allow opposite each of the items for whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions, and requirements set out therein.

X. Only priced items will be considered in respect of any adjustments to this section. Any items left unpriced will be understood to be provided for in the rates given for other items and no claim for extras arising out of the tenderer's omission to price any item will be entertained.

XI. Notwithstanding the period stated in the JBCC form of tenders, tenderers shall hold good for a period of one hundred and eighty (180) calendars days from the date of closing of the tenderers and shall not be altered, amended, or withdrawn during that period.

2.2 QUERIES FROM BIDDERS

The pages of these bills of quantities are numbered consecutively as indexed on the first page.
The Bidder shall check the numbers of the pages and should any be missing or duplicated, or the reproduction be indistinct, or if any doubt exists as to the full intent or meaning of any description or these bills of quantities contain any obvious errors, the Bidder shall notify the Accounting Officer/ Quantity surveyor at once who shall promptly give a written directive. No liability whatsoever will be admitted in respect of errors in any BID due to the abovementioned causes.

On no account should these documents be used for placing orders for materials. Bidders do so at their own risk and shall not be reimbursed for additional costs so incurred.

2.3 ACQUAINTANCE WITH BID DOCUMENTS

By submission of a BID, the Bidder will be deemed to have acquainted himself/herself fully with the BID documents, local authority requirements and by-laws and all aspects of the work envisaged in the documents before pricing and submission of his/ her BID. The employer may appoint a principal Agent to act on his/ her behalf with full authority and obligations.

2.4 FORMS TO BE COMPLETED

The form of BID together with its appendices must be submitted with the BID.

2.5 SCOPE OF THE WORKS

The project comprises the demolition of existing 3 classrooms and 7 pit latrine toilets, refurbishment of 13 classrooms and 16 enviro-loo seats, and construction of 1 medium administration, 20 classrooms, 8 seats as well as related services in accordance with the drawings and specifications that will be provided to the contractor.

The Contractor shall provide sufficient qualified technical staff, field staff, and safety personnel to ensure the Works under this contract be satisfactorily carried out safely and meeting the performance targets and programs. The Contractor shall also provide competent attendant(s) to monitor any works concerning the scope of works.

2.6 PROGRAMMING WITH DIRECT CONTRACTORS

Tenderers must take note that some work may be performed by independent/ direct contractors that will not form part of this contract. Tenderers, however, must make provision for these installations in their program and must provide all the necessary assistance to The **Limpopo Department of Public Works, Roads and Infrastructure in completion of the said contracts.**

- Any installations by specialists e.g., Security installation, loose furniture

2.7 SITE

The project is located at
Rebone Secondary School
Riverside, Janefurse
Limpopo

2.8 CONTRACT DOCUMENTS

The contract/agreement will be based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005.

Wherever reference is made to the terms “Client, Employer or Principal Agent) in the documents, it shall be deemed to mean. The Limpopo Department of Public Works, Roads, and Infrastructure or any person acting in such capacity as well as any officer to whom any power vested in terms of these conditions of the contract have been delegated to.

2.9 CONFIDENTIALITY OF BID DOCUMENTS

All the recipients of BID documents shall be whether they submit a bid or not, treat the details of these documents as confidential and their general content shall not be disclosed or discussed with third parties without the prior approval of the **Limpopo Department of Public Works, Roads, and Infrastructure.**

2.10 BID ALL INCLUSIVE

The Bidder must allow in his/ her BID for all labour, material, transport, handling, construction plant, temporary works, or method of construction where the method of payment allows for various methods of construction, value-added tax and everything else necessary for the execution and completion of the works in accordance with the BID documents

2.11 BILLS OF QUANTITIES

This Bill of Quantities is provisional and subject to be re-measured.

The Contractor / Bidder is warned that if he/ she use any quantities or specifications appearing in these Bills of Quantities for ordering materials, he/ she does so at his/ her own and no liability whatsoever shall be admitted afterward by the **Employer / Limpopo Department of Public Works, Roads, and Infrastructure** for such correctness of such quantities or specifications.

2.12 STAMP DUTY

If applicable, all stamp duties in connection with the contract shall be paid by the Bidder.

2.13 SIGNING OF BIDDERS

The BID must be signed by a representative of the Bidder being duly authorized to do so and Bidders are to attach a company resolution.

2.14 LODGING AND SCRUTINY OF PRICED BILLS OF QUANTITIES

The Bidder's / Contactor's attention is specifically directed to the provision that, before the contract is signed, he/ she is to submit his/ her priced Bills of Quantities with conditions of contract and cast neatly in black ink for checking. The Accounting Officer / Quantity Surveyor will duly check the priced Bills of Quantities and shall make such adjustment of individual prices and rectify discrepancies as he may consider necessary. No artificial prices shall be acceptable.

2.15 ADDITIONAL INFORMATION REQUIRED

The **Employer / Limpopo Department of Public Works, Roads and Infrastructure** may ask any Bidder for a clarification/s of his / her BID. Nevertheless, no Bidder will be permitted to alter his / her BID sum after the BIDs have been opened and read to other bidders, although clarification which does not change the BID may be accepted.

The Employer reserves the right to appoint a firm of public accountants to report on the financial capacity of any Bidder. The Bidder shall provide all reasonable help and information in such an investigation.
All written information submitted by the Bidder together with and in support of his / her BID shall be considered to form the basis on which the BID has been prepared and submitted.

2.16 ARITHMETICAL ERRORS

The Accounting Officer / Quantity Surveyor reserves the right to correct arithmetical or other errors in the bid document for reasons which the Accounting Officer / Quantity Surveyor will indicate, the Bidder will, in terms of Rule 14, be requested to make corrections.

2.17 IMBALANCE IN BIDDED/TENDERED RATES

In the event of there being any rate or rates which are declared to be unacceptable by the Accounting officer/Quantity Surveyor for reasons which the Accounting Officer / Quantity Surveyor will indicate, the Bidder will, in terms of Rule 14, be requested to:

a) Either justify and specify rate or rates, i.e. to give a financial breakdown on how such rate or rates were obtained or calculated, or

b) Consider amending and adjusting such rate while retaining the BID sum derived under Sub-rule 15.a unchanged and fixed.

If the Accounting Officer / Quantity Surveyor requests the Bidder to adjust any unacceptable rate or rates, the Accounting Officer / Quantity Surveyor may at his / her discretion limit any such adjustment to rates in specific sections of the bills of quantities. On no account will the Accounting Officer / Quantity Surveyor permit the Bidder to use such an opportunity to re-price extensive sections of the bills of quantities, even though the BID sum remains unchanged.

2.18 ALTERATIONS TO BID DOCUMENTS

No unauthorized alteration or addition shall be made to the form of BID, to the bills of quantities or any other portion of the BID documents. If any such alteration or additions is made and if the bills of quantities of not properly completed, the BID may be rejected, and the Employer will not be bound to by such alterations.

2.19 BID QUALIFICATIONS

BIDs must be submitted strictly in accordance with the BID documents, i.e. without qualifications. Qualifications like statements of interpretation of contract documents must be avoided and any point of doubt or difficulty should be cleared with the Accounting Officer / Quantity Surveyor as early as possible during the BID period. Should any query be found to be of any influence on the BID, all other Bidders shall immediately be informed of the particulars by the Accounting Officer / Quantity Surveyor.

2.20 COSTS INCURRED BY BIDDER

The Employer shall not be responsible to pay for the expenses or losses, which may be incurred by any Bidder in the preparation of the BID or in visiting the site in connection herewith.

20.21 BID ACCEPTANCE

The Employer will not be bound to accept the lowest or any BID. No reason for the acceptance or rejection of any BID will be given.

20.22 WITHDRAWAL OF BID AFTER CLOSING DATE

The Bidder may not withdraw his BID after the time set for opening BIDs without any BID having been accepted.

Should a Bidder amend or withdraw his/her BID after the specified date and hour, but prior to his being notified of the acceptance thereof, or should a Bidder after having been notified that his/her BID has been accepted.

(a) Give notice of his/her inability to execute the contract in terms of his BID; or

(b) Fail to sign a contract or furnish the security within the period fixed in the BID Conditions reflected on the form of BID or any extended period fixed by the Employer; or

(c) Fail to execute the contract;

He shall pay all additional expended, damages and/or losses which the Employer may incur in calling for fresh BIDs or by paying the difference between his/her BID and a less favourable BID accepted in terms of the provisions of the last paragraph of this term: Provided that the Employer may at its discretion exempt a Bidder from the provisions of this sub-rule if he believes that the circumstances justify the exemption.

When in circumstances mentioned in the second paragraph of this item, the Employer deems it not desirable to invite fresh BID; then the Employer may accept another BID from those already received. The provisions of **Rule 2.21 above, shall again apply.**

2.23 METHOD OF MEASUREMENT

The Bills of Quantities have been measured in accordance with the 6th Edition of the standard system of Measuring Builders Work.

2.24 AVAILABILITY AND SUBSTITUTION OF MATERIALS

Bidders are urged to make themselves, during BID stage, thoroughly acquainted with the availability of all materials for this project as no claim for non-availability or late delivery of materials will afterward be recognized/considered.

If materials specified are not available or it seems that there will be a delay of materials, then the Bidder must notify the **Employer** at once in writing who will, at his/her discretion, attend to the matter. Once the BIDs are handed in it will be taken that all materials specified in these Bills of Quantities are available and will be delivered on-site for completion of the project within the prescribed contract period.

The Substitution will be strictly subject to the **Employer's** approval.

The **Contractor** must, as far as possible, purchase materials available in the Limpopo Province provided the quality is acceptable. Materials of inferior quality shall under no circumstances be accepted. If the **Contracto**r cannot comply with these conditions, he/she must substantiate this in writing with documentary proof from suppliers.

2.25 PROPRIETARY TYPES AND TRADE NAMES

Where reference is made in these Bills of Quantities to proprietary types or names, the products, or materials, etc. referred to are to be exactly as described, the prior approval of the **Employer** must be obtained for any substitution and may be the subject to a variation order.

2.26 SABS SPECIFICATIONS

All references in these Bills of Quantities to Specifications of the Bureau of Standards shall be deemed to be a reference to the latest issues of such specifications, and any subsequent amendments thereto. All articles, materials or items described as to conform to the SABS Specification must bear the SABS mark where possible.

2.27 PERFORMANCE GUARANTEE

Where the project is over R 2 000 000.00 the Bidder must submit with this BID proof (using a letter of intent or otherwise) from his/her guarantor that his/her guarantor will issue the guarantee if the BID is accepted.

2.28 BID

While the Employer reserves the right to accept or not accept any BID, the intention is that a BID will be accepted. The successful Bidder will be appointed as the Main Contractor in terms of the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, and March 2005. Any condition submitted by the Bidders which is a variance with the provisions of the main contract will not be accepted and may render the BID liable to disqualification.

The BID shall be sealed in an envelope and endorsed as per BID form and be deposited in the BID box as per BID advert.

On no account will BIDS received after the time and date for submission of BIDs be considered and Bidders are advised that postal delays will not constitute a claim for recognition of such BIDS.
Telegraphs or telefaxed BIDS will **NOT** be considered under any circumstances.

2.29 INSPECTION OF SITE

A Compulsory site inspection will not be conducted due to COVID-19 regulations. Tenderers are, however, urged to thoroughly inspect the site, acquaint themselves with the nature and extent of the works, the site conditions about power and water supply, transport facilities, conditions of adjacent existing buildings and also access to the site, availability of working space, etc.; before submitting their BIDs **as no extra cost arising out of their failure to price for the above mentioned shall be considered.**

2.30 SITE OFFICE

The Contractor shall erect, maintain, and takedown on completion of the work a building for site meetings with a concrete floor, suitable roof, suitable walls, door, and four windows, with tables and chairs (not benches), all suitable to accommodate 12 persons.
It is further a condition that all work or movement of vehicles in the vicinity of this office that creates noise or nuisance during site meetings must be suspended for the duration of the site meetings.

2.31 LOCAL LABOUR

As soon as the site is handed to the Contractor, he/she will be expected to form a joint committee with the local community. This committee will ensure that all unskilled and available semi-skilled labour are employed from the community.

All labour shall apply through the committee for employment on the project and the selection of these labourers shall be made by the Contractor from a list of applicants complied by the community members on the committee.

On all labour-intensive projects, at least 10% of the labourers must be employed from the local community where the project will be executed.

Labourers should be paid in accordance with the provision of the Labour Relations Act, Act 23 of 1956 and the amended Basic Conditions of Employment of 1983, or any latest available Acts.

In accordance with Government Gazette No.16095 of 19 November 1994 wages differ for different areas.

2.32 PROCEDURE OF THE WORK

The Employer reserves the right to direct the order in which the various parts of the contract will be executed should circumstances warrant such action.

2.33 VARIATIONS

Where prices are submitted by the Contractor or Nominated Sub-Contractor during the progress of the works in respect of variations or regarding a claim under the terms of the contract and even though such prices may be used in an interim certificate, it is hereby agreed that there is to be no presumption of acceptance. Should the Employer wish to accept any such prices before the issue of the final certificate, he will do so in writing.

2.34 PROVISIONAL WORK

Any increase or decrease of work measured provisionally will not be sufficient grounds for any adjustments in the tendered rates.

2.35 MONEY/BUDGET OR PROVISIONS

Whatever an amount for work is allowed in these Bills of Quantities under the term “Money/budgetary Provision” it shall be taken that such amount is for work to be carried out by Specialists, who will be ordinary domestic Sub-Contractors to the Main Contractor.

2.36 BORROW PITS

It is the responsibility of the Contractor to find the necessary borrow pits for imported filing and also to ascertain the suitability and acceptability of such filling, as no claims in this regard will be entertained afterward.

2.37 TESTS

It is the responsibility of the Contractor to carry out his/her tests during the execution of the contract to check the strength of concrete, mortar, the density of filling, etc., and only those tests as requested by the Employer will be paid for by the Client.

2.38 THE CONTRACT PERIOD

The contract period shall be 24 months (exclusive of builder's holiday) from the date of site handover.

2.39 COMPLETION OF BID DOCUMENTS

Bidders shall ensure that all documents requiring completion are duly completed in ink (black), signed, and witnessed in the spaces provided.

2.40 OCCUPATIONAL HEALTH AND SAFETY

2.40.1 General

In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003, Bidders are advised that they are required to comply fully with such regulations about this project as no claims in this regard will be entertained.

2.40.2 Covid-19 Related Requirements

- Contactor must have risk assessments and plans in place.
- Procedure on how to conduct worker education on Covid-19.
- Identification and protection of Vulnerable Employees (e.g. workers above 60 years)
- Safe transport of employees.
- Screening of employees on entering workplace.
- Prevention of viral spread in the workplace.
- Provision of hand sanitisers and face masks.
- Cleaning of surfaces and shared Equipment's.
- Shift arrangements.
- Managing sick employees.
- Monitoring systems must be in place to ensure compliance with safety protocols.
- Contactor provide a Bi-Weekly confirmation of the status of each employee on site.

2.41 VALUE ADDED TAX

Value-added tax must be added to the contract amount in the Final Summary and all amounts, rates, etc. in the Bills of Quantities will, therefore, be exclusive of value-added tax.

2.42 PRICES ALL INCLUSIVE

The Bidder must allow in his/her BID for all labour, material, transport, handling, construction plant, temporary works, or method of constructions where the method of payment allows for various methods of construction, value-added tax and everything else necessary for the execution and completion of the works in accordance with the BID documents.

2.43 PROOF OF PAYMENT OF VALUE ADDED TAX OR ANY APPLICABLE IMPORT DUTY

The Bidder is to provide proof that he/she and all his Sub-Contractors are registered at the Receiver of Revenue for VAT or any applicable import duty purposes and will submit all names of Sub-Contractors to the Employer. The Employer may submit all this information to the Receiver of Revenue.

2.44 WORKMEN'S COMPENSATION

The Contractor must provide valid proof of active registration with the workmen's compensation fund (COIDA).

2.45 CONTRACT PRICE ADJUSTMENT

The BID will be subject to Escalation and the base month will be based on the date of tender closing.

2.46 GENERAL NOTES

Should the tender be awarded to the successful tenderer, the following is to be noted:

- No works shall commence until the Health and Safety Plan has been issued by the successful tenderer and has been approved by the Department of Public Works, Roads and Infrastructure representative.
- No work shall commence on site until all CAR and PL insurances are in place
- No payment shall be made until all guarantees are in place.
- Workers employed by the Contractor will not be allowed to be seen lingering around existing facilities or disturbing classes.
- The Contractor must not render any construction activities that will affect the Client operation before informing the Employer for approval thereof.
- The Contractor's workers should be noticeable by wearing proper clothing with the company logo.

2.47 PAYMENT PROCEDURE

Payment procedure in terms of this contract shall be as follows:

- The Contractor to submit valuation by the 20th of the Month.
- The payment shall be issued to the Department of Education by the 7th of the following month, with payment being made by the 30th of that month.
- Every effort will be made to achieve payments earlier, but this cannot be guaranteed.
- Interest on late payments shall be charged at the prime rate.
- Payment for unfixed materials (Material on site) on-site shall be allowed.

- Payment for materials off-site shall only be allowed subject to written approval by the Employer, which will only be conditional upon the necessary cessions being in place and any other documentation which the Employer requests.

2.48 INFORMATION RELEVANT TO INSURANCES

The Contractor will be expected to take the following insurance with a deductible to be determined by the Contractor. In addition to the above-mentioned, the Contractor should take any other insurances relevant to the proper execution of the works.

2.49.1 CONTRACT WORKS

– Estimated Contract Amount plus 20%

2.49.2 PUBLIC LIABILITY

– R 10 000 000.00

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

PART T1: TENDERING PROCEDURE

T1.1 TENDER NOTICE AND INVITATION TO TENDER

The Limpopo Department of Public Works, Roads and Infrastructure invites tenders for Demolition of 3 Classrooms and 7 Pit Latrine, 10, Refurbishment of 13 Classrooms and 16 Enviroo-Loo, and Construction of 1 Medium Administration Block, 20 Classrooms, 8 Seat Waterborne Toilets and 30 Seats Enviro-Loo Toilets, External Works as well as related services at Rebone Secondary School in Riverside, Janefurse Village, Greater Sekhukhune District, Limpopo.

It is estimated that tenderers should have a CIDB class grading of 7GB or higher.

Only tenderers who meet the minimum requirements stated in the tender data are eligible to submit tenders.

A non-refundable tender deposit of **as per Tender Advert** payable in cash is required on collection of the tender documents.

Administrative queries relating to the issue of these documents may be addressed in writing to **Ms Moloto V, Tel. No.015 284 7142**; email: molotomv@dpw.limpopo.gov.za.

Technical queries relating to the issue of these documents may be addressed in writing to **Mr P. Makape**, **Tel. No. 082 460 6271**; email: makapep@dpw.limpopo.gov.za.

A compulsory briefing meeting with representatives of the Employer will not take place due to the Covid-19 Lockdown restrictions. However, tenderers are welcomed to make arrangements to visit the site on a non-compulsory basis at Rebone Secondary School in Riverside, Janefurse Village, Greater Sekhukhune District, Limpopo.

The closing date and time for receipt of tenders are **as per Tender Advert**.

Telegraphic, telephonic, scanned documents, facsimile, e-mail, and late tenders will not be accepted.

Tenders must only be submitted on the tender documentation that is issued including priced bills of quantities.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tenders Data.

It remains the responsibility of the bidders that the bid document reaches the tender box by the stipulated closing date and time as advertised on the tender bulletin.

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DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement (July 2015) as published in Government Gazette No 38960, Board Notice 136 of 10 July 2015. (See www.cidb.org.za).

The Standard Conditions of Tender make several preferences to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

Clause number	Tender Data
F.1.1	The Employer is the Limpopo Department of Public Works, Roads and Infrastructure

F.1.2	For this contract, the following documents will be adopted: The **single-volume** procurement document issued by the employer comprises of the following: **Part A1: Special Notes to Bidders** **The Tender** **Part T1: Tendering procedures** T1.1 Tender notice and invitation to tender T1.2 Tender data **Part T2: Returnable documents** T2.1 List of returnable documents T2.2 Returnable schedules **The Contract PartC1: Agreements and contract data** C1.1 Form of offer and acceptance C1.2 Contract data **The Contract PartC3: Pricing data** C3.1 Pricing instructions **The Contract PartC4: Provisional Bills of Quantities** C4.1 Preliminaries C4.2 Building Works C4.3 Civil Works C4.5 Electrical Installation **Part 5: Scope of work** C5.1 Scope of work **Part 6: EPWP Infrastructure Guideline 2015** C6.1 Data Collection Tool **Part 7: Site information and drawings** C7.1 Site information C7.2 Drawings
F.1.3	The employer's representative is: Name :Makape P. Address : Department of Public Works, Roads and Infrastructure. Works Towers, 43 Church Street. Tel :082 460 6271 Email: makapep@dpw.limpopo.gov.za
F.1.4	The language for communications is English
F.2.1	Only those Bidders who satisfy the following eligibility criteria are eligible to submit tenders: 1. The Bidder is a Firm. 2. Bidders that satisfy the criteria stated in the tender data and the tenderer or any of his principles is not under any restriction to do business with the employer**.**

F.2.2	Compulsory site briefing A compulsory site briefing meeting with representatives of the Employer will not take place due to the Covid-19 Lockdown restrictions. However, tenderers are welcomed to make arrangements to visit the site on a non-compulsory basis at Rebone Secondary School in Riverside, Janefurse Village, Greater Sekhukhune District, Limpopo.
F.2.3	Tenderers may request clarification of the tender documents by notifying the employer at least five (5) working days before the closing time and date stated in the **Tender Advert.**
F.2.4	No alternative tender offers will be considered.
F.2.5	The list of Returnable Documents identifies which of the documents a tenderer must complete when submitting a tender offer. The tenderer must submit his tender offer by completing the Returnable Documents, signing the "Offer" section in the "Form of Offer and Acceptance" and delivering the Returnable Documents back to the Department.
F.2.6	Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as consortiums shall state which of the signatories the lead is partner whom; the employer shall hold liable for the tender offer.
F.2.7 F.2.8	The employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are: **Location of the tender box: Department of Public Works, Roads and Infrastructure,** **Physical Address: Department of Public Works, Roads and Infrastructure. Works Towers, 43 Church Street** **Identification details**: Tender reference number, Title of Tender and the closing date and time of the tender.
F.2.9	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
F.2.10	Tenderers are alerted that tender offers which do not provide all the data or information requested completely and, in the form, required, may be regarded by the employer as non-responsive.
F.2.11	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
F.2.12	The tender offer validity period is **180 Days.**
F.3.1	Tenders will not be opened immediately after the closing time for tenders.
F.3.2	The tenderers will be evaluated in **four** stages (i) Compliance documents – refer to the list of returnable documents (Part T2) (ii) Local Content (SBD 6.2) (iii) Functionality (iv) Price and Preference (BBBEE)

F.3.3	**Scoring Financial Offer:** Tender offers will be scored using the following formula: $NFO = \left(\frac{Pm}{P}\right) x\ 100$ Where NFO = number of tender evaluation points awarded for the financial offer. W1 = the percentage score given for financial offer as stated in the Notice and Invitation to Tender T1.1 Pm = the comparative offer of the most favourable tender offer. P = the comparative offer of the tender offer under consideration. where W1 = the number of tender evaluation points for the financial offer and equals: 1) 90 where the financial value inclusive of VAT of all responsive tenders received has a value above R 50 000 000; or 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 50 000 000. Scoring Preferences: Up to 10/20 points will be awarded to the tenderer who completes the referencing schedule and who is found to be eligible for the preference claimed
	The Department is not obliged to award the tender to the bidder with the highest number of tender points.

TENDER EVALUATION CRITERIA AND WEIGHTINGS

NOTES TO BIDDERS

1.1 CRITERIA USED FOR THE EVALUATION/ ADJUCATION OF INFRASTRUCTURE RELATED BIDS

1.1.1 The points are allocated as follows:

1.1.2 For projects above R500 000, the distribution of points is used as follows:

A. BID EVALUATION STAGE 2- LOCAL CONTENT (SBD 6.2)

1.2 A bid will be disqualified if the Local Content Declaration Certificate and the Annexure C (Local Content Declaration: Summary Schedule) are not submitted or fully completed and signed as part of the bid documentation.

1.3 This tender is subject to Regulation 8 “Local Production and Content” of the Preferential Procurement Policy Framework Act, 2017: Preferential Procurement Regulations, 2017 submitting of SBD 6.2 and its declarations is compulsory. Please note a minimum threshold of for local content and production in relation to this bid (refer to the list of Designated Items for Local Production and Content)

1.3.1 Evaluation in terms of the stipulated minimum threshold for local production and content. LDPWRI-B/20105 will be evaluated in terms of minimum thresholds for local content stipulated in the LDPWRI-B/20105 document. The declaration made by the BIDDER in the Declaration Certificate for Local Content and Annex C (Local Content Declaration: Summary Schedule) will be used for this purpose.

1.3.2 All responses that will not meet the required minimum threshold “Annexure 1 (SBD 6.2)” for local content as stipulated in the specifications will be disqualified and not evaluated further. Only Bidders that achieved the minimum threshold for local content and production will be evaluated further in terms of functionality and preference point system prescribed in the Preferential Procurement Regulations, 2017.

1.3.3 All Declarations for Local Content and Production must be fully completed and signed.

N.B Bidders will need to meet a minimum threshold percentage for local production and content as stipulated in the Bid Document (refer to the list of Designated Items for Local Production and Content) to be further evaluated in terms of the 80/20 or 90/10 preference point system prescribed in the Preferential Procurement Policy Framework Act, 5/2000 and preferential procurement regulations of 2017.

1.2.4 The exchange rate to be used for the calculation of Local Production and Content must be the exchange rate published by the South African Reserve Bank (SARB) during the advertisement period of this **LDPWRI-B/20105.**

1.2.5 Only the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 will be used to calculate local content.

2.6 The Local Content (LC) expressed, as a percentage of the bid price will be calculated in accordance with the following formula:

LC = (1 – x/y)* 100

Where

X is the imported content in Rand

Y is the quotation price in Rand excluding value added tax (VAT)

1. The exchange rate to be used for the calculation of local production and content must be the exchange rate published by the South African Reserve Bank (SARB) at 11:00 on Friday, 21 February 2020.

2. Only the South African Bureau of Standards (SANS) approved technical specification number SATS 1286:2011 must be used to calculate local content.

A. BID EVALUATION STAGE 3 - FUNCTIONALITY

NOTE: Functionality -A bidder must obtain a minimum of 70%underfunctionality to qualify for final evaluation.

Functionality	Weighting
Current Workload of Bidder • Current value is equal or greater than twice the maximum value of the required CIDB grade = 0 • Current value is greater than the maximum value of the required CIDB grade but less than twice the maximum value of the required CIDB grade = 5 • Current value is within the required CIDB threshold = 10 • Current value is less than the minimum value of the required CIDB grade = 15 Current value refers to current value of projects for both General Building (GB) and Civil Engineering (CE). Please list the current projects which your company is busy executing in Table 1. **NB: Completion of this table is mandatory for points to be allocated. Do not refer to any attachment. If no projects at the moment the tender must indicate on this table. Appointment letters must be attached for current projects. Misrepresentation of facts will render your bid non-responsive.**	15

Table 1 List of current projects executed by the bidder

1. Do you have the current projects being executed Yes/No?
2. If Yes, please indicate the details on the table below. Please note that it is compulsory to answer the question and if the answer is yes, complete the table. If the question is not answered or the table is not completed the points will not be allocated.

Project Description	Project Value	Start date	Planned end date	Client Name	Contact Person number

Profile of key staff (the key staff must be linked to project-specific organogram). Organogram, CVs, certified copies of professional registration and certified copies of qualifications must be attached for points to be allocated. NB: List the details of key staff in Table 2. Completion of this table is mandatory for points to be allocated.	**Weighting**
Project Supervisor/Site Agent Qualification • Registration as professional engineer, technologist, architect, construction manager or quantity surveyor = 5 • Degree in built environment = 3 • National Diploma in Built environment = 1 Relevant experience in general building projects • More than 5 years' experience = 5 • Between 2 and 5 years' experience = 3 • Less than 2 years = 1 **Construction Manager** Qualification • Registration as professional engineer, technologist, architect, construction manager or quantity surveyor = 5 • Degree in built environment = 3 • National Diploma in Built environment = 1 Relevant experience in general building projects • More than 5 years' experience = 5 • Between 2 and 5 years' experience = 3 • Less than 2 years = 1 **Site Safety Officer** • Registration with the South African Council for Project and Construction Management Professions (SACPCMP) as a Construction Health and Safety Officer / Construction Health and Safety Manager= 5 • Degree in built environment = 3 • National Diploma in Built environment=1 Relevant experience in general building projects • More than 5 years' experience = 5 • Between 2 and 5 years' experience = 3 • Less than 2 years = 1	30

Table 2 Details of key staff.

Name	Position	Qualifications	Professional Registration (if any)	Experience: Number of year(s)	Indicate whether full time or part-time on this project

Experience in similar projects in the last 10 years	**Weighting**
Number of projects completed within CIDB grade 7 GB or higher. The grading applies at the time of award of the project. Completed Projects must be classified as General Building (GB) works in terms of CIDB for points to be allocated. • Completed 5 or more projects = 25 • Completed 4 projects = 20 • Completed 3 projects = 15 • Completed 2 projects = 10 • Completed 1 project = 5 • Bidder submitted no project in CIDB grade 7 GB or higher= 0 **NB: The details of completed projects must be entered in Table 3. Completion of this table is mandatory for points to be allocated. Appointment letters and completion certificates must be attached for points to be allocated. All attachments to be on appropriate letterhead and signed off by the client.**	25

Table 3 Details of projects completed in the last 10 years

Project Description (include type of works- GB, etc.)	Project Value	Completion Certificate attached (Yes/No)	Client Name	Contact Person (Tel)

Proposal and methodology	Weighting
• **Project Proposal/Method Statement** The Bidder does not cover any aspect of the scope of work or no information submitted/attached = 0 The bidder does not deal with the critical aspects of the project associated with the scope of work =5 The bidder addresses the scope of work, provides a methodology to deal with the critical aspects of the project associated with the works =10 • **Project Schedule/programme** (acceptable scheduling software) Programme not submitted =0 Programme not aligned to Bill of Quantities (BOQ) = 2 Programme is aligned to the Bill of Quantities (BOQ) =5 • **Cashflow projections** Cashflow not submitted =0 The cash flow projections not aligned to the programme and BOQ=2 The cash flow projections, programme and BOQ are aligned=5	20

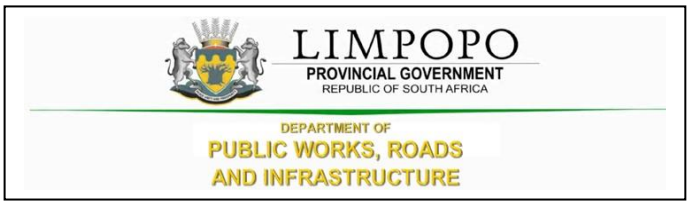
Safety, Health and Environmental Plan (SHEQ)	Weighting
The Bidder does not cover any aspect of the scope of work or no information submitted/attached =0 The bidder does not address safety and health issues related to the works – i.e. there is no cognisance to the safety of the learners, teachers and workers and the impact of their work on the environment=5 The safety, health and environment approach provided deals with the critical aspects of the project. Cognisance is taken dealing with safety of the workers, learners and teachers when conducting their works such as barricading of the area, conducting safety talk with the affected parties=10	10
Total	**100**
NB: To qualify for final evaluation the bidder must obtain a minimum score of 70% on functionality	

NB: ADDITIONAL EVALUATION CRITERIA

1. This project forms part of the Twenty-Five (25) schools programme (See table below)
2. Should one bidder score high points on more than three (3) projects, Bidders will be required to meet the minimum requirements as listed below to qualify for additional appointment:
   2.1 Bidder should have a minimum functionality score of 90 points.
   2.2 Bidder should have one CIDB grading level above the highest appointed level required grading.
3. The department reserves the right to negotiate prices in accordance with regulation **6 *(80/20 preference point system for acquisition of goods or services for Rand value equal to or above R30 000 and up to R50 millio*n)** and/or **7 *(90/10 preference point system for acquisition of goods or services with Rand value above R50 million)*** of the Preferential Procurement Regulations of 2017.
4. Furthermore, the Department *"LDPWR&I"* is not obliged to award the tender to the bidder with the highest number of tender points.

Item No	Name of school	LDPW Contract Number
1	Diphuti Primary	LDPWRI-20091
2	Kgarahara Secondary	LDPWRI-20096
3	Masikhwa Primary	LDPWRI-20092
4	Napsadi Secondary	LDPWRI-20093
5	Ngwana Makhutswe Secondary	LDPWRI-20094
6	Rasema Secondary	LDPWRI-20115
7	Seale Secondary	LDPWRI-20095
8	Mmaphuti Manamela Secondary (New Site)	LDPWRI-B/20100
9	David Scara Kutumela Primary (Modimolle RDP Settlement)	LDPWRI-B/20102
10	Matsobane Primary	LDPWRI-B/20103
11	Rakgoatha Primary	LDPWRI-B/20099
12	Dikoloi Secondary	LDPWRI-B/20097
13	Matsibe Secondary	LDPWRI-B/20101
14	Sekete Secondary	LDPWRI-B/20104
15	Suswe Primary	LDPWRI-B/2098
16	Matsuokwane Secondary	LDPWRI-B/20106

17	Rebone Secondary	LDPWRI-B/20105
18	Dikgalaopeng Secondary	LDPWRI-B/20107
19	Seboeng Primary (New Site)	LDPWRI-B/20108
20	St. Paul Secondary	LDPWRI-B/20109
21	Chameti Secondary	LDPWRI-B/20110
22	Mphakani Primary	LDPWRI-B/20112
23	Ramatimana Primary School	LDPWRI-B/20111
24	Sehonwe Primary	LDPWRI-B/20114
25	Vutivi Primary (New Site)	LDPWRI-B/20113



PART T2: RETURNABLE DOCUMENTS

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DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

T2.1: LIST OF RETURNABLE DOCUMENTS

BID EVALUATION STAGE 1- MANDATORY REQUIREMENTS

1. The following returnable documents and mandatory requirements are compulsory, failure to comply will be considered non-responsive, and the bid will not be evaluated any further. All returnable documents are incorporated into the bid documents.

- SBD1: Invitation to Bid (fully completed and signed)
- Submit a power of attorney/Certificate of Authority (fully completed and signed)
- Record of Addenda (where applicable)
- SBD 4: Declaration of Interest
- SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2017 or amended.
- SBD 6.2 Declaration Certificate for Local Production and Content
- SBD 8: Declaration of the bidder's past SCM practices
- SBD 9: Certificate of Bid determination
- Declaration of Subcontracting Arrangements
- C1.1: Form of the offer (PART C1)
- Joint venture certificate (where applicable)
- Bidding entity must not have any of their directors/shareholders listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
- Bidding entity must not appear on the National Treasury's list of blacklisted entities
- Completion of the Bid Document must be done with a non-erasable black pen
- Submission of fully completed original tender document

2. The following returnable documents are **required for tender evaluation purposes**.

- Curriculum Vitae of all key staff allocated to this project, indicating their experience and qualifications and professional registration with various councils.
- Certified copies (not older than 6 months from the date of certifying) of all qualifications, professional registrations, and training.
- Letters of completion for previous or current work on appropriate letterhead and signed off by the client must be attached. The letters must detail the scope of work undertaken, project value is undertaken, date of award and completion, and the location where work was carried out.
- Proof of ownership of the plant or confirmation of rental agreement thereof.
- Methodology documentation, detailing the bidder's approach to executing the scope of works, risk, and environmental impact.
- Proof of Contractor Registration issued by the Construction Industry Development Board - Compulsory.
- Signed Preferencing Schedule, including submitting the supporting documents
  - B-BBEE Verification Certificates issued by a verification agency accredited by the South African National Accreditation System "SANAS" (In the case of a consortium and Joint venture, a Joint BBBEE certificate is required, but where sub-contracting only the BBBEE of the bidding entity is required). Or in the case of an Exempted Micro Enterprise or a Qualifying Small Enterprise, if permitted in terms of the relevant code,
  - A duly completed and valid affidavit on the relevant form obtained from the DTI website (https://www.thedti.gov.za/economic_empowerment/bee_codes.jsp). Failure to submit these documents will result in no points allocated.

- Copy of COIDA (Compensation for Occupational Injuries and Diseases) registration certificate, e.g. Letter of Good Standing
- A valid Tax Clearance, unique security Personal Identification Number(PIN) issued by the South African Revenue Services (where Consortium / Joint Venture / Sub- contractors / Sub-consultants are involved, each party to the association must submit a separate Valid Tax Clearance unique security personal Identification number)
- Certified copy of directors' identity documents not older than six months. No copy of a certified copy will be accepted.
- Joint Venture or Consortium submissions are eligible, Joint Venture Agreement must be notarized by the commissioner of oath.
- Submission of fully Completed and Priced Bill of Quantities

KINDLY NOTE THAT FAILURE TO SUBMIT AND OR COMPLETE THE REQUIRED DOCUMENTATION (AS PER MANDATORY REQUIREMENTS INCLUDING COMPLETION OF SBD 1, 4, 6.1, 6.2, 8 and 9) WITH THE TENDER WILL RESULT IN YOUR TENDER BEING REJECTED WITHOUT FURTHER CONSIDERATION.

T2.2: RETURNABLE SCHEDULE

Bidders shall indicate whether the list of returnables has been submitted together with the following completed documents or attachments (by indicating Yes or No)		**Complaint**	
1.	SBD 1: Invitation to Bid	Yes	No
2.	Certificate of Authority	Yes	No
3.	Record of Addenda to the tender	Yes	No
4.	Compulsory Declaration	Yes	No
5.	Preferencing schedule: Broad-based Black Economic Empowerment status	Yes	No
6.	Proposed amendments and qualifications (if applicable)	Yes	No
7.	SBD 4: Declaration of Interest	Yes	No
8.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2017 or amended	Yes	No
9.	SBD 6.2 Declaration Certificate for Local Production and Content	Yes	No
10.	SBD 8: Declaration of the bidder's past SCM practices	Yes	No
11.	SBD 9: Certificate of Bid determination	Yes	No
12.	Declaration of Subcontracting Arrangements	Yes	No
13.	Form of offer	Yes	No
14.	CSD (Summary)	Yes	No
15.	COIDA	Yes	No
16.	Valid tax clearance or tax pin	Yes	No
17.	Certified copy of Contractor Registration for Incorporation or of Company Registration Document	Yes	No
18.	Joint venture certificate (where applicable)	Yes	No
19.	B-BBEE Verification Certificates issued by a verification agency accredited by the South African National Accreditation System (SANAS)	Yes	No
20.	Certified copies of Qualifications, Professional registration, and Training for Key persons	Yes	No
21.	Methodology/Method statement	Yes	No
22.	Certificates or letters of completed or current similar projects, with Contactable references and on the Client's letterhead	Yes	No
23.	Certified copy of directors' identity documents	Yes	No
24.	Minimum CIDB class grading: 7GB or higher (CIDB Certificate)	Yes	No
25.	Preliminary Programme/schedule and cash flow	Yes	No
26.	Safety, Health and Environmental Plan (SHEQ)	Yes	No

SBD1: INVITATION TO BID

PART A

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (*NAME OF DEPARTMENT/ PUBLIC ENTITY*)					
BID NUMBER:	LDPWRI-B/20105	CLOSING DATE:	As per advert	CLOSING TIME:	As per advert
DESCRIPTION	Upgrades and Additions at Rebone Secondary School				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX
SITUATED AT *(STREET ADDRESS)*

Department of Public Works, Roads and Infrastructure
Works Towers
43 Church Street.

SUPPLIER INFORMATION						
NAME OF BIDDER						
POSTAL ADDRESS						
STREET ADDRESS						
TELEPHONE NUMBER	CODE			NUMBER		
CELLPHONE NUMBER						
FACSIMILE NUMBER	CODE			NUMBER		
E-MAIL ADDRESS						
VAT REGISTRATION NUMBER						
	TCS PIN:		**OR**	CSD No:		
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		☐ Yes ☐ No	
IF YES, WHO WAS THE CERTIFICATE ISSUED BY?						
AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) AND NAME THE APPLICABLE IN THE TICK BOX	☐	AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)				
	☐	A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)				
	☐	A REGISTERED AUDITOR				
		NAME:				
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/SWORN AFFIDAVIT (FOR EMEs& QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]						

ARE YOU THE ACCREDITED REPRESENTATIVE **IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?**	☐Yes ☐No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR **THE GOODS /SERVICES /WORKS OFFERED?**	☐Yes ☐No [IF YES ANSWER PART B:3 BELOW]
SIGNATURE OF BIDDER	……	**DATE**	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)			
TOTAL NUMBER OF ITEMS OFFERED		**TOTAL BID PRICE (ALL INCLUSIVE)**	

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		**TECHNICAL INFORMATION MAY BE DIRECTED TO:**	
DEPARTMENT/ PUBLIC ENTITY	LDPWR&I	CONTACT PERSON	Mr. P. Makape
CONTACT PERSON	Ms Moloto V.	TELEPHONE NUMBER	082 460 6271
TELEPHONE NUMBER	015 284 7142	FACSIMILE NUMBER	
FACSIMILE NUMBER		E-MAIL ADDRESS	makapep@dpw.limpopo.gov.za
E-MAIL ADDRESS	molotomv@dpw.limpopo.gov.za		

PART B: TERMS AND CONDITIONS FOR BIDDING

1.	**BID SUBMISSION:**
1.1.	BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2.	**ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED– (NOT TO BE RE-TYPED) OR ONLINE**
1.3.	**BIDDERS MUST REGISTER ON THE CENTRAL SUPPLIER DATABASE (CSD) TO UPLOAD MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS; AND BANKING INFORMATION FOR VERIFICATION PURPOSES). B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.**
1.4.	**WHERE A BIDDER IS NOT REGISTERED ON THE CSD, MANDATORY INFORMATION NAMELY: (BUSINESS REGISTRATION/ DIRECTORSHIP/ MEMBERSHIP/IDENTITY NUMBERS; TAX COMPLIANCE STATUS MAY NOT BE SUBMITTED WITH THE BID DOCUMENTATION. B-BBEE CERTIFICATE OR SWORN AFFIDAVIT FOR B-BBEE MUST BE SUBMITTED TO BIDDING INSTITUTION.**
1.5.	THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.
2.	**TAX COMPLIANCE REQUIREMENTS**
2.1	BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2	BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3	APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.
2.4	BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID.
2.5	IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE PROOF OF TCS / PIN / CSD NUMBER.
2.6	WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
3.	**QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS**
3.1.	IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? ☐ YES ☐ NO
3.2.	DOES THE BIDDER HAVE A BRANCH IN THE RSA? ☐ YES ☐ NO
3.3.	DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA? ☐ YES ☐ NO
3.4.	DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA? ☐ YES ☐ NO
	IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN, IT IS NOT A REQUIREMENT TO OBTAIN A TAX COMPLIANCE STATUS / TAX COMPLIANCE SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 ABOVE.

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

CERTIFICATE OF AUTHORITY

Indicate the status of the tenderer by ticking the appropriate box hereunder. The tenderer must complete the certificate set out below for the relevant category.

A Company	B Partnership	C Joint Venture	D Sole Proprietor	E Close Corporation

A. CERTIFICATE FOR COMPANY

I,……, chairperson of the board of directors of ……, hereby confirm that by resolution of the board (copy attached) taken on ……20…., Mr/Mrs……..……acting in the capacity of……,was authorized to sign all documents in connection with this tender and any contract resulting from it on behalf of the company.

As witness

1…….. ……

. Chairperson

2…….. ……..

Date

B. CERTIFICATE OF PARTNERSHIP

We, the undersigned, being the key partners in the business trading as ……

hereby authorize Mr/Mrs……, acting in the capacity of……to sign all documents in connection with the tender for Contract……and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all the key partners upon whom rests the direction of the affairs of the Partnership as a whole.

C. CERTIFICATE FOR JOINT VENTURE

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorize Mr/Mrs……., authorized signatory of the company ……,acting in the capacity of lead partner, to sign all documents in connection with the tender offer for Contract……and any other contract resulting from it on our behalf.

This authorization is evidenced by the attached power of attorney signed by legally authorized signatories of all the partners to the Joint Venture.

NAME OF FIRM	ADDRESS	AUTHORIZING SIGNATURE, NAME & CAPACITY

D. CERTIFICATE FOR THE SOLE PROPRIETOR

I, ……., hereby confirm that I am the sole owner of the business trading as……...

As Witness:

1…….. ……
Signature: Sole owner

2……. ……
Date

E. CERTIFICATE FOR CLOSE CORPORATION

We, the undersigned, being the key members in the business trading as……hereby authorise Mr/Mrs……acting in the capacity of……, to sign all documents in connection with the tender for Contract……and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

NOTE: This certificate is to be completed and signed by all the key members upon whom rests the direction of the affairs of the Close Corporation as a whole

Record of Addenda to tender documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	**Title or Details**
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed ..... Date .....

Name ..... Position .....

Tenderer .....

Compulsory Declaration

The following particulars must be furnished. In the case of a joint venture, a separate declaration in respect of each partner must be completed and submitted.

Section 1: **Enterprise Details**

Name of enterprise:	
Contact person:	
Email:	
Telephone:	
Cell no	
Fax:	
Physical address	
Postal address	

Section 2: Particulars of companies and close corporations

Company / Close Corporation registration number	

Section 3: SARS Information

Tax reference number	
VAT registration number:	*State Not Registered if not registered for VAT*

Section 4: CIDB registration number

Section 5: National Treasury Central Supplier Database

Supplier number	
Unique registration reference number	

Section 6: Particulars of principals

principal: means a natural person who is a partner in a partnership, a sole proprietor, a director of a company established in terms of the Companies Act of 2008 (Act No. 71 of 2008) or a member of a close corporation registered in terms of the Close Corporation Act, 1984, (Act No. 69 of 1984).

Full name of the principal	Identity number	Personal tax reference number

Attach a separate page if necessary

Section 7: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any principal is currently or has been within the last 12 months in the service of any of the following:

- □ a member of any municipal council
- □ a member of any provincial legislature
- □ a member of the National Assembly or the National Council of Province
- □ a member of the board of directors of any municipal entity
- □ an official of any municipality or municipal entity
- □ an employee of any department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act of 1999 (Act No. 1 of 1999)
- □ a member of an accounting authority of any national or provincial public entity
- □ an employee of Parliament or a provincial legislature

If any of the above boxes are marked, disclose the following:

Name of principal	**Name of institution, public office, board or organ of state and position held**	**Status of service** *(tick appropriate column)*	
		Current	Within the last 12 months

*insert separate page if necessary

Section 8: Record of a family member in the service of the state

family member: a person's spouse, whether in a marriage or in a customary union according to indigenous law, a domestic partner in a civil union, or child, parent, brother, sister, whether such a relationship results from birth, marriage or adoption

Indicate by marking the relevant boxes with a cross, if any family member of a principal as defined in section 5 is currently or has been within the last 12 months been in the service of any of the following:

- □ a member of any municipal council
- □ a member of any provincial legislature
- □ a member of the National Assembly or the National Council of Province
- □ a member of the board of directors of any municipal entity
- □ an official of any municipality or municipal entity
- □ an employee of any provincial department, national o provincial public entity or constitutional institutio within the meaning of the Public Finance Manageme Act, 1999 (Act 1 of 1999)
- □ a member of an accounting authority of any nationa or provincial public entity
- □ an employee of Parliament or a provincial legislature

Name of a family member	**Name of institution, public office, board or organ of state and position held**	**Status of service (tick appropriate column)**	
		Current	**Within the last 12 m**

*insert separate page if necessary

Section 9: Record of termination of previous contracts with an organ of state

Was any contract between the tendering entities including any of its joint venture partners terminated during the past 5 years for reasons other than the employer no longer requiring such works or the employer fails to make payment in terms of the contract.

☐ Yes ☐ No (Tick appropriate box)

If yes, provide particulars (interest separate page if necessary)

Section 10: Declaration

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the tendering entity confirms that the contents of this Declaration are within my knowledge, and save where stated otherwise in an attachment hereto, are to the best of my belief both true and correct, and:

i) neither the name of the tendering entity or any of its principals appears on:

   a) the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004 (Act No. 12 of 2004)

   b) National Treasury's Database of Restricted Suppliers (see www.treasury.gov.za)

ii) neither the tendering entity of any of its principals has within the last five years been convicted of fraud or corruption by a court of law (including a court outside of the Republic of South Africa);

iii) any principal who is presently employed by the state has the necessary permission to undertake remunerative work outside such employment (attach permission to this declaration);

iv) the tendering entity is not associated, linked or involved with any other tendering entities submitting tender offers

v) has not engaged in any prohibited restrictive horizontal practices including consultation, communication, agreement, or arrangement with any competing or potential tendering entity regarding prices, geographical areas in which goods and services will be rendered, approaches to determining prices or pricing parameters, intentions to submit a tender or not, the content of the submission (specification, timing, conditions of the contract, etc.) or intention to not win a tender;

vi) has no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest;

vii) neither the tenderer or any of its principals owes municipal rates and taxes or municipal service charges to any municipality or a municipal entity and are not in arrears for more than 3 months;

viii) SARS may, on an on-going basis during the term of the contract, disclose the tenderer's tax compliance status to the Employer and when called upon to do so, obtain the written consent of any subcontractors who are subcontracted to execute a portion of the contract that is entered into more than the threshold prescribed by the National Treasury, for SARS to do likewise.

Signed ---------- Date ----------

Name ---------- Position ----------

Enterprise

NOTE 2: Section 30(1) of the Public Service Act, 1994, prohibits an employee (person who is employed in posts on the establishment of departments) from performing or engaging remunerative work outside his or her employment in the relevant department, except with the written permission of the executive authority of the department. When in operation, Section 8(2) of the Public Administration Management Act, 2014, will prohibit an employee of the public administration (i.e. organs of state and all national departments, national government components listed in Part A of Schedule 3 to the Public Service Act, provincial departments including the office of the premier listed in Schedule 1 of the Public Service Act and provincial departments listed in schedule 2 of the Public Service Act, and provincial government components listed in Part B of Schedule 3 of the Public Service Act) or persons contracted to executive authorities in accordance with the provisions of section 12A of the Public Service Act of 1994 or persons performing similar functions in organs of state from conducting business with the State or to be a director of a public or private company conducting business with the State. The offense for doing so is a fine or imprisonment for a period not exceeding 5 years or both. It is also serious misconduct which may result in the termination of employment by the employer.

NOTE 3: Regulation 44 of Supply Chain Management regulations issued in terms of the Municipal Finance Management Act of 2003 requires that organs of state and municipal entities not award a contract to a person who is the service of the state, a director, manager or principal shareholder in the service of the state or who has been in the service of the state in the previous twelve months.

NOTE 4: Regulation 45 of Supply Chain Management regulations requires a municipality or municipal entity to disclose in the notes to the particulars of the annual statement of any award made to a close family member in the service of the state.

NOTE 5: Corrupt activities which give rise to an offense in terms of the Prevention and Combating of Corrupt Activities Act of 2004) include improperly influencing in any way the procurement of any contract, the fixing of the price, consideration or other amounts of money stipulated or otherwise provided for in any contract and the manipulating by any means of the award of a tender.

NOTE 6: Section 4 of the Competition Act of 1998 prohibits restrictive horizontal practice including agreements between parties in a horizontal relationship that have the effect of substantially preventing or lessening competition, directly or indirectly fixing prices or dividing markets or constitute collusive tendering. Section 5 also prohibits restrictive vertical practices. Any restrictive practices that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties.

F. BROAD-BASED BLACK ECONOMIC EMPOWERMENT

Preferencing schedule: Broad-Based Black Economic Empowerment Status

Preamble

Section 10(b) of the Broad-Based Black Economic Empowerment Act of 2003 (Act No. 53 of 2003) states that "*Every organ of state and the public entity must take into account and, as far as is reasonably possible, apply any **relevant code of good practice** issued in terms of this Act in developing and implementing a preferential procurement policy."*

A number of codes of good practice have been issued in terms of Section 9(1) of the B-BBEE Act of 2003, including a generic code of good practice and various sector codes. The sector codes vary the metrics, weightings, and targets used in the generic code of good practice to establish the overall performance of an entity and its B-BBEE status. The B-BBEE status needs to be assessed in accordance with the applicable code.

1 Conditions associated with the granting of preferences

Tenderers who claim a preference shall provide proof of B-BBEE status level of contributor in accordance with the requirements of section 2 in respect of the applicable code as at the closing time for submissions, failing which their claims for preferences will be rejected.

1 Proof of B-BBEE status level of contributor

Proof of B-BBEE status level of contributor shall be by means of

- the B-BBEE status level certificate issued by an authorized body or person;
- an affidavit as prescribed by the B-BBEE Codes of Good Practice; or
- any other requirement prescribed in terms of the Broad-Based Black Economic Empowerment Act

2 Tender preferences claimed

The scoring shall be as follows:

B-BBEE status level of contributor	Status level of a tenderer *(tick relevant level)*	Number of preference points	
		90/10 preference points system	80/20 preference points system
Form not completed or non-complaint contributor		0	0
Level 8 contributor		1	2
Level 7 contributor		2	4
Level 6 contributor		3	6
Level 5 contributor		4	8
Level 4 contributor		5	12
Level 3 contributor		6	14
Level 2 contributor		9	18
Level 1 contributor		10	20

4 Declaration

The tenderer declares that

a) the tendering entity is a level contributor as stated in the submitted proof of B-BBEE status level of a contributor as at the closing date for submissions

b) the tendering entity has been measured in terms of the following code (tick applicable box):

☐ Generic code of good practice

☐ Construction Sector Code

☐ Other – specify

.....

.....

c) the tendering entity confirms that it will only enter into a subcontract with the Employer's prior approval and is not permitted to subcontract more than 25% of the total of the prices of the contract to any other enterprise that does not have an equal or higher B-BBEE status level of contributor unless the contract is a subcontractor to an Exempted Micro Enterprises which has the capability to execute the contract.

d) the contents of the declarations made in terms of a) and b) above are within my knowledge and are to the best of my belief both true and correct

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the tenderer, confirms that he/she understands the conditions under which such preferences are granted and confirms that the tenderer satisfies the conditions about the granting of tender preferences.

Signature: .....

Name: .....

Duly authorized to sign on behalf of: .....

Telephone: .....

Fax: ..... Date: .....

Name of witness: ..... Signature of witness: .....

Note: 1) Failure to complete the declaration will lead to the rejection of a claim for preference.

2) Supporting documentation of the abovementioned claim for preference must be submitted with the tender submission to be eligible for a preference

Proposed amendments and qualifications

The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a cover letter to his tender and reference such a letter in this schedule.

The Tenderer's attention is drawn to clause 5.8 of SANS 10845-3 regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed ..... Date .....

Name ..... Position .....

Tenderer .....

SBD 4: DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state[1], or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes an advertised competitive bid, a limited bid, a proposal or written price quotation). Because of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorized representative declare his/her position concerning the evaluating/adjudicating authority where-

    - the bidder is employed by the state; and/or

    - the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. To give effect to the above, the following questionnaire must be completed and submitted with the bid.

2.1 Full Name of bidder or his or her representative: …….

2.2 Identity Number……...

2.3 The position occupied in the Company (director, trustee, shareholder[2], member):

……

2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:

……..…….

2.5 Tax Reference Number: ……

2.6 VAT Registration Number: ……....

2.6.1 The names of all directors/trustees/shareholders/members, their identity numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.

[1]"State" means –
(a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
(b) any municipality or municipal entity;
(c) provincial legislature;
(d) national Assembly or the national Council of provinces; or
(e) Parliament.

[2]"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

2.7 Are you or any person connected with the bidder? YES / NO
Presently employed by the state?

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/ member: ……..……..……
Name of state institution at which you or the person
connected to the bidder is employed: ……..……

The position occupied in the state institution: ……..……

Any other particulars:
……
……
……

2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector? **YES / NO**

2.7.2.1 If yes, did you attach proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:
……
……
……

2.8 Did you or your spouse, or any of the company's directors / trustees/shareholders/members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:
……..
……..
……...

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

2.9.1 If so, furnish particulars.
……..
……..….
……

2.10 Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid? **YES/NO**

2.10.1 If so, furnish particulars**.**
……
……
……

2.11Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? **YES/NO**

2.11.1 If so, furnish particulars:

……..
……..
……..

3 Full details of directors / trustees / members / shareholders.

Full Name	**Identity Number**	**Personal Income Tax Reference Number**	**State Employee Number / Persal Number**

4 DECLARATION

I, THE UNDERSIGNED (NAME)……..

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.
I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

…….. ……
Signature Date

…… ……
Position Name of bidder

SBD 6.1: REFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

---

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2

a) The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the …….. preference point system shall be applicable; or

b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

(a) Price; and

(b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	
B-BBEE STATUS LEVEL OF CONTRIBUTOR	
Total points for Price and B-BBEE must not exceed	**100**

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

(a) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

(b) "**B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

(c) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;

(d) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);

(e) **"EME"** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

(f) **"functionality"** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.

(g) **"prices"** includes all applicable taxes less all unconditional discounts;

(h) **"proof of B-BBEE status level of contributor"** means:

1) B-BBEE Status level certificate issued by an authorized body or person;

2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;

3) Any other requirement prescribed in terms of the B-BBEE Act;

(i) **"QSE"** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

(j) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis: **80/20 or 90/10**

$$Ps = 80\left(1 - \frac{Pt - P\min}{P\min}\right) \quad \text{or} \quad Ps = 90\left(1 - \frac{Pt - P\min}{P\min}\right)$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

Pmin = Price of lowest acceptable bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: . = ……(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

7.1 Will any portion of the contract be sub-contracted?

(***Tick applicable box***)

YES		NO	

7.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted.....……%
ii) The name of the sub-contractor……..
iii) The B-BBEE status level of the sub-contractor.....……..

iv) Whether the sub-contractor is an EME or QSE
(Tick applicable box)

YES		NO	

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	**EME** √	**QSE** √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm:…….

8.2 VAT registration number:……

8.3 Company registration number:…….

8.4 TYPE OF COMPANY/ FIRM

- □ Partnership/Joint Venture / Consortium
- □ One person business/sole propriety
- □ Close corporation
- □ Company
- □ (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

……
……
……
……..

8.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[*TICK APPLICABLE BOX*]

8.7 Total number of years the company/firm has been in business:……

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

i) The information furnished is true and correct;

ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;

iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –

(a) disqualify the person from the bidding process;

(b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

(c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

(d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution.

WITNESSES

1. ……..

2. ……

……
SIGNATURE(S) OF BIDDERS(S)

DATE: ……..

ADDRESS ……..

……..

SBD 6.2: DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

1.1. Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.

1.2. Regulation Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.

1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.

1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = \left(1 - \frac{X}{Y}\right) X\ 100$$

Where
x is the imported content in Rand
y is the bid price in Rand excluding value-added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http:/www.dti.gov.za/industrial development/ip.jsp at no cost.

1.6 A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;

2. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows: (*Refer to "Treasury Designated sector"- Page 64 to 66)***

Description of services, works or goods Stipulated minimum threshold

_____ _____%

_____ _____%

_____ _____%

3. Does any portion of the services, works or goods offered have any imported content?

(***Tick applicable box***)

YES		NO	

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information are accessible on **www.reservebank.co.za.**

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	**Rates of exchange**
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the DTI must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION

(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO. .....

ISSUED BY: (Procurement Authority / Name of Institution):

.....

NB

1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ……..... (full names),
do hereby declare, in my capacity as …… ……..
of .....(name of bidder entity), the following:

(a) The facts contained herein are within my own personal knowledge.

(b) I have satisfied myself that

(i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and

(c)The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

(d) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____ **DATE:** _____

WITNESS No. 1 _____ **DATE:** _____

WITNESS No. 2_____ **DATE:** _____

GUIDANCE DOCUMENT FOR THE CALCULATION OF LOCAL CONTENT

1. DEFINITIONS

Unless explicitly provided in this guideline, the definitions given in SATS 1286:2011 apply.

2. GENERAL

2.1. Introduction

This guideline provides tenderers with a detailed description of how to calculate local content of products (goods, services and works) by components/material/services and enables them to keep an updated record for verification requirements as per the SATS 1286:2011 Annexure A and B.

The guideline consists of two parts, namely:

- a written guideline; and
- three declarations that must be completed:
  - Declaration C: "Local Content Declaration – Summary Schedule" (see Annexure C);
  - Declaration D: "Imported Content Declaration – Supporting Schedule to Annex C" (see Annexure D); and
  - Declaration E: "Local Content Declaration – Supporting Schedule to Annex C" (see Annexure E).

The guidelines and declarations should be used by tenderers when preparing a tender. A tenderer must complete Declarations D and E, and consolidate the information on Declaration C.

Annexure C must be submitted with the tender by the closing date and time as determined by the Tender Authority. The Tender Authority reserves the right to request that Declarations D and E also be submitted.

If the tender is successful, the tenderer must continuously update Declarations C, D and E with actual values for the duration of the contract.

NOTE:

Annexure A is a note to the purchaser in SATS 1286:2011; and
Annexure B is the Local Content Declaration IN SATS 1286:2011.

2.2. What is local content?

According to SATS 1286:2011, the local content of a product is the tender price less the value of imported content, expressed as a percentage. It is,therefore, necessary to first compute the imported value of a product to determine the local content of a product.

2.3. Categories: Imported and Local Content

The tenderer must differentiate between imported content and local content. Imported content of a product by components/material/services is separated into two categories, namely:

- products imported directly by the tenderer; and
- products imported by a third party and supplied to the tenderer.

2.3.1. Imported Content

Identify the imported content, if any, by value for products by component/material/services. In the case of components/materials/services sourced from a South African manufacturer, agent, supplier or subcontractor (i.e. third party), obtain that information and Declaration D from the third party.

Calculate the imported content of components/materials/services to be used in the manufacture of the total quantity of the products for which the tender is to be submitted.

As stated in clause 3.2.4 of SATS 1286:2011: “If information on the origin of components, parts or materials is not available, it will be deemed to be imported content.”

2.3.1.1. Imported directly by the tenderer:

When the tenderer import products directly, the onus is on the tenderer to provide evidence of any components/materials/services that were procured from a non-domestic source. The evidence should be verifiable and pertain to the tender as a whole. Typical evidence will include commercial invoices, bills of entry, etc.

When the tenderer procures imported services such as project management, design, testing, marketing, etc. and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

2.3.1.2. Imported by a third party and supplied to the tenderer:

When the tenderer supplies components/material/services that are imported by any third party (for example, a domestic manufacturer, agent, supplier or subcontractor in the supply chain), the onus is on the tenderer to obtain verifiable evidence from the third party.

The tenderer must obtain Declaration D from all third parties for the related tender. The third party must be requested by the tenderer to continuously update Declaration D. Typical evidence of imported content will include commercial invoices, bills of entry etc.

When a third party procures imported services such as project management, design, testing, marketing etc. and makes royalty and lease payments, such payments relating to the tender must be included when calculating imported content.

2.3.1.3. Exempt Imported Content:

Exemptions, if any, are granted by the Department of Trade and Industry(the dti). Evidence of the exemptions must be provided and included in Annexure D.

2.3.2. Local Content

Identify and calculate the local content, by value for products by components/materials/services to be used in the manufacture of the total quantity of the products.

TREASURY DESIGNATED SECTOR

TREASURY DESIGNATED SECTOR						
Steel Construction Material						
Item	Section	Bill No	Description	Unit	Qty	Local Content Threshold
Reinforcement (Foundations)						
2	2	11	Ref. S245 fabric reinforcement	m^2	1632	100%
3	2	12	Ref. S245 fabric reinforcement	m^2	215	100%
4	2	13	Ref. S245 fabric reinforcement	305	21	100%
5	2	11	Ref. S245 fabric reinforcement	m^2	105	100%
6	2	10	Ref. S245 fabric Reinforcement	m^2	44	100%
Reinforcement (C, F&R)						
2	2	10	All diameter bars	t	10	100%
3	2	11	All diameter bars	t	3	100%
4	2	12	All diameter bars	t	2	100%
5	2	10	All diameter bars	t	0.3	100%
6	2	10	All diameter bars	t	1	100%
13	4	2	8mm Diameter Bars Mild steel	t	0.22	100%
Brick Reinforcement (Masonry)						
2	3	9	150mm Brick Reinforcement	m	8256	100%
3	3	13	75mm Brick Reinforcement	m	262	100%
3	3	14	150mm Brick Reinforcement	m	3379	100%
4	3	13	75mm Brick Reinforcement	m	374	100%
4	3	14	150mm Brick Reinforcement	m	1857	100%
5	3	11	150mm Brick Reinforcement	m	440	100%
6	3	10	75mm Brick Reinforcement	m	131	100%
6	3	11	150mm Brick Reinforcement	m	715	100%
			Masonry Cement	t	289	100%

Item	Section	Bill No	Description	Unit	Qty	Local Content Threshold
Fabricated Structural Steel (Ironmongery)						
2	8	3	Door Stopper	No	20	100%
3	8	1	Door Stopper	No	80	100%
4	8	2	Door Stopper	No	26	100%
2	8	1	Pinning Boards	No	20	100%
2	8	2	Green Chalkboard	No	20	100%

4	8	2	Pinning Boards	No	5	100%
6	8	1	Door Stopper	No	8	100%
7	8	1	Pinning Boards	No	28	100%
7	8	2	Pinning Boards	No	13	100%
Door Frames						
2	9	2	Door Frames size 813 x 2032mm high	No	20	100%
3	9	2	Door Frames size 813 x 2032mm high	No	32	100%
3	9	3	Door Frames size 813 x 2032mm high	No	16	100%
3	9	4	Door Frames size 914 x 2032mm high	No	32	100%
4	9	2	Door Frames size 813 x 2032mm high	No	10	100%
4	9	3	Door Frames size 813 x 2032mm high	No	2	100%
4	9	4	Door Frames size 914 x 2032mm high	No	10	100%
4	9	5	Door Frames size 1500 x 2400mm high	No	2	100%
6	9	1	Door Frames size 914 x 2032mm high	No	8	100%
7	9	1	Door Frames size 813 x 2032mm high	No	16	100%
Security Gates						
2	9	1	Steel gate to door, size 813 x 2032mm high	No	20	100%
3	9	1	Steel gate to door, size 813 x 2032mm high	No	32	100%
4	9	1	Steel gate to door, size 1500 x 2400mm high	No	2	100%
7	9	1	Steel gate to door, 813 x 2032mm high	No	16	100%
Steel Columns and Beams						
2	9	5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	1401	100%
5	8	3	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	80	100%
Gutters, Downpipe and Lauders						
2	12	1	100 x 100 Eaves gutters	m	468	70%
2	12	2	Extra over eaves gutter for stopped end	No	40	70%
2	12	3	Extra over eaves gutter for corner	No	207	70%
2	12	4	Extra over eave gutter for outlet	No	50	70%
2	12	5	100mm Diameter downpipe	m	173	70%
2	12	6	Extra over downpipe for offset	No	100	70%
2	12	7	Extra over downpipe for Shoe	No	50	70%
3	12	1	100 x 100 Eaves gutters	m	185	70%
3	12	2	Extra over eaves gutter for stopped end	No	64	70%
3	12	3	Extra over eaves gutter for corner	No	139	70%

3	12	4	Extra over eave gutter for outlet	No	32	70%
3	12	5	100mm Diameter downpipe	m	111	70%
3	12	6	Extra over downpipe for offset	No	64	70%
3	12	7	Extra over downpipe for Shoe	No	32	70%
4	12	1	100 x 100 Eaves gutters	m	94	70%
4	12	2	Extra over eaves gutter for stopped end	No	22	70%
4	12	3	Extra over eaves gutter for corner	No	48	70%
4	12	4	Extra over eave gutter for outlet	No	11	70%
4	12	5	100mm Diameter downpipe	m	38	70%
4	12	6	Extra over downpipe for offset	No	22	70%
4	12	7	Extra over downpipe for Shoe	No	11	70%
5	11	1	100 x 100 Eaves gutters	m	46	70%
5	11	2	Extra over eaves gutter for stopped end	No	2	70%
5	11	3	Extra over eaves gutter for corner	No	16	70%
5	11	4	Extra over eave gutter for outlet	No	4	70%
5	11	5	100mm Diameter downpipe	m	14	70%
5	11	6	Extra over downpipe for offset	No	8	70%
5	11	7	Extra over downpipe for Shoe	No	4	70%
6	12	1	100 x 100 Eaves gutters	m	46	70%
6	12	2	Extra over eaves gutter for stopped end	No	16	70%
6	12	3	Extra over eaves gutter for corner	No	35	70%
6	12	4	Extra over eave gutter for outlet	No	8	70%
6	12	5	100mm Diameter downpipe	m	28	70%
6	12	6	Extra over downpipe for offset	No	16	70%
6	12	7	Extra over downpipe for Shoe	No	8	70%
7	12	1	100 x 100 Eaves gutters	m	232	70%
7	12	2	100mm Diameter downpipe	m	34	70%
Taps, Valves						
3	12	12	30m Plastic Hose reel	No	1	70%
4	12	12	Bib tap	No	3	70%
4	12	13	Sink mixer	No	1	70%
6	12	11	Bib tap	No	8	70%
7	12	7	Bib tap	No	8	70%
B-1.1			Class 1 transformer (50Kva 11kV/400V)	No	1	70%
B-2.1.1			Main Kiosk	No	1	100%
Electrical Cables						
PVC Cables						

B-1.1 Block A	75mm dia PVC sleeves	m	15	90%
B-1.2 Block A	110mm dia PVC sleeves	m	15	90%
B-2.1	110mm dia PVC sleeves	m	200	90%
B-1.2 Block Ex-C1	110mm dia PVC sleeves	m	10	90%
B-1.2 Block Ex-C2	110mm dia PVC sleeves	m	10	90%
B-1.2 Block Ex-C3	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-C4	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-C5	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-T1	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-T2	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-T3	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-T4	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Ex-T5	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block MPC-01	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block SJ-01	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block SJ-02	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block SJ-03	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block SJ-04	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block SJ-05	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block X01	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block X02	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block X03	110mm diameter PVC sleeves	m	10	90%
B-1.2 Block Z	110mm diameter PVC sleeves	m	20	90%
B-4.1 Block A	20mm PVC Conduit	m	900	90%
B-4.2 Block A	25mm PVC Conduit	m	600	90%
B-4.3 Block A	20mm PVC Conduit	m	300	90%
B-4.4 Block A	25mm PVC Conduit	m	200	90%
B-3.2 Block Ex-C1	20mm PVC Conduit	m	300	90%
B-3.3 Block Ex-C1	25mm PVC Conduit	m	200	90%
B-3.4 Block Ex-C1	20mm PVC Conduit	m	200	90%
B-3.5 Block Ex-C1	25mm PVC Conduit	m	100	90%
B-3.2 Block Ex-C2	20mm PVC Conduit	m	300	90%
B-3.3 Block Ex-C2	25mm PVC Conduit	m	200	90%
B-3.4 Block Ex-C2	20mm PVC Conduit	m	200	90%
B-3.5 Block Ex-C2	25mm PVC Conduit	m	100	90%
B-3.2 Block Ex-C3	20mm PVC Conduit	m	300	90%
B-3.3 Block Ex-C3	25mm PVC Conduit	m	200	90%
B-3.4 Block Ex-C3	20mm PVC Conduit	m	200	90%
B-3.5 Block Ex-C3	25mm PVC Conduit	m	100	90%
B-3.2 Block Ex-C4	20mm PVC Conduit	m	300	90%
B-3.3 Block Ex-C4	25mm PVC Conduit	m	200	90%

B-3.4 Block Ex-C4	20mm PVC Conduit	m	200	90%
B-3.5 Block Ex-C4	25mm PVC Conduit	m	100	90%
B-3.2 Block Ex-C5	20mm PVC Conduit	m	300	90%
B-3.3 Block Ex-C5	25mm PVC Conduit	m	200	90%
B-3.4 Block Ex-C5	20mm PVC Conduit	m	200	90%
B-3.5 Block Ex-C5	25mm PVC Conduit	m	100	90%
B-3.2 Block Ex-T1	20mm PVC Conduit	m	50	90%
B-3.3 Block Ex-T1	25mm PVC Conduit	m	50	90%
B-3.4 Block Ex-T1	20mm PVC Conduit	m	20	90%
B-3.5 Block Ex-T1	25mm PVC Conduit		20	90%
B-3.2 Block Ex-T2	20mm PVC Conduit	m	50	90%
B-3.3 Block Ex-T2	25mm PVC Conduit	m	50	90%
B-3.4 Block Ex-T2	20mm PVC Conduit	m	20	90%
B-3.5 Block Ex-T2	25mm PVC Conduit	m	20	90%
B-3.2 Block Ex-T3	20mm PVC Conduit	m	50	90%
B-3.3 Block Ex-T3	25mm PVC Conduit	m	50	90%
B-3.4 Block Ex-T3	20mm PVC Conduit	m	20	90%
B-3.5 Block Ex-T3	25mm PVC Conduit	m	20	90%
B-3.2 Block Ex-T4	20mm PVC Conduit	m	50	90%
B-3.3 Block Ex-T4	25mm PVC Conduit	m	50	90%
B-3.4 Block Ex-T4	20mm PVC Conduit	m	20	90%
B-3.5 Block Ex-T4	25mm PVC Conduit	m	20	90%
B-3.2 Block Ex-T5	20mm PVC Conduit	m	50	90%
B-3.3 Block Ex-T5	25mm PVC Conduit	m	50	90%
B-3.4 Block Ex-T5	20mm PVC Conduit	m	20	90%
B-3.5 Block Ex-T5	25mm PVC Conduit	m	20	90%
B-3.2 Block MPC-01	20mm PVC Conduit	m	200	90%
B-3.3 Block MPC-01	25mm PVC Conduit	m	100	90%
B-3.4 Block MPC-01	20mm PVC Conduit	m	200	90%
B-3.5 Block MPC-01	25mm PVC Conduit	m	100	90%
B-3.2 Block SJ-01	20mm PVC Conduit	m	300	90%
B-3.3 Block SJ-01	25mm PVC Conduit	m	200	90%
B-3.4 Block SJ-01	20mm PVC Conduit	m	200	90%
B-3.5 Block SJ-01	25mm PVC Conduit	m	100	90%
B-3.2 Block SJ-02	20mm PVC Conduit	m	300	90%
B-3.3 Block SJ-02	25mm PVC Conduit	m	200	90%
B-3.4 Block SJ-02	20mm PVC Conduit	m	200	90%
B-3.5 Block SJ-02	25mm PVC Conduit	m	100	90%
B-3.2 Block SJ-03	20mm PVC Conduit	m	300	90%
B-3.3 Block SJ-03	25mm PVC Conduit	m	200	90%
B-3.4 Block SJ-03	20mm PVC Conduit	m	200	90%
B-3.5 Block SJ-03	25mm PVC Conduit	m	100	90%

B-3.2 Block SJ-04	20mm PVC Conduit	m	300	90%
B-3.3 Block SJ-04	25mm PVC Conduit	m	200	90%
B-3.4 Block SJ-04	20mm PVC Conduit	m	200	90%
B-3.5 Block SJ-04	25mm PVC Conduit	m	100	90%
B-3.2 Block SJ-05	20mm PVC Conduit	m	300	90%
B-3.3 Block SJ-05	25mm PVC Conduit	m	200	90%
B-3.4 Block SJ-05	20mm PVC Conduit	m	200	90%
B-3.5 Block SJ-05	25mm PVC Conduit	m	100	90%
B-3.2 Block X01	20mm PVC Conduit	m	50	90%
B-3.3 Block X01	25mm PVC Conduit	m	50	90%
B-3.4 Block X01	20mm PVC Conduit	m	20	90%
B-3.5 Block X01	25mm PVC Conduit	m	20	90%
B-3.2 Block X02	20mm PVC Conduit	m	50	90%
B-3.3 Block X02	25mm PVC Conduit	m	50	90%
B-3.4 Block X02	20mm PVC Conduit	m	20	90%
B-3.5 Block X02	25mm PVC Conduit	m	20	90%
B-3.2 Block X03	20mm PVC Conduit	m	50	90%
B-3.3 Block X03	25mm PVC Conduit	m	50	90%
B-3.4 Block X03	20mm PVC Conduit	m	20	90%
B-3.5 Block X03	25mm PVC Conduit	m	20	90%
B-3.2 Block Z	20mm PVC Conduit	m	60	90%
B-3.3 Block Z	25mm PVC Conduit	m	60	90%
B-3.4 Block Z	20mm PVC Conduit	m	30	90%
B-3.5 Block Z	25mm PVC Conduit	m	30	90%
B-4.1	16mm² 4core	m	300	90%
B-4.2	10mm² BCEW	m	1000	90%
B-4.3	16mm² 2core	m	1300	90%
B-5.1	16mm² 4core	m	2	90%
B-5.2	16mm² 2core	m	10	90%
B-5.3	10mm² BCEW	m	20	90%
B-4.1 LV	25mm2 x 4 Core PVC SWA Cable	m	100	90%
B-4.2 LV	16mm2 x 4 Core PVC SWA Cable	m	300	90%
B-4.3 LV	16mm2 x 2 Core PVC SWA Cable	m	1000	90%
B-4.4 LV	16mm2 BCEW	m	1400	90%
B-5.1 LV	25mm2 x 4 Core PVC SWA Cable	m	2	90%
B-5.2 LV	16mm2 x 4 Core PVC SWA Cable	m	2	90%
B-5.3 LV	16mm2 x 2 Core PVC SWA Cable	m	10	90%
B-5.4 LV	16mm2 BCEW	m	20	90%
B-8.1 Block A	2.5mm2 BCEW	m	1000	90%
B-8.2 Block A	4mm2 BCEW	m	500	90%
B-8.3 Block A	6.0mm2 BCEW	m	250	90%

B-14.2 Block A	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-C1	2.5mm2 BCEW	m	300	90%
B-7.2 Block Ex-C1	4mm2 BCEW	m	150	90%
B-12.2 Block Ex-C1	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-C2	2.5mm2 BCEW	m	200	90%
B-7.2 Block Ex-C2	4mm2 BCEW	m	100	90%
B-12.2 Block Ex-C2	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-C3	2.5mm2 BCEW	m	250	90%
B-7.2 Block Ex-C3	4mm2 BCEW	m	125	90%
B-12.2 Block Ex-C3	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-C4	2.5mm2 BCEW	m	250	90%
B-7.2 Block Ex-C4	4mm2 BCEW	m	125	90%
B-12.2 Block Ex-C4	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-C5	2.5mm2 BCEW	m	300	90%
B-7.2 Block Ex-C5	4mm2 BCEW	m	150	90%
B-12.2 Block Ex-C5	35mm2 bare copper wire	m	40	90%
B-7.1 Block Ex-T1	2.5mm2 BCEW	m	50	90%
B-12.2 Block Ex-T1	35mm2 bare copper wire	m	20	90%
B-7.1 Block Ex-T2	2.5mm2 BCEW	m	50	90%
B-12.2 Block Ex-T2	35mm2 bare copper wire	m	20	90%
B-7.1 Block Ex-T3	2.5mm2 BCEW	m	50	90%
B-12.2 Block Ex-T3	35mm2 bare copper wire	m	20	90%
B-7.1 Block Ex-T4	2.5mm2 BCEW	m	50	90%
B-12.2 Block Ex-T4	35mm2 bare copper wire	m	20	90%
B-7.1 Block Ex-T5	2.5mm2 BCEW	m	50	90%
B-12.2 Block Ex-T5	35mm2 bare copper wire	m	20	90%
B-7.1 Block MPC-01	2.5mm2 BCEW	m	100	90%
B-7.2 Block MPC-01	4mm2 BCEW	m	50	90%
B-12.2 Block MPC-01	35mm2 bare copper wire	m	40	90%
B-7.1 Block SJ-01	2.5mm2 BCEW	m	300	90%
B-7.2 Block SJ-01	4mm2 BCEW	m	150	90%
B-12.2 Block SJ-01	35mm2 bare copper wire	m	40	90%
B-7.1 Block SJ-02	2.5mm2 BCEW	m	300	90%
B-7.2 Block SJ-02	4mm2 BCEW	m	150	90%
B-12.2 Block SJ-02	35mm2 bare copper wire	m	40	90%
B-7.1 Block SJ-03	2.5mm2 BCEW	m	300	90%
B-7.2 Block SJ-03	4mm2 BCEW	m	150	90%
B-12.2 Block SJ-03	35mm2 bare copper wire	m	40	90%
B-7.1 Block SJ-04	2.5mm2 BCEW	m	300	90%
B-7.2 Block SJ-04	4mm2 BCEW	m	150	90%
B-12.2 Block SJ-04	35mm2 bare copper wire	m	40	90%
B-7.1 Block SJ-05	2.5mm2 BCEW	m	300	90%

B-7.2 Block SJ-05	4mm2 BCEW	m	150	90%
B-12.2 Block SJ-05	35mm2 bare copper wire	m	40	90%
B-7.1 Block X01	2.5mm2 BCEW	m	50	90%
B-12.2 Block X01	35mm2 bare copper wire	m	20	90%
B-7.1 Block X02	2.5mm2 BCEW	m	50	90%
B-12.2 Block X02	35mm2 bare copper wire	m	20	90%
B-7.1 Block X03	2.5mm2 BCEW	m	50	90%
B-12.2 Block X03	35mm2 bare copper wire	m	20	90%
B-7.1 Block Z	2.5mm2 BCEW	m	60	90%
B-12.2 Block Z	35mm2 bare copper wire	m	20	90%
B-1.5 Area Lighting	6mm2 x 4 Core PVC SWA Cable	m	650	90%
B-1.6 Area Lighting	6mm2 BCEW	m	650	90%
B-2.2.1 Block A	0.6mm diameter galvanized draw wire	m	500	100%
B-2.2.1Block Ex-C1	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block Ex-C2	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block Ex-C3	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block Ex-C4	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block Ex-C5	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block Ex-T1	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block Ex-T2	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block Ex-T3	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block Ex-T4	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block Ex-T5	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block MPC-01	0.6mm diameter galvanized draw wire	m	50	100%
B-2.2.1 Block SJ-01	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block SJ-02	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block SJ-03	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block SJ-04	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block SJ-05	0.6mm diameter galvanized draw wire	m	100	100%
B-2.2.1 Block X01	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block X02	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block X03	0.6mm diameter galvanized draw wire	m	20	100%
B-2.2.1 Block Z	0.6mm diameter galvanized draw wire	m	2030	100%

3. ANNEXURE C

3.1. Guidelines for completing Annexure C: Local Content Declaration –Summary Schedule

Note: The paragraph numbers correspond to the numbers in Annexure C.

C1. Tender Number
Supply the tender number that is specified on the specific tender documentation.

C2. Tender description
Supply the tender description that is specified on the specific tender documentation.

C3. Designated products
Supply the details of the products that are designated in terms of this tender (i.e. buses).

C4. Tender Authority
Supply the name of the tender authority.

C5. Tendering Entity name
Provide the tendering entity name (for example, Unibody Bus Builders(Pty) Ltd).

C6. Tender Exchange Rate
Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

C7. Specified local content %
Provide the specified minimum local content requirement for the tender(i.e. 80%), as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MDB) 6.2.

C8. Tender item number
Provide the tender item number(s) of the products that have a local content requirement as per the tender specification.

C9. List of items
Provide a list of the item(s) corresponding with the tender item number. This may be a short description or a brand name.

<u>Calculation of local content</u>

C10. Tender price
Provide the unit tender price of each item excluding VAT.

C11. Exempted imported content
Provide the ZAR value of the exempted imported content for each item, if applicable. These value(s) must correspond with the value(s) of column D16 on Annexure D.

C12. Tender value net of exempted imported content
Provide the net tender value of the item, if applicable, by deducting the exempted imported content (C11) from the tender price (C10).

C13. Imported value
Provide the ZAR value of the items' imported content.

C14. Local value
Provide the local value of the item by deducting the Imported value(C13) from the net tender value (C12).

C15. Local content percentage (per item)
Provide the local content percentage of the item(s) by dividing the local value (C14) by the net tender value (C12) as per the local content formula in SATS 1286.

Tender Summary

C16. Tender quantity
Provide the tender quantity for each item number as per the tender specification.

C17. Total tender value
Provide the total tender value by multiplying the tender quantity (C16)by the tender price (C10).

C18. Total exempted imported content
Provide the total exempted imported content by multiplying the tender quantity (C16) by the exempted imported content (C11). These values must correspond with the values of column D18 on Annexure D.

C19. Total imported content
Provide the total imported content of each item by multiplying the tender quantity (C16) by the imported value (C13).

C20. Total tender value
Total tender value is the sum of the values in column C17.

C21. Total exempted imported content
Total exempted imported content is the sum of the values in columnC18. This value must correspond with the value of D19 on Annexure D.

C22. Total tender value net of exempted imported content
The total tender value net of exempt imported content is the total tender value (C20) less the total exempted imported content (C21).

C23. Total imported content
Total imported content is the sum of the values in column C19. This value must correspond with the value of D53 on Annexure D.

C24. Total local content

Total local content is the total tender value net of exempted imported content (C22) less the total imported content (C23). This value must correspond with the value of E13 on Annexure E.

C25. Average local content percentage of tender

The average local content percentage of tender is calculated by dividing total local content (C24) by the total tender value net of exempted imported content (C22).

4. ANNEXURE D

4.1. Guidelines for completing Annexure D: "Imported Content Declaration –Supporting Schedule to Annexure C"

Note: The paragraph numbers correspond to the numbers in Annexure D.

D1. Tender number
Supply the tender number that is specified on the specific tender documentation.

D2. Tender description
Supply the tender description that is specified on the specific tender documentation.

D3. Designated products
Supply the details of the products that are designated in terms of this tender (i.e. buses).

D4. Tender authority
Supply the name of the tender authority.

D5. Tendering entity name
Provide the tendering entity name (i.e. Unibody Bus Builders (Pty) Ltd).

D6. Tender exchange rate
Provide the exchange rate used for this tender, as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

Table A. Exempted Imported Content

D7. Tender item number
Provide the tender item number(s) of the product(s) that have imported content.

D8. Description of imported content
Provide a list of the exempted imported product(s), if any, as specified in the tender.

D9. Local supplier
Provide the name of the local supplier(s) supplying the imported product(s).

D10. Overseas supplier
Provide the name(s) of the overseas supplier(s) supplying the exempted imported product(s).

D11. Imported value as per commercial invoice
Provide the foreign currency value of the exempted imported product(s)disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).

D12. Tender exchange rate

Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D13. Local value of imports

Convert the value of the exempted imported content as per commercial invoice (D11) into the ZAR value by using the tender exchange rate(D12) disclosed in the tender documentation.

D14. Freight costs to port of entry

Provide the freight costs to the South African Port of the exempted imported item.

D15. All locally incurred landing costs and duties

Provide all landing costs including customs and excise duty for the exempted imported product(s) as stipulated in the SATS 1286:2011.

D16. Total landed costs excluding VAT

Provide the total landed costs (excluding VAT) for each item imported by adding the corresponding item values in columns D13, D14 andD15. These values must be transferred to column C11 on Annexure C.

D17. Tender quantity

Provide the tender quantity of the exempted imported products as per the tender specification.

D18. Exempted imported value

Provide the imported value for each of the exempted imported product(s) by multiplying the total landed cost (excl. VAT) (D16) by the tender quantity (D17). The values in column D18 must correspond with the values of column C18 of Annexure C.

D19. Total exempted imported value

The total exempted imported value is the sum of the values in columnD18. This total must correspond with the value of C21 on Annexure C.

Table B. Imported Directly By Tenderer

D20. Tender item numbers

Provide the tender item number(s) of the product(s) that have imported content.

D21. Description of imported content:

Provide a list of the product(s) imported directly by tender as specified in the tender documentation.

D22. Unit of measure

Provide the unit of measure for the product(s) imported directly by the tenderer.

D23. Overseas supplier

Provide the name(s) of the overseas supplier(s) supplying the imported product(s).

D24. Imported value as per commercial Invoice
Provide the foreign currency value of the product(s) imported directly by tenderer disclosed in the commercial invoice accepted by the South African Revenue Service (SARS).

D25. Tender rate of exchange
Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D26. Local value of imports
Convert the value of the product(s) imported directly by the tenderer asper commercial invoice (D24) into the ZAR value by using the tender exchange rate (D25) disclosed in the tender documentation.

D27. Freight costs to port of entry
Provide the freight costs to the South African Port of the product(s)imported directly by the tenderer.

D28. All locally incurred landing costs and duties
Provide all landing costs including customs and excise duty for the product(s) imported directly by the tenderer as stipulated in the SATS1286:2011.

D29. Total landed costs excluding VAT
Provide the total landed costs (excluding VAT) for each item imported directly by the tenderer by adding the corresponding item values in columns D26, D27 and D28.

D30. Tender quantity
Provide the tender quantity of the product(s) imported directly by the tenderer as per the tender specification.

D31. Total imported value
Provide the total imported value for each of the product(s) imported directly by the tenderer by multiplying the total landed cost (excl. VAT)(D29) by the tender quantity (D30).

D32. Total imported value by tenderer
The total value of imports by the tenderer is the sum of the values in column D31.

Table C. Imported by Third Party and Supplied to the Tenderer

D33. Description of imported content
Provide a list of the product(s) imported by the third party and supplied to the tenderer as specified in the tender documentation.

D34. Unit of measure
Provide the unit of measure for the product(s) imported by the third party and supplied to tenderer as disclosed in the commercial invoice.

D35. Local supplier
Provide the name of the local supplier(s) supplying the imported product(s).

D36. Overseas supplier
Provide the name(s) of the overseas supplier(s) supplying the imported products.

D37. Imported value as per commercial invoice
Provide the foreign currency value of the product(s) imported by the third party and supplied to the tenderer disclosed in the commercial invoice accepted by SARS.

D38. Tender rate of exchange
Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D39. Local value of imports
Convert the value of the product(s) imported by the third party as precommercial invoice (D37) into the ZAR value by using the tender exchange rate (D38) disclosed in the tender documentation.

D40. Freight costs to port of entry
Provide the freight costs to the South African Port of the product(s)imported by third party and supplied to the tenderer.

D41. All locally incurred landing costs and duties
Provide all landing costs including customs and excise duty for the product(s) imported by third party and supplied to the tenderer as stipulated in the SATS 1286:2011.

D42. Total landed costs excluding VAT
Provide the total landed costs (excluding VAT) for each product imported by third party and supplied to the tenderer by adding the corresponding item values in columns D39, D40 and D41.

D43. Quantity imported
Provide the quantity of each product(s) imported by third party and supplied to the tenderer for the tender.

D44. Total imported value
Provide the total imported value of the product(s) imported by third party and supplied to the tenderer by multiplying the total landed cost(D42) by the quantity imported (D43).

D45. Total imported value by third party
The total imported value from the third party is the sum of the values in column D44.

Table D. Other Foreign Currency Payments

D46. Type of payment
Provide the type of foreign currency payment. (i.e. royalty payment for use of patent, annual licence fee, etc.).

D47. Local supplier making the payment
Provide the name of the local supplier making the payment.

D48. Overseas beneficiary
Provide the name of the overseas beneficiary.

D49. Foreign currency value paid
Provide the value of the listed payment(s) in their foreign currency.

D50. Tender rate of exchange
Provide the exchange rate used for this tender as per the Standard Bidding Document (SBD) and Municipal Bidding Document (MBD) 6.2.

D51. Local value of payments
Provide the local value of each payment by multiplying the foreign currency value paid (D49) by the tender rate of exchange (D50).

D52. Total of foreign currency payments declared by tenderer and/or third party
The total of foreign currency payments declared by tenderer and/or a third party is the sum of the values in column D51.

D53. Total of imported content and foreign currency payment
The total imported content and foreign currency payment is the sum of the values in column D32, D45 and D52. This value must correspond with the value of C23 on Annexure C.

5. ANNEXURE E

5.1. Guidelines to completing Annexure E: "Local Content Declaration-Supporting Schedule to Annexure C"

The paragraph numbers correspond to the numbers in Annexure E

E1. Tender number
Supply the tender number that is specified on the specific tender documentation.

E2. Tender description
Supply the tender description that is specified on the specific tender documentation.

E3. Designated products
Supply the details of the products that are designated in terms of this tender (for example, buses/canned vegetables).

E4. Tender authority
Supply the name of the tender authority.

E5. Tendering entity name
Provide the tendering entity name (for example, Unibody Bus Builders(Pty) Ltd) Ltd).

Local Goods, Services and Works

E6. Description of items purchased
Provide a description of the items purchased locally in the space provided.

E7. Local supplier
Provide the name of the local supplier that corresponds to the item listed in column E6.

E8. Value
Provide the total value of the item purchased in column E6.

E9. Total local products (Goods, Services and Works)
Total local products (goods, services and works) is the sum of the values in E8.

E10. Manpower costs:
Provide the total of all the labour costs accruing only to the tenderer(i.e. not the suppliers to tenderer).

E11. Factory overheads:
Provide the total of all the factory overheads including rental, depreciation and amortisation for local and imported capital goods, utility costs and consumables. (Consumables are goods used by individuals and businesses that must be replaced regularly because they wear out or are used up. Consumables can also be defined as

the components of an end product that are used up or permanently altered in the process of manufacturing, such as basic chemicals.)

E12. Administration overheads and mark-up:
Provide the total of all the administration overheads, including marketing, insurance, financing, interest and mark-up costs.

E13. Total local content:
The total local content is the sum of the values of E9, E10, E11 andE12. This total must correspond with C24 of Annexure C.

ANNEX C: LOCAL CONTENT DECLARATION – SUMMARY SCHEDULE

SATS 1286.2011

Annex C

(C1)	**Tender No.**
(C2)	**Tender description:**
(C3)	**Designated product(s)**
(C4)	**Tender Authority:**
(C5)	**Tendering Entity name:**
(C6)	**Tender Exchange Rate:** Pula EU GBP
(C7)	**Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
2-2-11	Ref. S245 fabric reinforcement							1 632			
3-2-12	Ref. S245 fabric reinforcement							215			
4-2-13	Ref. S245 fabric reinforcement							305			
5-2-11	Ref. S245 fabric reinforcement							105			
6-2-10	Ref. S245 fabric reinforcement							44			
C-3-2-30	Ref.617 fabric reinforcement							60			
C-3-5-17	Ref.245 fabric reinforcement							152			
2-2-10	All diameter bars							10.00			
3-2-11	All diameter bars							3.00			
4-2-12	All diameter bars							2.00			
5-2-10	All diameter bars							0.30			
6-2-9	All diameter bars							1.00			
2-3-9	150mm Brick Reinforcement							8 256			
3-3-13	75mm Brick Reinforcement							262			
3-3-14	150mm Brick Reinforcement							3 379			
4-3-13	75mm Brick Reinforcement							374			
4-3-14	150mm Brick Reinforcement							1 857			
5-3-11	150mm Brick Reinforcement							440			
6-3-10	75mm Brick Reinforcement							131			
6-3-11	150mm Brick Reinforcement							715			
	Masonry cement							289			
2-8-2	Green Chalkboard							20.00			
2-8-3	Door Stopper							20.00			
4-8-2	Door Stopper							26.00			
7-8-3	Door Stopper							24.00			

(C20) **Total tender value**	
(C21) **Total Exempt imported content**	
(C22) Total **Tender value net of exempt imported content**	
(C23) **Total Imported content**	
(C24) **Total local content**	
(C25) **Average local content % of tender**	

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1)	**Tender No.**
(C2)	**Tender description:**
(C3)	**Designated product(s)**
(C4)	**Tender Authority:**
(C5)	**Tendering Entity name:**
(C6)	**Tender Exchange Rate:** Pula EU GBP
(C7)	**Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	*(C9)*	*(C10)*	*(C11)*	*(C12)*	*(C13)*	*(C14)*	*(C15)*	*(C16)*	*(C17)*	*(C18)*	*(C19)*
2-9-1	Steel gate to door, size 813 x 2032mm high							20			
2-9-2	Door Frames size 813 x 2032mm high							20			
3-9-1	Steel gate to door, size 813 x 2032mm high							16			
3-9-2	Door Frames size 813 x 2032mm high							32			
3-9-3	Door Frames size 813 x 2032mm high							16			
3-9-4	Door Frames size 914 x 2032mm high							32			
4-9-1	Steel gate to door, size 1500 x 2400mm high							2			
4-9-2	Door Frames size 813 x 2032mm high							10			
4-9-3	Door Frames size 813 x 2032mm high							2			
4-9-4	Door Frames size 914 x 2032mm high							10			
4-9-5	Door Frames size 1500 x 2400mm high							2			
4-9-6	Strong room door size 813 x 2032mm high							1			
6-9-1	Door Frames size 914 x 2032mm high							8			
2-9-3	Window Frames size 1143 x 1272mm high							180			
3-9-5	Window Frames size 533 x 950mm high							32			
4-9-7	Window Frames size 1022 x 900mm high							3			
4-9-8	Window Frames size 1022 x 949mm high							3			
4-9-9	Window Frames size 2000 x 1770mm high							1			
4-9-10	Window Frames size 533 x 950mm high							5			
4-9-11	Window Frames size 1511 x 1170mm high							14			
5-8-1	Window Frames size 1143 x 900mm high							9			
6-9-2	Window Frames size 1022 x 949mm high							8			
2-5-1	Roof sheeting							2 416			
2-5-2	500mm girth Ridge							125			
2-5-3	500mm girth Hip							125			
2-3-14	30 x 1.2 galvanized steel roof ties							390			

(C20) **Total tender value**

(C21) **Total Exempt imported content**

(C22) Total **Tender value net of exempt imported content**

(C23) **Total Imported content**

(C24) **Total local content**

(C25) **Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: **VAT to be excluded from all calculations**

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
3-5-1	Roof sheeting							322			
3-5-2	500mm girth Ridge							46			
3-5-3	500mm girth Hip							81			
3-3-18	30 x 1.2 galvanized steel roof ties							154			
4-5-1	Roof sheeting							441			
4-5-2	500mm girth Ridge							25			
4-5-3	500mm girth Hip							39			
4-3-19	30 x 1.2 galvanized steel roof ties							76			
5-5-1	Roof sheeting							157			
5-5-2	500mm girth Ridge							11			
5-5-3	500mm girth Hip							23			
5-3-15	30 x 1.2 galvanized steel roof ties							38			
6-5-1	Roof sheeting							74			
6-5-2	500mm girth Ridge							11			
6-5-3	500mm girth Hip							20			
6-3-18	30 x 1.2 galvanized steel roof ties							37			
B-2.2.1 Block A	0.6mm diameter galvanized draw wire							500			
B-2.2.1Block Ex-C1	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block Ex-C2	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block Ex-C3	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block Ex-C4	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block Ex-C5	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block Ex-T1	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block Ex-T2	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block Ex-T3	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block Ex-T4	0.6mm diameter galvanized draw wire							20			

(C20) **Total tender value**
(C21) **Total Exempt imported content**
(C22) Total **Tender value net of exempt imported content**
(C23) **Total Imported content**
(C24) **Total local content**
(C25) **Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-2.2.1 Block Ex-T5	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block MPC-01	0.6mm diameter galvanized draw wire							50			
B-2.2.1 Block SJ-01	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block SJ-02	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block SJ-03	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block SJ-04	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block SJ-05	0.6mm diameter galvanized draw wire							100			
B-2.2.1 Block X01	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block X02	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block X03	0.6mm diameter galvanized draw wire							20			
B-2.2.1 Block Z	0.6mm diameter galvanized draw wire							2030			
2-9-5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column							1 401			
5-8-3	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column							80			
2-12-1	100 x 100 Eaves gutters							468			
2-12-2	Extra over eaves gutter for stopped end							40			
2-12-3	Extra over eaves gutter for corner							207			
2-12-4	Extra over eave gutter for outlet							50			
2-12-5	100mm Diameter downpipe							173			
2-12-6	Extra over downpipe for offset							100			
2-12-7	Extra over downpipe for Shoe							50			
3-12-1	100 x 100 Eaves gutters							185			
3-12-2	Extra over eaves gutter for stopped end							64			
3-12-3	Extra over eaves gutter for corner							139			
3-12-4	Extra over eave gutter for outlet							32			
3-12-5	100mm Diameter downpipe							111			
3-12-6	Extra over downpipe for offset							64			

Signature of tenderer from Annex B

Date:

***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
3-12-7	Extra over downpipe for Shoe							32			
4-12-1	100 x 100 Eaves gutters							94			
4-12-2	Extra over eaves gutter for stopped end							22			
4-12-3	Extra over eaves gutter for corner							48			
4-12-4	Extra over eave gutter for outlet							11			
4-12-5	100mm Diameter downpipe							38			
4-12-6	Extra over downpipe for offset							22			
4-12-7	Extra over downpipe for Shoe							11			
5-12-1	100 x 100 Eaves gutters							46			
5-12-2	Extra over eaves gutter for stopped end							2			
5-12-3	Extra over eaves gutter for corner							16			
5-12-4	Extra over eave gutter for outlet							4			
5-12-5	100mm Diameter downpipe							14			
5-12-6	Extra over downpipe for offset							8			
5-12-7	Extra over downpipe for Shoe							4			
6-12-1	100 x 100mm seamless eaves gutters							46			
6-12-2	Extra over eaves gutter for stopped end							16			
6-12-3	Extra over eaves gutter for corner							35			
6-12-4	Extra over eave gutter for outlet							8			
6-12-5	100mm Diameter downpipe							28			
6-12-6	Extra over downpipe for offset							16			
6-12-7	Extra over downpipe for Shoe							8			
7-12-1	100 x 100mm seamless eaves gutters							232			
7-12-2	100mm Diameter downpipe							34			
3-12-12	Bib tap							16.00			
4-12-12	Bib tap							3.00			
4-12-13	Sink mixer							1.00			

(C20) **Total tender value**
(C21) **Total Exempt imported content**
(C22) Total **Tender value net of exempt imported content**
(C23) **Total Imported content**
(C24) **Total local content**
(C25) **Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
6-12-11	Bib tap							8.00			
6-11-10	Bib tap							24.00			
C-3-2-27	90 mm diam. Gate valve							2.00			
C-3-2-26	75 mm diam. Gate valve							2.00			
B-1.1	Class 1 transformer (50Kva 11kV/400V)							1.00			
B-2.1.1	Main Kiosk							1.00			
B-2.1	110mm dia PVC sleeves							200			
B-4.1	16mm² 4core							300			
B-4.2	10mm² BCEW							1000			
B-4.3	16mm² 2core							1300			
B-5.1	16mm² 4core							2			
B-5.2	16mm² 2core							10			
B-5.3	10mm² BCEW							20			
B-1.1 Block A	75mm dia PVC sleeves							15			
B-1.2 Block A	110mm dia PVC sleeves							15			
B-4.1 Block A	20mm PVC Conduit							900			
B-4.2 Block A	25mm PVC Conduit							600			
B-4.3 Block A	20mm PVC Conduit							300			
B-4.4 Block A	25mm PVC Conduit							200			
B-1.2 Block Ex-C1	110mm dia PVC sleeves							10			
B-3.2 Block Ex-C1	20mm PVC Conduit							300			
B-3.3 Block Ex-C1	25mm PVC Conduit							200			
B-3.4 Block Ex-C1	20mm PVC Conduit							200			
B-3.5 Block Ex-C1	25mm PVC Conduit							100			
B-1.2 Block Ex-C2	110mm dia PVC sleeves							10			
B-3.2 Block Ex-C2	20mm PVC Conduit							300			
B-3.3 Block Ex-C2	25mm PVC Conduit							200			

***(C20)* Total tender value**
***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-3.4 Block Ex-C2	20mm PVC Conduit							200			
B-3.5 Block Ex-C2	25mm PVC Conduit							100			
B-1.2 Block Ex-C3	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-C3	20mm PVC Conduit							300			
B-3.3 Block Ex-C3	25mm PVC Conduit							200			
B-3.4 Block Ex-C3	20mm PVC Conduit							200			
B-3.5 Block Ex-C3	25mm PVC Conduit							100			
B-1.2 Block Ex-C4	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-C4	20mm PVC Conduit							300			
B-3.3 Block Ex-C4	25mm PVC Conduit							200			
B-3.4 Block Ex-C4	20mm PVC Conduit							200			
B-3.5 Block Ex-C4	25mm PVC Conduit							100			
B-1.2 Block Ex-C5	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-C5	20mm PVC Conduit							300			
B-3.3 Block Ex-C5	25mm PVC Conduit							200			
B-3.4 Block Ex-C5	20mm PVC Conduit							200			
B-3.5 Block Ex-C5	25mm PVC Conduit							100			
B-1.2 Block Ex-T1	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-T1	20mm PVC Conduit							50			
B-3.3 Block Ex-T1	25mm PVC Conduit							50			
B-3.4 Block Ex-T1	20mm PVC Conduit							20			
B-3.5 Block Ex-T1	25mm PVC Conduit							20			
B-1.2 Block Ex-T2	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-T2	20mm PVC Conduit							50			
B-3.3 Block Ex-T2	25mm PVC Conduit							50			
B-3.4 Block Ex-T2	20mm PVC Conduit							20			
B-3.5 Block Ex-T2	25mm PVC Conduit							20			

***(C20)* Total tender value**
***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-1.2 Block Ex-T3	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-T3	20mm PVC Conduit							50			
B-3.3 Block Ex-T3	25mm PVC Conduit							50			
B-3.4 Block Ex-T3	20mm PVC Conduit							20			
B-3.5 Block Ex-T3	25mm PVC Conduit							20			
B-1.2 Block Ex-T4	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-T4	20mm PVC Conduit							50			
B-3.3 Block Ex-T4	25mm PVC Conduit							50			
B-3.4 Block Ex-T4	20mm PVC Conduit							20			
B-3.5 Block Ex-T4	25mm PVC Conduit							20			
B-1.2 Block Ex-T5	110mm diameter PVC sleeves							10			
B-3.2 Block Ex-T5	20mm PVC Conduit							50			
B-3.3 Block Ex-T5	25mm PVC Conduit							50			
B-3.4 Block Ex-T5	20mm PVC Conduit							20			
B-3.5 Block Ex-T5	25mm PVC Conduit							20			
B-1.2 Block MPC-01	110mm diameter PVC sleeves							10			
B-3.2 Block MPC-01	20mm PVC Conduit							200			
B-3.3 Block MPC-01	25mm PVC Conduit							100			
B-3.4 Block MPC-01	20mm PVC Conduit							200			
B-3.5 Block MPC-01	25mm PVC Conduit							100			
B-1.2 Block SJ-01	110mm diameter PVC sleeves							10			
B-3.2 Block SJ-01	20mm PVC Conduit							300			
B-3.3 Block SJ-01	25mm PVC Conduit							200			
B-3.4 Block SJ-01	20mm PVC Conduit							200			
B-3.5 Block SJ-01	25mm PVC Conduit							100			
B-1.2 Block SJ-02	110mm diameter PVC sleeves							10			
B-3.2 Block SJ-02	20mm PVC Conduit							300			
B-3.3 Block SJ-02	25mm PVC Conduit							200			
B-3.4 Block SJ-02	20mm PVC Conduit							200			
B-3.5 Block SJ-02	25mm PVC Conduit							100			

(C20) **Total tender value**
(C21) **Total Exempt imported content**
(C22) Total **Tender value net of exempt imported content**
(C23) **Total Imported content**
(C24) **Total local content**
(C25) **Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1)	**Tender No.**
(C2)	**Tender description:**
(C3)	**Designated product(s)**
(C4)	**Tender Authority:**
(C5)	**Tendering Entity name:**
(C6)	**Tender Exchange Rate:**
(C7)	**Specified local content %**

Note: VAT to be excluded from all calculations

Pula EU GBP

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	*(C9)*	*(C10)*	*(C11)*	*(C12)*	*(C13)*	*(C14)*	*(C15)*	*(C16)*	*(C17)*	*(C18)*	*(C19)*
B-1.2 Block SJ-03	110mm diameter PVC sleeves							10			
B-3.2 Block SJ-03	20mm PVC Conduit							300			
B-3.3 Block SJ-03	25mm PVC Conduit							200			
B-3.4 Block SJ-03	20mm PVC Conduit							200			
B-3.5 Block SJ-03	25mm PVC Conduit							100			
B-1.2 Block SJ-04	110mm diameter PVC sleeves							10			
B-3.2 Block SJ-04	20mm PVC Conduit							300			
B-3.3 Block SJ-04	25mm PVC Conduit							200			
B-3.4 Block SJ-04	20mm PVC Conduit							200			
B-3.5 Block SJ-04	25mm PVC Conduit							100			
B-1.2 Block SJ-05	110mm diameter PVC sleeves							10			
B-3.2 Block SJ-05	20mm PVC Conduit							300			
B-3.3 Block SJ-05	25mm PVC Conduit							200			
B-3.4 Block SJ-05	20mm PVC Conduit							200			
B-3.5 Block SJ-05	25mm PVC Conduit							100			
B-1.2 Block X01	110mm diameter PVC sleeves							10			
B-3.2 Block X01	20mm PVC Conduit							50			
B-3.3 Block X01	25mm PVC Conduit							50			
B-3.4 Block X01	20mm PVC Conduit							20			
B-3.5 Block X01	25mm PVC Conduit							20			
B-1.2 Block X02	110mm diameter PVC sleeves							10			
B-3.2 Block X02	20mm PVC Conduit							50			
B-3.3 Block X02	25mm PVC Conduit							50			
B-3.4 Block X02	20mm PVC Conduit							20			
B-3.5 Block X02	25mm PVC Conduit							20			
B-1.2 Block X03	110mm diameter PVC sleeves							10			
B-3.2 Block X03	20mm PVC Conduit							50			

***(C20)* Total tender value**

***(C21)* Total Exempt imported content**

***(C22) Total* Tender value net of exempt imported content**

***(C23)* Total Imported content**

***(C24)* Total local content**

***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-3.3 Block X03	25mm PVC Conduit							50			
B-3.4 Block X03	20mm PVC Conduit							20			
B-3.5 Block X03	25mm PVC Conduit							20			
B-1.2 Block Z	110mm diameter PVC sleeves							20			
B-3.2 Block Z	20mm PVC Conduit							60			
B-3.3 Block Z	25mm PVC Conduit							60			
B-3.4 Block Z	20mm PVC Conduit							30			
B-3.5 Block Z	25mm PVC Conduit							30			
C-3-2-14	75mm diameter uPVC pipe							850			
C-3-2-15	90mm diameter uPVC pipe							750			
C-3-3-12	110mm pipe for 90 degrees 110mm plain bend							5.00			
C-3-3-13	110mm pipe for 45 degrees 110mm plain bend							3.00			
C-3-3-14	110mm pipe for 45 degrees 110mm plain junction							3.00			
C-3-3-15	160mm pipe for 90 degrees plain bend							3.00			
C-3-3-16	160mm pipe for 45 degrees plain bend							3			
C-3-3-17	160mm pipe for 45 degrees plain junction							2			
B-4.1 LV	16mm2 x 4 Core PVC SWA Cable							300			
B-4.2 LV	16mm2 x 2 Core PVC SWA Cable							1000			
B-4.3 LV	10mm2 BCEW							1300			
B-5.1 LV	16mm2 x 4 Core PVC SWA Cable							2			
B-5.2 LV	16mm2 x 2 Core PVC SWA Cable							10			
B-5.3 LV	10mm2 BCEW							20			
B-1.5 Area Lighting	6mm2 x 4 Core PVC SWA Cable							650			
B-1.6 Area Lighting	4mm2 BCEW							650			
B-1.7 Area Lighting	6mm2 x 4 Core PVC SWA Cable							35			
B-1.8 Area Lighting	4mm2 BCEW							35			

***(C20)* Total tender value**
***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-8.1 Block A	1.5mm2 BCEW							1000			
B-8.2 Block A	2.5mm2 BCEW							500			
B-8.3 Block A	4.0mm2 BCEW							250			
B-14.2 Block A	35mm2 bare copper wire							40			
B-7.1 Block Ex-C1	1.5mm2 BCEW							300			
B-7.2 Block Ex-C1	2.5mm2 BCEW							150			
B-12.2 Block Ex-C1	35mm2 bare copper wire							40			
B-7.1 Block Ex-C2	1.5mm2 BCEW							200			
B-7.2 Block Ex-C2	2.5mm2 BCEW							100			
B-12.2 Block Ex-C2	35mm2 bare copper wire							40			
B-7.1 Block Ex-C3	1.5mm2 BCEW							250			
B-7.2 Block Ex-C3	2.5mm2 BCEW							125			
B-12.2 Block Ex-C3	35mm2 bare copper wire							40			
B-7.1 Block Ex-C4	1.5mm2 BCEW							250			
B-7.2 Block Ex-C4	2.5mm2 BCEW							125			
B-12.2 Block Ex-C4	35mm2 bare copper wire							40			
B-7.1 Block Ex-C5	1.5mm2 BCEW							300			
B-7.2 Block Ex-C5	2.5mm2 BCEW							150			
B-12.2 Block Ex-C5	35mm2 bare copper wire							40			
B-7.1 Block Ex-T1	1.5mm2 BCEW							50			
B-12.2 Block Ex-T1	35mm2 bare copper wire							20			
B-7.1 Block Ex-T2	1.5mm2 BCEW							50			
B-12.2 Block Ex-T2	35mm2 bare copper wire							20			
B-7.1 Block Ex-T3	1.5mm2 BCEW							50			
B-12.2 Block Ex-T3	35mm2 bare copper wire							20			
B-7.1 Block Ex-T4	1.5mm2 BCEW							50			
B-12.2 Block Ex-T4	35mm2 bare copper wire							20			

***(C20)* Total tender value**
***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex C

(C1) **Tender No.**
(C2) **Tender description:**
(C3) **Designated product(s)**
(C4) **Tender Authority:**
(C5) **Tendering Entity name:**
(C6) **Tender Exchange Rate:** Pula EU GBP
(C7) **Specified local content %**

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price - each (excl VAT)	Exempted imported value	Tender value- net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
B-7.1 Block Ex-T5	1.5mm2 BCEW							50			
B-12.2 Block Ex-T5	35mm2 bare copper wire							20			
B-7.1 Block MPC-01	1.5mm2 BCEW							100			
B-7.2 Block MPC-01	2.5mm2 BCEW							50			
B-12.2 Block MPC-01	35mm2 bare copper wire							40			
B-7.1 Block SJ-01	1.5mm2 BCEW							300			
B-7.1 Block SJ-01	2.5mm2 BCEW							150			
B-12.2 Block SJ-01	35mm2 bare copper wire							40			
B-7.1 Block SJ-02	1.5mm2 BCEW							300			
B-7.2 Block SJ-02	2.5mm2 BCEW							150			
B-12.2 Block SJ-02	35mm2 bare copper wire							40			
B-7.1 Block SJ-03	1.5mm2 BCEW							300			
B-7.2 Block SJ-03	2.5mm2 BCEW							150			
B-12.2 Block SJ-03	35mm2 bare copper wire							40			
B-7.1 Block SJ-04	1.5mm2 BCEW							300			
B-7.2 Block SJ-04	2.5mm2 BCEW							150			
B-12.2 Block SJ-04	35mm2 bare copper wire							40			
B-7.1 Block SJ-05	1.5mm2 BCEW							300			
B-7.2 Block SJ-05	2.5mm2 BCEW							150			
B-12.2 Block SJ-05	35mm2 bare copper wire							50			
B-7.1 Block X01	1.5mm2 BCEW							40			
B-12.2 Block X01	35mm2 bare copper wire							20			
B-7.1 Block X02	1.5mm2 BCEW							50			
B-12.2 Block X02	35mm2 bare copper wire							20			
B-7.1 Block X03	1.5mm2 BCEW							50			
B-12.2 Block X03	35mm2 bare copper wire							20			
B-7.1 Block Z	1.5mm2 BCEW							60			
B-12.2 Block Z	35mm2 bare copper wire							20			

***(C20)* Total tender value**
***(C21)* Total Exempt imported content**
***(C22) Total* Tender value net of exempt imported content**
***(C23)* Total Imported content**
***(C24)* Total local content**
***(C25)* Average local content % of tender**

Signature of tenderer from Annex B

Date:

SBD 6.2: DECLARATION OF LOCAL CONTENT

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1)	Tender No.	
(D2)	Tender description:	
(D3)	Designated Products:	
(D4)	Tender Authority:	
(D5)	Tendering Entity name:	
(D6)	Tender Exchange Rate:	Pula

Note: VAT to be excluded from all calculations

EU R 9.00 GBP R 12.00

A. Exempted imported content

Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Calculation of imported content: Forign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Summary: Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)

(D19) Total exempt imported value

This total must correspond with Annex C - C 21

B. Imported directly by the Tenderer

Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Calculation of imported content: Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Summary: Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)

(D32) Total imported value by tenderer

C. Imported by a 3rd party and supplied to the Tenderer

Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Calculation of imported content: Forign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Summary: Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)

(D45) Total imported value by 3rd party

D. Other foreign currency payments

Type of payment	Local supplier making the payment	Overseas beneficiary	Calculation of foreign currency payments: Foreign currency value paid	Tender Rate of Exchange	Summary of payments: Local value of payments
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)

(D52) Total of foreign currency payments declared by tenderer and/or 3rd party

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with Annex C - C 23

Signature of tenderer from Annex B

Date:

SATS 1286.2011

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
		(E9) Total local products (Goods, Services and Works)	

(E10)	Manpower costs	(Tenderer's manpower cost)	
(E11)	Factory overheads	(Rental, depreciation & amortisation, utility costs, consumables etc.)	
(E12)	Administration overheads and mark-up	(Marketing, insurance, financing, interest etc.)	

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date:

SBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

1 This Standard Bidding Document must form part of all bids invited.

2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.

3 The bid of any bidder may be disregarded if that bidder or any of its directors have-

a. abused the institution's supply chain management system;
b. committed fraud or any other improper conduct concerning such system; or
c. failed to perform on any previous contract.

4 To give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? **(Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the *audi alteram partem* rule was applied).** The Database of Restricted Suppliers now resides on the National Treasury's website(**www.treasury.gov.za**) and can be accessed by clicking on its link at the bottom of the home page.	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? **The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.**	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME) …….
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

……...	**……..**
Signature	**Date**
…….	**……..**
Position	**Name of Bidder**

SBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION

1 This Standard Bidding Document (SBD) must form part of all bids[1] invited.

2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).[2] Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.

3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:

a. disregard the bid of any bidder if that bidder or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct concerning such system.

b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.

4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.

5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

_____

(Bid Number and Description)

in response to the invitation for the bid made by:

_____

___

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of:_____that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;

2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;

3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;

4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;

5. For this Certificate and the accompanying bid, I understand that the word “competitor” shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:

    (a) has been requested to submit a bid in response to this bid invitation;
    (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
    (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder

6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor.However, communication between partners in a joint venture or consortium[3] will not be construed as collusive bidding.

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
    (a) prices;
    (b) the geographical area where product or service will be rendered (market allocation)
    (c) methods, factors or formulas used to calculate prices;
    (d) the intention or decision to submit or not to submit, a bid;
    (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
    (f) bidding with the intention not to win the bid.

SBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION

8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, and conditions or delivery particulars of the products or services to which this bid invitation relates.

9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, before the date and time of the official bid opening or of the awarding of the contract.

10. I am aware that, in addition, and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

……	……
Signature	Date
……	……
Position	Name of Bidder

[1] Includes price quotations, advertised competitive bids, limited bids and proposals.

[2] Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

[3] Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill, and knowledge in an activity for the execution of a contract.

DECLARATION OF SUBCONTRACTING ARRANGEMENTS

The Limpopo Department of Public Works, Roads & Infrastructure is tasked with achieving government socio-economic transformation and development initiatives through its procurement spend. The department therefore endeavours to promote such initiatives through its procurement, by means of one or a combination of the following, in terms of the Preferential Procurement Policy Framework Act (PPPFA), 2000: Preferential Procurement Regulations (PPR), 2017:

1. Application of Subcontracting as a Condition of Tender, in line with the PPPFA: PPR 2017;

1.1 The basis and conditions for sub-contracting as a condition of tender, is further detailed under item 1.1 below.

The Tenderer if successful in this bid offer, will be required to provide the Signed Subcontracting Agreement(s) and Supporting Documents, in line with the information detailed in this Returnable within 60 calendar days of the site handover. Failure to adhere to this will result in the immediate cancellation of the acceptance of offer (appointment letter).

Additional information to subcontracting requirement in terms of Regulations 4 or 9 PPR2017:

i. It is the responsibility of the tenderer to select competent subcontractors that meet all the requirements of the tender. The fact that the Department/Employer may make a list of potential subcontractors available as registered on the National Treasury CSD or on a CIDB database does not result in any liability of the Department/Employer or a warranty that the listed suppliers are competent.

ii. Subcontractors may not be allocated work which contradicts any regulations, regulatory body and/or compliance requirements relevant to the work being sub-contracted for i.e. requirements by CIDB Regulations, accreditations and registrations to professional / regulatory institutions in the case of professional services etc.

iii. The tenderer will be responsible for all due diligence on the selected subcontractors and will be held liable for any non-performance.

iv. With reference to **the Preferential Procurement Regulations 2017, Regulation 6(5), 7(5) and 12(3)**; "*A person awarded a contract may not subcontract more than 25% of the value of the contract to any other enterprise, that does not have an equal or higher B-BBEE status level of contributor than the person concerned*."

- "*Unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract*".
- Or the tenderer may not be awarded points for B-BBEE status level of contribution.

v. Tenderers are to complete and submit a Schedule of Proposed Subcontracting Arrangement(s)), also stipulating the percentage and equivalent Rand value to be subcontracted.

vi. Tenderers are to provide, on award within 60 calendar days of the site handover, formal proof of Signed Subcontracting Agreement(s) together with the following documentation for each of the relevant, as a minimum:

Supporting Documents to Subcontracting Agreement/s
Certified Copy of valid B-BBEE Certificate/ Affidavit.
Copy of valid/ active CIDB registration in the case of construction work.
Copy of valid/ active registration to applicable regulatory institutions (where stipulated) in the case of professional services work.
A valid and active Tax Compliance Status Pin issued by SARS.
Submission of National Treasury Central Supplier Database (CSD) Summary Report.

Note: It is incumbent and expected that the Tenderer will apply the same due care and diligence in selecting and managing its sub-contractors / joint venture partner as would have been the case in their own appointment.

1. SUBCONTRACTING AS A CONDITION OF TENDER

In line with the Preferential Procurement Policy Regulations 2017, Regulation 9, Subcontracting may only be to one or a combination of the following (as per National Treasury CSD and CIDB databases):	
NO.	**CATEGORIES FOR SUBCONTRACTING**
1	A tenderer subcontracting a minimum of 30% of the value of the contract to one or a combination of the designated categories below:
1.1	An EME or QSE which is at least 51% owned by black people; or
1.2	an EME or QSE which is at least 51% owned by black people who are youth; or
1.3	an EME or QSE which is at least owned by black people who are women; or
1.4	an EME or QSE which is at least 51% owned by black people with disabilities; or
1.5	an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships; or
1.6	a cooperative which is at least 51% owned by black people; or
1.7	an EME or QSE which is at least 51% owned by black people who are military veterans; or
1.8	an EME or QSE.

Tenderers are formally required to allow for subcontracting of the allocated work as set out in the Scope of 30% of the Tender Value offered.

1.1 BASIS AND CONDITIONS FOR SUBCONTRACTING AS A CONDITION OF TENDER

The basis and conditions for sub-contracting as a condition of tender is detailed as follow:

1.1.1 The advancement of certain designated groups in terms of Regulation 4 PPR2017;

1.1.2 The advancement of suppliers or enterprises in the geographical area or Province where the project site is located;

1.1.3 All requirements stipulated under clauses 1 and 1.1 of this Returnable, must be read in conjunction with the information documented within this Declaration on **Item 3 – Schedule of Proposed Subcontracting Work**.

2. SUBCONTRACTING AFTER AWARD OF TENDER

In line with the Preferential Procurement Policy Regulations 2017, Regulation 12, Subcontracting after Award, the following are contractual obligations for notification:

2.1 A person awarded a contract may only enter into a subcontracting arrangement with the approval of the organ of state.

2.2 A person awarded a contract in relation to a designated sector, may not subcontract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

2.3 A person awarded a contract may not subcontract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level of contributor than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.

3. SCHEDULE OF PROPOSED SUBCONTRACTING WORK

The tenderer is required to complete the table below indicating the nature and extent of work to be subcontracted and value and percentage of work to the tender amount. The total percentage of the value of work to be subcontracted must be to a minimum of 30% or more of the tender amount. Failure to comply with the 30% minimum value of the work to be subcontracted will lead to the disqualification of the tender.

	NATURE AND EXTENT OF WORK	**SUB-CONTRACTORS CONTRACT VALUE**	**SUB-CONTRACTORS PERCENTAGE (%) OF CONTRACT VALUE**
1.			
2.			
3.			
4.			
5.			
TOTAL SUBCONTRACT VALUE & PERCENTAGE IN RELATION TO CONTRACT VALUE			

I, THE UNDERSIGNED *(FULL NAME OF AUTHORISED PERSON*) ……

ON BEHALF OF (*FULL NAME OF TENDERING ENTITY*) ……

FORMALLY CONFIRM THAT THIS TENDER SUBMISSION IS FULLY COMPLIANT AND ADHERES IN FULL, TO ALL THE REQUIREMENTS STIPULATED IN THIS BID IN ITS ENTIRITY.

I ACCEPT THAT, FAILURE TO COMPLETE AND SUBMIT THIS DECLARATION ON SUBCONTRACTING ARRANGEMENTS AND SCHEDULE OF PROPOSED SUBCONTRACTING WORK WILL RESULT IN THE DISQUALIFICATION OF MY TENDER SUBMISSION.

I ACCEPT THAT, FAILURE TO SUBMIT THE SIGNED SUBCONTRACTING AGREEMENTS AND ITS SUPPORTING DOCUMENTS ON AWARD, IN ACCORDANCE WITH THE REQUIREMENTS OF THE BID, WILL LEADTO THE CANCELLATION OF THE CONTRACT.

SIGNATURE: _____ DATE: _____

SAFCEC JOINT VENTURE AGREEMENT

JOINT VENTURE AGREEMENT made and entered into by and between:

……of

……. (hereafter referred to as ……)

of the first part;

and

……of

…… (hereafter referred to as ……..)

of the second part;

PREAMBLE

WHEREAS the Parties have formed a Joint Venture in order to submit tenders to the

……..…….. for the construction of ……..……. (hereafter referred to as the "works").

NOW THEREFORE, IT IS AGREED AS FOLLOWS:

1. FORMATION OF JOINT VENTURE

1.1 The Parties hereby associate themselves into and as a Joint Venture in accordance with the provisions of this Agreement under the style or firm name of ……. JOINT VENTURE.

1.2 The Parties hereto agree and undertake that they will not disclose the contents of this Agreement to persons with whom they may have any dealings directly or indirectly arising from the conclusion of this Agreement and the operation and establishment of the Works.

1.3 Notwithstanding that the parties may be jointly and severally bound to the ……., should the Joint Venture be awarded the contract by the …… for the construction of the Works, nothing herein contained shall be interpreted as giving rise to a general partnership between the parties or limiting the rights or powers of either party to carry on its separate business for its sole benefit.

2. OBJECT AND MOTIVATION

The sole object for which this Joint Venture is established and the sole business of the Joint Venture is to negotiate for and conclude a contract for the execution of the Works and to carry out such Works to finality, all in accordance with the terms of this Agreement.

3. PROFITS AND LOSSES

3.1 The profits and losses of the Joint Venture shall be borne by ……. and ……. In the proportions …….% and ……% respectively (hereinafter referred to as "the Specified Proportions").

3.2 In addition to any other provisions contained in this Agreement, the functions, duties, obligations and responsibilities of …….. and …….. under this Joint Venture agreement and in the execution of the Works will be to provide all bridging finance, guarantees and resources necessary to successfully carry out the project in proportion to the specified proportions, in which proportions all profits, losses, costs, liabilities and assets and any other responsibilities, whether pecuniary or otherwise, shall be shared equally, as far as possible.

4 DURATION

The operation of this Agreement shall be deemed to have commenced on the ……. Day of ……. 200…, and shall terminate, except insofar as the provisions of Clauses 5 and 6 apply, upon the happening of any of the following events, whichever shall be earlier:

4.1 Award of the Contract by …… for the construction of the Works to an outside party or parties, or

4.2 In the case of contract award, at the time the contract is terminated and all rights and obligations of the parties in connection with such contract and in connection with this Agreement have ceased, but in no case before the conclusion of any maintenance period in the contract and the cancellation and/or refund of all guarantees and bonds. The Joint Venture existence shall also be deemed to continue insofar as the Joint Venture is responsible for latent defects under the contract.

5. EXCLUSIVITY

The Parties agree and undertake in favour of each other that neither of them shall, except in accordance with the intention expressed in this agreement, be associated in any manner, either directly or indirectly, with any investigation, negotiation, tender or proposal for the performance of or incidental to the execution of the Works and including any variation by way of addition or omission from the scope of the Works or the extension to the Works, nor invest in any company, enterprise or partnership in any manner related thereto, either as previously agreed by the Management Committee in writing.

6. PRE-CONTRACT COSTS

6.1 All costs incurred by the Parties prior to the …… day of …….. 200…., shall be for their own account.

6.2 Costs incurred by the Parties after the ….. day of ……. 200… and approved by the Management Committee, shall be borne by the Parties in the Specified Proportions.

7. MANAGEMENT COMMITTEE

7.1 The day-to-day affairs of the Joint Venture shall be under the control of a Management Committee which shall consist of one representative of each of the parties. Within the terms of this agreement and the contract, if awarded, each such member shall have full authority to bind the party and/or parties he represents in all matters relating to the affairs of the Joint Venture.
No party to this agreement may bind the other party hereto without the prior consent of such other party, nor may the Management Committee bind the Joint Venture or any party beyond the terms of this agreement or the contract without the prior written consent of both parties.
The parties hereto shall be obliged immediately upon signature of this Agreement, to appoint their representatives and the first meeting of the Management Committee will be held immediately thereafter. The parties shall be obliged at all times to maintain a representative on the Management Committee.

7.2 Each representative on the Management Committee shall be entitled to appoint, and from time to time remove and replace, an alternate who shall, at any meeting of the Management Committee at which the representative whom he represents is absent, be vested with all rights and powers and subject to all obligations of the representative whom he represents.

7.3 The Chairman at meetings of the Management Committee shall be a representative from …….. and …… respectively on a six months rotation basis commencing with ……

7.4 Meetings of the Management Committee shall take place at such times and places as the Committee shall determine, provided that the Chairman shall be obliged to convene a meeting of the Management Committee not later than 10 days after being required to do so by any one of the parties to this agreement. Not less than five days' notice of any meeting of the Management Committee shall be given to the representatives thereof and their alternates.

7.5 Decisions of the Management Committee shall be unanimous, provided that If the representatives or the alternates fail to agree on any decision, the meeting at which that decision is sought shall be adjourned for a period of 24 hours and should the representatives then not agree on the course of action to be taken the matter shall be referred to the Executive Board for a decision. The decision of such Executive Board shall be placed before a further adjourned meeting, which shall take place no later than 72 hours after the initial adjourned meeting and shall bin the Management Committee which shall adopt such decision without variation.

7.6 Subject to 7.7 below, decisions on the Management Committee may be reached telephonically, telegraphically, by facsimile or in writing.

7.7 Decisions of the Management Committee, whether at a meeting or otherwise, shall be recorded in written minutes which shall be distributed by the Chairman, for the time being to the members of the Management Committee not later than seven days after those decisions have been taken.

Such minutes shall be deemed to have been affirmed unless dissented from not later than seven days after they are deemed to have been received by the dissenter.

7.8 The Management Committee may, as it wishes, decide to increase the number of its members for or invite other parties to attend any of its meetings. Such co-opted members or observers shall not have a vote.

7.9 The Management Committee shall have the power to delegate such of its powers and duties as it may determine in the best interests of the parties.

7.10 No remuneration shall be paid by the Joint Venture to the parties' representatives on the Management Committee in their capacities as such.

7.11 The administrative function regarding the operation of the Management Committee shall be fulfilled by the Chairman.

8 POWERS OF THE MANAGEMENT COMMITTEE AND DIRECTION OF THE PROJECT MANAGER

The functions, responsibilities and powers of the Management Committee shall be:

8.1 To appoint the Project Manager who shall be nominated by …….. and …… and who shall attend all meetings of the Management Committee for the implementation of its policies and act only in accordance with its directives and its established procedures. The Project Manager shall be removed in terms of 10 hereof and his successor(s) shall be nominated by …….. and ……. And approved by the Management Committee.

8.2 To formulate and dictate to the Project Manager overall policy regarding the following:

8.2.1 The general day-to-day management of the affairs of the Joint Venture.

8.2.2 Representation of the Joint Venture in dealing with the Resident Engineer/Engineer/Client and third parties on matters affecting the Joint Venture as a whole.

8.2.3 Co-ordination of the activities of the parties.

8.2.4 Preparation by agreement with the parties and supervision of the programme of the Works.

8.2.5 Ensuring that the responsibility of each of the parties in regard to technical and contractual matters is preserved.

8.3 To make such provisions as are necessary to enable the Project Manager to perform his tasks.

8.4 To approve the balance sheets and accounts of the Joint Venture.

8.5 To approve the tender submitted by the Joint Venture and to approve or withhold approval for and amendment proposed thereto.

8.6 To approve the appointment of legal advisers and auditors where such appointments are necessary.

8.7 To determine the nature and extend of any additional duties and functions of each of the parties in relation to this Joint Venture.

8.8 To determine the terms and conditions of employment of personnel as well as emoluments seconded by the parties to the Joint Venture.

8.9 Subject to the terms and conditions of this agreement, to determine and approve:

8.9.1 The amount and type of working capital requirements of the Joint Venture.

8.9.2 All borrowings, guarantees and like obligations undertaken by the parties to the Joint Venture.

8.9.3 The insurance to be taken out by the Joint Venture.

8.9.4 The nature, method and amount of all claims.

8.9.5 When and in what amount to distribute dividends to the parties hereto, save that any decision in terms of which the Joint Venture will undertake further work outside of the original scope of the contract or any variation or amendment of this agreement of the contract, shall require the unanimous agreement of the parties before becoming effective and binding the Joint Venture.

8.9.6 The approval and appointment of all sub-contractors.

9 THE EXECUTIVE BOARD

9.1 The Executive Board shall consist of one representative of each of the parties who shall be the Chief Executive Officer of each Joint Venture partner or their nominated deputy but shall not be the same representative as appointed to the Management Committee in terms of Clause 7.1 hereof. The Executive Board shall be the mediation authority of the Joint Venture which shall decide on all issues which are referred to it by the Management Committee as well as on all issues where the Management Committee is not unanimous.

9.2 Decisions of the Executive Board, whether original decisions or decisions taken after referral from the Management Committee shall be implemented by the Management Committee as per Clause 7.5.1.

9.3 Decisions of the Executive Board shall be unanimous.

9.4 Effect shall be given to a resolution arrived at unanimously.

9.5 In the event of the Executive Board not being unanimous in its decision the matter is to be referred to arbitration in terms of Clause 16 hereof.

9.6 Subject to 9.7 as read in conjunction with 7.7 and, provided that they are unanimous, decisions of the Executive Board may be reached telephonically, telegraphically or in writing. If reached telephonically or otherwise orally such decision must be confirmed in writing within 24 hours.

9.7 The Minutes of meetings of the Executive Board shall be handled mutatis mutandis in the manner per Clause 7.7.

9.8 The administrative functions regarding the operation of the Executive Board shall be fulfilled by the Chairman of the Management Committee, who shall not be entitled to a voice or a vote at Executive Board meetings.

10 PERSONNEL

10.1 The Project Manager shall be appointed as provided in Clause 8.1 hereof.

10.2 The person nominated to the office of Project Manager shall be subject to removal from such office by decision of the Management Committee.

10.3 All the remuneration and emoluments of employment of the Project Manager shall be an expense of and paid by the Joint Venture, provided that a party shall be entitled by notice in writing delivered to the other parties to elect that the person to be nominated by it to fill the offices of project Manager shall be seconded to the Joint Venture in which event the remuneration and emoluments which would otherwise have been paid to such persons while filling such offices shall be paid to the member responsible for their nomination or otherwise as such member shall direct and subject to such payment being duly and promptly paid to the member or its nominee, the member will hold harmless and keep indemnified the Joint Venture and the other members from all actions, proceedings, claims and demands by such persons or otherwise howsoever in respect of such remuneration and emoluments. The remuneration and

emoluments to be paid and allowed by the Joint Venture to the Project Manager shall be determined from time to time by the Management Committee and borne by the parties hereto in the Specified Propositions.

10.4 The members of the Management Committee and Executive Board and their proxies and alternates a shall not be employees of the Joint Venture and shall not be entitled to claim any salary or remuneration from the Joint Venture by virtue of such appointments unless the Management Committee shall otherwise decide in writing.

10.5 …… shall be appointed as Secretaries to the Joint Venture. Save for matters pertaining to the works and the contract, …….. Shall be consulted on all matters of an administrative and financial nature arising in connection with the business of the Joint Venture where their particular experience, knowledge, facilities and skills in matters of this nature shall be considered to be of benefit to the Joint Venture.

11 FINANCING

11.1 Working Capital

11.1.1 Banking accounts shall be opened in the name of the Joint Venture with banks and at such places as may be determined by it, and the parties shall be responsible for the payment in the Specified Properties of such sums to the credit of such baking accounts as shall from time to time be required by way of working capital for the Joint Venture.

11.1.2 Any amounts from time to time advanced by the parties to the Joint Venture in terms of this agreement shall be placed to the credit of their respective capital accounts in the Joint Venture.

11.1.3 The banking accounts referred to in sub-clause 11.1.1 hereof shall be operated, and cheques thereon shall be drawn in accordance with the instructions to the bankers in question. Withdrawals from these banking accounts shall be effected on the authority of persons nominated thereto by the Management Committee.

11.1.4 Should any party fail to make payment to the Joint Venture of any amount which it is obliged to pay in terms of sub-clause 11.1.1 hereof, after the expiry of a period of seven days from the date of notice requiring it to make such payment, the party to default shall be liable for payment of interest to the other parties on the amount so withheld at the rate of Prime Bank rate charged by Joint Venture Bankers per annum should such other parties have advanced the aforesaid sum.

11.1.5 All revenue derived by the Joint Venture from the contract shall forthwith be deposited to the credit of the banking accounts referred to in sub-Clause 1.1.1 hereof.

11.1.6 The amount for the time being standing to the credit of the Joint Venture's banking accounts shall be applied:

11.1.6.1 In discharging the obligations of the Joint Venture in accordance with their tenor; provided that the Management Committee shall be entitled to require the payment of any liability prior to its due date if such anticipated payment will result in the allowance by the creditor in question of an advantageous discount to the Joint Venture for prompt payment;

11.1.6.2 As to any surplus of funds for the time being in the said banking account, subject to the agreement of the parties as payment to the parties in the

Specified Proportions or in proportion to their participation of the time being in the Joint Venture, save that any such surplus shall first be utilised for the purpose of eliminating or reducing any disproportion in the ratios of the parties respective capital accounts.

11.2 Capital and Advances

11.2.1 The amount of capital required by the Joint Venture to attain its object (and which includes all loans, guarantees, indemnities, reserves) shall be determined from time to time by the Management Committee, and upon being so determined shall forthwith be contributed by the parties to the Joint Venture in the Specified Proportions.

11.2.2 If at any time any party to the Joint Venture shall, due to an emergency or with the consent in writing of the other parties advance any sum of money or to incur any liability on behalf of the Joint Venture over and above its due contribution to capital, then where money has been advanced, the same shall be a debt due from the Joint Venture to the party advancing the money, and shall be repayable on thirty days' notice and shall bear interest at Prime Bank rate as charged by Joint Venture's bankers per annum from date of advance to date of payment. Where a party has incurred a contingent liability on the above basis, the other parties shall, within thirty days of being requested to do so in writing, relieve such party of its obligations thereunder to the extent that the obligations of the parties are in the Specified Proportions.

12. ACCOUNTS

12.1 The Joint Venture shall cause proper books of account and complete records to be kept as are customary in the Republic of South Africa relating to all the assets and liabilities of the Joint Venture and expenses incurred or income received by the Joint Venture.

Such book and records shall not be related to the affairs of the parties individually. The said books of account and records, together with all letters, papers or writings concerning or belonging to the Joint Venture shall be kept at site and such other place from time to time as determined by the Management Committee, and each of the parties to the Joint Venture shall at all times have free access and the right to inspect and copy the same.

12.2 Within thirty days of the end of every quarter during the continuance of the Joint Venture, the Joint Venture shall furnish to the Management Committee all necessary documents such as balance sheets, profit and loss accounts, bank balances and comparisons with budget and forecasts of cash flow and profits as are necessary to keep the Management Committee informed of the financial affairs of the Joint Venture. Every such profit and loss account and balance sheet shall be agreed to and signed by the members of the Management Committee on behalf of the Joint Venture members, and when so signed, shall be binding on all the parties, except that if any manifest error therein be detected and pointed out by any party to the others at any time after such signature, such error shall forthwith be rectified.

12.3 After the completion of the contract and the release of all bonds, guarantees and obligations given for the performance of the parties in the Joint Venture, the joint Venture shall procure the preparation and auditing of a final balance sheet and profit and loss account, which shall be approved by the Management Committee, and from which the final profit and loss sustained by the Joint Venture shall be ascertained, and distributed to or contributed by the parties in proportion to their participation in the Joint Venture. This clause shall not be construed as

prohibiting the interim distribution of profits or contribution towards losses in the discretion of the Management Committee.

13. WINDING UP

Upon the determination of the Joint Venture in accordance with the provisions of this agreement, a full and general account shall be taken of the assets and liabilities of the Joint Venture and of the transactions and dealings thereof, and with all convenient speed, such assets shall be sold and realised and the proceeds applied in paying and discharging such liabilities and the expenses of and incidental to the winding-up of the Joint Venture affairs and thereafter in paying to each Joint Venture member its share of such proceeds in the Specified Proportions. The Joint Venture members respectively undertake to do all such things as may be necessary so as to give effect to the above.

14. BREACH

14.1 If a party ("the guilty party") shall commit a breach of any material provision of this agreement, and fail to remedy the same within a period of thirty (30) days after the receipt by it of written notice requiring it to do so, or be placed in liquidation or under judicial management, whether provisionally or finally, or propose any compromise with its creditors, the other parties ("the aggrieved parties") shall have the right, without prejudice to any of its other remedies arising from such breach, forthwith to terminate this agreement, in which event:

14.2 The guilty party's interest in the joint venture shall be taken over by the remaining parties. The aggrieved parties shall, in addition, have the right, if it so requires, to take over the capital account of the party in default.
Such capital account shall be valued on the basis of the nett assets revealed in an audited balance sheet and profit and loss account prepared as at the end of the month in which the default or other breach occurred; provided that the profit and loss account shall take into account the Joint Venture's share in the valuation of the work in progress, as shown in the Joint Venture accounts, at the date of preparation of the balance sheet and profit and loss account, after providing for any known or contemplated future losses to be incurred on the work undertaken or to be undertaken by the Joint Venture and provided further that should upon the completion of the contract or contracts, the provision for losses made in the valuation or work in progress as aforesaid prove to be incorrect, such provisions shall be adjusted. Provided the aggrieved parties have proved that the tender rates as escalated from time to time were inadequate, the guilty party shall be liable to the extent of the participation of such party for all losses incurred on the whole of the contract, including any losses incurred subsequent to the termination of the agreement in accordance with these provisions, but such party shall not be entitled to share in any profits earned subsequent to such termination.

14.3 The aggrieved parties shall have the right to recruit in its employment personnel seconded to the Joint Venture by the guilty party and, as a stipulation in favour of such personnel, the guilty party waives any claims it might otherwise have had against such personnel arising from their summary termination of their employment with the guilty party.

14.3 All plant hired by the guilty party to the Joint Venture shall remain on hire to and under the control of the aggrieved parties until the completion of the contract, or until the aggrieved parties shall release such plant from the operation of this sub-clause. Payment shall be made thereof monthly.

15. DISPUTES

15.1 Having regard to the high degree of good faith which must exist between the parties, the parties agree to do their utmost to ensure that the disputes between them are settled equitably and amicably and where possible without resort to arbitration.

15.2 In the event of any differences or dispute of whatever nature arising from this agreement (which shall include any failure to agree on any matter which requires the parties' agreement for the purposes of implementation of this agreement) or any other matter related thereto which cannot be settled by direct negotiation between the parties, such differences or dispute shall be referred to arbitration in terms of Clause 16 hereof.

16 ARBITRATION

16.1 Save as hereinafter provided, any dispute at any time between any of the parties hereto in regard to any matter arising out of this agreement or its interpretation or rectification shall be submitted to and decided by arbitration.

16.2 The arbitration referred to in 16.1 shall be held -

16.2.1 At ……

16.2.2 In a summary manner, i.e. on the basis that it shall not be necessary to observe or carry out either -

16.2.2.1 the usual formalities or procedure (e.g. there shall not be any pleadings or discovery); or

16.2.2.2 the strict rules of evidence.

16.2.3 Immediately and with a view to its being completed within twenty-one business days after it is demanded;

16.2.4 Otherwise (but subject to © (d) and (e) under the provisions of the Arbitration Act No. 42 of 1965 or the Republic of South Africa as amended from time to time).

16.3 The Arbitrator shall be, if the question in issue is -

16.3.1 Primarily an accounting matter, an independent accountant;

16.3.2 Primarily a legal matter, a practising Senior Counsel of not than five years standing as such;

16.3.3 Any other matter, an independent person unanimously agreed upon between the parties and failing agreement appointed by the President for the time being of the South African Federation of Civil Engineering Contractors.

16.4 If agreement cannot be reached within seven business days after the arbitration has been demanded as to whether the question in issue falls under 16.3.1, 16.3.2 or 16.3.3, then a practising Senior Counsel of not less than five years' standing as such agreed upon between the parties, and failing agreement appointed by the President for the time being of the …… Society of Chartered Accountants as soon as possible, thereafter, shall determine whether the question in issue falls under 16.3.1, 16.3.2 or 16.3.3 so that an arbitrator can be appointed, and the arbitration can be held and concluded, if possible, within the prescribed period of twenty-one days.

16.5 The arbitrator shall decide the matters submitted to him according to what he considers just and equitable in the circumstances and, therefore, the strict rules of law need not be observed or be taken into account by him in arriving at his decision.

16.6 The parties irrevocably agree that the decision in those arbitration proceedings -

16.6.1 shall be binding on them;

16.6.2 shall be carried into effect;

16.6.3 can be made an order of any court of competent jurisdiction.

17. CONFIDENTIALITY

17.1 All matters relating to this agreement, any negotiations and the contract for the construction of the Works resulting therefrom shall be regarded by the parties hereto as being highly confidential, and shall not be disclosed without prior written consent of the management Committee to any party, person or entity who or which is not a signatory to this Agreement, except where such disclosure is necessary for the fulfilment of this Agreement.
No party shall at any time hereinafter use any technical information, save that in the public domain, acquired from the other parties hereto except for the purposes of fulfilment of the contract.

17.2 No party shall have the right to advertise, or otherwise permit, the dissemination of publicity concerning its participation in the Joint Venture unless:

17.2.1 the relevant material shall make due reference to and acknowledgement of the work of the other parties;

17.2.2 the relevant material shall, for its dissemination is within the control of the party in question, have been approved by the other parties, which approval shall not be unreasonably withheld.

18. ASSIGNMENT

18.1 No party shall cede, assign or in any other way make over any of its rights or obligations under this agreement without the written consent of the other parties except insofar as such assignment or alienation is to any wholly-owned subsidiary company of that party.

18.2 In the event of such assignment or alienation taking place, the initial party shall jointly and severally and in solidum guarantee the obligations or the assignee towards the remaining parties.

19 GENERAL

19.1 No party shall have a claim against the other parties arising out of a failure to secure the contract, except insofar as the parties are liable to bear the joint venture expenses in the Specified Proportions.

19.2 Any changes and supplementary provisions concerning this agreement shall require the written approval of all the parties hereto.

19.3 Variations not effective unless in writing

No variation, modification or waiver of any provision of this agreement, or consent to any departure therefrom, shall in any event be of any force or effect unless unanimous and confirmed in writing and signed by the parties; then such variation, modification, waiver or consent shall be

effective only in the specific instance and for the purpose and to the extent for which made or given.

19.4 Additions to the Joint Venture

No additional parties shall be admitted to the Joint Venture unless the parties to this agreement unanimously agree and subject to the Conditions of Contract for the Works. All sub-contractors must be approved by the Management Committee in accordance with procedures to be established by the said Committee.

19.5 Company formation

Should the parties at any time unanimously agree to form a company to take over the interest of the Joint Venture in the contact and the assets of the joint Venture, the parties undertake to enter into a Shareholders Agreement embodying insofar as it is reasonably possible and practicable the terms hereof and, in addition, including therein a provision affording each party a right of pre-emption to any shares in the company which the other may from time to time wish to dispose of. For the Works the formation of a company shall be subject to the General Conditions of Contract for the Works.

19.6 Domicilium

19.6.1 The parties hereto respectively choose domiciliumcitandi et executandi for all purposes of and in connection with this agreement as follows:

……
……
……

……

19.6.2 The parties hereto shall be entitled to change their domicilium from time to time, and any such change shall only be effective upon receipt of notice in writing by the other parties of such change.

19.6.3 All payments to be made pursuant to this agreement, and all notices, demands or communications intended for any party, shall be made or given at such party's domicilium for the time being, and if forwarded by prepaid registered post, shall be deemed to have been made or given seven days after the date of posting unless proved to the contrary.

19.7 Currency

All amounts referred to in this agreement and all monies payable to or by the parties to the Joint Venture in connection with the Joint Venture shall be both calculated and paid in currencies from time to time and at places to be agreed by the Management Committee.

19.8 Governing Law

This agreement shall be construed in accordance with and governed by the laws of Republic of South Africa. The English language version of this agreement shall prevail.

19.9 All correspondence between the parties in regard to this agreement and the contract shall be in the English language.

19.10 Each party shall bear its own costs incurred in the preparation and negotiation of this agreement.

19.11 This agreement over-rides any previous agreement or arrangements concluded between the parties in regard to the works and contract. Notwithstanding the provisions of Clause 19 hereof, the parties agree that any variations to the provision of this agreement and any decisions in terms of which this Joint Venture will undertake further work outside the original scope of the contract referred to earlier, shall require the unanimous agreement of the parties before becoming effective and binding on the parties.

19.12 In the interpretation of this agreement, works in the singular shall include the plural and vice versa as the context may require. The headings to clauses shall not be considered part thereof nor shall the words which they contain be taken into account in the interpretation of any clause.

THUS DONE AND SIGNED AT …… THIS ……..DAY OF …….. 20….

For and behalf of:

……

AS WITNESS:

1. ……. ……

2. …… ……

THUS DONE AND SIGNED AT …… THIS ……..DAY OF …….. 20…

For and behalf of:

……

AS WITNESS:

1. ……. ……

2. …… ……

THE CONTRACT

PART C1: AGREEMENT AND CONTRACT DATA

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PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

C1.1. FORM OF OFFER AND ACCEPTANCE

Offer

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract in respect of the following works:

Demolition of 3 Classrooms and 7 Pit Latrine, 10, Refurbishment of 13 Classrooms and 16 Enviroo-Loo, and Construction of 1 Medium Administration Block, 20 Classrooms, 8 Seat Waterborne Toilets and 30 Seats Enviro-Loo Toilets, External Works as well as related services at Rebone Secondary School in Riverside, Janefurse Village, Greater Sekhukhune District, Limpopo

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of the tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of the Form of Offer and Acceptance, the tenderer offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICE INCLUSIVE OF VALUE ADDED TAX IS (CONTRACT PRICE)

Rand (in words) ……..……..

…….……

(in figures) R…….

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s) ---------- ----------

Name(s) ---------- ----------

Capacity ---------- ----------

For the tenderer: ----------

Name & signature of witness ---------- Date

Acceptance(To be completed by the employer – not the bidder)

By signing this part of this Form of Offer and Acceptance, the *Employer* identified below accepts the tenderer's Offer. In consideration thereof, the *Employer* shall pay the Consultant the amount due in accordance with the *conditions of contract* identified in the Contract Data. Acceptance of the tenderer's Offer shall form an agreement between the *Employer* and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1	Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
Part C2	Contract Data
Part C3	Pricing Data
Part C4	Scope of Work

Any drawings and documents (or parts thereof), which may be incorporated by reference into the above-listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the *Employer* during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The tenderer shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the *Employer's* agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the tenderer (now *Consultant*) within five working days of the date of such receipt notifies the *Employer* in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

For the Employer

Signature .....

Name .....

Capacity .....

Name and address of the organization

Signature and Name of Witness

Signature .....

Name .....

Capacity .....

Schedule of Deviations

1 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

2 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

3 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

4 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

By the duly authorized representatives signing this agreement, the *Employer* and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the *Employer* during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

……..

C2 CONTRACT DATA

The Conditions of Contract are clauses 1 to 41 of the **JBCC Series 2000 Principal Building Agreement (Edition 4.1 of March 2005)** published by the Joint Building Contracts Committee.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057-3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312003;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities, and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

PART C3: PRICING DATA

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DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

C3.1 PRICING INSTRUCTION

- The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work in accordance with the provisions of the Model Bills of Quantities or Electrical Work, published by the South African Association of Quantity Surveyors, (July 2005).

- The agreement is under the JBCC N/S Subcontractor Agreement for use with the JBCC PBA (Edition 4.1 code 2101 March 2005) form of contract with Preliminaries (Code 2103 May 2005) incorporating the State Provisions of cl 41.0.

- It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders.

- The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Works and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for the assessment of payment for additional work that may have to be carried out.

- The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the Main Contractor and can be viewed at any time during office hours up until the completion of the works.

- An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.

- The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities.

- The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.

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PART C4: PROVISIONAL BILLS OF QUANTITIES

C4.1 PRELIMINARIES

Item No		Quantity	Rate	Amount	

SECTION NO. 1

BILL NO. 1

PRELIMINARIES NOTES

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

NOTES

i) The agreement is based on the JBCC Principal Building Agreement (version 4.1). The additions, deletions and alterations to the JBCC PBA and the ***Principal Building Agreement: Contract Data*** and these documents have been incorporated in the Contract section of this document. The tenderer is deemed to have referred to these documents for the full and meaning of each clause. The clauses are referred to by the number and heading only. Where standard clauses or options are not applicable to the contract such notifications or corrections are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".

ii) The Preliminaries for use with the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, edition code 2103 March 2005 and shall be deemed to be incorporated herein

iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary

Carried Forward R

	Brought Forward		R	
	iv) Where standard clause or alternatives are not entirely applicable to this contract such modification, corrections or supplements as will apply are given under each relevant clause heading			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied) "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.			
	PRICING OF PRELIMINARIES			
	Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.			
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)			
	DEFINITIONS AND INTERPRETATION (A1)			
1/1/1	Clause 1.0			
	F:..... V:..... T:.....	Item		
	OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)			
1/1/2	Clause 2.0			
	F:..... V:..... T:.....	Item		
	DOCUMENTS (A3)			
1/1/3	Clause 3.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
	DESIGN RESPOSIBILITY (A4)			
1/1/4	Clause 4.0			
	F:..... V:..... T:.....	Item		
	EMPLOYERS AGENTS (A5)			
1/1/5	Clause 5.0			
	F:..... V:..... T:.....	Item		
	SITE REPRESENTATIVE (A6)			
1/1/6	Clause 6.0			
	F:..... V:..... T:.....	Item		
	COMPLIANCE WITH LAWS AND REGULATIONS (A7)			
1/1/7	Clause 7.0			
	F:..... V:..... T:.....	Item		
	INSURANCE AND SECURITY			
	WORKS RISK (A8)			
1/1/8	Clause 8.0			
	F:..... V:..... T:.....	Item		
	INDEMNITIES (A9)			
1/1/9	Clause 9.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
	WORKS INSURANCES (A10)			
1/1/10	Clause 10.0			
	F:..... V:..... T:.....	Item		
	LIABILITY INSURANCES (A11)			
1/1/11	Clause 11.0			
	F:..... V:..... T:.....	Item		
	EFFECTING INSURANCES (A12)			
1/1/12	Clause 12.0			
	F:..... V:..... T:.....	Item		
	NO CLAUSE (A13)			
1/1/13	Clause 13.0			
	F:..... V:..... T:.....	Item		
	SECURITY (A14)			
1/1/14	Clause 14.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
	EXECUTION			
	PREPARATION FOR AND EXECUTION OF THE WORKS (A15)			
1/1/15	Clause 15.0			
	F:..... V:..... T:.....	Item		
	ACCESS TO THE WORKS (A13)			
1/1/16	Clause 16.0			
	F:..... V:..... T:.....	Item		
	CONTRACT INSTRUCTION (A17)			
1/1/17	Clause 17.0			
	F:..... V:..... T:.....	Item		
	SETTING OUT OF THE WORKS (A18)			
1/1/18	Clause 18.0			
	F:..... V:..... T:.....	Item		
	ASSIGNMENT (A19)			
1/1/19	Clause 19.0			
	F:..... V:..... T:.....	Item		
	NOMINATED SUBCONTRACTORS (A20)			
1/1/20	Clause 20.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
	SELECTED SUBCONTRACTORS (A21)			
1/1/21	Clause 21.0			
	F:..... V:..... T:.....	Item		
	EMPLOYERS DIRECT CONTRACTORS (A22)			
1/1/22	Clause 22.0			
	F:..... V:..... T:.....	Item		
	CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)			
1/1/23	Clause 23.0			
	F:..... V:..... T:.....	Item		
	COMPLETION			
	PRACTICAL COMPLETION (A24)			
1/1/24	Clause 24.0 Contract Period: The period commencing on actual **Site** hand over date to the **Contractor** and ending on the date of **Practical Completion** or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays.			
	F:..... V:..... T:.....	Item		
	WORKS COMPLETION (A25)			
1/1/25	Clause 25.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

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	Brought Forward		R	
	FINAL COMPLETION (A26)			
1/1/26	Clause 26.0			
	F:..... V:..... T:.....	Item		
	LATENT DEFECT'S LIABILITY PERIOD (A27)			
1/1/27	Clause 27.0			
	F:..... V:..... T:.....	Item		
	SECTIONAL COMPLETION (A28)			
1/1/28	Clause 28.0			
	F:..... V:..... T:.....	Item		
	REVISION OF THE DATE FOR PRACTICAL COMPLETION (A29)			
1/1/29	Clause 29.0			
	F:..... V:..... T:.....	Item		
	PENALTY FOR LATE OR NON-COMPLETION (A30)			
1/1/30	Clause 30.0			
	F:..... V:..... T:.....	Item		
	PAYMENT			
	INTERIM PAYMENT TO THE CONTRACTOR (A31)			
1/1/31	Clause 31.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
	ADJUSTMENT OF THE CONTRACT VALUE (A32)			
1/1/32	Clause 32.0			
	F:..... V:..... T:.....	Item		
	RECOVERY OF EXPENSE AND/OR LOSS (A33)			
1/1/33	Clause 33.0			
	F:..... V:..... T:.....	Item		
	FINAL ACCOUNT AND FINAL PAYMENT (A34)			
1/1/34	Clause 34.0			
	F:..... V:..... T:.....	Item		
	PAYMENT TO OTHER PARTIES (A35)			
1/1/35	Clause 35.0			
	F:..... V:..... T:.....	Item		
	CANCELLATION			
	CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)			
1/1/36	Clause 36.0			
	F:..... V:..... T:.....	Item		
	CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)			
1/1/37	Clause 37.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
	CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT (A38)			
1/1/38	Clause 38.0			
	F:..... V:..... T:.....	Item		
	CANCELLATION - CESSATION OF THE WORKS (A39)			
1/1/39	Clause 39.0			
	F:..... V:..... T:.....	Item		
	CANCELLATION - CESSATION OF THE WORKS (A39)			
1/1/40	Clause 39.0			
	F:..... V:..... T:.....	Item		
	DISPUTE			
	SETTLEMENT OF DISAGREEMENTS AND DISPUTES (A40)			
1/1/41	Clause 40.0			
	F:..... V:..... T:.....	Item		
	SUBSTITUTE PROVISIONS			
	STATE CLAUSES (A41)			
1/1/42	Clause 41.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
	SCHEDULE OF VARIABLES (A42)			
1/1/43	Clause 42.0			
	F:..... V:..... T:.....	Item		
	AGREEMENT			
	AGREEMENT			
1/1/44	Clause			
	F:..... V:..... T:.....	Item		
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	CONTRACT DETAILS			
	Works Description: Refurbishment and additions at Rebone Secondary School including all related external works			
	Site Description:			
	Rebone Secondary School Riverside, Janefurse Limpopo			
	Work for installation by direct contractors: **TBC**			
	Carried Forward		R	

	Brought Forward		R	
	This agreement is for a government contract: **Yes**			
	Date on which possession of the site is intended to be given: **TBC**			
	Period for the commencement of the works after the contractor takes possession of the site: **10 days**			
	Completions in sections are required: **No**			
	Intended date of practical completion and the penalty per calender day for the works as a whole:			
	R 5 700.00			
	Contract duration : **24 months** including national builder's break			
	SPECIAL COMPLETION REQUIREMENTS			
	Beneficial occupation dates: **TBC**			
	Tenant Installations beneficial occupation			
	F..... V..... T			
1/1/45	Arbitration rules as recommended by the Association of Arbitrators (SA)			
	F ..... V ..... T	Item		
1/1/46	The law applicable to this agreement shall be that of South Africa			
	F ..... V ..... T	Item		
	Carried Forward		R	

	Brought Forward		R	
	INSURANCES			
1/1/47	Contract works insurance to be effected by: **Contractor** For the amount of: The **Contract Sum** plus 20% with deductible of R20 000.00 Notwithstanding the provisions of Clause 41.3.2, the first amount deductible will be for the **Contractor's** account SASRIA insurance required: F:..... V:..... T:.....	Item		
1/1/48	Public liability insurance to be effected by **Contractor** For the amount of: R 10 000 000.00 With a deductible of: R 10 000.00 per claim F:..... V:..... T:.....	Item		
	DOCUMENT			
	Waivers of contractors lien is required: **Yes** Number of construction document copies to be supplied free of charge: **3** Number of days for submission of priced documents: **TBA** Notwithstanding the provisions of the above clause, no payments will be certified unless the priced documents are agreed with the Quantity Surveyors. JBCC Engineering General Conditions are to be included in the documents: **No** Alternative if contract value is not adjusted using Contract Price Adjustment Provision: **N/A** Tender Price is requested for Fixed Rates.			
	Carried Forward		R	

	Brought Forward		R	
	Details of changes made to the provision of JBCC standard documentation:..... The Contractor shall issue a Tax Invoice immediately to enable the Employer to process payment.			
	Carried Forward		R	

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	Brought Forward		R	
	SECTION B: PRELIMINARIES			
	Definition and interpretation (B1)			
1/1/49	Definition and interpretation (B1.1 - B1.6.5) F:..... V:..... T:.....	Item		
	Documents (B2)			
1/1/50	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
1/1/51	These bills of quantities contain pages and annexures as indexed on the flyleaf The items in these bills of quantities are to be read and priced in conjunction with the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained. F:..... V:..... T:.....	Item		
1/1/52	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3) F:..... V:..... T:.....	Item		
1/1/54	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/55	Priced documents (B2.5) F:..... V:..... T:.....	Item		
1/1/56	Tender submission (B2.6) F:..... V:..... T:.....	Item		
1/1/57	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
1/1/58	Defined works area (B3.1) F:..... V:..... T:.....	Item		
1/1/59	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent at the official site briefing meeting. Site Meeting Date: **TBC** The meeting will be held at: **TBC** Tenderers are advise to arrive at least one hour earlier for the briefing meeting in order to avoid delays related to locating the venue. F:..... V:..... T:.....	Item		
1/1/60	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/61	There will be a compulsory site inspection will be conducted by the Principal Agent, tenderers are advised to attend the site briefing meeting to make themselves thoroughly acquainted with the conditions on site and scope of works. Tenderers are advised to arrive atleast one hour early before briefing meeting in order to avoid delays related to locating the venue. No claims for extras arising from the contractor having failed to comply with this clause will be entertained F:..... V:..... T:.....	Item		
1/1/62	Existing premises occupied (B3.4) F:..... V:..... T:.....	Item		
1/1/63	Previous work - dimensional accuracy (B3.5) F:..... V:..... T:.....	Item		
1/1/64	Previous work - defects (B3.6) F:..... V:..... T:.....	Item		
1/1/65	Services - known (B3.7) F:..... V:..... T:.....	Item		
1/1/66	Services - unknown (B3.8) F:..... V:..... T:.....	Item		
1/1/67	Protection of trees etc (B3.9) F:..... V:..... T:.....	Item		
	Carried Forward		R	

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			R	
	Brought Forward			
1/1/68	Articles of value (B3.10) F:..... V:..... T:.....	Item		
1/1/69	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
1/1/70	Management of the works (B4.1) The contractor is to submit with his tender a synopsis of the proposed management team envisaged for this project. F:..... V:..... T:.....	Item		
1/1/71	Programme for the works The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works F:..... V:..... T:.....	Item		
1/1/72	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
1/1/73	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
	Carried Forward		R	

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	Brought Forward		R	
	Samples and shop drawings and manufacturer's instructions (B5)			
1/1/74	Samples of materials (B5.1)			
	F:..... V:..... T:.....	Item		
1/1/75	Workmanship samples (B5.2)			
	F:..... V:..... T:.....	Item		
1/1/76	Shop drawings (B5.3)			
	F:..... V:..... T:.....	Item		
	Temporary works and plant (B6)			
1/1/77	Deposits and fees (B6.1)			
	F:..... V:..... T:.....	Item		
1/1/78	Enclosure of the works (B6.2)			
	F:..... V:..... T:.....	Item		
1/1/79	Advertising (B6.3)			
	F:..... V:..... T:.....	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4)			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/81	Main notice board (B6.5) Provision shall be made for 1 set of Professional boards Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m. F:..... V:..... T:.....	Item		
1/1/82	Subcontractors notice board (B6.6) F:..... V:..... T:.....	Item		
	<u>Temporary services (B7)</u>			
1/1/83	Location (B7.1) F:..... V:..... T:.....	Item		
1/1/84	Water (B7.2) Alternative A F:..... V:..... T:.....	Item		
1/1/85	Electricity (B7.3) Alternative A F:..... V:..... T:.....	Item		
1/1/86	Telecommunication equipment (B7.4) Alternative A F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/87	Ablution facilities (B7.5)			
	Alternative A			
	F:..... V:..... T:.....	Item		
	Prime cost amounts (B8)			
1/1/88	Responsibility for prime cost amounts (B8.1)			
	F:..... V:..... T:.....	Item		
	Attendance on N/S Subcontractors (B9)			
1/1/89	General attendance (B9.1)			
	F:..... V:..... T:.....	Item		
1/1/90	Special attendance (B9.2)			
	F:..... V:..... T:.....	Item		
1/1/91	Commissioning - Fuel, water and power (B9.3)			
	F:..... V:..... T:.....	Item		
	Financial aspects (B10)			
	Statutory taxes, duties and levies (B10.1)			
	F:..... V:..... T:.....	Item		
1/1/92	Provision for Value Added Tax (VAT) is made in the Final Summary			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/93	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
1/1/94	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
1/1/95	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
1/1/96	Contractor information supply (B10.5) F:..... V:..... T:.....	Item		
	General (B11)			
1/1/97	Protection of works (B11.1) F:..... V:..... T:.....	Item		
1/1/98	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item		
1/1/99	Site security (B11.3) F:..... V:..... T:.....	Item		
1/1/100	Notice before covering work (B11.4) F:..... V:..... T:.....	Item		
1/1/101	Disturbance (B11.5) F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/102	Works cleaning and clearing (B11.6) F:..... V:..... T:.....	Item		
1/1/103	Vermin (B11.7) F:..... V:..... T:.....	Item		
1/1/104	Overhand work (B11.8) F:..... V:..... T:.....	Item		
	Schedule of variables (B12)			
1/1/105	Pre-tender information (B12.1) F:..... V:..... T:.....	Item		
	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract			
1/1/106	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: **Yes** F:..... V:..... T:.....	Item		
1/1/107	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete**: Yes** F:..... V:..... T:.....	Item		
1/1/108	12.1.3 Interest of agents (B2.4) F:..... V:..... T:.....	Item		
	Carried Forward		R	

			R	
	Brought Forward			
1/1/109	12.1.4 Defined works area (B3.1) F:..... V:..... T:.....	Item		
1/1/110	12.1.5 Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
1/1/111	12.1.6 Existing premises occupied (B3.4) F:..... V:..... T:.....	Item		
1/1/112	12.1.7 Services - known (B3.7) F:..... V:..... T:.....	Item		
1/1/113	12.1.8 Protection of trees (B3.9) F:..... V:..... T:.....	Item		
1/1/114	12.1.9 Inspection of adjoining properties (B3.11) F:..... V:..... T:.....	Item		
1/1/115	12.1.10 Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
1/1/116	12.1.11 Offices (B6.4.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	

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	Brought Forward			R	
1/1/117	12.1.12 Main notice board (B6.5) Provision shall be made for 1 set of Professional boards Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m. F:..... V:..... T:.....		Item		
1/1/118	12.1.13 Subcontractors notice board (B6.6) A notice board is required: **Yes** F:..... V:..... T:.....		Item		
1/1/119	12.1.14 Water (B7.2) Alternative Selected: **A** The contractor shall make provision for water connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local Authority. Should the local authority refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority. F:..... V:..... T:.....		Item		
	Carried Forward			R	

	Brought Forward		R	
1/1/120	12.1.15 Electricity (B7.3) Alternative selected: **A** The contractor shall make provision for electrical power connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance wit the specifications of the Local authority. F:..... V:..... T:.....	Item		
1/1/121	12.1.16 Telecommunications (B7.4) Alternative selected: **A** The contractor shall make provision for telephone connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the relevant Agency. Should the Agency refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Agency would have supplied services to site ie in compliance wit the specifications of the Agency. F:..... V:..... T:.....	Item		
1/1/122	12.1.17 Ablution facilities (B7.5) Alternative selected: **A** The contractor shall make provision for sewer connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance wit the specifications of the Local authority. F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/123	12.1.8 Special attendance (B9.2) F:..... V:..... T:.....	Item		
1/1/124	12.1.19 Protection of the works (B11.1) F:..... V:..... T:.....	Item		
1/1/125	12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: **Yes** **The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.** F:..... V:..... T:.....	Item		
1/1/126	12.1.21 Disturbance (B11.5) F:..... V:..... T:.....	Item		
1/1/127	Post tender information (B12.2) F:..... V:..... T:.....	Item		
1/1/128	12.2.1 Payment of preliminaries Alternative selected: (A or B) F:..... V:..... T:.....	Item		
1/1/129	12.2.2 Adjustment of preliminaries Alternative selected: (A or B) F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/130	12.2.3 Additional agreed preliminaries items F:..... V:..... T:.....	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
1/1/131	**GUARANTEE** Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by structural defects in the building in which case the responsibility for replacement shall rest entirely with the contractor unless found to be as a result of a design fault. F:..... V:..... T:.....	Item		
1/1/132	**SHOP DRAWINGS** The contractor and/or nominated/selected sub-contractor shall prepare and submit, at his own expense, three (3) copies of shop drawings of all fabricated work, working or setting out drawings shop details and schedules to the principal agent for approval prior to commencement of manufacture. Correction of shop drawings shall not constitute a change in scope of work unless the contractor notifies the Principal Agent in writing within seven (7) calender days and shall not proceed with fabrication until so authorised by the principal agent F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/133	**SAMPLES** Samples are physical examples furnished by the contractor to illustrate materials, equipment or workmanship and to establish standards by which the work will be judged. The contractor shall furnish without delay such samples and "mock ups" as may be called for by the Principal Agent, who may reject all material and workmanship not corresponding with the approved samples. Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration. Samples must be properly labelled with the project name and location, contractor's name, the type, finish composition of materials date of submission and the contract document reference in which the project is identified. F:..... V:..... T:.....	Item		
1/1/134	**SITE INSTRUCTIONS** Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor. Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor. Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue. F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/135	**OVERTIME** Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer. F:..... V:..... T:.....	Item		
1/1/136	**CO-OPERATION OF CONTRACTOR FOR COST CONTROL** It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost control in an effort to prevent the final building cost from exceeding the budget. It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising. F:..... V:..... T:.....	Item		
1/1/137	**SITE LEVELS** Before commencement of the works, the contractor shall carry out and provide the principal agent, for approval, a survey of the existing site levels in sufficient details to enable the preparation of a final account. F:..... V:..... T:.....	Item		
1/1/138	**PROPRIETARY BRANDED PRODUCTS** The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative F:..... V:..... T:.....	Item		
	Carried Forward		R	

	Brought Forward		R	
1/1/139	**AS BUILT DRAWINGS** The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records. F:..... V:..... T:.....	Item		
1/1/140	**OCCUPATIONAL HEALTH AND SAFETY ACT** In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003 and any latest editions/amendments, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained. F: ..... V: ..... T:	Item		
1/1/141	**COVID-19 RELATED ITEMS** In terms of the latest Covid-19 regulations and requirements, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained. F: ..... V: ..... T:	Item		
	Carried to Final Summary		R	

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C4.2 BUILDING WORKS

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	SITE CLEARANCE ETC			
	Site clearance			
	EXCAVATIONS			
	Excavation in earth not exceeding 2m deep			
2/1/1	Trenches m3	522		
	Carried Forward		R	

				R	
	Brought Forward				
	Extra over excavations in earth to trenches and holes for				
2/1/2	Excavation in soft rock	m3	52		
2/1/3	Excavation in hard rock	m3	26		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
2/1/4	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	285		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
2/1/5	Trenches and holes	m2	1 491		
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
2/1/6	Backfilling to trenches, holes, etc	m3	263		
2/1/7	Under floors, steps, pavings, etc	m3	1 110		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
2/1/8	Backfilling to trenches, holes, etc	m3	78		
2/1/9	Under floors, steps, pavings, etc	m3	245		
	Carried Forward			R	

				R	
	Brought Forward				
	Filling supplied by the Contractor under floors, trenches, etc.				
2/1/10	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	245		
	COMPACTION OF SURFACES				
2/1/11	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	2 067		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
2/1/12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	2 067		
2/1/13	To bottom and sides of excavated trenches, Holes, etc.	m2	2 012		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 1
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward			R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".				
	The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour				
	Structural Concrete				
	Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
2/2/1	Blinding	m3	26		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
2/2/2	Strip footings	m3	130		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
2/2/3	Concrete Apron cast to fall etc,	m3	43		
	25MPa/19mm Concrete				
2/2/4	Surface beds cast in panels	m3	212		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
2/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	194		
	SUNDRIES TO CONCRETE				
	Surface treatment				
2/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	2 067		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
2/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	869		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
2/2/8	3 x 30mm In saw cut joints in floors	m	364		
	Carried Forward			R	

				R	
	Brought Forward				
	Expansion joints				
2/2/9	10mm soft board or similar approved between concrete and brick wall	m	435		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
2/2/10	All diameter bars	t	10		
	Fabric reinforcement:				
2/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	1 632		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 2
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount	

BILL NO. 3

MASONRY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

BRICKWORK IN FOUNDATION

Carried Forward R

				R	
	Brought Forward				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
2/3/1	One brick wall	m2	559		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
2/3/2	One brick wall	m2	1 689		
2/3/3	Half brick wall, in beamfilling	m2	70		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	1 118		
2/3/5	Extra over brickwork for face brickwork in superstructure	m2	1 260		
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	221		
2/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	205		
2/3/8	Extra over brickwork for face brickwork in beamfilling	m2	70		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2/3/9	150mm Wide reinforcement built in horizontally.	m	8 256		
	"Allied concrete" or similar approved prestressed fabricated lintels				
2/3/10	100 x 70mm Lintels in lengths not exceeding 3m	m	259		
2/3/11	175 x 70mm Lintels in lengths not exceeding 3m	m	22		
	Carried Forward			R	

				R	
	Brought Forward				
	Turning pieces				
2/3/12	110mm Wide turning piece to flat brick lintels	m	221		
	Air bricks etc				
2/3/13	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	20		
	Roof ties				
2/3/14	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	390		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
2/3/15	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	110		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
2/4/1	Under walls	m2	15		
2/4/2	Under cills, etc.	m2	45		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
2/4/3	Under surface beds.	m2	2 067		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
2/4/4	3 x 30mm In saw cut joints in floors	m	364		
2/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	435		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 4
Waterproofing

Item No		Quantity	Rate	Amount
	BILL NO. 5			
	ROOF COVERINGS			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ROOF SHEETING			
	Similar Approved			
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer			
2/5/1	Roof sheeting pitch not exceeding 25 degrees m2	2 416		
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile m	176		
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile. m	102		
	ROOF AND WALL INSULATION			
	Similar Approved			
	Carried Forward		R	

	Brought Forward			R	
	Sisalation "Bubble Foil" aluminium foil binded insulation				
2/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	2 416		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 5
Roof Coverings

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another.			
	The term "planted on" shall mean the nailing of one timber member to another			
	The term "screwed on" shall mean the countersunk screwing of one timber member to another.			
	The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.			
	The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.			
	The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.			
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.			
	Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting			
	Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.			
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.			
	ROOFS, ETC			
	Carried Forward		R	

				R	
	Brought Forward				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
	Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
	Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
	Roof trusses				
2/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	2 013		
	Sawn softwood				
2/6/2	38 x 114mm Wall plates	m	468		
	Sundries				
2/6/3	Two coats creosote on sawn timbers	m2	173		
	Similar Approved				
	Carried Forward			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 6
Carpentry and Joinery

				R	
	Brought Forward				
	"Everite FC77" Fascia and badge boards				
2/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	468		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
2/6/5	813 x 2032mm single door	No	20		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
2/6/6	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	205		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount	
	BILL NO. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Fixing				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
	Ceilings & Bulkheads				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
	Proprietary suspended ceilings				
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				
	Carried Forward			R	

				R	
	Brought Forward				
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
2/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	1 550		
	CORNICES				
	"Rhino" plasterboard cornice				
2/7/2	75mm Coved cornice, plugged to brickwork	m	1 008		
	SUNDRIES				
	Extra over for Trap Doors				
2/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	20		
	CEILING INSULATION				
	Carried Forward			R	

	Brought Forward			R	
	Insulation				
2/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	1 550		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount	
	BILL NO. 8				
	IRONMONGERY				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.				
	Proprietary items				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	Carried Forward			R	

				R	
	Brought Forward				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	Approved				
2/8/1	White magnetic boards 4000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	20		
	Swing type Green Chalkboard to comply with CKS-36-1980 or equivalent code of practice, complete with chalk rail as one unit strictly in accordance to manufacturers instructions				
2/8/2	Overall size 4000 wide x 1250mm high consisting of one chalkboard 1800mm wide, two chalkboards 900mm wide and 2000 x 1250mm high two swing type chalkboards, fixed 900mm high from finished floor level	No	20		
	SUNDRIES				
	Approved				
2/8/3	"CZ8730SC" Door stop or similarly approved to wall or floors	No	20		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 CLASSROOM BLOCK X 5 Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount	
	BILL NO. 9				
	METALWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ALUMINIUM				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	SPECIFICATIONS				
	User Note:				
	Glazing				
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.				
	Ironmongery				
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.				
	Actuators				
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified				
	Carried Forward			R	

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

	Brought Forward		R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules **WELDED SCREENS, GATES, ETC.**			
	Carried Forward		R	

				R	
	Brought Forward				
	Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications				
2/9/1	Steel gate to door, size 813mm x 2032mm high	No	20		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
2/9/2	813 x 2032mm single door	No	20		
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
2/9/3	Window size 1143 x 1272mm high	No	180		
	ALUMINIUM WINDOWS, DOORS, ETC				
	304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.				
2/9/4	In Ceiling voids	m2	1 262		
	STEEL COLUMNS AND BEAMS				
	Carried Forward			R	

				R	
	Brought Forward				
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to				
2/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	1 401		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 9
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
2/10/1	30mm Thick on floors and landings	m2	1 332		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
2/10/2	30mm Thick on floors	m2	304		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
2/10/3	On brick walls	m2	1 897		
2/10/4	On narrow widths	m2	190		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
2/10/5	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	16		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 CLASSROOM BLOCK X 5 Bill No. 10 Plastering				

Item No		Quantity	Rate	Amount	

BILL NO. 11

TILING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Pricing

Prices are to included for the following: Cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Wastage

Tile wastage in excess of 10% will be for the tenderer's account.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No. 1, shall equally apply to this Bill.

Carried Forward R

				R	
	Brought Forward				
	Note All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
2/11/1	On floors	m2	1 332		
2/11/2	75mm high skirting	m	653		
	ATTIC STOCK				
2/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	133		
	SUNDRIES				
	10mm aluminium straight edge trim				
2/11/4	Dividing strip between tiles and door frames	m	16		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
2/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	468		
2/12/2	Extra over eaves gutter for stopped end	No	40		
2/12/3	Extra over eaves gutter for corner	No	207		
2/12/4	Extra over eaves gutter for outlet	No	50		
	Rainwater downpipes				
2/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	173		
2/12/6	Extra over downpipe for offset	No	100		
2/12/7	Extra over downpipe for shoe	No	50		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 12
Plumbing and Drainage

Item No		Quantity	Rate	Amount
	BILL NO. 13			
	GLAZING			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	5mm clear floated glass fixed glazing putty			
2/13/1	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	261	
	Carried Forward to Summary of Section No.		R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 13
Glazing

Item No		Quantity	Rate	Amount
	BILL NO. 14			
	PAINTWORK			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	PAINTWORK ETC TO NEW WORK			
	FIBRE CEMENT			
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect			
2/14/1	On internal ceilings and cornices m2	1 638		
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side m	468		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect			
	FLOATED PLASTER INTERNAL WALLS			
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect			
2/14/3	Plastered walls m2	1 897		
	METAL SURFACES			
	Carried Forward		R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
2/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	76		
2/14/5	On window frames	m2	261		
2/14/6	On door frames	m2	25		
2/14/7	On mild steel columns, beams, etc	m2	64		
2/14/8	On gutters	m	468		
2/14/9	On downpipes	m	178		
	WOOD				
	Prepare and paint three coats clear varnish:				
2/14/10	On door	m2	66		
	Carried Forward to Summary of Section No.			R	

Section No. 2
4 CLASSROOM BLOCK X 5
Bill No. 14
Paintwork

SECTION SUMMARY

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2/3	Masonry	2/10		
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Carried to Final Summary R

Section No. 2
4 CLASSROOM BLOCK X 5

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	EXCAVATIONS			
	Excavation in earth not exceeding 2m deep			
3/1/1	Trenches m3	143		
3/1/2	Holes m3	159		
	Carried Forward		R	

				R	
	Brought Forward				
	Extra over excavations in earth to trenches and holes for				
3/1/3	Excavation in soft rock	m3	30		
3/1/4	Excavation in hard rock	m3	15		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
3/1/5	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc.. 500mm away from excavated face	m2	213		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
3/1/6	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	237		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
3/1/7	Trenches and holes	m2	622		
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
3/1/8	Backfilling to trenches, holes, etc	m3	72		
3/1/9	Under floors, steps, pavings, etc	m3	183		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
3/1/10	Backfilling to trenches, holes, etc	m3	21		
3/1/11	Under floors, steps, pavings, etc	m3	26		
	Carried Forward			R	

				R	
	Brought Forward				
	Filling supplied by the Contractor under floors, trenches, etc.				
3/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	32		
	COMPACTION OF SURFACES				
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	473		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
3/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	394		
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	845		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 1
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward			R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".				
	The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour				
	Structural Concrete				
	Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
3/2/1	Blinding	m3	7		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
3/2/2	Strip footings	m3	36		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
3/2/3	Concrete Apron cast to fall etc,	m3	18		
	25MPa/19mm Concrete				
3/2/4	Surface beds cast in panels	m3	32		
3/2/5	Slabs including beams and inverted beams	m3	7		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
3/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	46		
	SUNDRIES TO CONCRETE				
	Surface treatment				
3/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	476		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
3/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	556		
	Rough formwork to soffits				
3/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	83		
	MOVEMENTS JOINTS ETC,				
	Carried Forward			R	

				R	
	Brought Forward				
	Expansion joints				
3/2/10	10mm soft board or similar approved between concrete and brick wall	m	268		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
3/2/11	All diameter bars	t	3		
	Fabric reinforcement:				
3/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	215		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 2
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount	
	BILL NO. 3				
	MASONRY				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	BRICKWORK IN FOUNDATION				
	Carried Forward		R		

				R	
	Brought Forward				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
3/3/1	One brick wall	m2	154		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
3/3/2	One brick wall	m2	831		
3/3/3	Half brick wall	m2	89		
3/3/4	Half brick wall, in beamfilling	m2	48		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
3/3/5	340 x 230mm Brick Piers	m3	4		
3/3/6	360 x 230mm Brick Piers	m3	4		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
3/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	307		
3/3/8	Extra over brickwork for face brickwork in superstructure	m2	685		
3/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	30		
3/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	17		
3/3/11	Extra over brickwork for face brickwork to piers	m2	107		
3/3/12	Extra over brickwork for face brickwork in beamfilling	m2	48		
	BRICKWORK SUNDRIES				
	Carried Forward			R	

				R	
	Brought Forward				
	Brickwork reinforcement				
3/3/13	75mm Wide reinforcement built in horizontally	m	262		
3/3/14	150mm Wide reinforcement built in horizontally.	m	3 379		
	"Allied concrete" or similar approved prestressed fabricated lintels				
3/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	27		
3/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	92		
	Turning pieces				
3/3/17	110mm Wide turning piece to flat brick lintels	m	85		
	Air bricks etc				
3/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	16		
	Roof ties				
3/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	154		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
3/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	30		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
3/4/1	Under walls	m2	11		
3/4/2	Under cills, etc.	m2	4		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
3/4/3	Under surface beds.	m2	394		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
3/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	268		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 4
Waterproofing

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	322		
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	46		
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	81		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
3/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	322		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 5
Roof Coverings

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another. The term "planted on" shall mean the nailing of one timber member to another The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted. Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing. Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc. **ROOFS, ETC**			
	Carried Forward		R	

				R	
	Brought Forward				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
	Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
	Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
	Roof trusses				
3/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	268		
	Sawn softwood				
3/6/2	38 x 114mm Wall plates	m	185		
	Sundries				
3/6/3	Two coats creosote on sawn timbers	m2	69		
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	"Everite FC77" Fascia and badge boards				
3/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	185		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
3/6/5	813 x 2032mm single door	No	48		
3/6/6	914 x 2032mm single door	No	32		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
3/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	17		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount

BILL NO. 7

CEILINGS, PARTITIONS AND ACCESS FLOORING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Fixing

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Ceilings & Bulkheads

Unless otherwise described ceilings shall be deemed to be horizontal

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Carried Forward R

				R	
	Brought Forward				
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
3/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	136		
	CORNICES				
	"Rhino" plasterboard cornice				
3/7/2	75mm Coved cornice, plugged to brickwork	m	305		
	SUNDRIES				
	Extra over for Trap Doors				
3/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	16		
	CEILING INSULATION				
	Carried Forward			R	

	Brought Forward			R	
	Insulation				
3/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	136		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount	

BILL NO. 8

IRONMONGERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered

On request returnable samples are to be provided to the principal agent for consideration

Carried Forward R

				R	
	Brought Forward				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	SUNDRIES				
	Approved				
3/8/1	"CZ8730SC" Door stop or similarly approved to wall or floors	No	80		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 10 SEATS ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount	

BILL NO. 9

METALWORK

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

ALUMINIUM

The contractor is to make due allowance in his prices for complying with the following requirements.

SPECIFICATIONS

User Note:

Glazing

All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.

Ironmongery

All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.

Actuators

All rates for shopfronts with actuators to include for the supply and installation of actuators as specified

Carried Forward R

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 9
Metalwork

	Brought Forward		R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules **WELDED SCREENS, GATES, ETC.**			
	Carried Forward		R	

				R	
	Brought Forward				
	Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications				
3/9/1	Steel gate to door, size 813mm x 2032mm high	No	16		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
3/9/2	813 x 2032mm single door	No	32		
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
3/9/3	813 x 2032mm single door	No	16		
3/9/4	914 x 2032mm single door	No	32		
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
3/9/5	Window size 533 x 950mm high	No	32		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 9
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
3/10/1	30mm Thick on floors and landings	m2	449		
3/10/2	30mm Thick to falls and currents	m2	21		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
3/10/3	On brick walls	m2	749		
3/10/4	On narrow widths	m2	75		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
3/10/5	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	13		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 10
Plastering

Item No		Quantity	Rate	Amount	

BILL NO. 11

TILING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Pricing

Prices are to included for the following: Cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Wastage

Tile wastage in excess of 10% will be for the tenderer's account.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No. 1, shall equally apply to this Bill.

Carried Forward R

				R	
	Brought Forward				
	Note				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications				
3/11/1	Plastered walls	m2	446		
3/11/2	On narrow widths	m2	45		
3/11/3	Splash backs	m2	6		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
3/11/4	On floors	m2	235		
3/11/5	75mm high skirting	m	583		
	ATTIC STOCK				
3/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	45		
3/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	24		
	SUNDRIES				
	10mm aluminium straight edge trim				
3/11/8	Dividing strip between tiles and door frames	m	13		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
3/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	185		
3/12/2	Extra over eaves gutter for stopped end	No	64		
3/12/3	Extra over eaves gutter for corner	No	139		
3/12/4	Extra over eaves gutter for outlet	No	32		
	Rainwater downpipes				
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	111		
3/12/6	Extra over downpipe for offset	No	64		
3/12/7	Extra over downpipe for shoe	No	32		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
3/12/8	WHB, installed complete	No	16		
	WATER CLOSET				
	Carried Forward			R	

				R	
	Brought Forward				
	Similar Approved				
	Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
3/12/9	WC, installed complete	No	32		
	URINALS				
	Vaal Sanitaryware "Lavatera" vitreous china wall hung urinal with top inlet including 38mm chrome plated domical grating, including Cobra "Junior Flushmaster" exposed chrome plated flush valve, including offset urinal flush pipe, chrome plated bottle trap and parallel nipple (PC allowance of R4 950.00/no excludes V.A.T. but includes delivery to site), includes supply and fixing				
3/12/10	Urinal, installed complete	No	8		
	TOILET ROLL HOLDER				
	To be approved by Architect				
3/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	32		
	TAPS, VALVES, ETC				
	Similar Approved				
3/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	16		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 10 SEATS ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage				

Item No		Quantity	Rate	Amount
	BILL NO. 13			
	GLAZING			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	6mm obscure floated glass fixed glazing putty			
3/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	16	
	TOPS, SHELVES, DOORS, MIRROR ETC			
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved			
3/13/2	Mirror 400 x 600 mm high	No	16	
	Carried Forward to Summary of Section No.		R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 13
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
3/14/1	On internal ceilings and cornices	m2	166		
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	185		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	17		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
3/14/4	Plastered walls	m2	749		
	METAL SURFACES				
	Carried Forward			R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
3/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	60		
3/14/6	On window frames	m2	16		
3/14/7	On door frames	m2	102		
3/14/8	On gutters	m	185		
3/14/9	On downpipes	m	114		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
3/14/10	On door	m2	223		
	Prepare and paint three coats clear varnish:				
3/14/11	On door	m2	53		
	Carried Forward to Summary of Section No.			R	

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3
Bill No. 14
Paintwork

SECTION SUMMARY

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Carried to Final Summary R

Section No. 3
10 SEATS ENVIROLOO TOILET BLOCK X 3

Item No			Quantity	Rate	Amount
	SECTION NO. 4				
	BILL NO. 1				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	Excavations measured in successive depths of 2m.				
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
4/1/1	Trenches	m3	109		
	Extra over excavations in earth to trenches and holes for				
4/1/2	Excavation in soft rock	m3	11		
	Carried Forward			R	

				R	
	Brought Forward				
4/1/3	Excavation in hard rock	m3	5		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
4/1/4	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	62		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
4/1/5	Trenches and holes	m2	335		
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/6	Backfilling to trenches, holes, etc	m3	53		
4/1/7	Under floors, steps, pavings, etc	m3	237		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/8	Backfilling to trenches, holes, etc	m3	16		
4/1/9	Under floors, steps, pavings, etc	m3	46		
	Filling supplied by the Contractor under floors, trenches, etc.				
4/1/10	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	46		
	COMPACTION OF SURFACES				
4/1/11	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	484		
	Carried Forward			R	

				R	
	Brought Forward				
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
4/1/12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	484		
4/1/13	To bottom and sides of excavated trenches, Holes, etc.	m2	444		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 1
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward			R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks". The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour Structural Concrete Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing. **GENERAL NOTES TO TENDERERS** General notes, described in Bill No.1, shall equally apply to this Bill. **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES** **15Mpa/19mm concrete**				
4/2/1	Blinding	m3	5		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
4/2/2	Strip footings	m3	27		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
4/2/3	Concrete Apron cast to fall etc,	m3	18		
	25MPa/19mm Concrete				
4/2/4	Surface beds cast in panels	m3	40		
4/2/5	Slabs including beams and inverted beams	m3	1		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
4/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	42		
	SUNDRIES TO CONCRETE				
	Surface treatment				
4/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	489		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
4/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	277		
	Rough formwork to soffits				
4/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	5		
	MOVEMENTS JOINTS ETC,				
	Carried Forward			R	

				R	
	Brought Forward				
	Saw cuts Joints				
4/2/10	3 x 30mm In saw cut joints in floors	m	19		
	Expansion joints				
4/2/11	10mm soft board or similar approved between concrete and brick wall	m	87		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
4/2/12	All diameter bars	t	2		
	Fabric reinforcement:				
4/2/13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	305		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 2
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount

BILL NO. 3

MASONRY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

BRICKWORK IN FOUNDATION

Carried Forward R

				R	
	Brought Forward				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
4/3/1	One brick wall	m2	126		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
4/3/2	One brick wall	m2	377		
4/3/3	Half brick wall	m2	127		
4/3/4	Half brick wall, in beamfilling	m2	14		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
4/3/5	340 x 230mm Brick Piers	m3	1		
4/3/6	360 x 230mm Brick Piers	m3	1		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
4/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	252		
4/3/8	Extra over brickwork for face brickwork in superstructure	m2	256		
4/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	41		
4/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	32		
4/3/11	Extra over brickwork for face brickwork to piers	m2	27		
4/3/12	Extra over brickwork for face brickwork in beamfilling	m2	14		
	BRICKWORK SUNDRIES				
	Carried Forward			R	

				R	
	Brought Forward				
	Brickwork reinforcement				
4/3/13	75mm Wide reinforcement built in horizontally	m	374		
4/3/14	150mm Wide reinforcement built in horizontally.	m	1 857		
	"Allied concrete" or similar approved prestressed fabricated lintels				
4/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	43		
4/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	33		
	Turning pieces				
4/3/17	110mm Wide turning piece to flat brick lintels	m	57		
	Air bricks etc				
4/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Roof ties				
4/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	76		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	18		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
4/4/1	Under walls	m2	3		
4/4/2	Under cills, etc.	m2	7		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
4/4/3	Under surface beds.	m2	484		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
4/4/4	3 x 30mm In saw cut joints in floors	m	19		
4/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 4
Waterproofing

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
4/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	441		
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	25		
4/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	39		
4/5/4	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	9		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
4/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	441		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 5
Roof Coverings

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another. The term "planted on" shall mean the nailing of one timber member to another The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted. Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing. Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc. **ROOFS, ETC**			
	Carried Forward		R	

				R	
	Brought Forward				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
	Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
	Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
	Roof trusses				
4/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	367		
	Sawn softwood				
4/6/2	38 x 114mm Wall plates	m	92		
	Sundries				
4/6/3	Two coats creosote on sawn timbers	m2	34		
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	"Everite FC77" Fascia and badge boards				
4/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	94		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
4/6/5	813 x 2032mm single door	No	12		
4/6/6	914 x 2032mm single door	No	10		
4/6/7	1500 x 2400mm double door	No	2		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
4/6/8	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	32		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount	

BILL NO. 7

CEILINGS, PARTITIONS AND ACCESS FLOORING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Fixing

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Ceilings & Bulkheads

Unless otherwise described ceilings shall be deemed to be horizontal

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Carried Forward R

				R	
	Brought Forward				
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
4/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	284		
	CORNICES				
	"Rhino" plasterboard cornice				
4/7/2	75mm Coved cornice, plugged to brickwork	m	254		
	SUNDRIES				
	Extra over for Trap Doors				
4/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	CEILING INSULATION				
	Carried Forward			R	

	Brought Forward			R	
	Insulation				
4/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	284		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount

BILL NO. 8

IRONMONGERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered

On request returnable samples are to be provided to the principal agent for consideration

Carried Forward R

				R	
	Brought Forward				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	Approved				
4/8/1	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	5		
	SUNDRIES				
	Approved				
4/8/2	"CZ8730SC" Door stop or similarly approved to wall or floors	No	26		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 8
Ironmongery

Item No		Quantity	Rate	Amount	
	BILL NO. 9				
	METALWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ALUMINIUM				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	SPECIFICATIONS				
	User Note:				
	Glazing				
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.				
	Ironmongery				
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.				
	Actuators				
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified				
	Carried Forward			R	

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

	Brought Forward		R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules **WELDED SCREENS, GATES, ETC.**			
	Carried Forward		R	

				R	
	Brought Forward				
	Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications				
4/9/1	Steel gate to door, size 1500mm x 2400mm high	No	2		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
4/9/2	813 x 2032mm single door	No	10		
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
4/9/3	813 x 2032mm single door	No	2		
4/9/4	914 x 2032mm single door	No	10		
4/9/5	1500 x 2400mm double door	No	2		
	STRONG ROOM DOORS ETC, SUITABLE FOR 220MM WALLS FIXED TO BRICKWORK AND CONCRETE				
	Similar Approved				
	DS-70mm SABS Category 2 ADM strong room door, 190mm thick and steel frame, 813 x 2032mm including 8 bolts of 40 diameter-4 front and 4 back, 2x7- lever security keylock, non-deteriorating insulation material, rust proof undercoat for final painting by contractors, weight- 630 kg				
4/9/6	Door size 813 x 2032mm	No	1		
	WINDOWS FRAMES, etc.				
	Carried Forward			R	

				R	
	Brought Forward				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
4/9/7	Window size 1022 x 900mm high	No	3		
4/9/8	Window size 1022 x 949mm high	No	3		
4/9/9	Window size 2000 x 1170mm high	No	1		
4/9/10	Window size 533 x 950mm high	No	5		
4/9/11	Window size 1511 x 1170mm high	No	14		
	ALUMINIUM WINDOWS, DOORS, ETC				
	Extruded aluminium door frame in configuration with glazed double doors, with laminated safety glass accordingly to ISO 9001:200 Quality Management Standards, including installation of ironmongery, actuators, smoke seal around door frame and all necessary framework, doors, spandrels panels, sealants, closure pieces, gaskets etc, all complete to architect's approval and as per architect's drawings and specifications				
4/9/12	Size 1500mm x 2100mm	No	2		
	304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.				
4/9/13	In Ceiling voids	m2	284		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 9
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
4/10/1	30mm Thick on floors and landings	m2	581		
4/10/2	30mm Thick to falls and currents	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4/10/3	On brick walls	m2	692		
4/10/4	On narrow widths	m2	69		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
4/10/5	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	6		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 10
Plastering

Item No		Quantity	Rate	Amount	

BILL NO. 11

TILING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Pricing

Prices are to included for the following: Cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Wastage

Tile wastage in excess of 10% will be for the tenderer's account.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No. 1, shall equally apply to this Bill.

Carried Forward R

				R	
	Brought Forward				
	Note				
	All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications				
4/11/1	Plastered walls	m2	162		
4/11/2	On narrow widths	m2	16		
4/11/3	Splash backs	m2	1		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
4/11/4	On floors	m2	408		
4/11/5	75mm high skirting	m	372		
	ATTIC STOCK				
4/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	16		
4/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	41		
	SUNDRIES				
	10mm aluminium straight edge trim				
4/11/8	Dividing strip between tiles and door frames	m	9		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	SECTION NO. 4			
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
4/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	94		
4/12/2	Extra over eaves gutter for stopped end	No	22		
4/12/3	Extra over eaves gutter for corner	No	48		
4/12/4	Extra over eaves gutter for outlet	No	11		
	Rainwater downpipes				
4/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	38		
4/12/6	Extra over downpipe for offset	No	22		
4/12/7	Extra over downpipe for shoe	No	11		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
4/12/8	WHB, installed complete	No	3		
	WATER CLOSET				
	Carried Forward			R	

				R	
	Brought Forward				
	Similar Approved				
	Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
4/12/9	WC, installed complete	No	2		
	SINKS, etc.				
	Stainless steel single bowl sink, size 1350 x 457mm complete on and including integrated supports and legs (PC allowance of R1500.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
4/12/10	Stainless steel sink, complete.	No	1		
	Concrete double wash trough with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
	TOILET ROLL HOLDER				
	To be approved by Architect				
4/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2		
	TAPS, VALVES, ETC				
	Similar Approved				
4/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	3		
4/12/13	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	1		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage				

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
4/13/1	Panes not exceeding 0.1m2	m2	33		
	6mm obscure floated glass fixed glazing putty				
4/13/2	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	3		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
4/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 13
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
4/14/1	On internal ceilings and cornices	m2	305		
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	94		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
4/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	32		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
4/14/4	Plastered walls	m2	692		
	METAL SURFACES				
	Carried Forward			R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
4/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	29		
4/14/6	On window frames	m2	35		
4/14/7	On door frames	m2	34		
4/14/8	On gutters	m	94		
4/14/9	On downpipes	m	39		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
4/14/10	On door	m2	76		
	Prepare and paint three coats clear varnish:				
4/14/11	On door	m2	27		
	Carried Forward to Summary of Section No.			R	

Section No. 4
MEDIUM ADMINISTRATION BLOCK
Bill No. 14
Paintwork

SECTION SUMMARY

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Carried to Final Summary R

Section No. 4
MEDIUM ADMINISTRATION BLOCK

Item No			Quantity	Rate	Amount
	BILL NO. 1				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	Excavations measured in successive depths of 2m.				
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
5/1/1	Trenches	m3	15		
	Extra over excavations in earth to trenches and holes for				
5/1/2	Excavation in soft rock	m3	1		
5/1/3	Excavation in hard rock	m3	1		
	Carried Forward			R	

				R	
	Brought Forward				
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
5/1/4	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	9		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
5/1/5	Trenches and holes	m2	48		
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
5/1/6	Backfilling to trenches, holes, etc	m3	7		
5/1/7	Under floors, steps, pavings, etc	m3	78		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
5/1/8	Backfilling to trenches, holes, etc	m3	2		
5/1/9	Under floors, steps, pavings, etc	m3	16		
	Filling supplied by the Contractor under floors, trenches, etc.				
5/1/10	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	16		
	Carried Forward			R	

				R	
	Brought Forward				
	COMPACTION OF SURFACES				
5/1/11	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	156		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
5/1/12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	156		
5/1/13	To bottom and sides of excavated trenches, Holes, etc.	m2	63		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 1
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward			R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".				
	The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour				
	Structural Concrete				
	Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
5/2/1	Blinding	m3	1		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
5/2/2	Strip footings	m3	4		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
5/2/3	Concrete Apron cast to fall etc,	m3	5		
	25MPa/19mm Concrete				
5/2/4	Surface beds cast in panels	m3	14		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
5/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	11		
	SUNDRIES TO CONCRETE				
	Surface treatment				
5/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	156		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
5/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	92		
	Rough formwork to soffits				
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
5/2/8	3 x 30mm In saw cut joints in floors	m	10		
	Carried Forward			R	

				R	
	Brought Forward				
	Expansion joints				
5/2/9	10mm soft board or similar approved between concrete and brick wall	m	41		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
5/2/10	All diameter bars	t	0.3		
	Fabric reinforcement:				
5/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	105		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 2
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount	

BILL NO. 3

MASONRY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

BRICKWORK IN FOUNDATION

Carried Forward R

				R	
	Brought Forward				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
5/3/1	One brick wall	m2	18		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
5/3/2	One brick wall	m2	112		
5/3/3	Half brick wall, in beamfilling	m2	6		
	Mass brickwork in L-shaped piers of NFP brick in class II mortar laid in stretcher bond				
5/3/4	345 x 345mm L-shaped Brick Piers	m3	1		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
5/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	36		
5/3/6	Extra over brickwork for face brickwork in superstructure	m2	112		
5/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	10		
5/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	10		
5/3/9	Extra over brickwork for face brickwork to piers	m2	6		
5/3/10	Extra over brickwork for face brickwork in beamfilling	m2	6		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
5/3/11	150mm Wide reinforcement built in horizontally.	m	440		
	Carried Forward			R	

				R	
	Brought Forward				
	"Allied concrete" or similar approved prestressed fabricated lintels				
5/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	13		
	Turning pieces				
5/3/13	110mm Wide turning piece to flat brick lintels	m	10		
	Air bricks etc				
5/3/14	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	1		
	Fair cutting to face brickwork				
	Roof ties				
5/3/15	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	38		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
5/3/16	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	4		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
5/4/1	Under walls	m2	1		
5/4/2	Under cills, etc.	m2	2		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
5/4/3	Under surface beds.	m2	156		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
5/4/4	3 x 30mm In saw cut joints in floors	m	10		
5/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	41		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 4
Waterproofing

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
5/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	157		
5/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	11		
5/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	23		
	FLASHING				
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	0.58mm thick flashing galvanised flashing factory finished one side with "Chromadek - Traffic Green", fixed as per manufacturer's specification				
5/5/4	375mm girth Headwall flashing, 2 times bent and notched on site to suit roof profile	m	8		
5/5/5	185mm girth Counter flashing, 2 times bent	m	8		
	LOUVRES				
	Similar Approved				
	NTY Steelworks purpose-made louvre panels fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories etc., pre-painted to match roof sheeting				
5/5/6	Steel triangular louvre, 1600 x 600mm high overall	No	4		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
5/5/7	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	157		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 5
Roof Coverings

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another. The term "planted on" shall mean the nailing of one timber member to another The term "screwed on" shall mean the countersunk screwing of one timber member to another. The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted. The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete. The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted. Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing. Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc. Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc. **ROOFS, ETC**			
	Carried Forward		R	

				R	
	Brought Forward				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
	Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
	Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
	Roof trusses				
5/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	131		
	Sawn softwood				
5/6/2	38 x 114mm Wall plates	m	46		
	Sundries				
5/6/3	Two coats creosote on sawn timbers	m2	17		
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	"Everite FC77" Fascia and badge boards				
5/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	46		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
5/6/5	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	10		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount	
	BILL NO. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Fixing				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
	Ceilings & Bulkheads				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
	Proprietary suspended ceilings				
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				
	Carried Forward			R	

				R	
	Brought Forward				
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
5/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	100		
	CORNICES				
	"Rhino" plasterboard cornice				
5/7/2	75mm Coved cornice, plugged to brickwork	m	41		
	SUNDRIES				
	Extra over for Trap Doors				
5/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1		
	CEILING INSULATION				
	Carried Forward			R	

	Brought Forward			R	
	Insulation				
5/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	100		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount	
	BILL NO. 8				
	METALWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ALUMINIUM				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	SPECIFICATIONS				
	User Note:				
	Glazing				
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.				
	Ironmongery				
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.				
	Actuators				
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified				
	Carried Forward			R	

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 8
Metalwork

	Brought Forward		R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules **WINDOWS FRAMES, etc.**			
	Carried Forward		R	

				R	
	Brought Forward				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
5/8/1	Window size 1143 x 900mm high	No	9		
	Carried Forward			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 8
Metalwork

				R	
	Brought Forward				
	ALUMINIUM WINDOWS, DOORS, ETC				
	304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.				
5/8/2	In Ceiling voids	m2	100		
	STEEL COLUMNS AND BEAMS				
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to				
5/8/3	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	80		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 8
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 9				
	PLASTERING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
5/9/1	30mm Thick on floors and landings	m2	80		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
5/9/2	30mm Thick on floors	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
5/9/3	On brick walls	m2	109		
5/9/4	On narrow widths	m2	11		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 9
Plastering

Item No		Quantity	Rate	Amount	

BILL NO. 10

TILING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Pricing

Prices are to included for the following: Cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Wastage

Tile wastage in excess of 10% will be for the tenderer's account.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No. 1, shall equally apply to this Bill.

Carried Forward R

				R	
	Brought Forward				
	Note All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
5/10/1	On floors	m2	80		
5/10/2	75mm high skirting	m	36		
	ATTIC STOCK				
5/10/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	8		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 10
Tiling

Item No		Quantity	Rate	Amount	
	BILL NO. 11				
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	uPVC pipes and fittings:				
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
	uPVC pressure pipes and fittings:				
	Pipes for water supply shall be of the class stated				
	Excavations:				
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.				
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".				
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.				
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.				
	Laying, backfilling, bedding, etc., of pipes:				
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions				
	Carried Forward		R		

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
5/11/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	46		
5/11/2	Extra over eaves gutter for stopped end	No	2		
5/11/3	Extra over eaves gutter for corner	No	16		
5/11/4	Extra over eaves gutter for outlet	No	4		
	Rainwater downpipes				
5/11/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	14		
5/11/6	Extra over downpipe for offset	No	8		
5/11/7	Extra over downpipe for shoe	No	4		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 11
Plumbing and Drainage

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	GLAZING			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	5mm clear floated glass fixed glazing putty			
5/12/1	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	9	
	Carried Forward to Summary of Section No.		R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 12
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	PAINTWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
5/13/1	On internal ceilings and cornices	m2	103		
5/13/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	46		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
5/13/3	Plastered walls	m2	109		
	METAL SURFACES				
	Carried Forward			R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
5/13/4	On window frames	m2	9		
5/13/5	On mild steel columns, beams, etc	m2	4		
5/13/6	On gutters	m	46		
5/13/7	On downpipes	m	14		
	Carried Forward to Summary of Section No.			R	

Section No. 5
MULTI PURPOSE CLASSROOM
Bill No. 13
Paintwork

SECTION SUMMARY

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Carried to Final Summary R

Section No. 5
MULTI PURPOSE CLASSROOM

Item No			Quantity	Rate	Amount
	SECTION NO. 6				
	BILL NO. 1				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	Excavations measured in successive depths of 2m.				
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
6/1/1	Trenches	m3	37		
	Extra over excavations in earth to trenches and holes for				
6/1/2	Excavation in soft rock	m3	4		
	Carried Forward			R	

				R	
	Brought Forward				
6/1/3	Excavation in hard rock	m3	2		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
6/1/4	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	22		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
6/1/5	Trenches and holes	m2	126		
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
6/1/6	Backfilling to trenches, holes, etc	m3	17		
6/1/7	Under floors, steps, pavings, etc	m3	40		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
6/1/8	Backfilling to trenches, holes, etc	m3	5		
6/1/9	Under floors, steps, pavings, etc	m3	7		
	Filling supplied by the Contractor under floors, trenches, etc.				
6/1/10	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	7		
	COMPACTION OF SURFACES				
6/1/11	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	88		
	Carried Forward			R	

				R	
	Brought Forward				
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
6/1/12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	88		
6/1/13	To bottom and sides of excavated trenches, Holes, etc.	m2	162		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 1
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 2

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward			R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".				
	The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour				
	Structural Concrete				
	Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
6/2/1	Blinding	m3	2		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
6/2/2	Strip footings	m3	9		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
6/2/3	Concrete Apron cast to fall etc,	m3	4		
	25MPa/19mm Concrete				
6/2/4	Surface beds cast in panels	m3	6		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
6/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10		
	SUNDRIES TO CONCRETE				
	Surface treatment				
6/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	88		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
6/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	89		
	Rough formwork to soffits				
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
6/2/8	10mm soft board or similar approved between concrete and brick wall	m	45		
	Carried Forward			R	

				R	
	Brought Forward				
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
6/2/9	All diameter bars	t	1		
	Fabric reinforcement:				
6/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	44		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 2
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount	

BILL NO. 3

MASONRY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick

Hollow walls etc

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

BRICKWORK IN FOUNDATION

Carried Forward R

				R	
	Brought Forward				
	Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints				
6/3/1	One brick wall	m2	47		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
6/3/2	One brick wall	m2	149		
6/3/3	Half brick wall	m2	45		
6/3/4	Half brick wall, in beamfilling	m2	7		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
6/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	94		
6/3/6	Extra over brickwork for face brickwork in superstructure	m2	127		
6/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	8		
6/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	8		
6/3/9	Extra over brickwork for face brickwork in beamfilling	m2	7		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
6/3/10	75mm Wide reinforcement built in horizontally	m	131		
6/3/11	150mm Wide reinforcement built in horizontally.	m	715		
	Carried Forward			R	

				R	
	Brought Forward				
	"Allied concrete" or similar approved prestressed fabricated lintels				
6/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	11		
6/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	10		
	Turning pieces				
6/3/14	110mm Wide turning piece to flat brick lintels	m	15		
	Air bricks etc				
6/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Fair cutting to face brickwork				
6/3/16	Fair raking cutting at gables	m	46		
	Roof ties				
6/3/17	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	37		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
6/3/18	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	8		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 3
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
6/4/1	Under walls	m2	1		
6/4/2	Under cills, etc.	m2	2		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
6/4/3	Under surface beds.	m2	88		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
6/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	45		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 4
Waterproofing

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
6/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	74		
6/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	11		
6/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20		
	LOUVRES				
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	NTY Steelworks purpose-made louvre panels fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories etc., pre-painted to match roof sheeting				
6/5/4	Steel triangular louvre, 1600 x 600mm high overall	No	4		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
6/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	74		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 5
Roof Coverings

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another.			
	The term "planted on" shall mean the nailing of one timber member to another			
	The term "screwed on" shall mean the countersunk screwing of one timber member to another.			
	The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.			
	The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.			
	The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.			
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.			
	Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting			
	Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.			
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.			
	ROOFS, ETC			
	Carried Forward		R	

				R	
	Brought Forward				
	Plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses:				
	All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.				
	Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.				
	All joints to be close fitted butt joints.				
	Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.				
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.				
	Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.				
	Roof trusses				
6/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	62		
	Sawn softwood				
6/6/2	38 x 114mm Wall plates	m	44		
	Sundries				
6/6/3	Two coats creosote on sawn timbers	m2	16		
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	"Everite FC77" Fascia and badge boards				
6/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	46		
6/6/5	15 x 80 x 300mm fibre cement barge board	m	46		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
6/6/6	914 x 2032mm single door	No	8		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
6/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	8		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount	
	BILL NO. 7				
	CEILINGS, PARTITIONS AND ACCESS FLOORING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Fixing				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
	Ceilings & Bulkheads				
	Unless otherwise described ceilings shall be deemed to be horizontal				
	Steel components				
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
	Proprietary suspended ceilings				
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				
	Carried Forward			R	

	Brought Forward			R	
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
6/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	29		
	CORNICES				
	"Rhino" plasterboard cornice				
6/7/2	75mm Coved cornice, plugged to brickwork	m	31		
	SUNDRIES				
	Extra over for Trap Doors				
6/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	CEILING INSULATION				
	Carried Forward			R	

	Brought Forward			R	
	Insulation				
6/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	29		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount

BILL NO. 8

IRONMONGERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered

On request returnable samples are to be provided to the principal agent for consideration

Carried Forward R

	Brought Forward			R	
	Finishes to ironmongery Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded Rates The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below. **SUNDRIES** **Approved**				
6/8/1	"CZ8730SC" Door stop or similarly approved to wall or floors	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount	

BILL NO. 9

METALWORK

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

ALUMINIUM

The contractor is to make due allowance in his prices for complying with the following requirements.

SPECIFICATIONS

User Note:

Glazing

All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.

Ironmongery

All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.

Actuators

All rates for shopfronts with actuators to include for the supply and installation of actuators as specified

Carried Forward R

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 9
Metalwork

	Brought Forward			R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules				
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
6/9/1	914 x 2032mm single door	No	8		
	Carried Forward			R	

				R	
	Brought Forward				
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
6/9/2	Window size 1022 x 949mm high	No	8		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 9
Metalwork

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
6/10/1	30mm Thick on floors and landings	m2	140		
6/10/2	30mm Thick to falls and currents	m2	7		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
6/10/3	On brick walls	m2	231		
6/10/4	On narrow widths	m2	23		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 10
Plastering

Item No		Quantity	Rate	Amount	

BILL NO. 11

TILING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Pricing

Prices are to included for the following: Cutting, handling, labour, adhesive etc.

Fixing

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.

Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.

Wastage

Tile wastage in excess of 10% will be for the tenderer's account.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No. 1, shall equally apply to this Bill.

Carried Forward R

				R	
	Brought Forward				
	Note All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications				
6/11/1	Plastered walls	m2	123		
6/11/2	On narrow widths	m2	12		
6/11/3	Splash backs	m2	3		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
6/11/4	On floors	m2	73		
6/11/5	75mm high skirting	m	161		
	ATTIC STOCK				
6/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	12		
6/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	7		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
6/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	46		
6/12/2	Extra over eaves gutter for stopped end	No	16		
6/12/3	Extra over eaves gutter for corner	No	35		
6/12/4	Extra over eaves gutter for outlet	No	8		
	Rainwater downpipes				
6/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	28		
6/12/6	Extra over downpipe for offset	No	16		
6/12/7	Extra over downpipe for shoe	No	8		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
6/12/8	WHB, installed complete	No	8		
	WATER CLOSET				
	Carried Forward			R	

				R	
	Brought Forward				
	Similar Approved				
	Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
6/12/9	WC, installed complete	No	8		
	TOILET ROLL HOLDER				
	To be approved by Architect				
6/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	8		
	TAPS, VALVES, ETC				
	Similar Approved				
6/12/11	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	8		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 12
Plumbing and Drainage

Item No		Quantity	Rate	Amount
	BILL NO. 13			
	GLAZING			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	5mm clear floated glass fixed glazing putty			
6/13/1	Panes not exceeding 0.1m2	m2 8		
	TOPS, SHELVES, DOORS, MIRROR ETC			
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved			
6/13/2	Mirror 400 x 600 mm high	No 8		
	Carried Forward to Summary of Section No.		R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 13
Glazing

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
6/14/1	On internal ceilings and cornices	m2	32		
6/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	93		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
6/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	8		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
6/14/4	Plastered walls	m2	231		
	METAL SURFACES				
	Carried Forward			R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
6/14/5	On window frames	m2	8		
6/14/6	On door frames	m2	10		
6/14/7	On gutters	m	46		
6/14/8	On downpipes	m	28		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
6/14/9	On door	m2	30		
	Carried Forward to Summary of Section No.			R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2
Bill No. 14
Paintwork

SECTION SUMMARY

Bill No		Page No		Amount
6/1	Earthworks	6/3		
6/2	Concrete,Formwork and Reinforcement	6/7		
6/3	Masonry	6/10		
6/4	Waterproofing	6/11		
6/5	Roof Coverings	6/13		
6/6	Carpentry and Joinery	6/17		
6/7	Ceilings,Partitions and Access Flooring	6/20		
6/8	Ironmongery	6/22		
6/9	Metalwork	6/26		
6/10	Plastering	6/27		
6/11	Tiling	6/29		
6/12	Plumbing and Drainage	6/32		
6/13	Glazing	6/33		
6/14	Paintwork	6/35		
	Carried to Final Summary		R	

Section No. 6
4 SEATS WATERBORNE TOILET BLOCK X 2

Item No		Quantity	Rate	Amount	
	SECTION NO. 7 **BILL NO. 1** **DEMOLITIONS AND ALTERATIONS** **PREAMBLES** NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. **SUPPLEMENTARY PREAMBLES** **Subterranean water** No subterranean water is expected **Excavation for working space in rock** Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be **Carting away of excavated material** Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site **Filling** Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material **Testing** *Prices for filling are to include for all necessary density tests in accordance with SABS 1200D*				
	Carried Forward		R		

	Brought Forward		R	
	Existing structures In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account **Services** Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary. **Dust and noise** The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work. **Disposal of debris** The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated. Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary **Temporary support to openings through existing walls** Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.			
	Carried Forward		R	

	Brought Forward		R	
	Electrical and Mechanical Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.			
	GENERAL NOTES TO TENDERERS Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard. Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities. Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard. Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such. Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.			
	Carried Forward		R	

				R	
	Brought Forward				
	Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.				
	REMOVAL OF EXISTING WORK				
	Demolitions of existing structures all complete				
7/1/1	Single storey brick and mortar classroom block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	672		
7/1/2	Single storey brick and mortar ablution block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	62		
	Demolish and/or breaking up and removing brickwork				
7/1/3	100mm thick concrete aprons	m2	315		
	Taking down and removing roofs, floors, panelling, ceilings, partitions, tc				
7/1/4	Suspended plasterboard ceilings including suspension grid, hangers, etc	m2	848		
7/1/5	Corrugated roof sheeting	m2	338		
	Taking out and removing glass and mirrors				
7/1/6	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	148		
	Taking up and removing floor coverings carpeting, tiles etc				
7/1/7	Vinyl tile floor covering including preparing screed for new vinyl floor covering	m2	739		
	Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
7/1/8	Ceramic tiles to walls including preparing of walls to receive new wall tiles	m2	64		
	Carried Forward			R	

				R	
	Brought Forward				
	Hacking up/off and removing brick / concrete paving, screeds, etc				
7/1/9	25mm thick concrete screed	m2	412		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
7/1/10	Metal single door frame, size 813mm x 2032mm high	No	3		
7/1/11	Timber single door, size 813mm x 2032mm high	No	39		
	Taking out and removing ironmongery				
7/1/12	Remove green chalk board size 4880mm x 1260mm high and make good plaster	No	13		
7/1/13	Remove pinning boards size 1500mm x 600mm high and make good	No	28		
7/1/14	Remove white boards size, 1200mm x 1200mm high and make good	No	6		
7/1/15	Remove brass sliding stays, peg stay, handles window ironmongery	No	470		
7/1/16	Remove mortice lock set including locks to timber doors	No	12		
	Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
7/1/17	Remove and make good: vitreous china wash hand basin	No	8		
7/1/18	Remove and make good: water closet with cistern	No	16		
7/1/19	Remove and make good: Wash trough including all fiitings	No	8		
	Taking out and removing sundry joinery work				
7/1/20	Timber skirting from brickwork	m	179		
7/1/21	Galvanised rainwater goods downpipes	m	49		
7/1/22	Steel gutters	m	236		
7/1/23	Security gate size 813 x 2023mm high including framing bolted to brickwork and making good mortar joints between face brickwork	No	7		
	Carried Forward			R	

				R	
	Brought Forward				
	Repairing cracks				
7/1/24	On plastered brick walls	m2	653		
	BRICK UP OPENINGS				
	Brickwork in NFP bricks in class II mortar in building up openings including cutting toothings and bonding new brickwork to existing				
7/1/25	One brick walls	m2	885		
	MAKING GOOD OF FINISHES ETC				
	Making good screed				
7/1/26	Floors in patches	m2	193		
	Making good plaster				
7/1/27	Wall plaster in patches	m2	1 184		
	Face Bricks				
7/1/28	Clean and treat face-bricks with approved oxidation preventative solution	m2	1 468		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 1
Demolitions and Alterations

Item No			Quantity	Rate	Amount
	BILL NO. 2				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
7/2/1	Under floors, steps, pavings, etc	m3	135		
	COMPACTION OF SURFACES				
7/2/2	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	450		
	Carried Forward			R	

				R	
	Brought Forward				
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
7/2/3	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	450		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 2
Earthworks

Item No		Quantity	Rate	Amount

BILL NO. 3

CONCRETE, FORMWORK AND REINFORCEMENT

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)

Formwork

Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.

Carried Forward R

	Brought Forward		R	
	Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks". The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:- · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour Structural Concrete Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing. **GENERAL NOTES TO TENDERERS** General notes, described in Bill No.1, shall equally apply to this Bill. **UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES** **15Mpa/19mm concrete**			
	Carried Forward		R	

				R	
	Brought Forward				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
7/3/1	Concrete Apron cast to fall etc,	m3	39		
	25MPa/19mm Concrete				
7/3/2	Ramps	m3	12		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
7/3/3	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	26		
	SUNDRIES TO CONCRETE				
	Surface treatment				
7/3/4	Power float top surface of concrete surface bed to a true and even level finish	m2	450		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
7/3/5	Sloping and stepped outer edges of ramps not exceeding 300mm high extreme	m	36		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 3
Concrete,Formwork and Reinforcement

Item No		Quantity	Rate	Amount	
	BILL NO. 4				
	MASONRY				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	Sizes in descriptions				
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick				
	Hollow walls etc				
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	Carried Forward		R		

				R	
	Brought Forward				
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
7/4/1	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	6		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
	"Allied concrete" or similar approved prestressed fabricated lintels				
7/4/2	175 x 70mm Lintels in lengths not exceeding 3m	m	27		
	Turning pieces				
7/4/3	110mm Wide turning piece to flat brick lintels	m	19		
	Air bricks etc				
7/4/4	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	8		
	Fair cutting to face brickwork				
7/4/5	Fair raking cutting at gables	m	236		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 4
Masonry

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	WATERPROOFING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
7/5/1	Under surface beds.	m2	450		
	PROTECTIVE ROOFING PAINT				
	Two coats bituminous aluminium paint				
7/5/2	On waterproofing to roofs	m2	1 127		
	Carried Forward to Summary of Section No.			R	

Item No		Quantity	Rate	Amount	

BILL NO. 6

CARPENTRY AND JOINERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Joinery

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

Fixing

Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

Timber

All softwood to be South African Pine

Descriptions

Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.

Carried Forward R

				R	
	Brought Forward				
	Where the fixing of members is not stated it shall mean the nailing of one timber member to another.				
	The term "planted on" shall mean the nailing of one timber member to another				
	The term "screwed on" shall mean the countersunk screwing of one timber member to another.				
	The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.				
	The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.				
	The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.				
	Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.				
	Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting				
	Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.				
	Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.				
	ROOFS, ETC				
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
7/6/1	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	124		
7/6/2	15 x 80 x 300mm fibre cement barge board	m	236		
	DOORS ETC				
	Carried Forward			R	

				R	
	Brought Forward				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
7/6/3	813 x 2032mm single door	No	24		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 6
Carpentry and Joinery

Item No		Quantity	Rate	Amount	

BILL NO. 7

CEILINGS, PARTITIONS AND ACCESS FLOORING

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Fixing

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete

Ceilings & Bulkheads

Unless otherwise described ceilings shall be deemed to be horizontal

Steel components

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

Proprietary suspended ceilings

Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations

Carried Forward R

				R	
	Brought Forward				
	Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)				
	Suspension systems				
	Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.				
	NAILED UP CEILINGS				
	FIBRE - CEMENT BOARDS				
	Similar Approved				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
7/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	806		
	CEILING INSULATION				
	Insulation				
7/7/2	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	806		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 7
Ceilings,Partitions and Access Flooring

Item No		Quantity	Rate	Amount

BILL NO. 8

IRONMONGERY

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.

Proprietary items

Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items

Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered

On request returnable samples are to be provided to the principal agent for consideration

Carried Forward R

				R	
	Brought Forward				
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	Approved				
7/8/1	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	28		
7/8/2	White magnetic boards 4000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	13		
	SUNDRIES				
	Approved				
7/8/3	"CZ8730SC" Door stop or similarly approved to wall or floors	No	24		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount	
	BILL NO. 9				
	METALWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ALUMINIUM				
	The contractor is to make due allowance in his prices for complying with the following requirements.				
	SPECIFICATIONS				
	User Note:				
	Glazing				
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.				
	Ironmongery				
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.				
	Actuators				
	All rates for shopfronts with actuators to include for the supply and installation of actuators as specified				
	Carried Forward			R	

	Brought Forward		R	
	Scaffolding All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted. **Protection** With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price. **Installation** All measurements to be checked on site prior to ordering and manufacturing. Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing. Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials. **Profiles** Tenderers to provide typical details of proposed aluminium section to be used in the design. **Structural Silicone** Tenderers to allow a 10 year guarantee on all powdercoating. **Preliminary and Shop Drawings:** The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval. After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.			
	Carried Forward		R	

	Brought Forward		R	
	Fixing: The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted. **Deflection of structure:** The contractor is advised to make adequate provision for the design deflection of the structure. **Tolerances:** Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details. **Protection:** The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect. Such protection shall only be removed after a written instruction from the Architect. **Cleaning:** All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect. Note: All windows and doors should be read in conjunction with window and door schedules **WELDED SCREENS, GATES, ETC.**			
	Carried Forward		R	

				R	
	Brought Forward				
	Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications				
7/9/1	Steel gate to door, size 813mm x 2032mm high	No	16		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
7/9/2	813 x 2032mm single door	No	24		
	ALUMINIUM WINDOWS, DOORS, ETC				
	304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.				
7/9/3	In Ceiling voids	m2	806		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 9
Metalwork

Item No		Quantity	Rate	Amount
	BILL NO. 10			
	PLASTERING			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	SCREEDS			
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel			
7/10/1	30mm Thick on floors and landings m2	804		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC			
7/10/2	Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification. m	6		
	Carried Forward to Summary of Section No.		R	

Item No		Quantity	Rate	Amount	
	BILL NO. 11				
	TILING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	Pricing				
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.				
	Fixing				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.				
	Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.				
	Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.				
	Wastage				
	Tile wastage in excess of 10% will be for the tenderer's account.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Carried Forward		R		

				R	
	Brought Forward				
	Note All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.				
	WALL TILING				
	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications				
7/11/1	Splash backs	m2	3		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
7/11/2	On floors	m2	804		
7/11/3	75mm high skirting	m	179		
	ATTIC STOCK				
7/11/4	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	80		
	SUNDRIES				
	10mm aluminium straight edge trim				
7/11/5	Dividing strip between tiles and door frames	m	6		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Laying, backfilling, bedding, etc., of pipes:			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	Carried Forward		R	

				R	
	Brought Forward				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
7/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	232		
	Rainwater downpipes				
7/12/2	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	34		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/3	WHB, installed complete	No	8		
	WATER CLOSET				
	Similar Approved				
	Carried Forward			R	

				R	
	Brought Forward				
	Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/4	WC, installed complete	No	16		
	SINKS, etc.				
	Concrete double wash trough with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/5	1400 x 530 x 340mm deep Wash trough	No	8		
	TOILET ROLL HOLDER				
	To be approved by Architect				
7/12/6	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	16		
	TAPS, VALVES, ETC				
	Similar Approved				
7/12/7	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO Bill No. 12 Plumbing and Drainage				

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
7/13/1	Panes not exceeding 0.1m2	m2	21		
7/13/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	94		
7/13/3	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	30		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
7/13/4	Mirror 400 x 600 mm high	No	8		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 13
Glazing

Item No		Quantity	Rate	Amount
	BILL NO. 14			
	PAINTWORK			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	PAINTWORK TO PREVIOUS PAINTED			
	FLOATED PLASTER INTERNAL WALLS			
	Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by architect			
7/14/1	Plastered walls m2	1 749		
	PAINTWORK ETC TO NEW WORK			
	FIBRE CEMENT			
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect			
7/14/2	On internal ceilings and cornices m2	806		
7/14/3	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side m	360		
	METAL SURFACES			
	Carried Forward		R	

				R	
	Brought Forward				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
7/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	30		
7/14/5	On door frames	m2	30		
7/14/6	On gutters	m	124		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
7/14/7	On door	m2	53		
	Prepare and paint three coats clear varnish:				
7/14/8	On door	m2	26		
	Carried Forward to Summary of Section No.			R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO
Bill No. 14
Paintwork

SECTION SUMMARY

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7/8	Ironmongery	7/21		
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7/12	Plumbing and Drainage	7/31		
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	Carried to Final Summary		R	

Section No. 7
RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLO

Item No		Quantity	Rate	Amount
	SECTION NO. 8			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	SITE CLEARANCE ETC			
	Site clearance			
8/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2	16 161		
	KEEPING EXCAVATIONS FREE FROM WATER			
8/1/2	Keeping excavations free of all water other than subterranean water	Item		
	Carried Forward to Summary of Section No.		R	

Section No. 8
EXTERNAL WORKS
Bill No. 1
Earthworks

Item No			Quantity	Rate	Amount
	BILL NO. 2				
	METALWORK				
	PREAMBLES				
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	FLAG POST				
8/2/1	2 x 15m high flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases		Item		
	BALUSTRADES				
	HANDRAILS				
	Welded balustrading 1200mm high extreme, of handrail comprising 50 x 75 x 3mm thick hollow section at 1600mm centres, 50 x 50 x 3mm hollow section top and bottom rails, 19 x 19mm square vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab				
8/2/2	Raking balustrades	m	22		
	Welded balustrading 1050mm high extreme, of handrail comprising 70 x 70 x 2,5mm thick hollow section at 1600mm centres, 40 x 40 x 2,smm hollow section top and bottom rails, 10mm diameter vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab				
8/2/3	Horizontal balustrades	m	15		
	Carried Forward to Summary of Section No.			R	

Section No. 8
EXTERNAL WORKS
Bill No. 2
Metalwork

SECTION SUMMARY

Bill No		Page No		Amount
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8/2	Metalwork	8/2		
	Carried to Final Summary		R	

Section No. 8
EXTERNAL WORKS

Item No		Quantity	Rate	Amount
	SECTION NO. 9			
	BILL NO. 1			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	TESTING			
9/1/1	Testing water pipe system	Item		
	BUDGETARY ALLOWANCE			
9/1/2	Allow an amount of R138 200.00 (One Hundred and Thirty Eight Thousand Two Hundred) for the supply and installation of Sanitary Fitting Sundries	Item		152 020.00
9/1/3	Allow an amount of R450 000.00 (Four Hundred and Fifty Thousand) for the supply and installation of Enviro-loo complete	Item		495 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 9 PROVISIONAL SUMS Bill No. 1 Plumbing and Drainage			

Item No		Quantity	Rate	Amount

BILL NO. 2

BUDGETARY ALLOWANCES

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill.

Provisional Sums are to be expended/utilized only upon:

·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.

Cash discount

The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion

Profit

Where stated, the contractor may allow for profit if required

Carried Forward R

	Brought Forward		R	
	General attendance on nominated/selected subcontractors The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following: Builder's work Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	LOCAL AUTHORITY FEES			
	Local authority fees for connections			
9/2/1	Provide the sum of R35 000.00 (Thirty Five Thousand) for sewer, water and electrical connections, etc to the local authority	Item		35 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 9 PROVISIONAL SUMS Bill No. 2 Budgetary Allowance			

Item No		Quantity	Rate	Amount

BILL NO. 3

PROVISIONAL SUMS

PREAMBLES

NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.

SUPPLEMENTARY PREAMBLES

Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.

GENERAL NOTES TO TENDERERS

General notes, described in Bill No.1, shall equally apply to this Bill

Provisional Sums are to be expended/utilized only upon:

·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.

Cash discount

The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion

Profit

Where stated, the contractor may allow for profit if required

Carried Forward R

	Brought Forward		R	
	General attendance on nominated/selected subcontractors			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	Signage Installation			
9/3/1	Allow an amount of R36 560.00 (Thirty Six Thousand Five Hundred and Sixty) for the supply and installation of Signage	Item		36 560.00
9/3/2	Attendance		%	
9/3/3	Profit		%	
	Joinery Fittings			
9/3/4	Allow an amount of R378 065.00 (Three Hundred and Seventy Eight Thousand and Sixty Five) for the supply and installation of Joinery Fittings	Item		378 065.00
9/3/5	Attendance		%	
9/3/6	Profit		%	
	School Furniture and Fittings			
9/3/7	Allow an amount of R2 865 000.00 (Two Million Eight Hundred and Sixty Five Thousand) for the supply and installation of School Furniture and Fittings	Item		2 865 000.00
9/3/8	Attendance		%	
9/3/9	Profit		%	
	Carried Forward		R	

	Brought Forward		R	
	Community Liaison Officer			
9/3/10	Allow an amount of R288 000.00 (Two Hundred and Eighty Eight Thousand) for provision of Community Liaison Officer	Item		288 000.00
9/3/11	Attendance		%	
9/3/12	Profit		%	
	Health and Safety Agent			
9/3/13	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of Health and Safety Agent	Item		500 000.00
9/3/14	Attendance		%	
9/3/15	Profit		%	
	Carried Forward to Summary of Section No.		R	

Section No. 9
PROVISIONAL SUMS
Bill No. 3
Provisional Sums

SECTION SUMMARY

Bill No		Page No	Amount
9/1	Plumbing and Drainage	9/1	
9/2	Budgetary Allowance	9/3	
9/3	Provisional Sums	9/6	
	Carried to Final Summary		R

Section No. 9
PROVISIONAL SUMS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

C4.3 CIVIL WORKS

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	**1**	**70**		**SECTION NO. 3**				
3	**1**	**70**		**BILL NO.1**				
3	**1**	**70**		**BULK EARTHWORKS**				
3	1	70		Preambles	H4			
3	1	70		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	1	70		SUPPLEMENTARY PREAMBLES	H4			
3	1	70		Items, materials or methods	H4			
3	1	70		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	1	70		Excavations	H4			
3	1	70		No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling "Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008				
3	1	70		WORK GROUP 102	H4			
3	**1**	**70**		**SITE CLEARANCE**	**H2**			
3	1	70	2	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	58 900		
3	**1**	**70**		**Extra over all excavations for carting away**	**H3**			
3	1	70	3	Surplus material from excavations or stock piles on site to a dumping site to be located by the Contractor	m.km	11 780		
3	**1**	**70**		**EARTHWORKS**	**H2**			
3	**1**	**70**		**Bulk excavation**	**H3**			
3	1	70	4	Excavate in all materials and use for embankment or fill or dispose, as ordered	m3	1 356		
3	**1**	**70**		**Extra-over for**	**H3**			
3	1	70	5	Intermediate for excavation	m3	780		
3	1	70	6	Hard rock excavation	m3	250		
3	**1**	**70**		**Restricted Excavation**	**H3**			
3	1	70	7	Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose	m3	0		
3	**1**	**71**		**Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density**	**H3**			
3	1	71	8	150mm thick	m3	1 356		
3	1	71	9	Overhaul	m.km			

3	**1**	**71**		**LOFFELSTEIN RETAINING WALLS**	**H2**			
3	1	71	10	InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes	m2	200		
3	**2**	**73**		**SECTION NO. 3**				
3	**2**	**73**		**BILL NO.2**				
3	**2**	**73**		**WATER SUPPLY**				
3	2	73		Preambles	H4			
3	2	73		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	2	73		SUPPLEMENTARY PREAMBLES	H4			
3	2	73		Items, materials or methods	H4			
3	2	73		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	2	73		uPVC Pressure pipes and fittings	H4			
3	2	73		Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
3	2	73		Copper pipes	H4			
3	2	73		Pipes shall be hard drawn and half-hard pipes of the class stated Class 0 (thin walled hard drawn) pipes shall not be bent Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type Capillary solder fittings shall comply with ISO 2016 Only compression fittings shall be used in walls or in ground				
3	2	73		Lead pipes and traps	H4			
3	2	73		All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel				
3	2	74		Reducing fittings	H4			
3	2	74		Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained				
3	2	74		Steel sectional water tanks	H4			
3	2	74		Tanks shall comply with SABS CKS 114				

3	2	74		WORK GROUP 104	H4			
3	**2**	**74**		**EARTHWORKS (PIPE TRENCHES)**	**H2**			
3	**2**	**74**		**Site clearance and removal of topsoil**	**H3**			
3	2	74	1	Clear vegetation and small trees/shrubs up 2m wide	m	1 600		
3	**2**	**74**		**Excavate in all materials for trenches, backfill, compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:**	**H2**			
3	2	74	2	From 0m Up to 1.5m	m	1 600		
3	**2**	**74**		**Extra-over item (a) above for:**	**H3**			
3	2	74	3	Intermidiate excavation	m3	384		
3	2	74	4	Hard rock excavation	m3	58		
3	**2**	**74**		**Extra over all excavations for carting away**	**H3**			
3	2	74	5	Surplus material from trench excavations to a dumping site to be located by the Contractor	m3	88		
3	**2**	**74**		**Excavation ancillaries**	**H3**			
3	**2**	**74**		**Make up deficiency in backfill material**	**H3**			
3	2	74	6	From other necessary excavations on site	m3	88		
3	2	74	7	By importation from designated borrow pits	m3			
3	2	74	8	Compaction in road reserves	m			
3	2	74		WORK GROUP 148	H4			
3	**2**	**74**		**MEDIUM PRESSURE PIPELINES**	**H2**			
3	**2**	**74**		**Supply, lay and bed pipes complete with couplings**	**H3**			
3	2	74	9	50mm diameter uPVC Class 9 pipes	m	0		
3	2	74	10	50mm diameter uPVC Class 12 pipes	m	0		
3	2	74	11	63mm diameter uPVC Class 9 pipes	m	0		
3	2	74	12	63mm diameter uPVC Class 12 pipes	m			
3	2	74	13	75mm diameter uPVC Class 9 pipes	m	0		
3	2	74	14	75mm diameter uPVC Class 12 pipes	m	850		
3	2	74	15	90mm diameter uPVC Class 12 pipes	m	750		
3	2	74	16	65mm Pressure Reducing Valve	No			
3	2	74	17	75mm Pressure Reducing Valve	No			
3	**2**	**74**		**BEDDING (PIPES)**	**H2**			
3	**2**	**74**		**Provision of Bedding from Trench Excavation**	**H3**			
3	2	74	18	Selected granular material	m3	576		
3	2	74	19	Selected fill material	m3	960		
3	**2**	**74**		**ELEVATED STEEL TANK PLUS STAND**	**H2**			
3	**2**	**75**		**The following in sectional steel water tanks and bases**	**H3**			
3	2	75	20	Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	27		
3	2	75	21	Concrete for footings class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3	3		

3	2	75	22	Supply, deliver to site and erect 100KL Prestressed steel tank complete with 6m stand,	No	1		
3	2	75	23	Supply and install 50 mm dia Water Meter	No	0		
3	2	75	24	Supply and install 63 mm dia Water Meter	No	0		
3	2	75	25	90 x90 mm T piece section	No	15		
3	2	75	26	75 mm diam. Gate valve	No	2		
3	2	75	27	90 mm diam. Gate valve	No	2		
3	2	75	28	Supply and install 75mm X 32mm dia Saddles	No	18		
3	2	75	29	32 mm diam. Gate valve	No	0		
3	2	75	30	Ref. 617 welded mesh in floor/walls/footing/slab	m2	60		
3	2	75	31	Supply and install a 5mm (1000 x 1000) Vastrap plate cover and frame for the openning in the reservoir roof	m2	0		
3	2	75	32	Half brick wall including wire ties	m2	0		
3	2	75	33	Supply and install 75mm dia Resilient Seal Flanged Gate Valve (with rising spindle and handwheel, clockwise closing)	No	0		
3	2	75	34	1000mm long X 150mm diameter steel pipe, flanged both ends, 250mm flanged pipe with a 150 x 100 bellmouth, plain ended overflow pipe	No	0		
3	2	75	35	100mm flanged steel pipe with a 90 degree welded long radius bend	No	0		
3	2	75	36	1500 x 100mm flanged steel pipe with welded flanges both ends	No	0		
3	2	75	37	Sitting, Drilling and Equiping of new borehole	No	1		
3	**2**	**75**		**TESTING**	**H2**			
3	2	75	38	Testing of yield and water quality of existing borehole and supply and install water package plant as per specialist recommendation	No	1		
3	2	75	39	Testing water pipe system	Item	1		
3	**2**	**75**		**FIRE BOOSTER PUMP**	**H3**			
3	2	75	40	Supply and install Grundforce PM Pressure Pump (Q min 12 litres per second and 40m head) or similar with 90 mm inlet and outlet Complete with control panel, electrical connections, Brass Gate 90mm valves (90 mm and 90mm), Brass Non Return valve (90 mm), Brass In-line Strainer (90 mm), fittings and pipings	No	1		
3	**3**	**77**		**SECTION NO. 3**				
3	**3**	**77**		**BILL NO.3**				
3	**3**	**77**		**SEWER RETICULATION**				
3	3	77		Preambles	H4			
3	3	77		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	3	77		SUPPLEMENTARY PREAMBLES	H4			
3	3	77		Items, materials or methods	H4			
3	3	77		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	3	77		Vitrified clay pipes, etc	H4			
3	3	77		Pipes shall rest on solid ground and where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid				

3	3	77		uPVC Pipes and fittings	H4			
3	3	77		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed				
3	3	77		Reducing fittings	H4			
3	3	77		Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained				
3	3	77		Septic Tanks	H4			
3	3	77		Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions				
3	3	78		Laying, backfilling, bedding, etc. of pipes	H4			
3	3	78		Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be class B bedding				
3	3	78		WORK GROUP 104	H4			
3	**3**	**78**		**EARTHWORKS (PIPE TRENCHES)**	**H2**			
3	**3**	**78**		**Site clearance and removal of topsoil**	**H3**			
3	3	78	1	Clear vegetation and small trees/shrubs within 2m wide strip	m	707		
3	**3**	**78**		**EXCAVATION**	**H2**			
3	3	78		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for sewers up to 160mm in diameter for depths:	H3			
3	3	78	2	Up to 1.5m	m3	585		
3	3	78	3	Over 1.5m up to 2.5m	m3	210		
3	3	78	4	Over 2.5m up to 3.5m	m3			
3	**3**	**78**		**Extra-over item (a) above for:**	**H3**			
3	3	78	5	Intermidiate excavation	m3	495		
3	3	78	6	Hard rock excavation	m3	29		

3	3	78	7	Excavate and dispose of unsuitable material from trench bottom (provisional)	m3			
3	**3**	**78**		**Excavation ancillaries**	**H3**			
3	**3**	**78**		**Make up deficiency in backfill material**	**H3**			
3	3	78	8	From other necessary excavations on site	m3	524		
3	3	78	9	By importation from designated borrow pits	m3			
3	3	78		WORK GROUP 146	H4			
3	**3**	**78**		**SEWERS**	**H2**			
3	**3**	**78**		**Supply, lay, joint, bed and test 400KPa Maincore uPVC sewer pipes manufactured to SABS 1601**	**H3**			
3	3	78	10	110mm dia.	m	707		
3	3	78	11	160mm dia.	m	0		
3	**3**	**79**		**Extra -over uPVC pipe for specials**	**H3**			
3	3	79	12	110mm 90 degree plain bend	m	5		
3	3	79	13	110mm 45 degree plain bend	m	3		
3	3	79	14	110mm 45 degree plain junction	m	3		
3	3	79	15	160mm 90 degree plain bend	m	3		
3	3	79	16	160mm 45 degree plain bend	m	3		
3	3	79	17	160mm 45 degree plain junction	m	2		
3	**3**	**79**		**MANHOLES**	**H2**			
3	**3**	**79**		**Supply and construct pre-cast concrete manholes, complete with cover and frame and step irons as per drawings within the following depth ranges (depth measured from invert level to top of the manhole)**	**H3**			
3	**3**	**79**		**1000mm dia. Manholes**	**H3**			
3	3	79	18	up to 1.5m	No	7		
3	3	79	19	over 1.5m up to 2.0m	No	2		
3	3	79	20	over 2.0m up to 2.5m	No	1		
3	3	79	21	over 2.5m up to 3.0m	No			
3	**3**	**79**		**BEDDING AND BACKFILLING (PIPES)**	**H2**			
3	**3**	**79**		**Provision of Bedding from Trench Excavation**	**H3**			
3	3	79	22	Selected granular material	m3	255		
3	3	79	23	Selected fill material	m3	424		
3	**3**	**79**		**SEWER TREATMENT PLANT**	**H2**			
3	**3**	**79**		**Concrete**	**H3**			
3	3	79	24	Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2			
3	3	79	25	Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3			
3	**3**	**79**		**Mild steel reinforcement:**	**H3**			
3	3	79	26	Mild steel bars	kg			

3	**3**	**79**		**High-Tensile Welded mesh**	**H3**			
3	3	79	27	Ref. 617 welded mesh in floor/walls/footing/slab	m2			
3	**3**	**79**		**Brickwork of NFX bricks in 3:1 cement mortar:**	**H3**			
3	3	79	28	One brick wall including wire ties	m2			
3	3	79	29	Half brick wall including wire ties	m2			
3	**3**	**79**		**Septic Tank**	**H3**			
3	3	79	30	Construct septic tank with french drain as per specification	Item	2		
3	**3**	**79**		**Grease Trap**	**H3**			
3	3	79	30	Construct grease trap as per specification	Item	1		
3	**3**	**79**		**1-4 Cement plaster finished with a wooden trowel on brickwork:**	**H3**			
3	3	79	31	Internal wall plaster	m2			
3	3	79	32	Supply and install 1600mm x 1200mm Galvanized frame and cover for septic tank and grease trap	No	5		
3	**3**	**79**		**TESTING**	**H2**			
3	3	79	33	Testing drainage pipe system	Item	1		
3	**4**	**81**		**SECTION NO. 3**				
3	**4**	**81**		**BILL NO.4**				
3	**4**	**81**		**ROADS AND PARKING**				
3	4	81		Preambles	H4			
3	4	81		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	4	81		SUPPLEMENTARY PREAMBLES	H4			
3	4	81		Items, materials or methods	H4			
3	4	81		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	4	81		Excavations	H4			
3	4	81		No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling "Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008				
3	4	81		WORK GROUP 154	H4			
3	**4**	**81**		**EARTHWORKS (ROADS, SUBGRADE)**	**H2**			
3	**4**	**81**		**Road-bed preparation and compaction of material to**	**H3**			
3	4	81	1	Minimum of 90% of modified AASHTO maximum density	m3	0		
3	4	81	2	Minimum of 93% of modified AASHTO maximum density	m3	0		
3	**4**	**81**		**Selected layer compacted to 93% of modified AASHTO maximum density**	**H3**			
3	4	81	3	150mm thick	m3	0		

3	**4**	**81**		**Extra -over items 8.3.4 and 8.3.5 for excavation and breaking down material in**	**H3**			
3	4	81	4	Intermidiate excavation	m3	0		
3	4	81	5	Hard excavation	m3	0		
3	**4**	**81**		**Cut to spoil or stockpile from**	**H3**			
3	4	81	6	Soft excavation	m3	1 025		
3	4	81	7	Intermidiate excavation	m3	820		
3	4	81	8	Hard excavation	m3	82		
3	4	81	9	Overhaul	m|.km	1 927		
3	**4**	**81**		**SUBBASE**	**H2**			
3	**4**	**81**		**Construct the subbase course with material excavated in all materials or from borrow pit**	**H3**			
3	4	81	10	Subbase 150mm thick and compacted to 95% Mod AASHTO density	m3	1 230		
3	4	81	11	Base 150mm thick constructed with Graded crushed stone from commercial source and compacted to 88% of apparent relative density	m3	0		
3	**4**	**82**		**Process subbase material by the following processes, as relevant, and use in the subbase**	**H3**			
3	4	82	12	Stabilization	m3	1 230		
3	**4**	**82**		**Stabilizing agent**	**H3**			
3	4	82	13	Ordinary Portland cement	t	35		
3	4	82	14	Lime	t	1		
3	4	82	15	Overbudden	m3	0		
3	**4**	**82**		**BASE**	**H2**			
3	**4**	**82**		**Construct the base with gravel material from borrow pits**	**H3**			
3	4	82	16	Base 150mm thick and compacted to 97% Mod AASHTO density	m3	1 230		
3	**4**	**82**		**Process base material by the following processes, as relevant and use in base**	**H3**			
3	4	82	18	Stabilization	m3	1 230		
3	**4**	**82**		**Stabilizing agent**	**H3**			
3	4	82	19	Ordinary Portland cement	t	89		
3	4	82	20	Lime	m			
3	**4**	**82**		**SEGMENTED PAVING**	**H2**			
3	**4**	**82**		**Provision of edge Restraints**	**H3**			
3	4	82	21	Cast in-situ edging, 200 x 150mm thick Class 25/19 concrete on curves and on straights	m	385		

3	**4**	**82**		**Construction of paving complete**	**H3**			
3	4	82	22	Supply and lay 60mm thick segmented paving blocks with 20mm sand (Assembly and walkways)	m2	2 470		
3	4	82	23	Supply and lay 80mm thick segmented paving blocks with 20mm sand	m2	1 630		
3	4	82	24	Cutting units to fit edge restraints (straight, raking, or circular cutting)	m	0		
3	4	82	25	Allow for soil poisoning	m2	4 100		
3	**4**	**82**		**KERBING AND CHANNELING**	**H2**			
3	4	82	26	Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7	m	210		
3	4	82	27	Precast concrete kerbs Figure 5	m	195		
3	**4**	**82**		**TESTING OF FILLING MATERIAL AND COMPACTION**	**H2**			
3	4	82		GENERAL	H4			
3	4	82		The following tests are to be carried out when and only if required by the Architect/Engineer				
3	4	82		The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and Specification, of the Department of Transport				
3	4	82	28	Allow for testing of approved filling material in an approved laboratory according to S M T M method No A7, to establish the 100% modified AASHTO density thereof	Item	1		
3	4	82	29	Allow for testing of density of compacted filling under roads, etc. by means of the Sand Replacement Method according to S M T M method No A10(a)	Item	1		
				BREAKING UP EXISTING PAVEMENT LAYERS				
3	**4**	**83**		Excavating and removing existing bituminous material				
3	**4**	**83**		(a) Material intended for recycling with the average depth of excavation				
3	4	83	30	(ii)Exceeding 30mm but not exceeding 60mm	m2	0		
3	4	83	31	Excavating and spoiling material from an existing pavement and /or the underlying fill:				
3	**4**	**83**		(b) Cemented material	m^3	0		
3	4	83	32	Excavating material from an existing pavement and /or underlying fill in restricted areas				
				(a) Extra over item 38.01 for bituminous material excavated separately	m2	Rate Only		
3	**4**	**83**		(b)Extra over item 38.04 for other existing pavement				
3	4	83	33	(ii) Cemented material	m^3	Rate Only		
3	**4**	**83**		Sawing or cutting asphalt or cemented pavement layers				
3	4	83	34	(a) Sawing asphalt	m2	0		
3	4	83	35	Backfiling of excavations for patching with				
3	**4**	**83**		(a) Chemically stabilized base for a patch with a surface area				
3	4	83	36	(i) Not exceeding 5m2	m^3	0		
				(ii)Exceeding 5m2 but not 100m2	m^3	0		
3	**5**	**85**						
3	**5**	**85**		Compacting the floor of excavations for patching	m2	0		

3	**5**	**85**		**STABILIZATION**				
3	5	85		Chemical stabilization extra over unstabilized compacted layers:				
3	5	85		(a) Base layer, 150mm thick	m^3	0		
				Chemical stabilizing agent:				
				(a) Ordinary portland cement	t	0		
3	5	85		(b) Slaked road lime	t	Rate Only		
3	5	85		Provision and application of water for curing	kl	0		
3	5	85		**PRIME COAT**				
				Prime coat:				
				(a) MC-30 cut back bitumen	litre	0		
3	5	85		(b) MSP1	litre	Rate Only		
3	5	85		Aggregate for blinding	m^2	Rate Only		
3	5	85		Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment	litre	0		
				ASPHALT PAVEMENTS AND SEALS				
3	5	85		Asphalt surfacing				
3	5	85		(60/70 penetration grade bitumen)				
				(a) Medium continously graded asphalt				
				(i)Thickness -30mm	m^2	0		
3	5	85		Rolled in chippings (9.5mm)				
3	**5**	**85**		(a) in surfacing	t	Rate Only		
3	**5**	**85**		Tack coat of 30% stable grade emulsion	litre	0		
				Preambles	H4			
3	**5**	**85**		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	5	85	2					
3	5	85	3	SUPPLEMENTARY PREAMBLES	H4			
				Items, materials or methods	H4			
3	**5**	**85**		Items, materials or methods to be used specified by trade				
3	**5**	**85**		names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or				
3	5	85	4	methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	5	85	5					
				Concrete pipes	H4			
3	5	85		Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings				
3	5	85		Wire gratings	H4			
3	5	85	6	Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings				
3	5	85	7					
				Exposed concrete surfaces	H4			
3	**5**	**85**		Exposed surfaces of concrete stormwater channels, cover slabs, inspection eve marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster				
3	5	85	8					

3	5	85	9	WORK GROUP 104	H4			
3	5	86	10	**EARTHWORKS (OPEN CHANNEL)**	**H2**			
				EXCAVATION	**H3**			
3	5	86						
3	**5**	**86**		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for stormwater channel	m3	45		
3	5	86	11					
				Extra-over item (a) above for:	**H3**			
3	5	86	12					
				Intermidiate excavation	m3	35		
3	**5**	**86**		Hard rock excavation	m3	10		
				BEDDING AND BACKFILLING	**H2**			
3	5	86	13					
				Provision of Bedding from Trench Excavation	**H3**			
3	5	86	14					
				Selected granular material for bedding	m3			
3	5	86	15					
				Selected fill material and backfilling	m3			
3	**5**	**86**						
				WORK GROUP 146	H4			
3	**5**	**86**						
				CONCRETE AND REINFORCEMENT	H4			
				Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	8		
				Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the	m3	15		
3	5	86	16	engineer				
				High-Tensile Welded mesh	**H3**			
				Ref. 245 welded mesh in floor slab	m2	152		
3	5	86	17					
				Ref. 617 welded mesh in floor slab	m2			
				Mild steel bars	kg			
3	**5**	**86**						
3	5	86	18	UPVC PIPES	H4			
				Supply, lay and bed pipes complete with couplings	**H3**			
				200mm diameter uPVC Class 6 pipes	m	12		
				250mm diameter uPVC Class 6 pipes	m	16		
3	**5**	**86**						
				Supply and lay RS40 Grating Unbanded and	**H3**			
3	**5**	**86**		**Banded Rectagrid or similar approved Grid for Storm water drainage**				
				2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen	No			
3	5	86	19	1 000 x 500 x 50 x 4.5mm RS40 Grating Banded Bitumen	No			
				Supply and install 60 x 60 x 6mm Angle Iron cast into concrete	m			

3	**6**	**88**						
3	**6**	**88**		**SURFACE V-CHANNELS**	**H2**			
3	**6**	**88**						
				In-situ 20 MPa/19mm Concrete open stormwater channels	**H3**			
3	6	88		**finished on all exposed surfaces with woodfloat finish and with angles rounded, cast in approximately 2m lengths**				
3	6	88		**with construction joints and expansion joints formed with Flexcell joint filler and sealed with bitumastic joint sealant at 6m intervals, including all formwork, moulds, shallow excavations and filling and laying to falls**				
3	6	88						
				V-shaped channel 1200mm wide, 105mm (average) thick and 50	m	152		
3	6	88		mm deep (concrete = 0,10 m³/m) next to existing wall and including the forming of an expansion joint with the existing wall				
3	6	88		formed with Flexcell joint filler and sealed with bitumastic joint sealant				
				Extra over 900 x 50mm deep stormwater channel for bends, junctions, ends, etc	No			
3	6	88		**Stormwater outlet spreader, culvert headwall, etc.**	**H3**			
3	**6**	**88**		Concrete 20MPa/19mm in spreader outlet 2,0m long and x 2,0m wide at open end with 100 x 50mm projecting kerbs along	No	1		
3	**6**	**88**		both sides and bricks cast in at 300mm centres and 150mm apart to project 50mm above 75mmm concrete surface bed,				
3	6	88	1	including all necessary shallow excavations, formwork and finishing with a wood float				
3	6	88						
				STONE PITCHING	**H2**			
3	**6**	**88**						
				Stone pitched of approximately 150mm diameter river	**H3**			
3	**6**	**88**		**stones tightly packed including preparation of ground surface under, top soil filling and planted with grass**				
3	6	88						
				150mm Thick lining to open ends of outfall spreaders, ditches, etc.	m2	248		
3	**4**	**81**		**SECTION NO. 3**				
3	**4**	**81**		**BILL NO.6**				
3	**4**	**81**		**FENCING**				
3	4	81		Preambles	H4			
3	4	81		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	4	81		SUPPLEMENTARY PREAMBLES	H4			
3	4	81		Items, materials or methods	H4			
3	4	81		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
				Steel palisade fencingn 2,4m high according to specification including excavatio	m	1025		
				Supply and install according to specification a 6m wide vehicular gate	No	1		
				Supply and install according to specification 1.5m wide pedestrian gate as per d	No	1		
				Repainting of the existing fence	m^2	0		

				SUMMARY **Bulk Earthworks** **Water Supply** **Sewer Reticulation** **Roads and Parking** **Stormwater Drainage** **Fencing**				
				Total carried to final summary				

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

C4.4 ELECTRICAL WORKS

REBONE SECONDARY SCHOOL ELECTRICAL WORKS

ITEM	DESCRIPTION	AMOUNT
1	MV Reticulation	
2	LV Reticulation	
3	Block A - Administration Block	
4	Block Ex-C1 - 4 Classroom Block	
5	Block Ex-C2 - 2 Classroom Block	
6	Block Ex-C3 - 3 Classroom Block	
7	Block Ex-C4 - 3 Classroom Block	
8	Block Ex-C5 - 4 Classroom Block	
9	Block Ex-T1 - 4 Seater Toilets	
10	Block Ex-T2 - 4 Seater Toilets	
11	Block Ex-T3 - 4 Seater Toilets	
12	Block Ex-T4 - 4 Seater Toilets	
13	Block Ex-T5 - 4 Seater Toilets	
14	Block MPC-01 - Multipurpose Classroom	
15	Block SJ-01 - 4 Classroom Block	
16	Block SJ-02 - 4 Classroom Block	
17	Block SJ-03 - 4 Classroom Block	
18	Block SJ-04 - 4 Classroom Block	
19	Block SJ-05 - 4 Classroom Block	
22	Block X01 - 4 Seater Toilets	
23	Block X02 - 4 Seater Toilets	
24	Block X03 - 4 Seater Toilets	
25	Block Z01 - 4 Seater Toilets	
26	Public Address	
27	Area Lighting	
28	HVAC	
29	ICT	
	TOTAL CARRIED TO FINAL SUMMARY	

ELECTRICAL INSTALLATION

MV Reticulation

Item	Description	Unit	Quantity	Rate	Amount
1	Provide the sum of R 235 545,80 for Installation of MV RETICULATION	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	**Excavation and Trenching** General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.				
1,1	Excavation and backfilling in soft soil	m^3	108		
1.2.	Excavation and backfilling in hard rock-supply cable	m^3	54		
2	**Cable and Data Sleeves** Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
2,1	110mm Diameter for power cable	m	200		
	Radius bends:				
2,3	110mm Diameter	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
3	**Kiosk** Supply and install kiosk as per drawings, complete with breakers				
3,1	Main Kiosk	each	1		
4	**Low Voltage PVC Cables**				
	Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
	Low Voltage PVC Cables				
4,1	25mm^2 4 core PVC SWA Cable	m	100		
4,2	16mm^2 4 core PVC SWA Cable	m	300		
4,3	16mm^2 2 core PVC SWA Cable	m	1000		
	Stranded Bare Copper Earth Wire				
4,4	16mm^2 BCEW	m	1400		
5	**Treminations:**				
5,1	25mm^2 4 core PVC SWA Cable	No	2		
5,2	16mm^2 4 core PVC SWA Cable	No	2		
5,3	16mm^2 2 core PVC SWA Cable	No	10		
5,4	16mm^2 BCEW	No	20		
6	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
6,1	Kiosks	Sum	1		
7	**Others**				
7,1	Conctrete cable markers	each	20		
7,2	Danger Tape	m	1400		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block A - Administration Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	Radius bends:				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	500		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3,1	SU 2 Distribution board	No	1		
4	**Conduit Work**				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
4,1	20mm PVC Conduit	m	900		
4,2	25mm PVC Conduit	m	600		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
5	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
5,1	20mm diameter 4 way type(round box)	No	55		
6	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	**PVC Wiring**				
	PVC Wiring in conduits:				
7,1	2.5mm² for lights circuits	m	2000		
7,2	4mm² for plug sockets circuits	m	1000		
7,3	6,0 mm² for plug sockets circuits	m	500		
8	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
8,1	2.5mm²	m	1000		
8,2	4,0 mm²	m	500		
8,3	6,0 mm²	m	250		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
9	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
10,1	16A SA/Euro combined socket outlet	No	8		
11	**Light Fittings** Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Flourescent 3x28W LBR	No	24		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	2x18W CFL circular downlighters	No	8		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
12	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	**Others**				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	**Lightning Protection**				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm² Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	**Provisional Sum**				
15.1.1	Internet WI-FI	Prov Sum	1	10000	
	Overhead, charges and profit on item 15.1.1	%	10000		
15.1.2	Public Address	Prov Sum	1	15000	
	Overhead, charges and profit on item 15.1.2	%	15000		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-C1 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-C2 - 2 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	400		
6,2	4mm² for plug sockets circuits	m	200		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	200		
7,2	4mm²	m	100		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	6		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	10		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-C3 - 3 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	500		
6,2	4mm² for plug sockets circuits	m	250		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	250		
7,2	4mm²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-C4 - 3 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	500		
6,2	4mm² for plug sockets circuits	m	250		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	250		
7,2	4mm²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-C5 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-T1 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-T2 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-T3 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-T4 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Ex-T5 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Multi Purpose Classroom**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	50		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	200		
3,3	25mm PVC Conduit	m	100		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	16		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	1		
5,2	100 x 100 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	200		
6,2	4mm² for plug sockets circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	100		
7,2	4mm²	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	1		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	2		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	0		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block SJ-01 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves** Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block SJ-02 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves** Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block SJ-03 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block SJ-04 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves** Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation **Block SJ-05 4 Classroom Block**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or conncrete work:				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Tinber work:				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	600		
6,2	4mm² for plug sockets circuits	m	300		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	300		
7,2	4mm²	m	150		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	**Socket Outlets** Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. Flush switched sockets type:				
9,1	16A 3 pin single socket outlets	No	4		
9,2	16A SA/Euro combined socket outlet	No	8		
10	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 2x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x37W	No	20		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block X01 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block X02 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block X03 - 4 Seater Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	20		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	50		
3,3	25mm PVC Conduit	m	50		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	20		
3,5	25mm PVC Conduit	m	20		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	12		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	100		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	10		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

ELECTRICAL INSTALLATION

Internal Installation **Block Z - 10 Seater Mixed Tiolets**

Item	Description	Unit	Quantity	Rate	Amount
1	**Cable and Data Sleeves**				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	20		
	Radius bends:				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	4		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	**Draw Wires**				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	2030		
3	**Distribution Boards**				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
3,2	20mm PVC Conduit	m	60		
3,3	25mm PVC Conduit	m	60		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	30		
3,5	25mm PVC Conduit	m	30		
4	**Conduit Boxes**				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	16		
5	**Wall Boxes**				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	Flush mounted type:				
5,1	100 x 50 x 50mm	No	2		
6	**PVC Wiring**				
	PVC Wiring in conduits:				
6,1	2.5mm² for lights circuits	m	120		
7	**Stranded Bare Copper Earth Wire**				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm²	m	60		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	**Light Switches** Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	2		
9	**Light Fittings** Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
9,1	Ceiling mounted fitting 2x18W CFL - Interior	No	14		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	**Electrical Tests**				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	**Other**				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm² Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

PUBLIC ADDRESS

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
	PUBLIC ADDRESS				
1	Provide the sum of R35,000-00 for Installation of Access Control and related accessories	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

Area Lighting

Item	Description	Unit	Quantity	Rate	Amount
1	***Public Lighting***				
1,1	1 x 57W CFL Post top fitting with electronic gear. To be approved by the Engineer.	No.	35		
1,2	3m galvanised steel poles	No.	35		
1,3	Excavation and backfilling in soft soil	m^3	3,6		
1,4	Excavation and backfilling in hard rock	m^3	18		
1,5	$6mm^2$ 4 core PVC SWA Cable	m	650		
1,6	$6mm^2$ BCEW	m	650		
	Treminations:				
1,8	$6mm^2$ 4 core PVC SWA Cable	No	35		
1,9	$6mm^2$ BCEW	No	35		
1,10	Electrical Danger tape	m	300		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

HVAC

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
	HVAC				
1	Provide the sum of R 305 790.00 for Installation of HVAC	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

ICT

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
	ICT				
1	Provide the sum of R288 968,40 for Installation of ICT and related accessories in the administration block	Item	1		
	Contractors Markup	Item			
	Contractors Attendance	Item			
Total for installation Carried to Summary of Cost (Excl.VAT)					

FINAL SUMMARY

Section No		Page No		Amount
1	PRELIMINARIES AND GENERAL	1/30		
2	4 CLASSROOM BLOCK X 5	2/36		
3	10 SEATS ENVIROLOO TOILET BLOCK X 3	3/36		
4	MEDIUM ADMINISTRATION BLOCK	4/37		
5	MULTI PURPOSE CLASSROOM	5/34		
6	4 SEATS WATERBORNE TOILET BLOCK X 2	6/36		
7	RENOVATIONS (13 CLASSROOMS AND 16 ENVIROLOOS)	7/35		
8	EXTERNAL WORKS	8/3		
9	PROVISIONAL SUMS	9/7		
	Sub- Total (PART A - MAIN BUILDING WORKS)		R	
	PART B - ELECTRICAL AND MECHANICAL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)	Item		
	PART C - CIVIL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)	Item		
	Sub- Total - BUILDING COSTS		R	
	CONTINGENCY ALLOWANCE TO THE CONTRACT			
	Contingencies:			
	Allow an amount of R2 000 000.00 (Two Million) for contingency allowance to the contract ,to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item		
	Carried Forward		R	

FINAL SUMMARY

Section No		Page No		Amount
	Brought Forward		R	
	PRICE ADJUSTMENT FOR INFLATION TO THE CONTRACT			
	Inflation:			
	Allow an amount of R2 100 000.00 (Two Million One Hundred Thousand) for price adjustment for inflation.	Item		
	Sub- Total Excluding VAT		R	
	Tax		R	
	Carried to Form of Tender		R	

PART C5: SCOPE OF WORKS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

C5.1 SCOPE OF WORKS

Overview of the works

The project comprises the construction of the following:

Demolition of 3 Classrooms and 7 Pit Latrine, 10, Refurbishment of 13 Classrooms and 16 Enviroo-Loo, and Construction of 1 Medium Administration Block, 20 Classrooms, 8 Seat Waterborne Toilets and 30 Seats Enviro-Loo Toilets, External Works as well as related services at Rebone Secondary School in Riverside, Janefurse Village, Greater Sekhukhune District, Limpopo.

The Contractor shall provide sufficient qualified technical staff, field staff, and safety personnel to ensure the Works under this contract be satisfactorily carried out safely and meeting the performance targets and programs. The Contractor shall also provide competent attendant(s) to monitor any works in relation to the scope of works.

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

PART C6: EPWP INFRASTRUCTURE GUIDELINE 2015

PART C6: EPWP INFRASTRUCTURE GUIDELINE 2015

PART C6.1: DATA COLLECTION TOOL

public works
Department:
Public Works
REPUBLIC OF SOUTH AFRICA

EXPANDED PUBLIC WORKS PROGRAMME

DATA COLLECTION TOOL	
*NOTE:The field with the asterick indicates the mandantory.****	
Column A	**Column B**
Project Details	
Project Name ***	
Project Reference Number ***	
Project description ***	
Project Start Date ***	
Project End Date ***	
Estimated Budget ***	
Project Location	
Province ***	
District/Metro Municipality ***	
Local Municipality/Metro Region ***	
Latitude (in decimal format)	
Longitude (in decimal format)	
Public Body Details	
Public body sphere ***	
Reporting public body that is the project owner (and will report on the project) ***	
Implementing public body type ***	
Public body that will implement the project	
MIG/IDP reference number allocated to the project	
EPWP Details	
EPWP Sector**	Infrastructure
EPWP Program ***	
EPWP Sub programme ***	
Budget Amount	
Financial year ***	1
Total Budget Amount ***	
Wages ***	
UIF ***	
COIDA ***	
Training	
Administration	
Equipment and materials	
Other	
Describe if other	
Outputs and Training	
Output ***	
Despription ***	
Target Quantity ***	
Number of persons to be trained	
Contact person	
Title**	
Initials**	
First Name**	
Surname**	
Email	
Tel (Office)**	
Fax Number	
Cell Number**	
Physical Address ***	
Postal Address	
Postal code	

1

Beneficiary Details *** NOTE:Give as much information as you possible can on the beneficiaries details.														Location Details ***				Household Details ***		
FirstName ***	Initials ***	Surname ***	Idnumber ***	DateOfBirth ***	Gender ***	Disability ***	StartDate ***	EndDate ***	education level ***	Language ***	Address ***	Nationality ***	Cell Number ***	Government Grant ***	Province ***	District ***	Muncipality ***	Ward No.***	Number of people in Household ***	Number of Dependants in Household ***	Number of Children attending school ***

Project Location	
Column A	**Column B**
Locality Name ***	
Municipality***	
Ward ***	
Subplace***	
Government Facility***	
Project Location ***	

Payment Details ***														
FirstName ***	Initials ***	Surname ***	Idnumber ***	DateOfBirth* **	WageRate ***	TotalPaidDays ***	AmountPaid ***	WorkDays* **	Training Days Paid	TrainingDays NonPaid	Total Training Days	Training Course Id	Month ***	Year ***

4

Training										
ID	Course Name	Code	Type	Start	End	Number of Trainees	Number of Days	Cost	Status	Training Provider

Monthly Progress Report	
Wages ***	
UIF ***	
COIDA ***	
Training	
Administration	
Equipment and materials	
Other	
Describe if other	

Outputs	
Achieved Value ***	
Achieved Percentage ***	

	EPWP Employment Information	
	Name of Project	
	First Name	
	Initials	
	Surname	
	ID Number	
	Nationality	
	Name of Employer	
	Name of Project	
	Signature of Employer	
	Attachment	
	Copy of ID	

	Payment Details ***															
	Employer	LDPWR&I														
	Project Name	Schoemansdal Museum														
	Contract Number															
	Reporting Month															
	Attach prooof of payment or register where employees aknowledged receipt of															
	FirstName ***	Initials ***	Surname ***	Idnumber ***	DateOfBirth ***	WageRate ***	No. of Days Worked	AmountPaid ***	WorkDays ***	Training Days Paid	TrainingDays NonPaid	Total Training Days	Training Course Id	Month ***	Year ***	Signature of Payment Received
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																

PART C7: SITE INFORMATION AND DRAWINGS

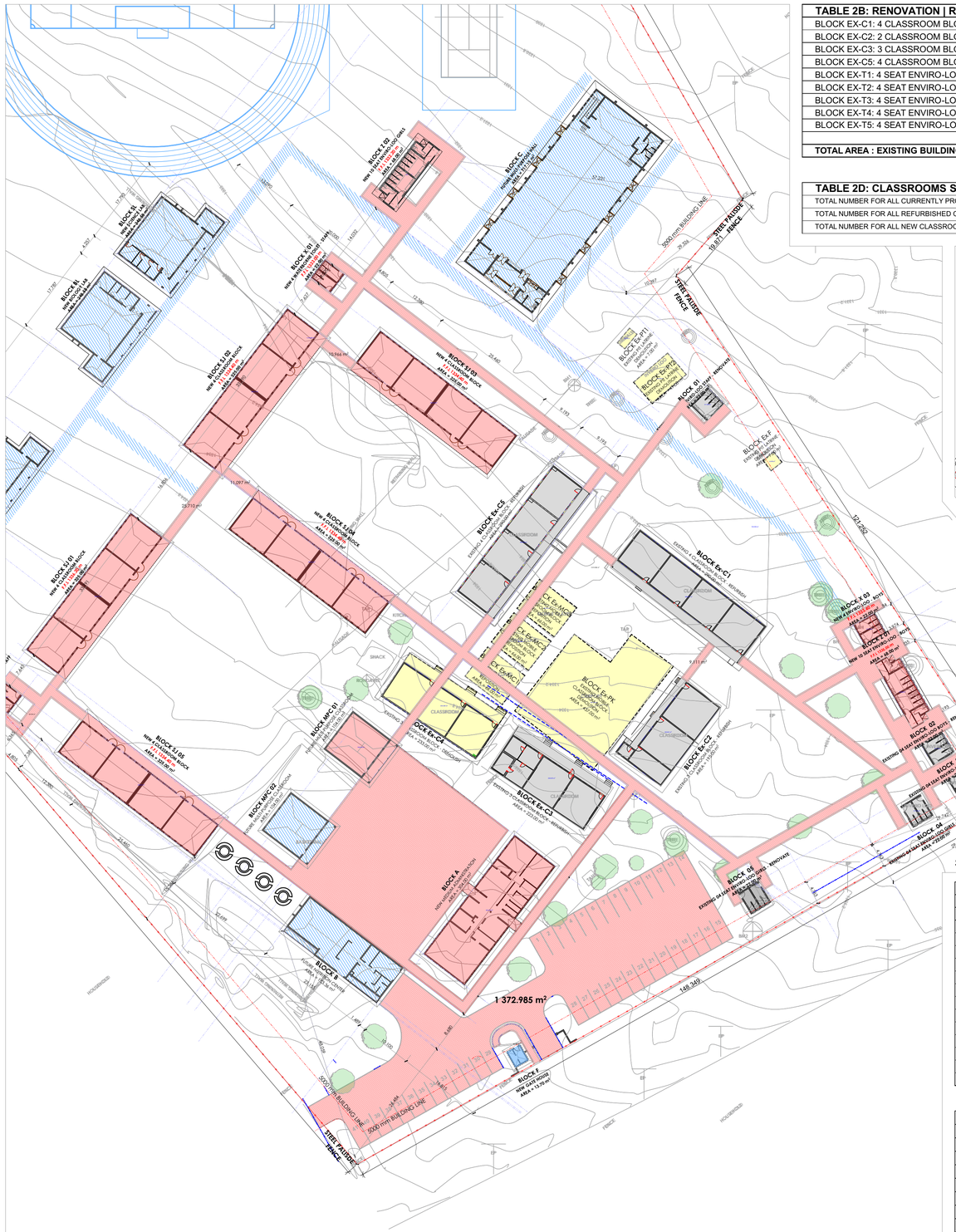
LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

PART C7.1: SITE INFORMATION

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

PART C7.2: DRAWINGS

ARCHITECTURAL DRAWINGS

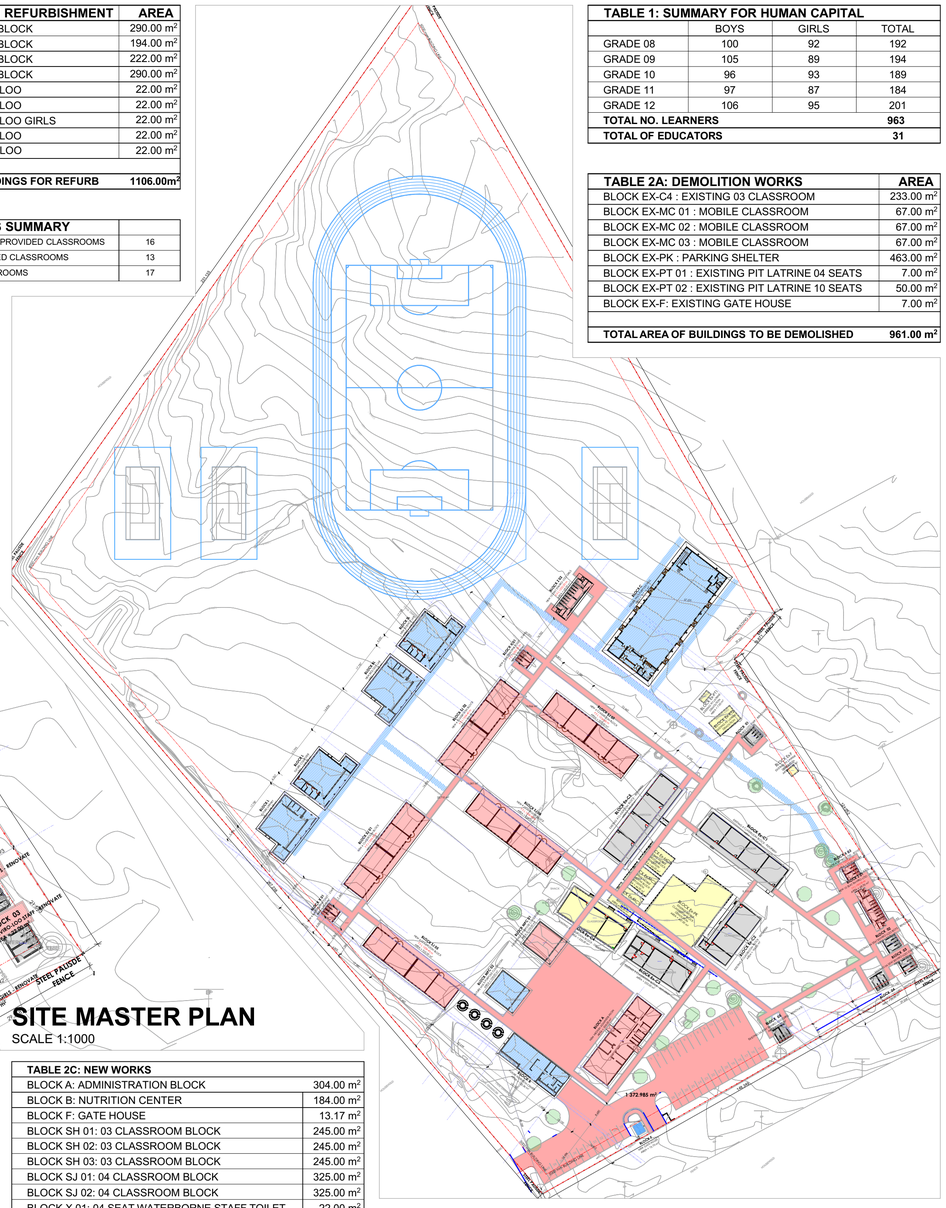


SITE MASTER PLAN

SCALE 1:500

TABLE 2B: RENOVATION | REFURBISHMENT	AREA
BLOCK EX-C1: 4 CLASSROOM BLOCK	290.00 m²
BLOCK EX-C2: 2 CLASSROOM BLOCK	194.00 m²
BLOCK EX-C3: 3 CLASSROOM BLOCK	222.00 m²
BLOCK EX-C5: 4 CLASSROOM BLOCK	290.00 m²
BLOCK EX-T1: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T2: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T3: 4 SEAT ENVIRO-LOO GIRLS	22.00 m²
BLOCK EX-T4: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T5: 4 SEAT ENVIRO-LOO	22.00 m²
TOTAL AREA : EXISTING BUILDINGS FOR REFURB	**1106.00m²**

TABLE 2D: CLASSROOMS SUMMARY	
TOTAL NUMBER FOR ALL CURRENTLY PROVIDED CLASSROOMS	16
TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS	13
TOTAL NUMBER FOR ALL NEW CLASSROOMS	17



SITE MASTER PLAN

SCALE 1:1000

TABLE 2C: NEW WORKS	
BLOCK A: ADMINISTRATION BLOCK	304.00 m²
BLOCK B: NUTRITION CENTER	184.00 m²
BLOCK F: GATE HOUSE	13.17 m²
BLOCK SH 01: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SH 02: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SH 03: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SJ 01: 04 CLASSROOM BLOCK	325.00 m²
BLOCK SJ 02: 04 CLASSROOM BLOCK	325.00 m²
BLOCK X 01: 04 SEAT WATERBORNE STAFF TOILET	22.00 m²
BLOCK X 02: 04 SEAT WATERBORNE STAFF TOILET	22.00 m²
BLOCK X 03: 04 SEAT ENVIRO-LOO BOYS	22.00 m²
BLOCK Z 01: 10 SEAT ENVIRO-LOO BOYS	69.00 m²
BLOCK Z 02: 10 SEAT ENVIRO-LOO GIRLS	69.00 m²
TOTAL AREA : PROPOSED BUILDINGS	**2 090.17m²**

FUNCTION LEGEND	
PLOT BOUNDARY	
TREE	
TAP	
5000 mm BUILDING LINE	
BENCHMARK	
ELECTRICAL POLE	
BOREHOLE	
BUILDINGS TO BE RENOVATED	
BUILDING TO BE DEMOLISHED	
PROPOSED BUILDING	
PAVED PEDESTRIAN WALKWAY	
PAVED DRIVE-WAY	
FUTURE CONCRETE WALKWAY	
TRANSFORMER	
JOJO TANK	

TABLE 1: SUMMARY FOR HUMAN CAPITAL	BOYS	GIRLS	TOTAL
GRADE 08	100	92	192
GRADE 09	105	89	194
GRADE 10	96	93	189
GRADE 11	97	87	184
GRADE 12	106	95	201
TOTAL NO. LEARNERS			**963**
TOTAL OF EDUCATORS			**31**

TABLE 2A: DEMOLITION WORKS	AREA
BLOCK EX-C4 : EXISTING 03 CLASSROOM	233.00 m²
BLOCK EX-MC 01 : MOBILE CLASSROOM	67.00 m²
BLOCK EX-MC 02 : MOBILE CLASSROOM	67.00 m²
BLOCK EX-MC 03 : MOBILE CLASSROOM	67.00 m²
BLOCK EX-PK : PARKING SHELTER	463.00 m²
BLOCK EX-PT 01 : EXISTING PIT LATRINE 04 SEATS	7.00 m²
BLOCK EX-PT 02 : EXISTING PIT LATRINE 10 SEATS	50.00 m²
BLOCK EX-F: EXISTING GATE HOUSE	7.00 m²
TOTAL AREA OF BUILDINGS TO BE DEMOLISHED	**961.00 m²**

SCHEDULE OF AREA	
SANS 10400 CLIMATIC ZONE	ZONE 2
SANS 10400 BUILDING CLASSIFICATION	A3
TOTAL AREA OF EXISTING BUILDINGS	2,067.00 m²
TOTAL AREA OF BUILDINGS TO BE DEMOLISHED	961.00 m²
TOTAL AREA OF PROPOSED WALKWAYS	2231.60 m²
TOTAL AREA OF DRIVEWAY & PARKING	1504.50 m²
TOTAL PARKING PROVISION	36 BAYS
TOTAL PLOT AREA	59,906.9 m²
TOTAL PLOT PERIMETER	1020.9 m
PLOT AREA COVERAGE	5.33 %

TABLE 2D: FUTURE WORKS	
BLOCK C: MULTI-PURPOSE LARGE HALL	717.17 m²
BLOCK L: LIBRARY	248.58 m²
BLOCK CL: COMPUTER LAB	248.58 m²
BLOCK SL: SCIENCE LAB	248.58 m²
BLOCK BL: BIOLOGY LAB	248.58 m²
TOTAL AREA : PROPOSED BUILDINGS	**994.38m²**

ISSUED FOR TENDER

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
D	JAN 20	APPROVED LDoE & LDPWRI PLACEMENT
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | **4**

WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION
SITE PLAN PROPOSAL

DRG No.	D14-100-02	02/03	ITEM No.
DESIGN	SMTN	SMTN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

TECTURA - INTERNATIONAL

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FAX: +27(0)31 535 7051

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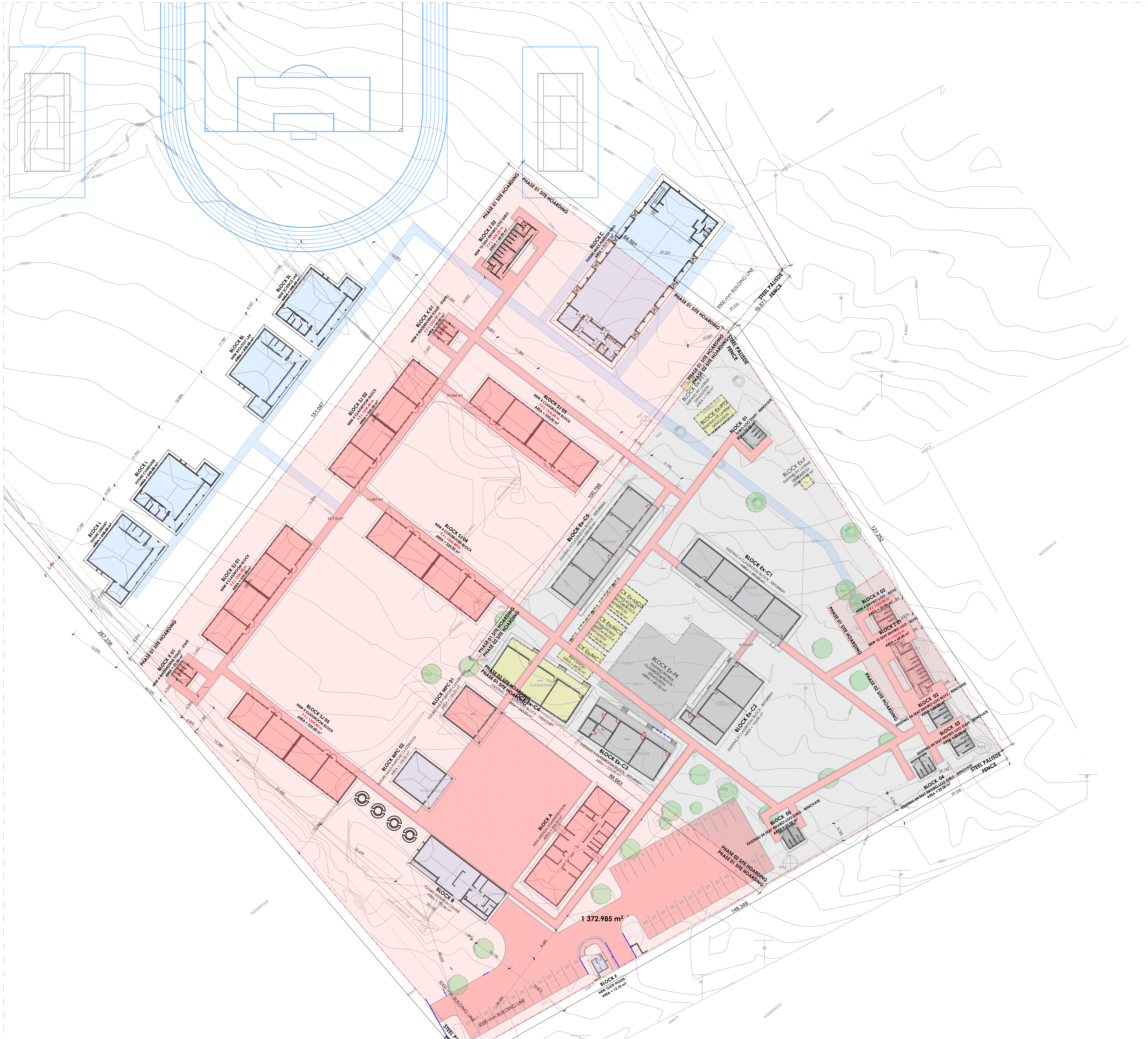
ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0



SITE MASTER PHASING PLAN

SCALE 1:500

PHASE 01 CONSTRUCTION	
PHASE 01 HOARDING	
BLOCK A: ADMINISTRATION BLOCK	304.00 m²
BLOCK B: NUTRITION CENTER	184.00 m²
BLOCK F: GATE HOUSE	13.17 m²
BLOCK SH 01: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SH 02: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SH 03: 03 CLASSROOM BLOCK	245.00 m²
BLOCK SJ 01: 04 CLASSROOM BLOCK	325.00 m²
BLOCK SJ 02: 04 CLASSROOM BLOCK	325.00 m²
BLOCK X 01: 04 SEAT WATERBORNE STAFF TOILET	22.00 m²
BLOCK X 02: 04 SEAT WATERBORNE STAFF TOILET	22.00 m²
BLOCK X 03: 04 SEAT ENVIRO-LOO BOYS	22.00 m²
BLOCK Z 01: 10 SEAT ENVIRO-LOO BOYS	69.00 m²
BLOCK Z 02: 10 SEAT ENVIRO-LOO GIRLS	69.00 m²

PHASE 02: RENOVATIONS	
PHASE 02 HOARDING	
BLOCK EX-C1: 4 CLASSROOM BLOCK	290.00 m²
BLOCK EX-C2: 2 CLASSROOM BLOCK	194.00 m²
BLOCK EX-C3: 3 CLASSROOM BLOCK	222.00 m²
BLOCK EX-C5: 4 CLASSROOM BLOCK	290.00 m²
BLOCK EX-T1: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T2: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T3: 4 SEAT ENVIRO-LOO GIRLS	22.00 m²
BLOCK EX-T4: 4 SEAT ENVIRO-LOO	22.00 m²
BLOCK EX-T5: 4 SEAT ENVIRO-LOO	22.00 m²
PHASE 02: DEMOLITIONS	
PHASE 02 HOARDING	
BLOCK EX-C4 : EXISTING 03 CLASSROOM	233.00 m²
BLOCK EX-MC 01 : MOBILE CLASSROOM	67.00 m²
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BLOCK EX-MC 03 : MOBILE CLASSROOM	67.00 m²
BLOCK EX-PK : PARKING SHELTER	463.00 m²
BLOCK EX-PT 01 : EXISTING PIT LATRINE 04 SEATS	7.00 m²
BLOCK EX-PT 02 : EXISTING PIT LATRINE 10 SEATS	50.00 m²
BLOCK EX-F: EXISTING GATE HOUSE	7.00 m²

SCHEDULE OF AREA	
SANS 10400 CLIMATIC ZONE	ZONE 2
SANS 10400 BUILDING CLASSIFICATION	A3
TOTAL AREA OF EXISTING BUILDINGS	2,067.00 m²
TOTAL AREA OF BUILDINGS TO BE DEMOLISHED	961.00 m²
TOTAL AREA OF PROPOSED WALKWAYS	2231.60 m²
TOTAL AREA OF DRIVEWAY & PARKING	1504.50 m²
TOTAL PARKING PROVISION	36 BAYS
TOTAL PLOT AREA	59,906.9 m²
TOTAL PLOT PERIMETER	1020.9 m
PLOT AREA COVERAGE	5.33 %

FUNCTION LEGEND

- PLOT BOUNDARY
- TREE
- TAP
- 5000 mm BUILDING LINE
- BENCHMARK
- ELECTRICAL POLE
- BOREHOLE
- BUILDINGS TO BE RENOVATED
- BUILDING TO BE DEMOLISHED
- PROPOSED BUILDING
- PAVED PEDESTRIAN WALKWAY
- PAVED DRIVE-WAY
- FUTURE CONCRETE WALKWAY
- TRANSFORMER
- JOJO TANK

N

ISSUED FOR TENDER

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION: REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION: DOCUMENTATION & PROCUREMENT

DISCIPLINE: ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION: STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION: PROJECT PHASING SITE PLAN

DRG No.	D14-100-01	02/03	ITEM No.
DESIGN	SMTN	SMTN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/D14	0

TYPE 01 : IRON MONGERY FOR EXTERIOR DOORS

NOTES

LOCATION MEDIUM ADMINISTRATION & SMALL ADMINISTRATION - D01, D02 & D03

IMAGE	CODE	PRODUCT	FINISH	QTY	UNIT
	TH120 Cyl S.S	dormakaba Lever handle on rose with Cylinder escutcheons	Stainless Steel	1	Set
	D036S SS	dormakaba Cylinder Sash Lock. Case dimentions (mm) 116.5H x 78D. Forend dimentions (mm) 168H x 22W. Backset 57mm. Centres 61mm.	Stainless Steel	1	Each
	DDC106601 MK	dormakaba 66mm five pin Euro-profile Double Cylinder Master Keyed	Satin Nickel	1	Each
	D038R NP	dormakaba Rebate conversion kit for Euro Profile locks D036S, D037D.	Nickel Plated	1	Each
	BHD 150	Barrel bolt heavy duty 150 x 32mm	Satin Chrome	1	Each
	NBHD 150	Necked bolt heavy duty 150 x 32mm	Satin Chrome	1	Each
	CH 150	Cabin hook 150mm	Satin Chrome	2	Each
	DKP-430-200	dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	Stainless Steel	4	Each

TYPE 02 : IRON MONGERY FOR INTERIOR DOORS

NOTES

LOCATION MEDIUM ADMINISTRATION - D03 & D04 CLASSROOMS - D01& D02

IMAGE	CODE	PRODUCT	FINISH	QTY	UNIT
	DSC104301 MK	dormakaba 43mm five pin Euro-profile Single Cylinder Master Keyed	Satin Nickel	1	Each
	PHA3/S DD	dormakaba Three point locking panic bar - Double door - Door leaf 1000mm wide x 2270mm high (2101. 2104. 2104. 2201. PHX02. PHX04)		1	Set
	PHT3901	dormakaba Exterior access lock with lever handle (Cylinder not included)		1	Each
	CH 150	Cabin hook 150mm	Satin Chrome	2	Each
	DKP-430-200	dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	Stainless Steel	4	Each

TYPE 03 : IRON MONGERY FOR EXTERIOR DOORS - ABLUTIONS

NOTES

LOCATION ABLUTIONS - D01

IMAGE	CODE	PRODUCT	FINISH	QTY	UNIT
	TS91B	dormakaba NON HOLD OPEN Cam action slide channel door closer. Max door width 950mm. Closing Force EN 3. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing.	Silver	1	Each
	DHP-430-BL 150X300	dormakaba DPH301C Pull Handle BT fixed on a 150x300x1.2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless Steel Plate to have 6 countersunk holes for screw fixing.	Stainless Steel	1	Each
	DPP-430-CR 150X300	dormakaba 150x300x1.2mm thick Grade 430 stainless steel plate with cylinder cutout right. Stainless Steel Plate to have 6 countersunk holes for screw fixing.	Stainless Steel	1	Each
	Fixing Screws	dormakaba Male / Female fixing screws (Qty 4 per pack)		1	Pack
	D037D SS	dormakaba Cylinder Deadlock. Case dimentions (mm) 116.5H x 78D. Forend dimentions (mm) 168H x 22W. Backset 57mm.	Stainless Steel	1	Each
	DSC104301 MK	dormakaba 43mm five pin Euro-profile Single Cylinder Master Keyed	Satin Nickel	1	Each
	DDS-NP-018	dormakaba Floor Mounted Door Stop	Nickel Plated	1	Each
	DKP-430-200	dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	Stainless Steel	2	Each

TYPE 04 : IRON MONGERY FOR TOILET CUBICLES - PARAPLEGIC

NOTES

LOCATION ABLUTIONS - D03 PARAPLEGIC

IMAGE	CODE	PRODUCT	FINISH	QTY	UNIT
	TS73V PA DC + Parallel Arm Bracket	dormakaba EN 2-4 Parallel Arm DELAYED ACTION Door Closer. Push Side Fixing (Parallel Arm Bracket Included) EN2 750-850, EN3 850-950, EN4 950-1100	Silver	1	Set
	DPH301B	dormakaba 325x25mm Straight Tubular Pull Handle Flange Fixing	Stainless Steel	2	Each
	DWC-006	dormakaba Disabled WC indicator (Red & White) and turnknob for physically impaired	Stainless Steel	1	Set
	D032D SS	dormakaba Bathroom Deadlock. Case dimentions (mm) 102H x 78D. Forend dimentions (mm) 155H x 22W. Backset 57mm.	Stainless Steel	1	Each
	DDS-NP-018	dormakaba Floor Mounted Door Stop	Nickel Plated	1	Each
	DKP-430-200	dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	Stainless Steel	2	Each
	DSS-133 P	dormakaba 150x150mm DISABLED PERSONS sign	Stainless Steel	1	Each

TYPE 05 : IRON MONGERY FOR TOILET CUBICLES

NOTES

LOCATION ABLUTIONS - D2 CUBICLE; MEDIUM & SMALL ADMINISTRATION D04 & ALL TOILET CUBICLES

IMAGE	CODE	PRODUCT	FINISH	QTY	UNIT
	DHP-430-BL 75X170	dormakaba DPH301C Pull Handle BT fixed on a 75x170x1.2mm thick Grade 430 stainless steel plate with no cylinder cutout. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Stainless Steel	1	Each
	DPP-430-BL 75X170	dormakaba 75x170x1.2mm thick Grade 430 stainless steel plate. Stainless Steel Plate to have 4 countersunk holes for screw fixing.	Stainless Steel	1	Each
	DWC-005	dormakaba Bathroom WC indicator (Red and White) and turnknob	Stainless Steel	1	Set
	Fixing Screws	dormakaba Male / Female fixing screws (Qty 4 per pack)		1	Pack
	D032D SS	dormakaba Bathroom Deadlock. Case dimentions (mm) 102H x 78D. Forend dimentions (mm) 155H x 22W. Backset 57mm.	Stainless Steel	1	Each
	DHC-SS-031B	dormakaba Hat and Coat Hook with rubber buffer	Stainless Steel	1	Each
	DKP-430-200	dormakaba 200x(width of door)x1.2mm thick Grade 430 stainless steel kick plate. Stainless Steel Kick Plate to have 10 countersunk holes for screw fixing. (List price calculated on 813mm wide door)	Stainless Steel	2	Each

N

ISSUED FOR TENDER

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION

REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE

ARCHITECTURAL | **4**

WORK DESCRIPTION - SUB DIVISION

STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION

IRON MONGERY SCHEDULE

DRG No.	D14-100-03	03/03	ITEM No.
DESIGN	SMTN	SMTN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

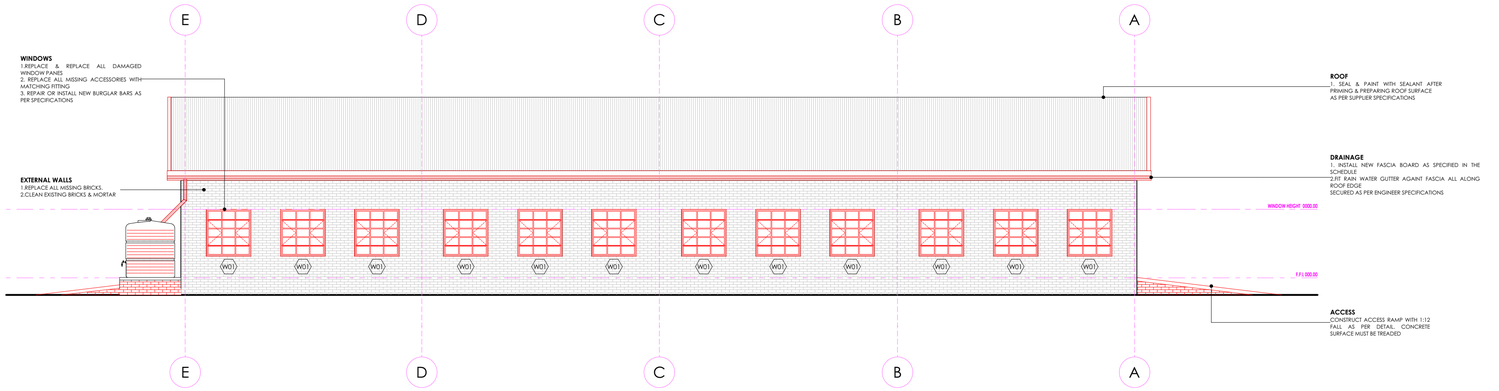
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

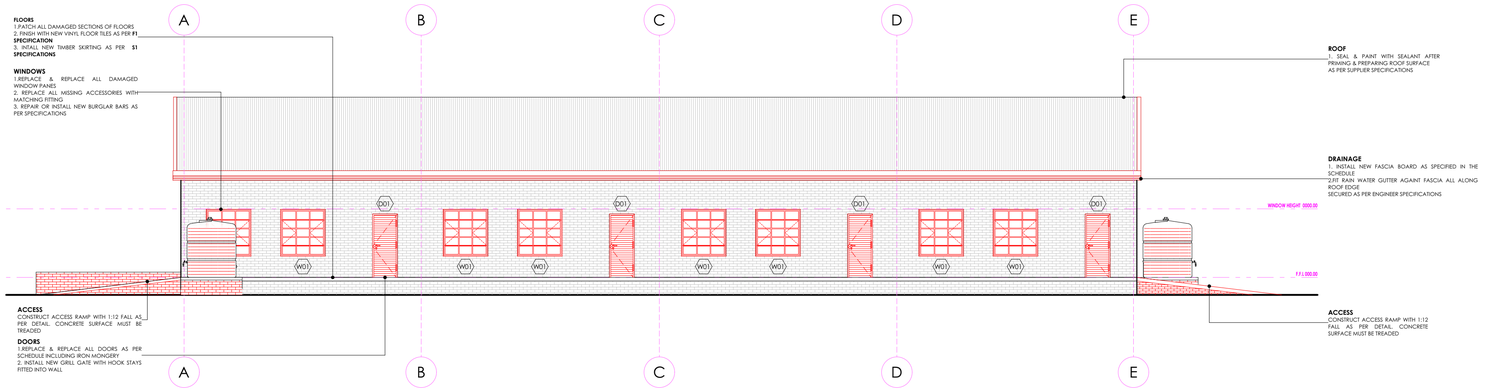
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



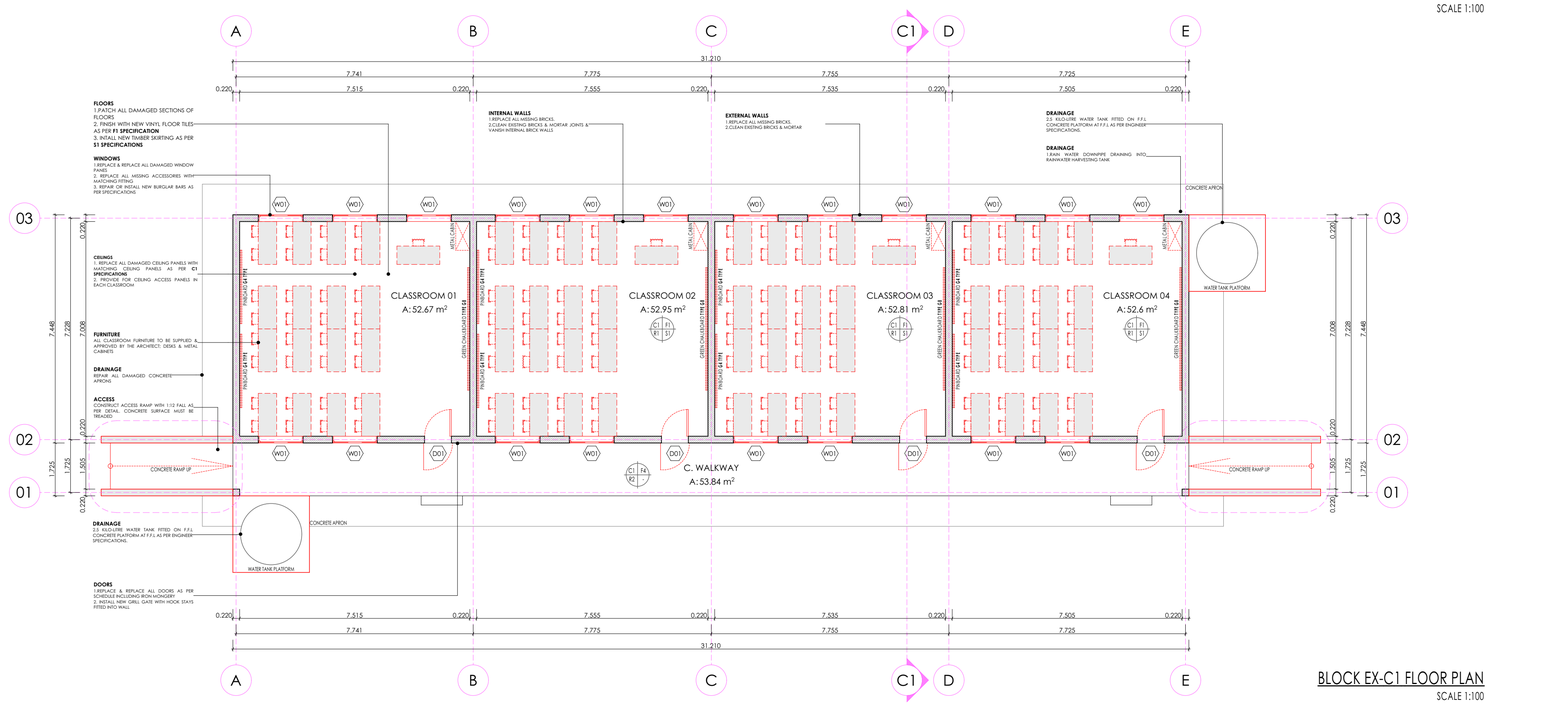
BLOCK EX-C1 REAR ELEVATION

SCALE 1:100



BLOCK EX-C1 FRONT ELEVATION

SCALE 1:100



BLOCK EX-C1 FLOOR PLAN

SCALE 1:100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS - STAGE 04

DRAWING DESCRIPTION
C1 PLAN | FRONT & REAR ELEVATION

DRG No.	D14-101-01	01/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR NUMBER
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DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

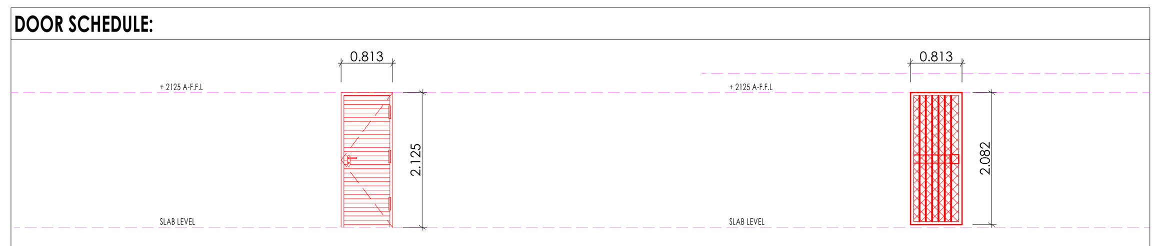
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

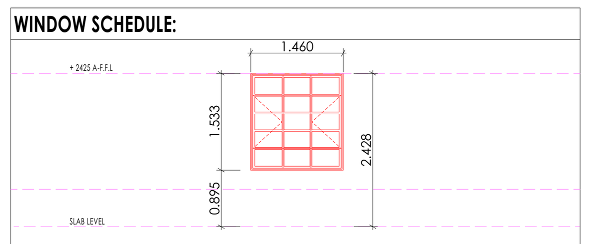
DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

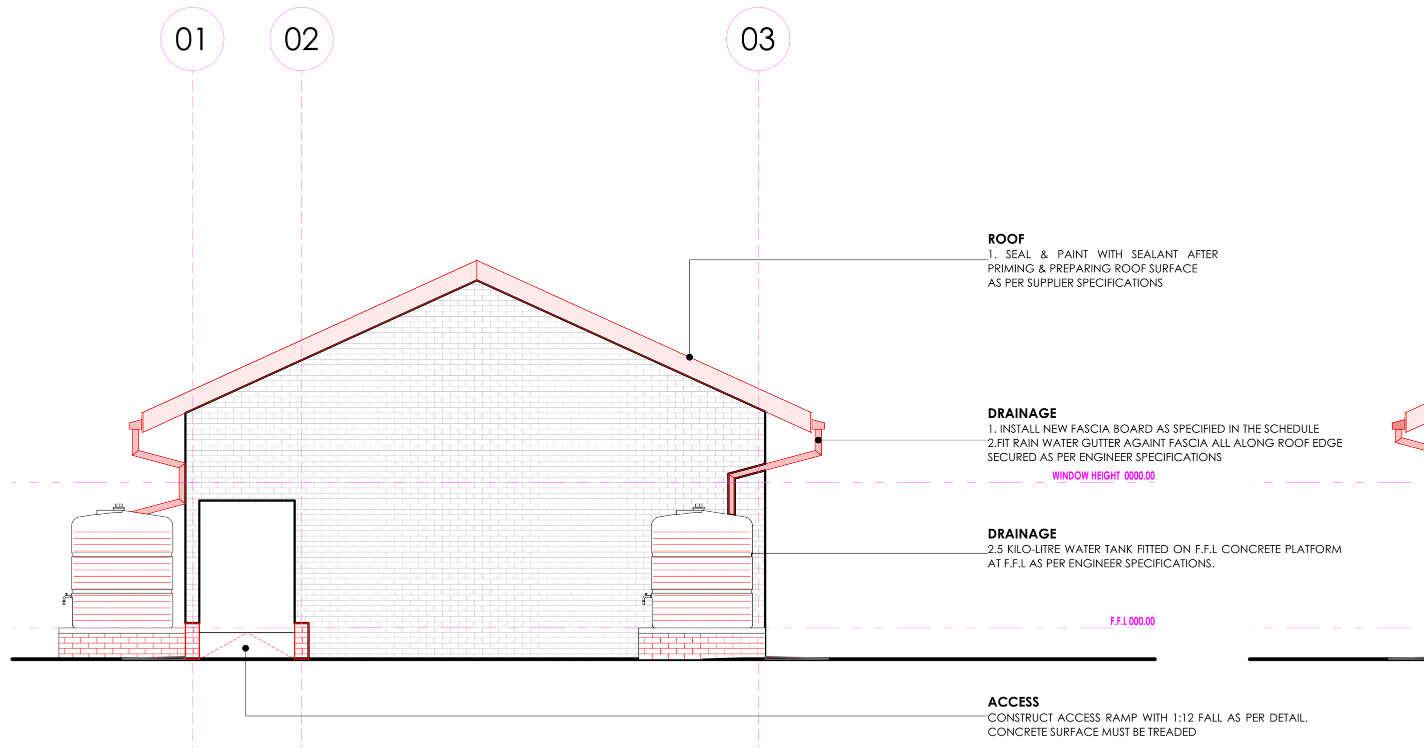
BLOCK EX-C1 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

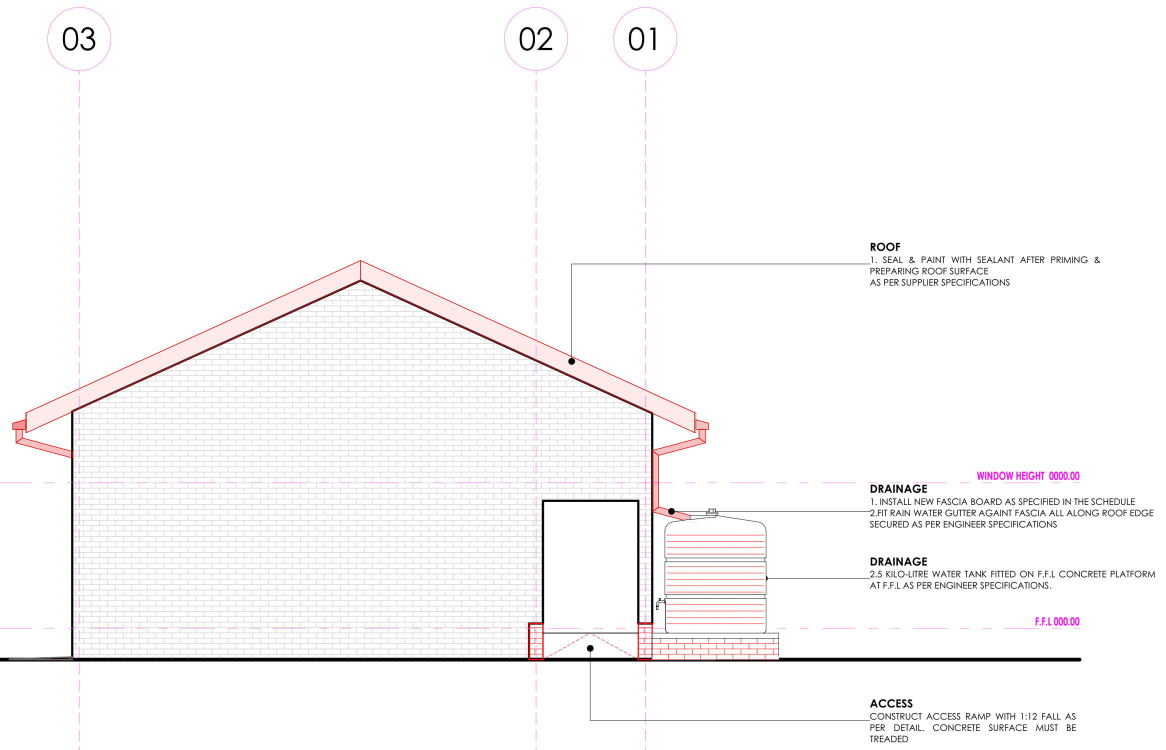


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

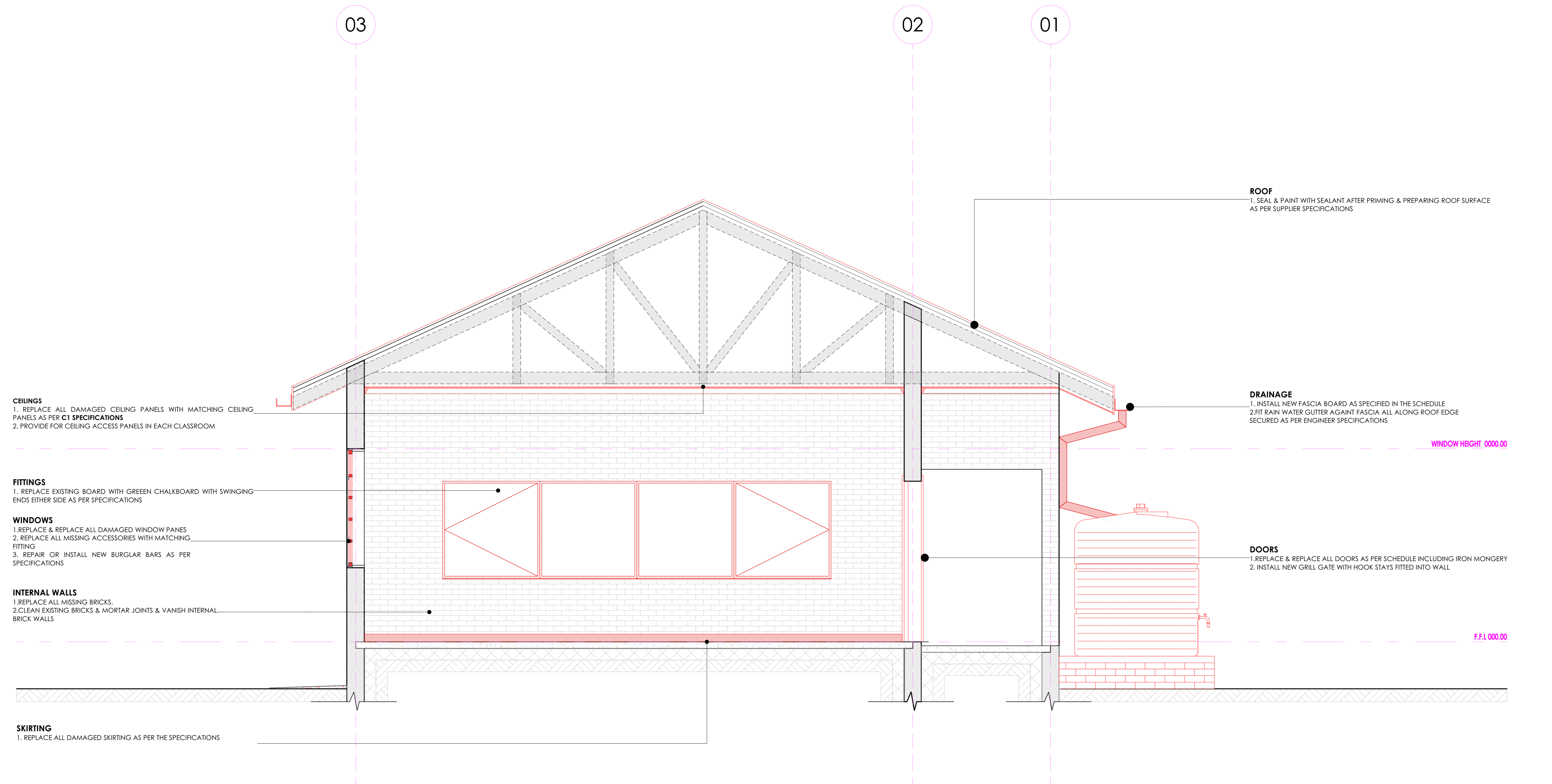
BLOCK EX-C1 WINDOW SCHEDULE
SCALE 1:100



BLOCK EX-C1 RIGHT ELEVATION
SCALE 1:100



BLOCK EX-C1 LEFT ELEVATION
SCALE 1:100



BLOCK EX-C1 SECTION C5
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

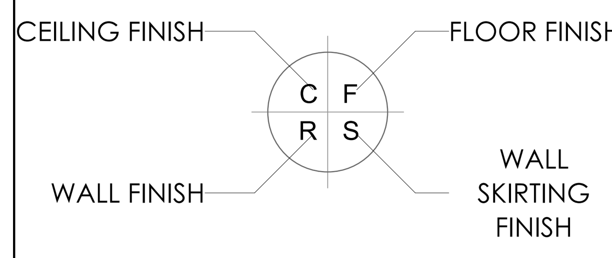
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY SCHOOL 925640189

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS
DRAWING DESCRIPTION
C1 SECTION |SIDES |SCHEDULES

DRG No.	D14-101-02	02/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT
TECTURA - INTERNATIONAL

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification 'RS', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "RS" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCell Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply , Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

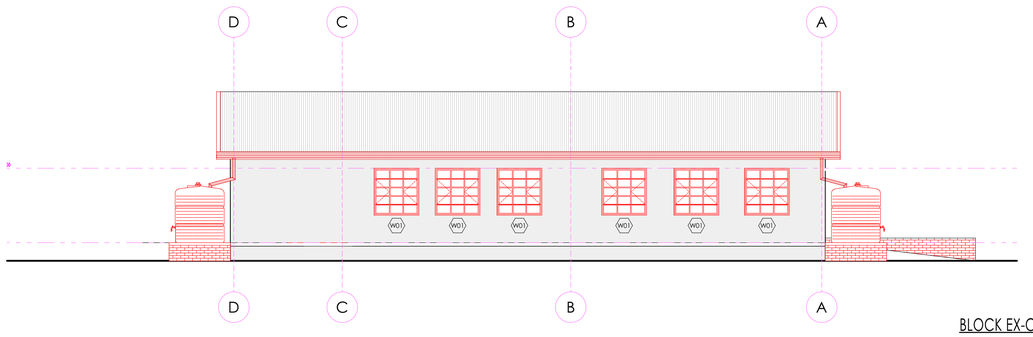
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

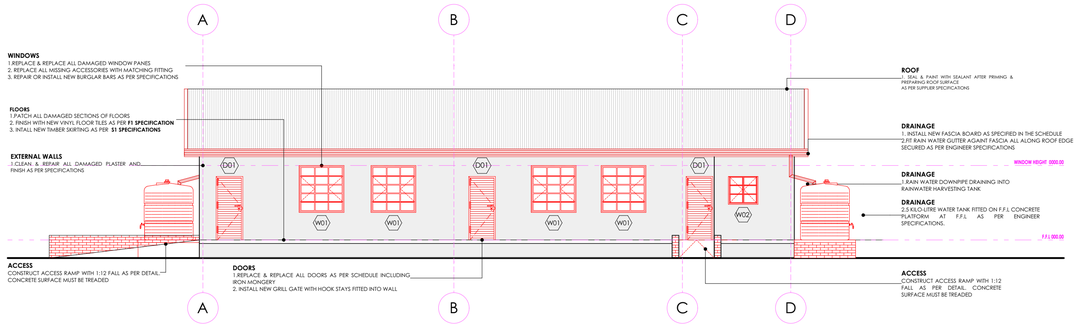
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



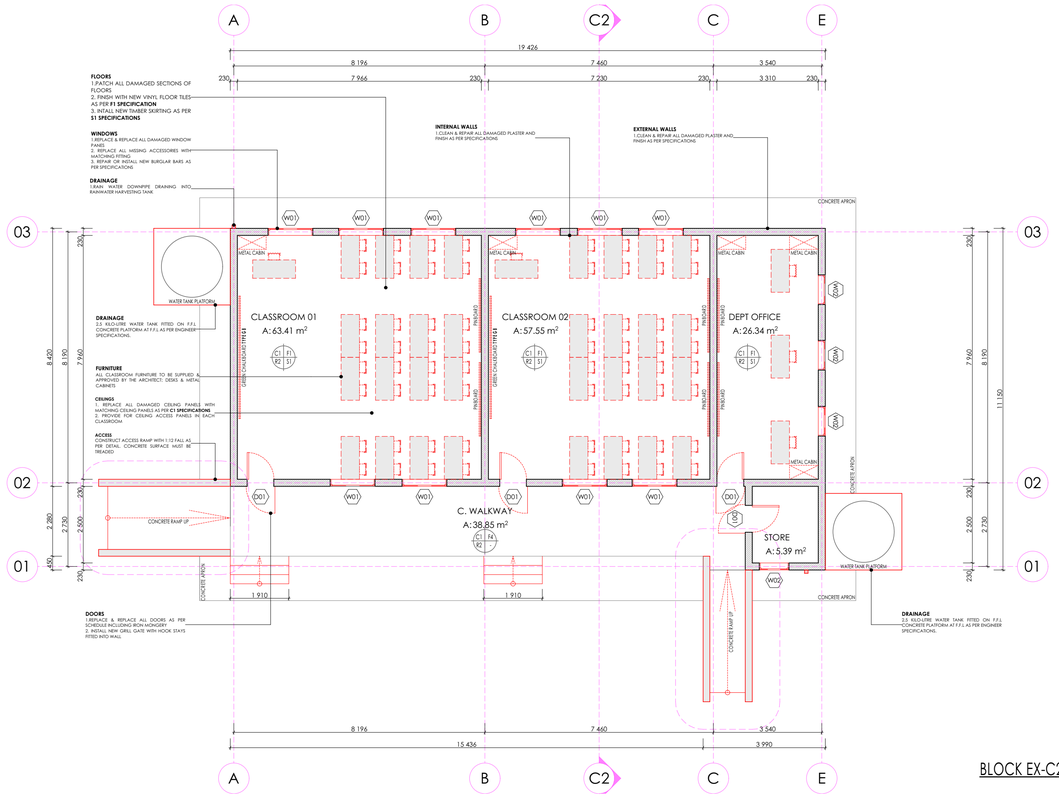
BLOCK EX-C2 REAR ELEVATION

SCALE 1:100



BLOCK EX-C2 FRONT ELEVATION

SCALE 1:100



BLOCK EX-C2 FLOOR PLAN

SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION

REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE

ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION

RENOVATION DRAWINGS

DRAWING DESCRIPTION

C2 PLAN |FRONT & REAR ELEVATION

DRG No.	D14-102-01	01/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification 'RS', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "RS" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCell Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply , Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

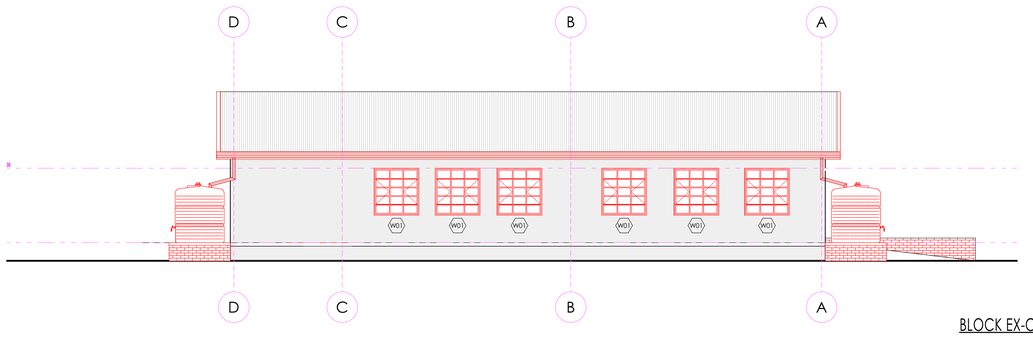
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

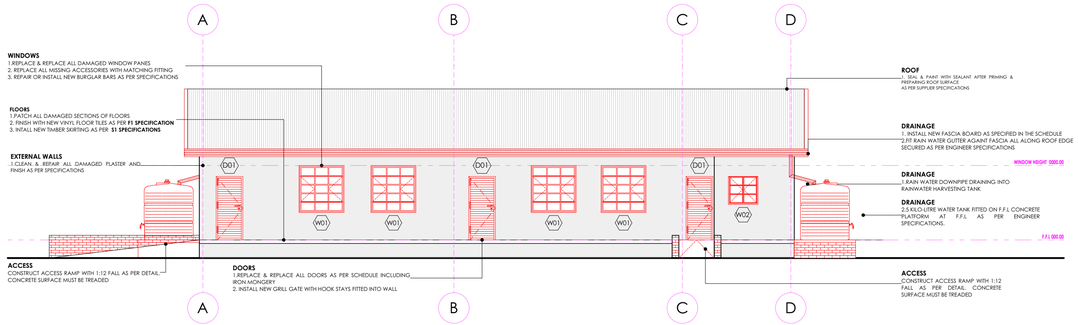
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



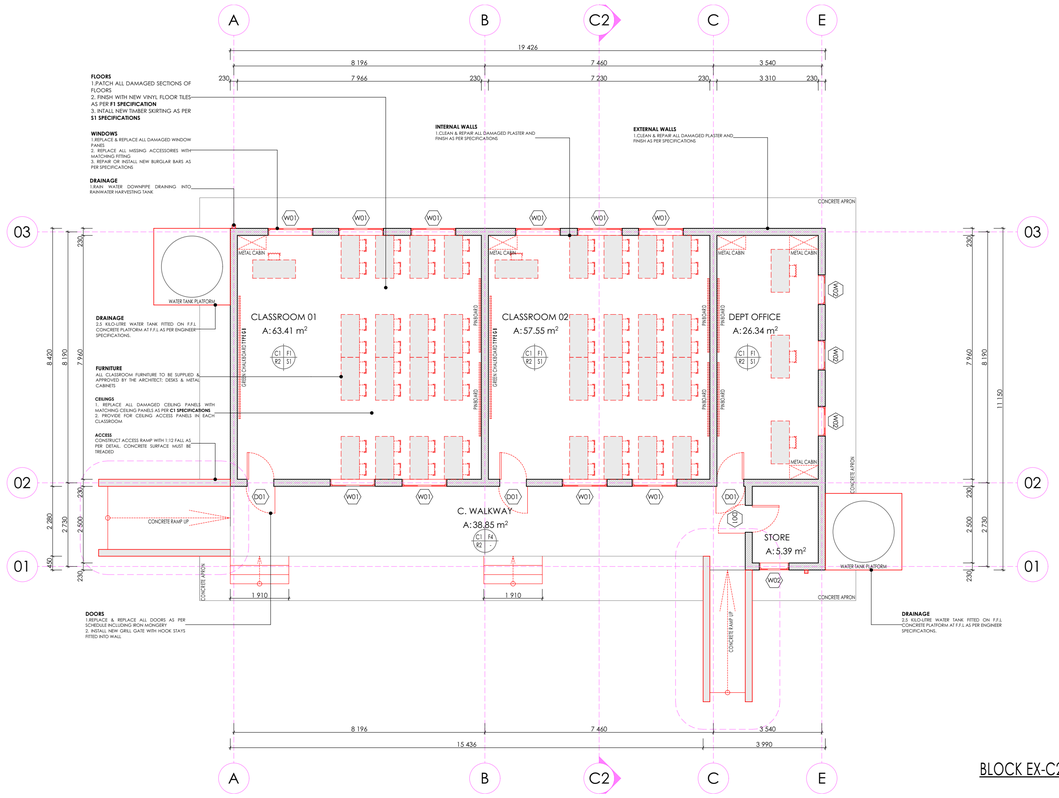
BLOCK EX-C2 REAR ELEVATION

SCALE 1:100



BLOCK EX-C2 FRONT ELEVATION

SCALE 1:100



BLOCK EX-C2 FLOOR PLAN

SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION

REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE

ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION

RENOVATION DRAWINGS

DRAWING DESCRIPTION

C2 PLAN |FRONT & REAR ELEVATION

DRG No.	D14-102-01	01/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA 's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification 'R5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCell Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

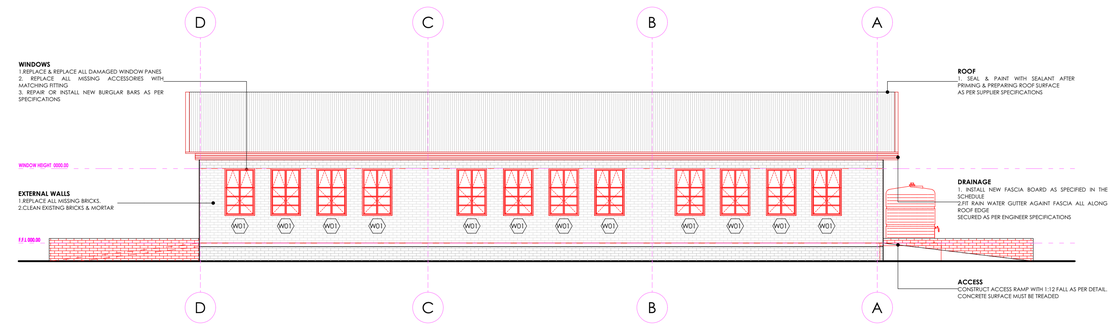
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

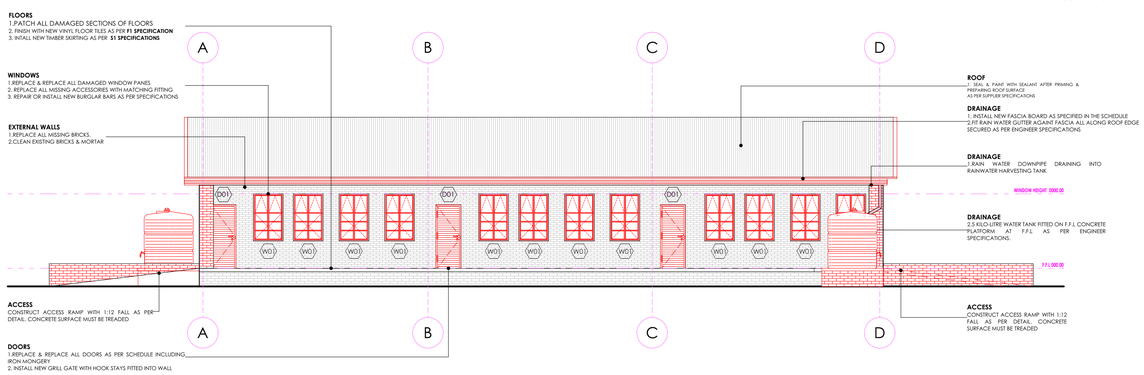
C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

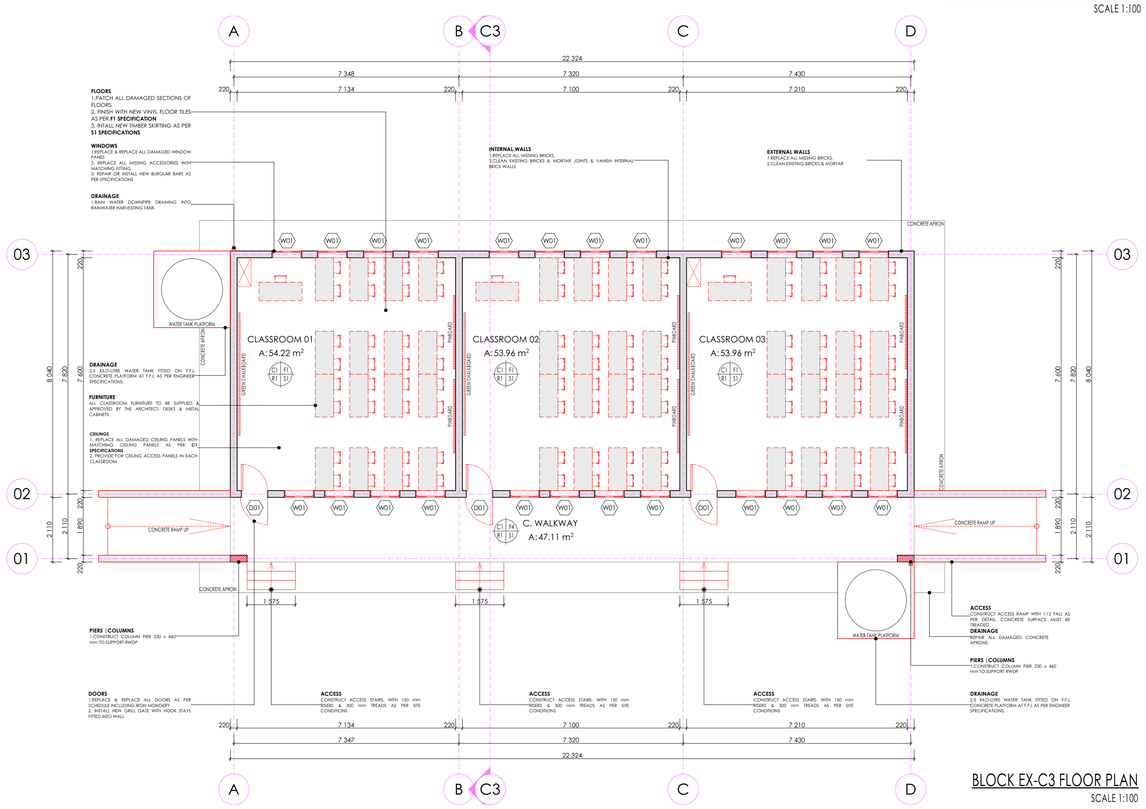
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S7). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder suppplied size 2400mm x 1200mm and 80kg/m3 and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



BLOCK EX-C3 REAR ELEVATION
SCALE 1:100



BLOCK EX-C3 FRONT ELEVATION
SCALE 1:100



BLOCK EX-C3 FLOOR PLAN
SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

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PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS

DRAWING DESCRIPTION
C3 PLAN | ELEVATIONS

DRG No.	D14-103-01	01/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

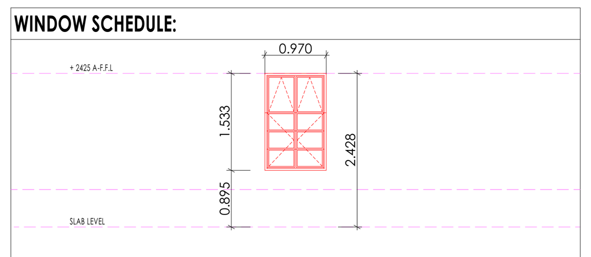
DOOR SCHEDULE:

EXTERIOR DOOR	
QUANTITY	03
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BURGLAR DOOR (SINGLE)	
QUANTITY	04
DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

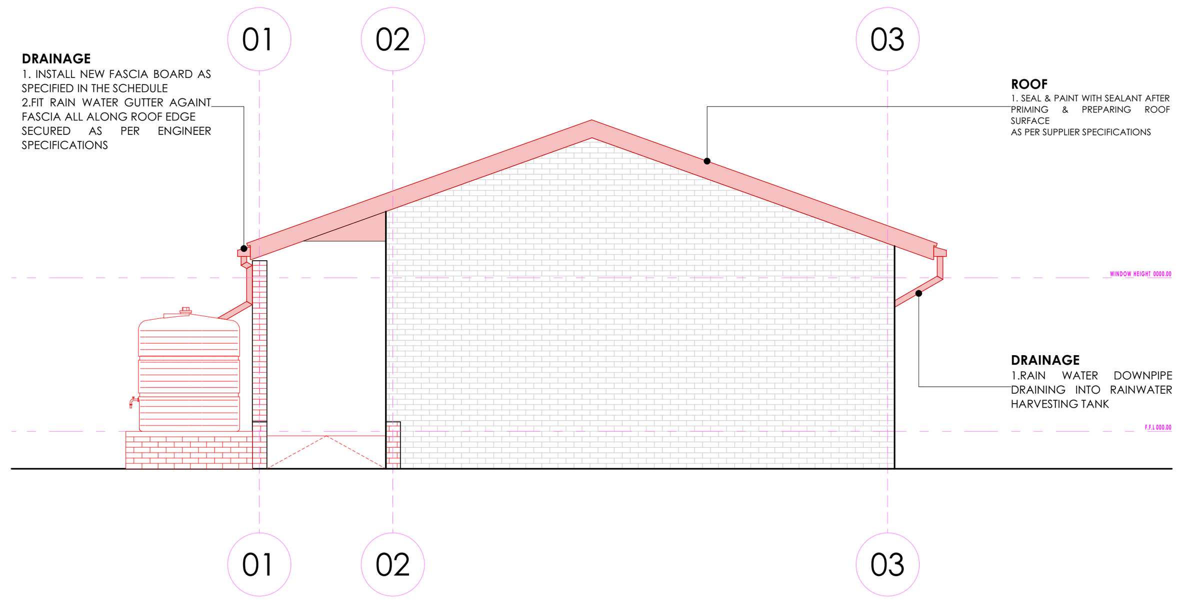
BLOCK EX-C3 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

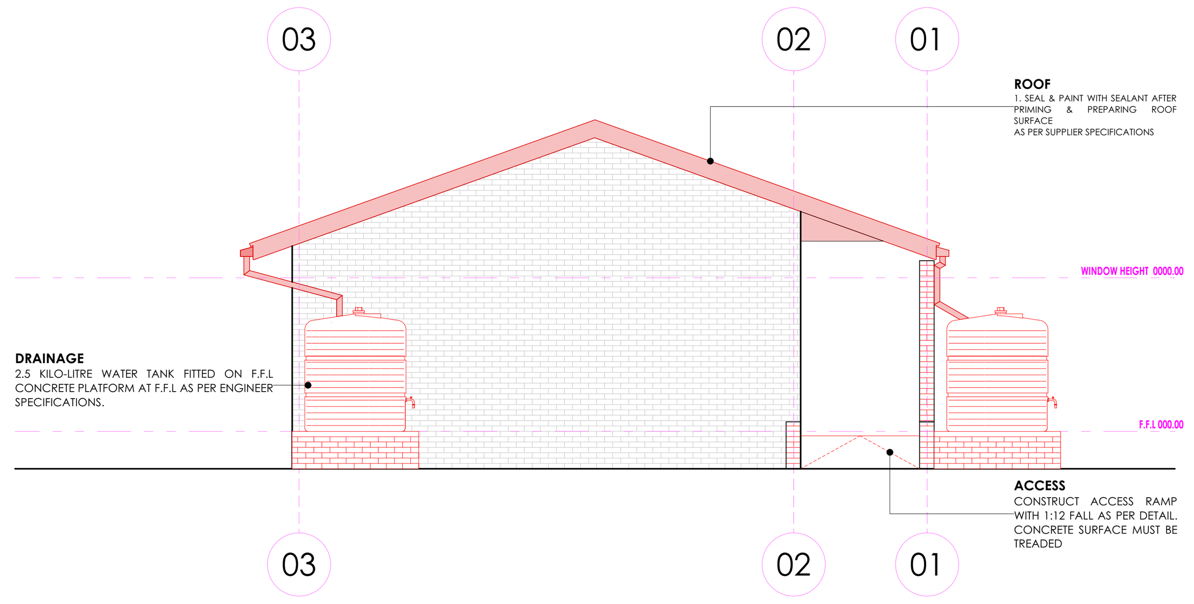


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

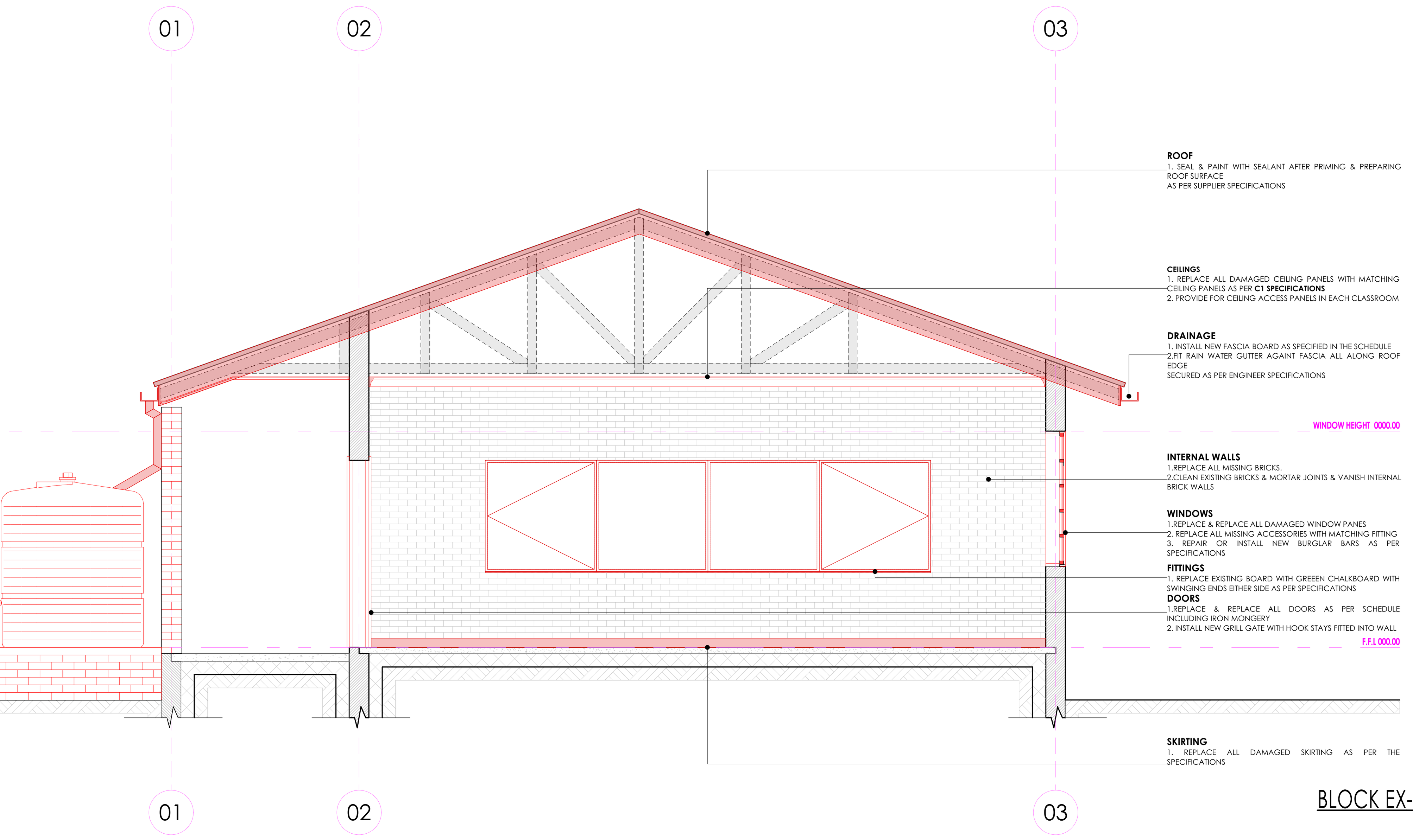
BLOCK EX-C3 WINDOW SCHEDULE
SCALE 1:100



BLOCK EX-C3 RIGHT ELEVATION
SCALE 1:100



BLOCK EX-C3 LEFT ELEVATION
SCALE 1:100



BLOCK EX-C3 SECTION - C3
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

BLOCK EX-C3 SECTION C3
SCALE 1:50

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

ISSUED FOR TENDER

LEGEND

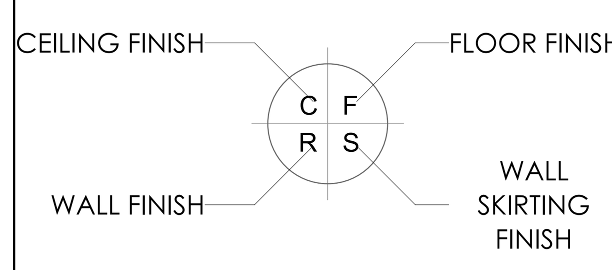
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS
DRAWING DESCRIPTION
C3 SECTION | SCHEDULES

DRG No.	D14-103-02	02/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/D14	D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm Thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCeil Classic' gypsum plasterboard ceilings/ **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber branderring installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber branderring installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab' 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

RR1: EMBOSSED ROOFING SHEET (TWO SIDES)

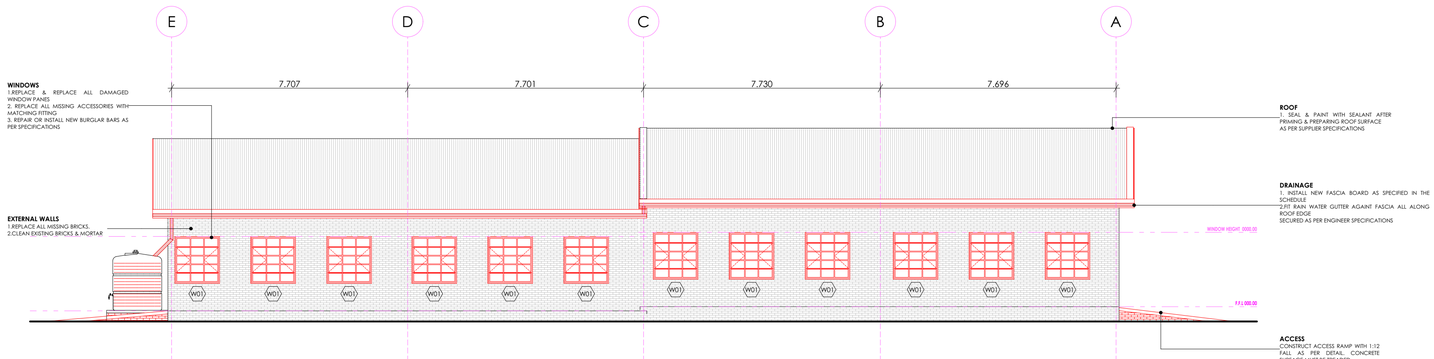
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

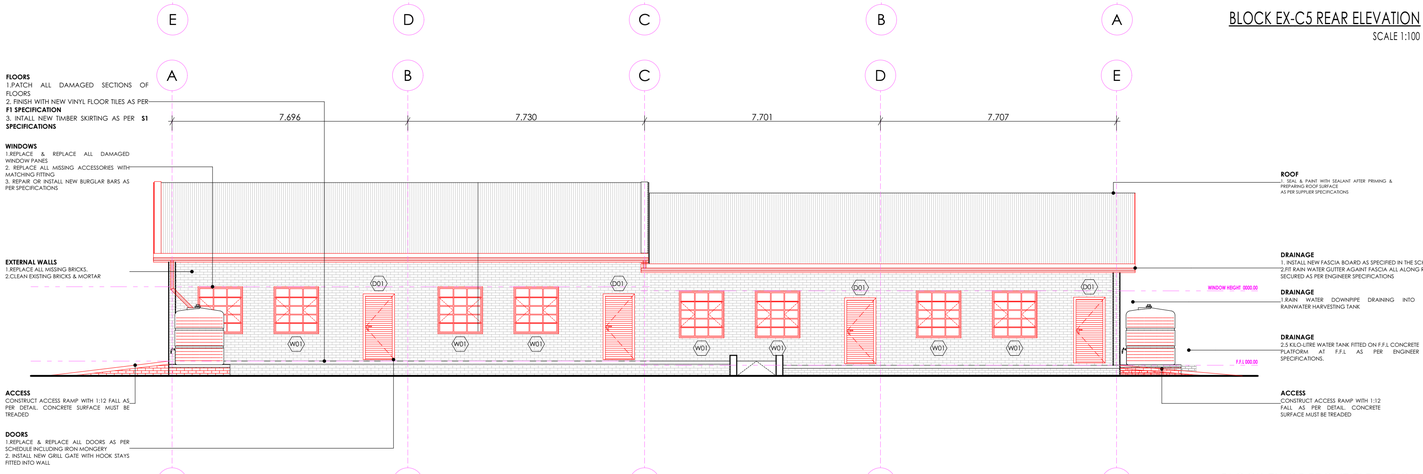
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



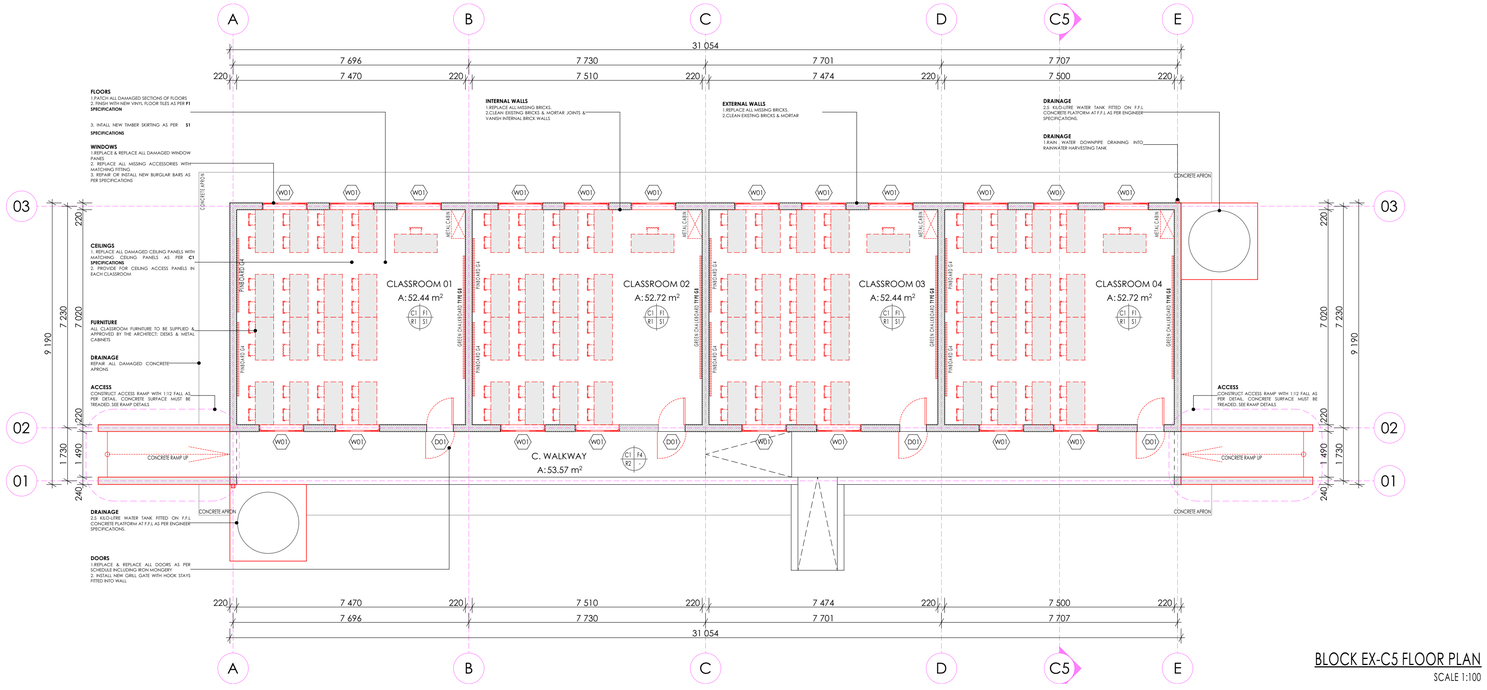
BLOCK EX-C5 REAR ELEVATION

SCALE 1:100



BLOCK EX-C5 FRONT ELEVATION

SCALE 1:100



BLOCK EX-C5 FLOOR PLAN

SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH — C F R S — WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF

PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION

REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE

ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION

RENOVATION DRAWINGS

DRAWING DESCRIPTION

C5 PLAN | FRONT & REAR ELEVATION

DRG No.	D14-105-01	01/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

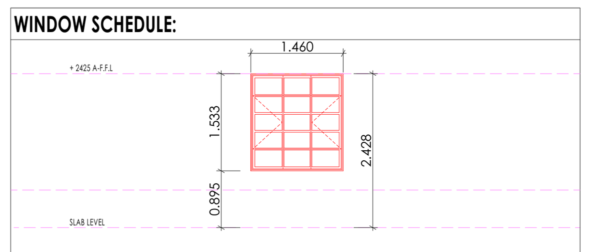
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

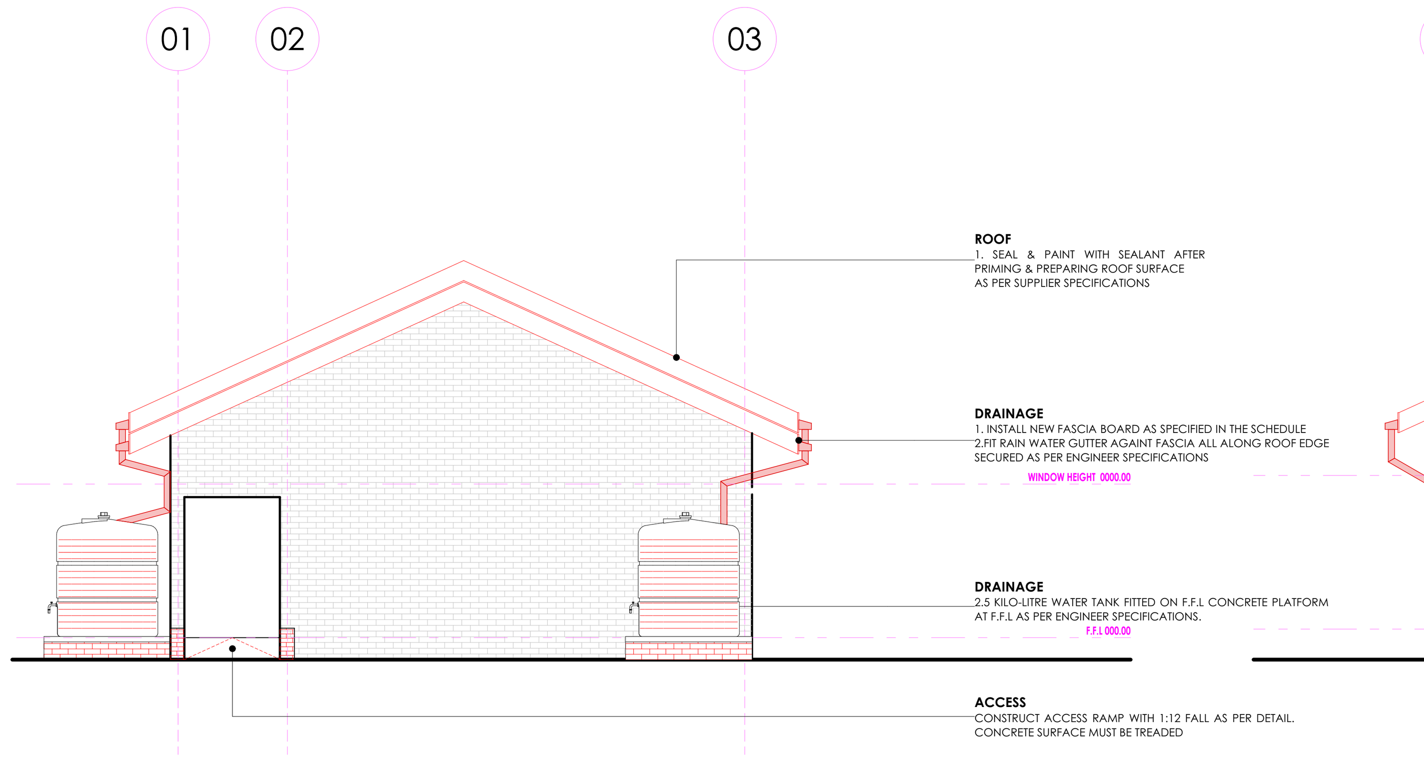
BLOCK EX-C5 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

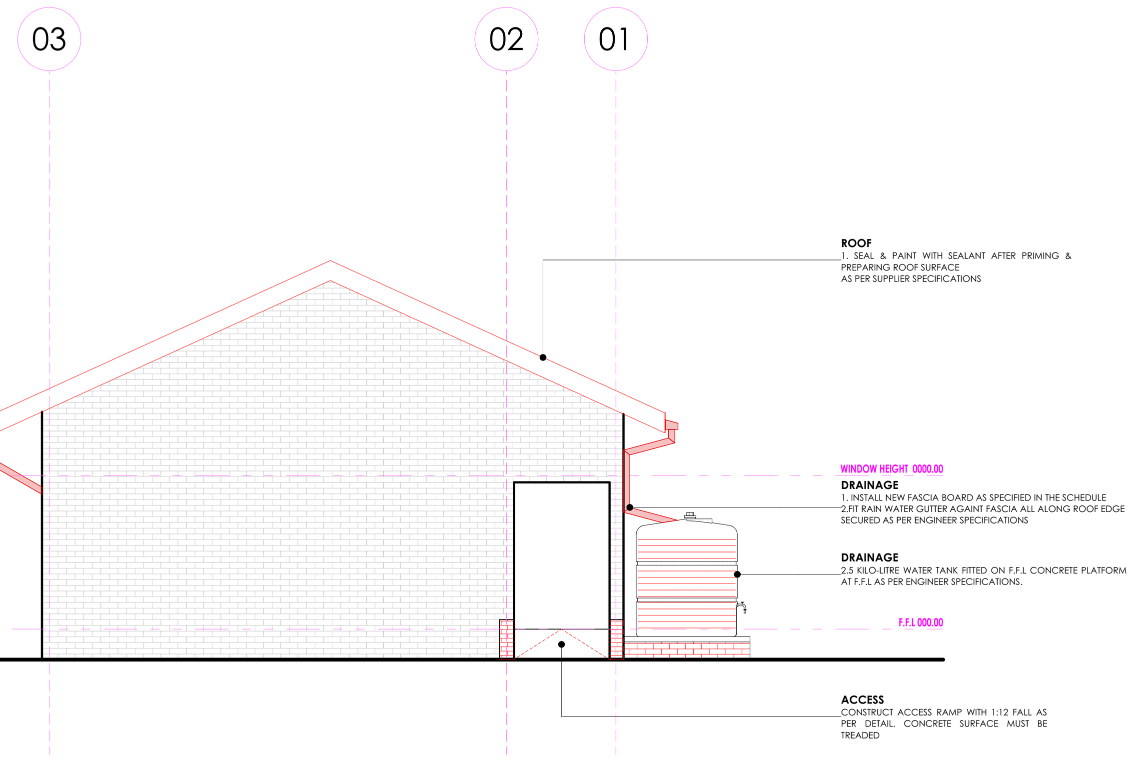


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

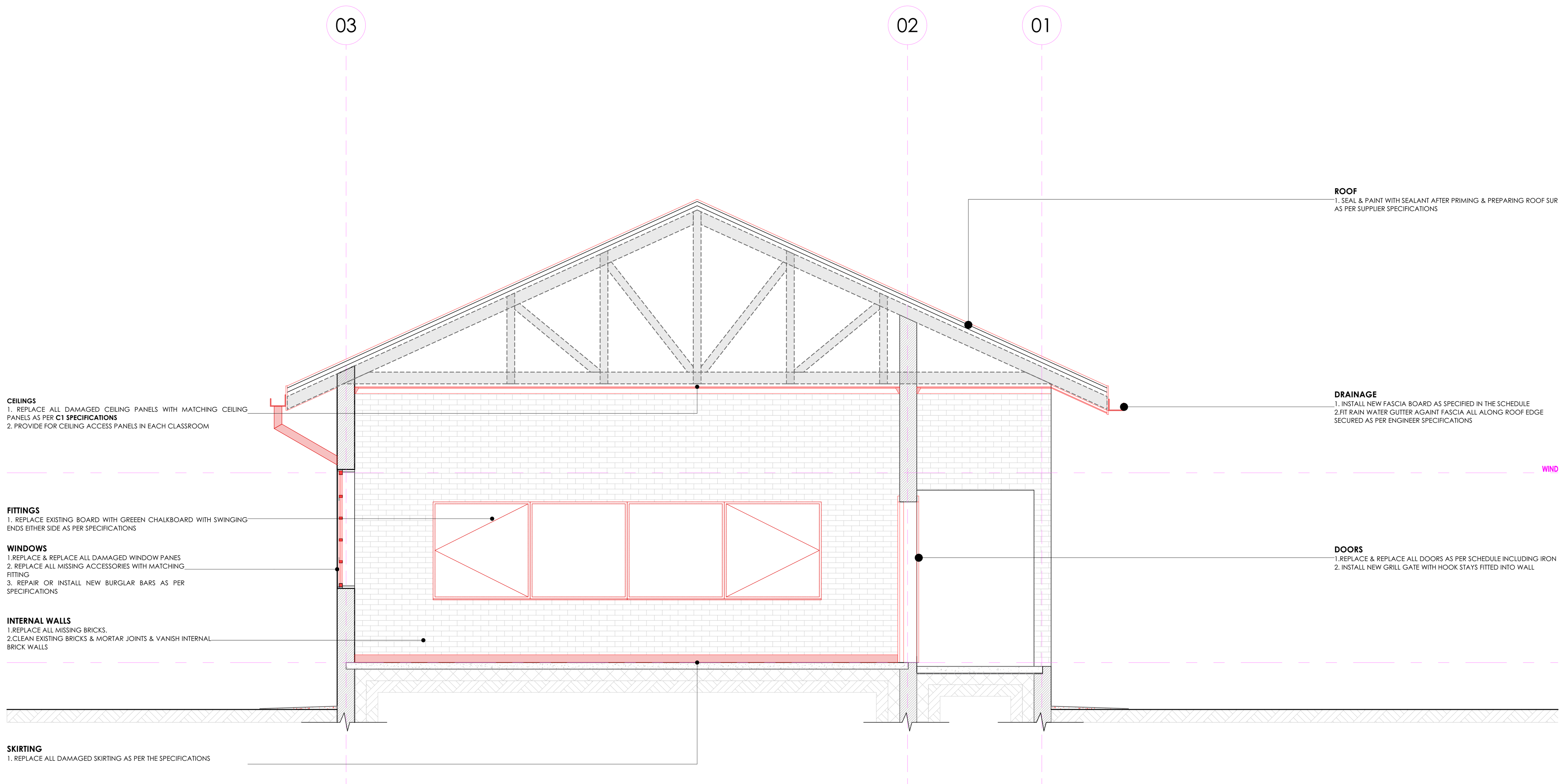
BLOCK EX-C5 WINDOW SCHEDULE
SCALE 1:100



BLOCK EX-C5 RIGHT ELEVATION
SCALE 1:100



BLOCK EX-C5 LEFT ELEVATION
SCALE 1:100



BLOCK EX-C5 SECTION C5
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

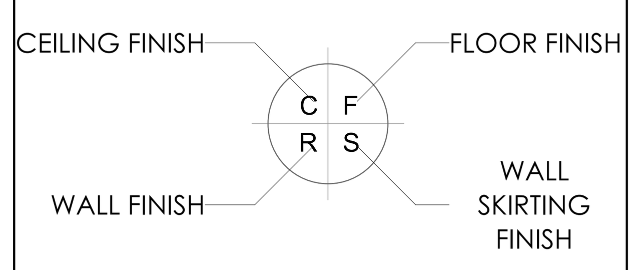
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
RENOVATION DRAWINGS
DRAWING DESCRIPTION
C5 SECTION | SIDES | SCHEDULES

DRG No.	D14-105-02	02/02	ITEM No.
DESIGN	NA	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		D

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

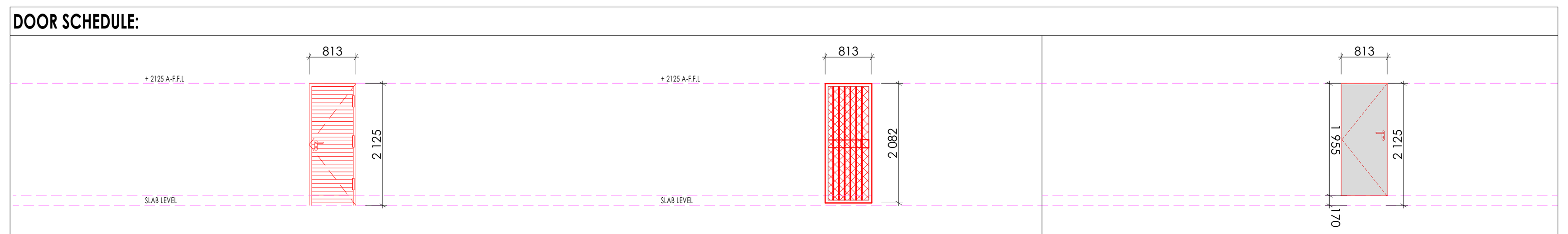
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	02	QUANTITY	02	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK EX-T1 DOOR SCHEDULE
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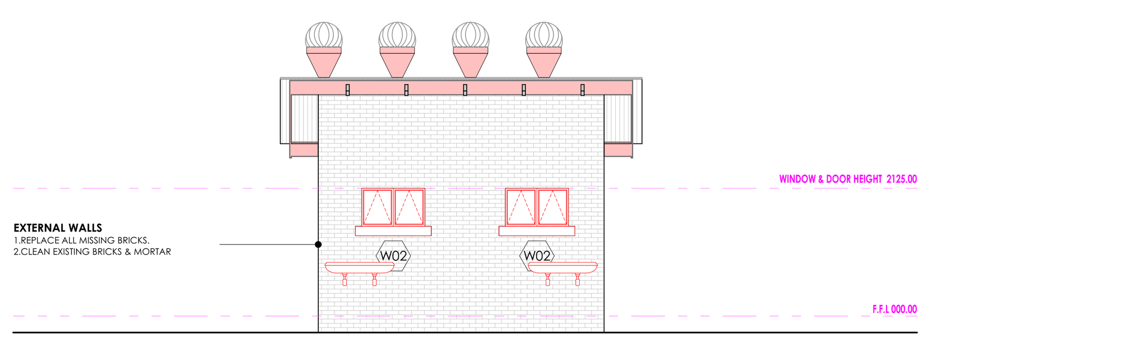
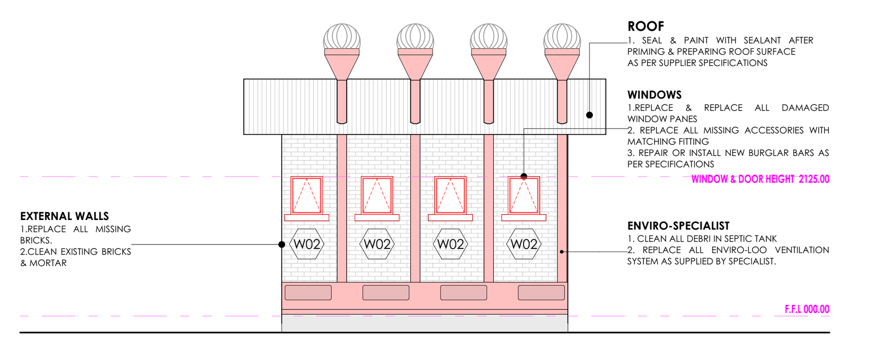
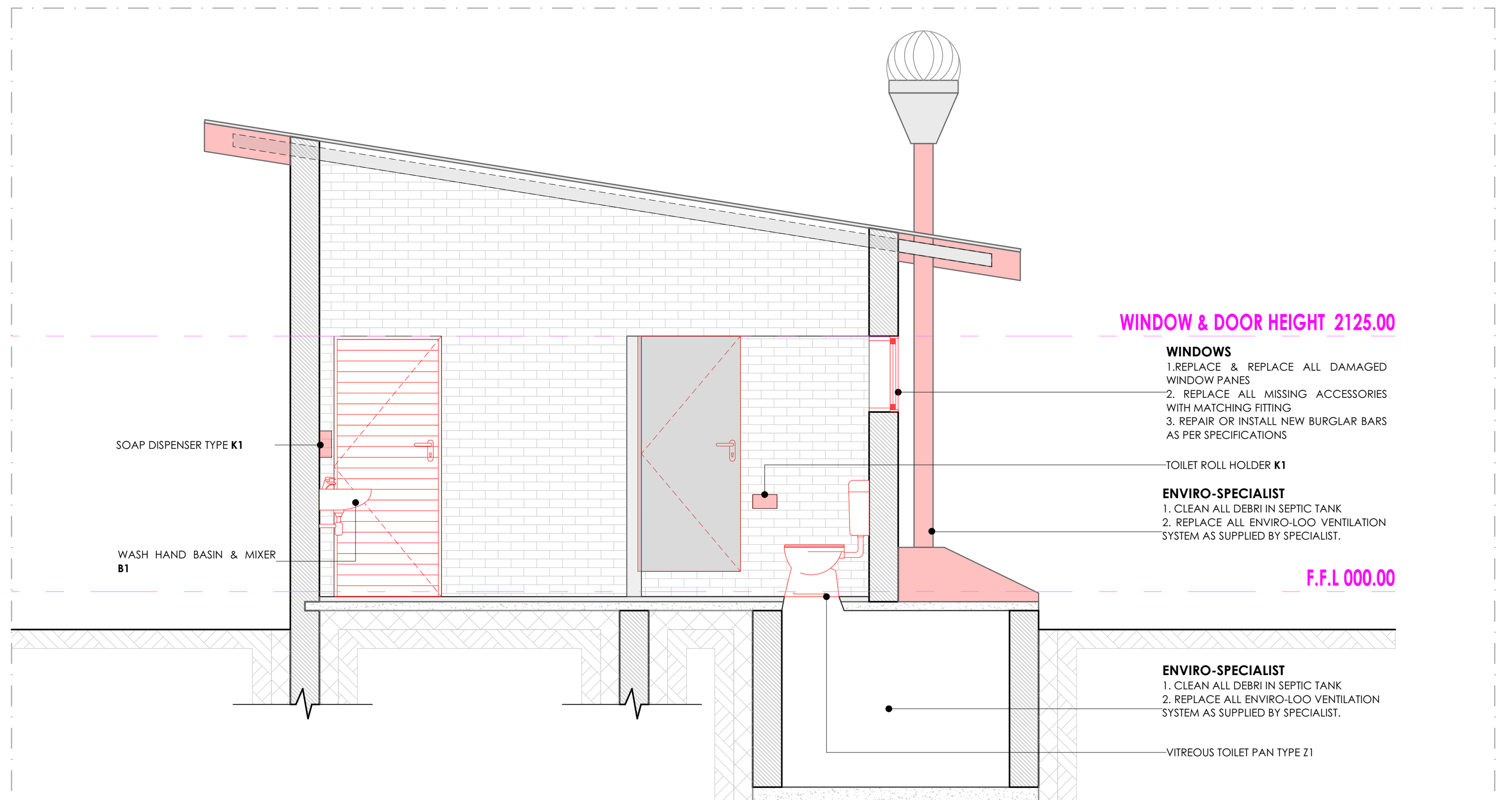


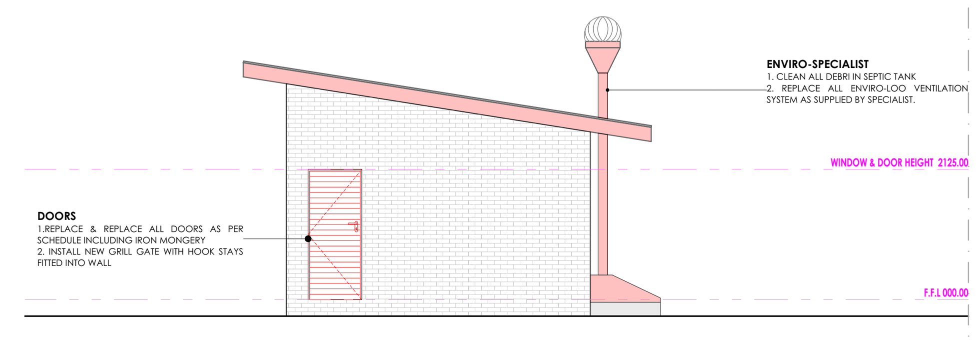
BLOCK EX-T1 FRONT ELEVATION
SCALE 1:100



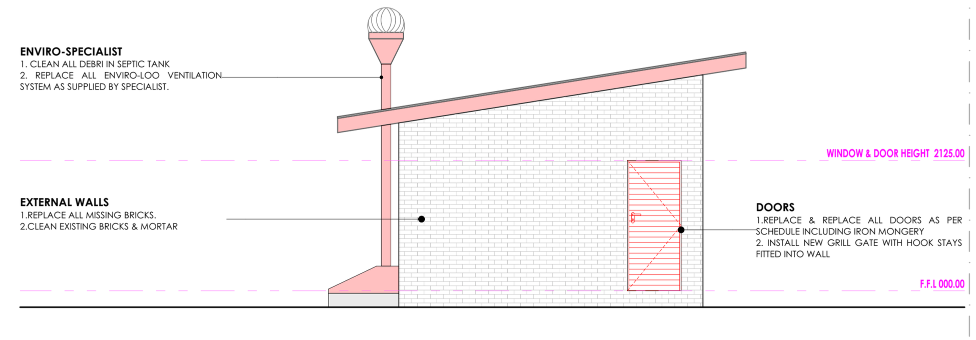
BLOCK EX-T1 REAR ELEVATION
SCALE 1:100



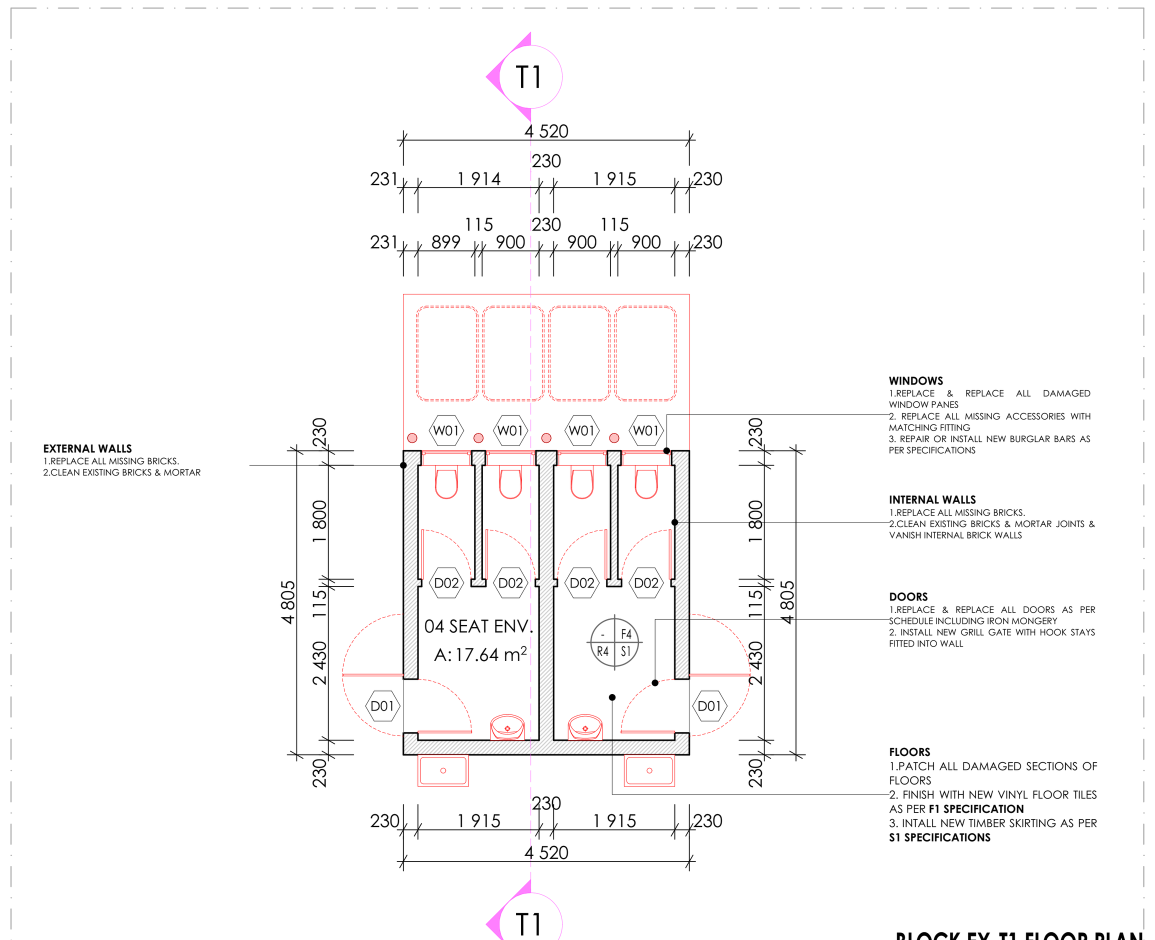
BLOCK EX-T1 SECTION T1
SCALE 1:50



BLOCK EX-T1 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T3 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T1 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:

W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-T1 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x430mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

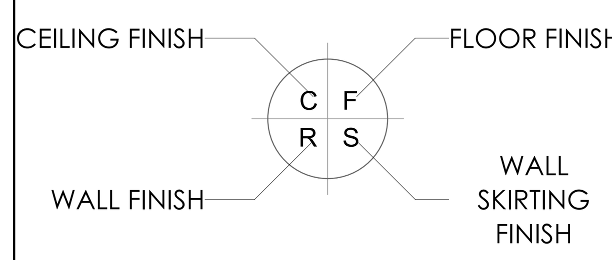
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
EX-T1 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-201-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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TECTURA - INTERNATIONAL

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA
ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

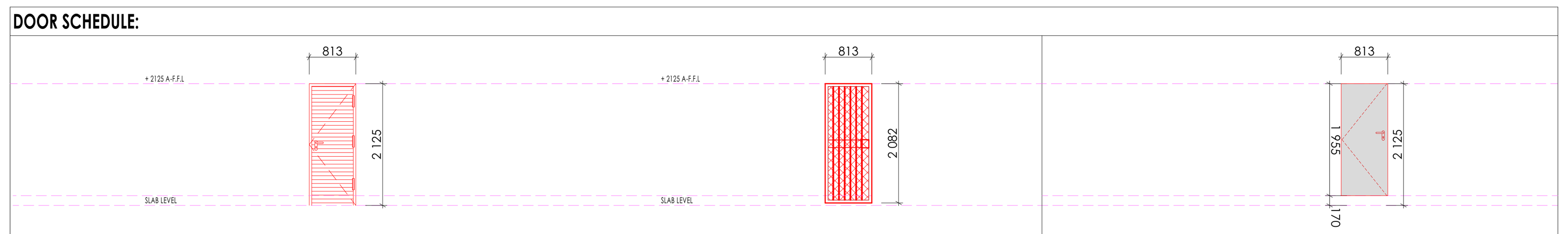
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

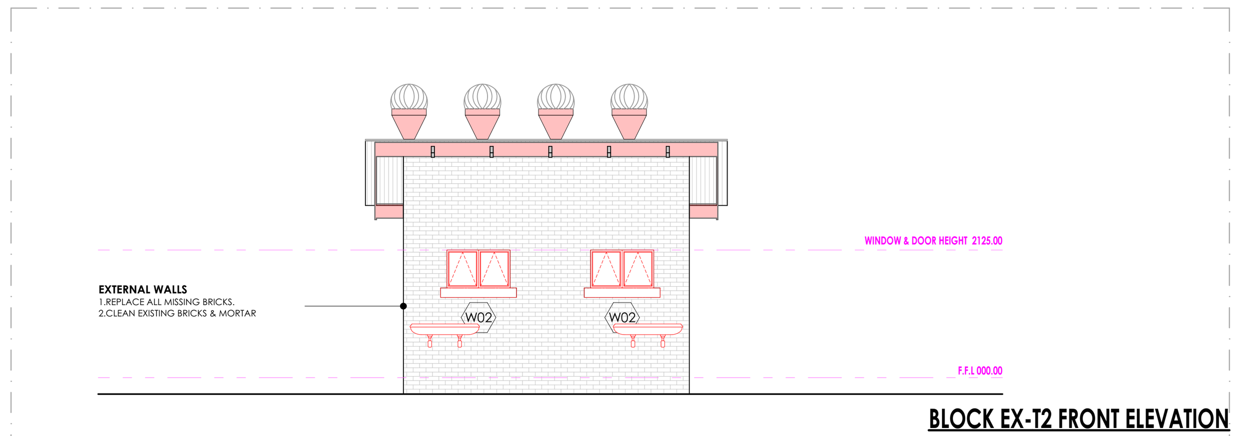
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	02	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK EX-T2 DOOR SCHEDULE
SCALE 1:100



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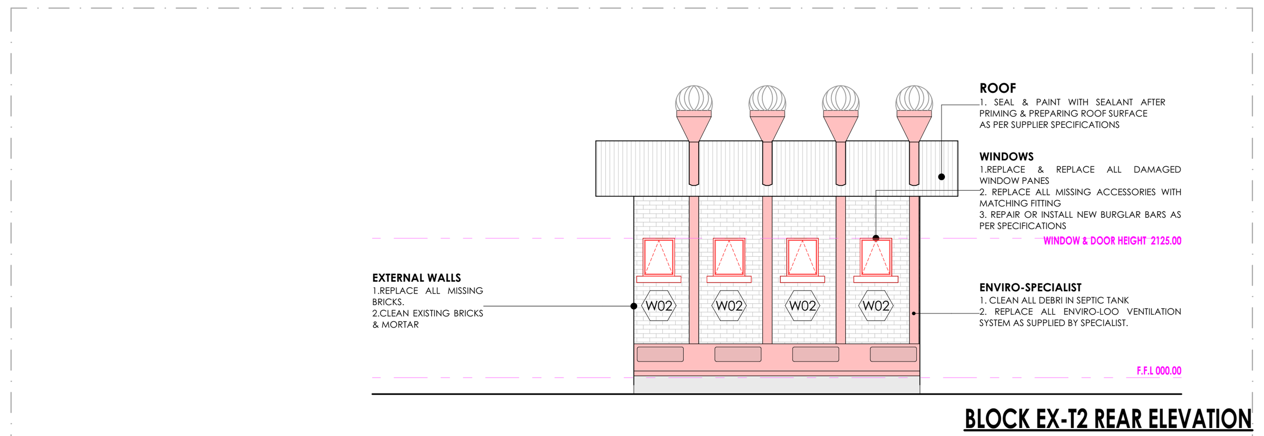
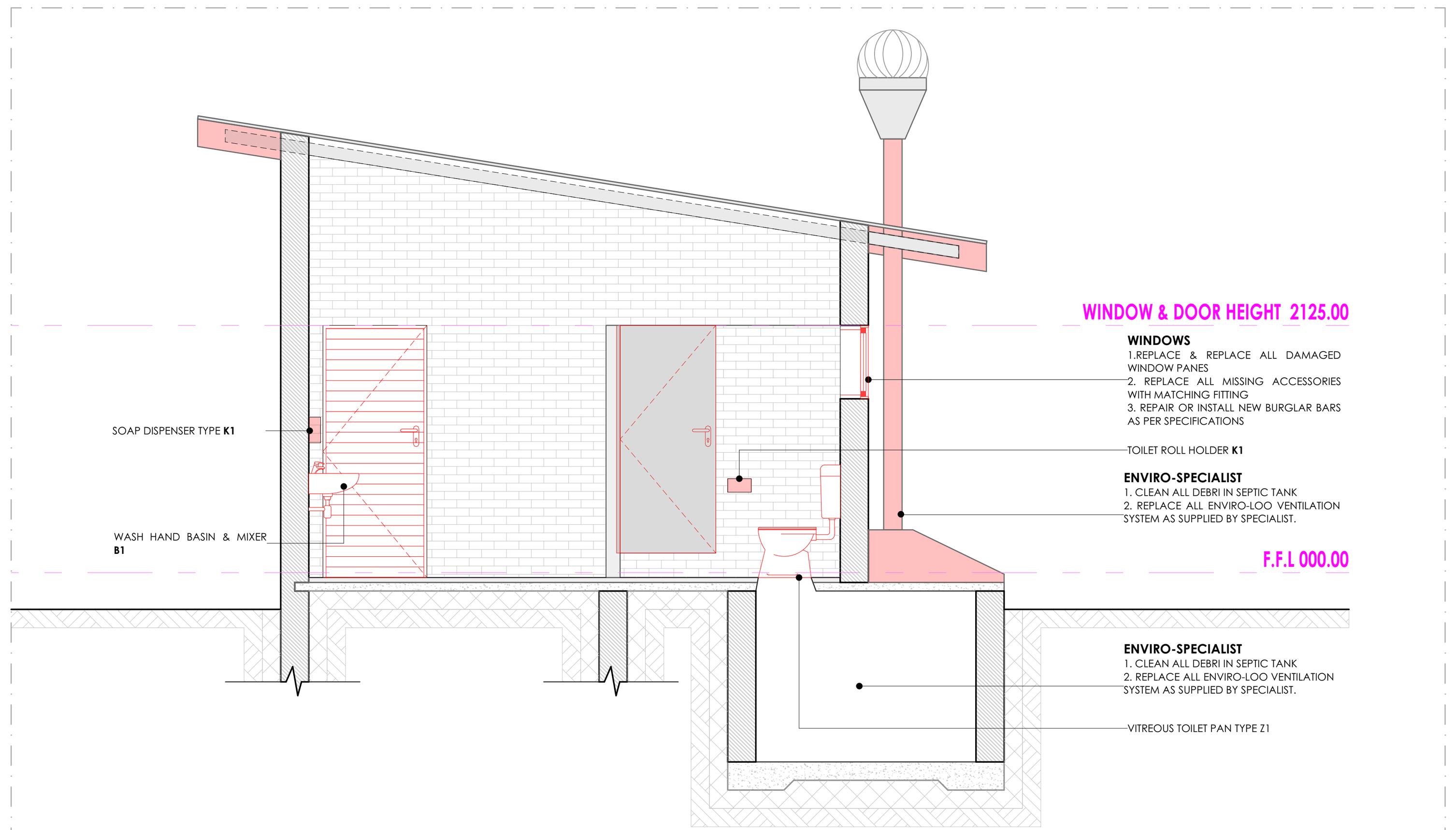
SCALE 1:100



BLOCK EX-T2 REAR ELEVATION
SCALE 1:100



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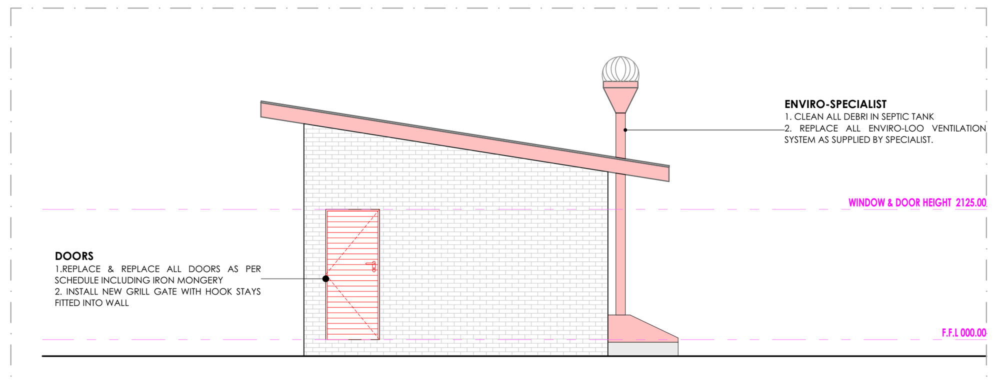
SCALE 1:50



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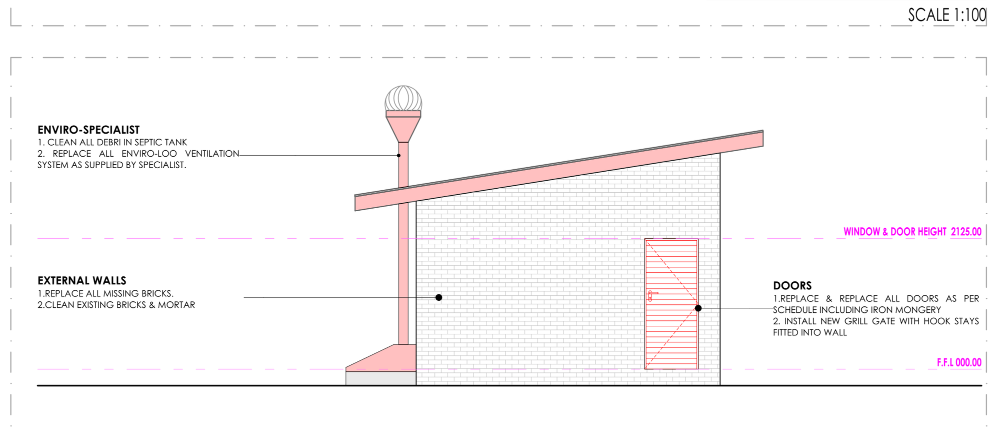
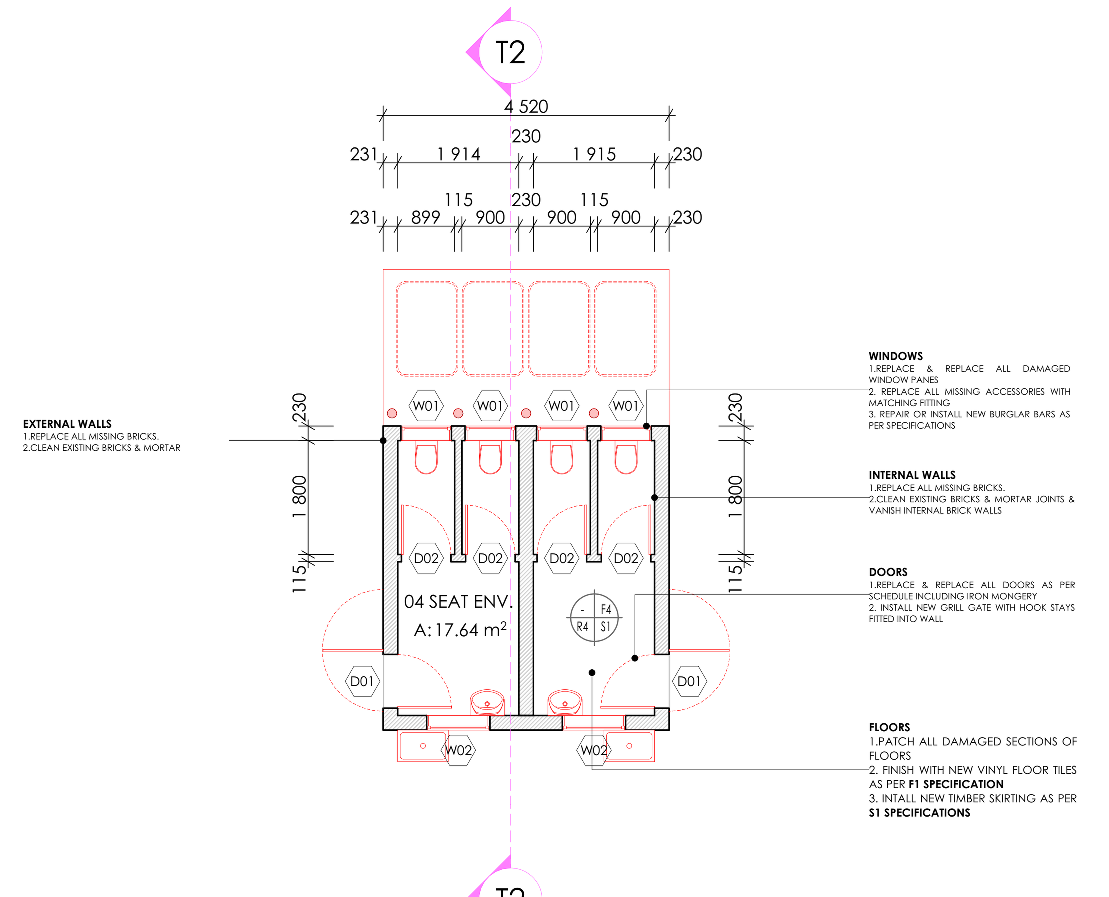
SCALE 1:100



BLOCK EX-T2 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T2 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:

W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-T2 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x430mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — C | FLOOR FINISH — F | WALL FINISH — R | WALL SKIRTING FINISH — S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION: REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION: DOCUMENTATION & PROCUREMENT

DISCIPLINE: ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION: STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION: EX-T2 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-202-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/D14	0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

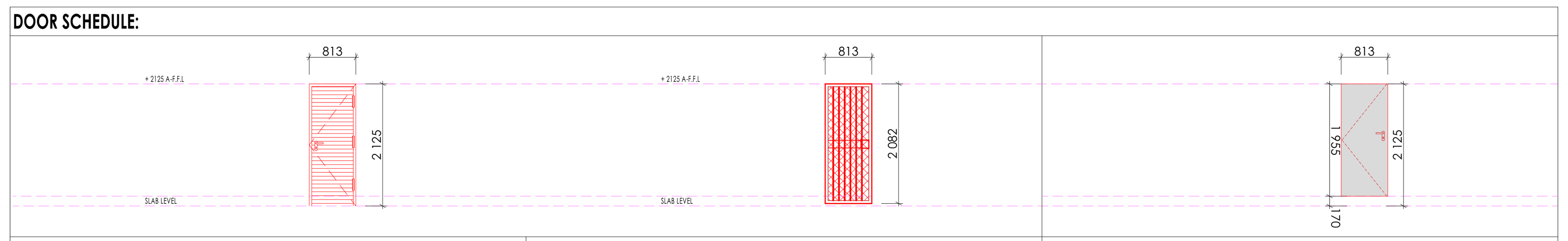
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

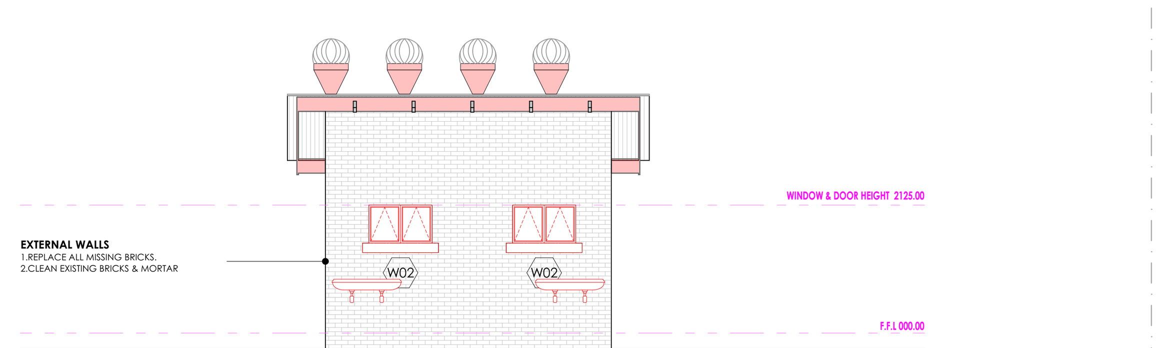
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	02	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK EX-T3 DOOR SCHEDULE
SCALE 1:100



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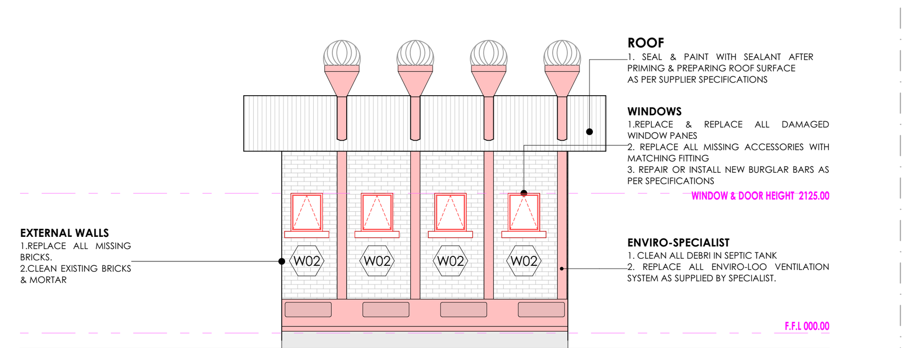

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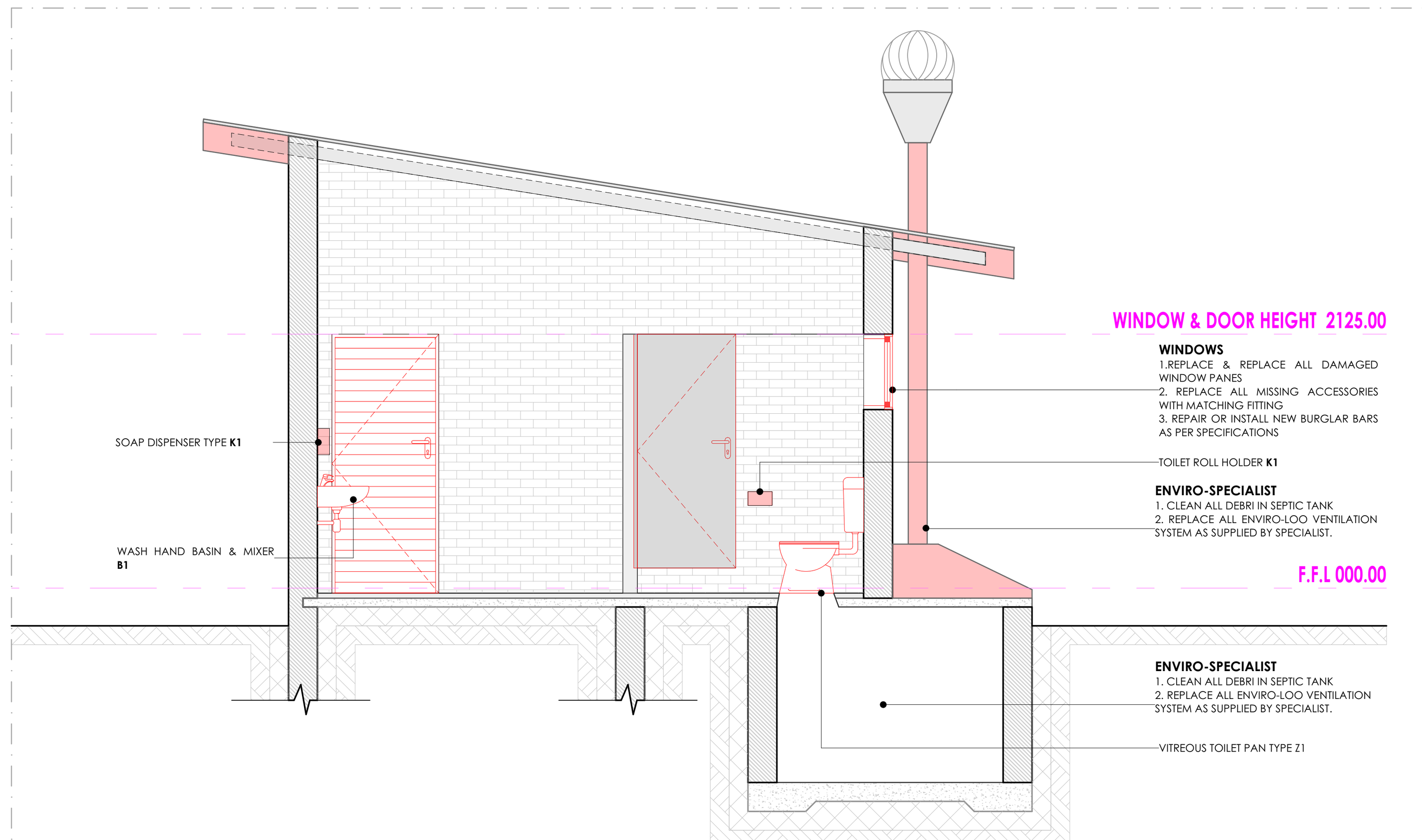
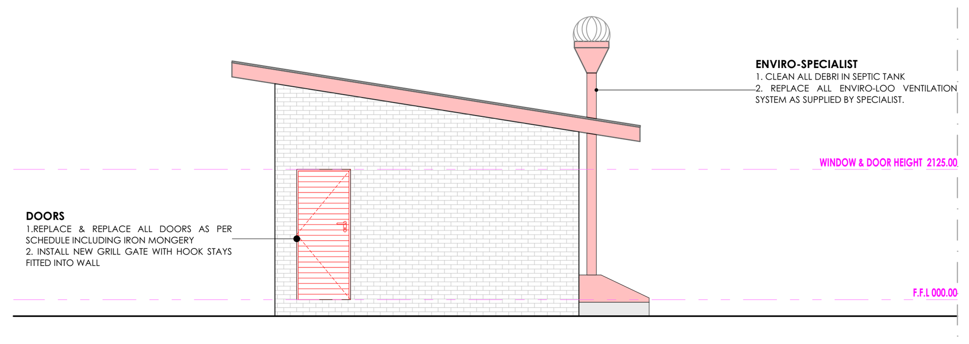


BLOCK EX-T3 SECTION T3
SCALE 1:50



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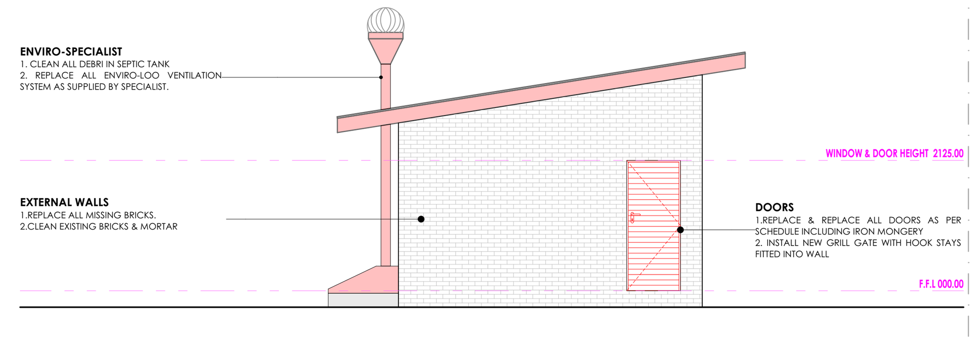
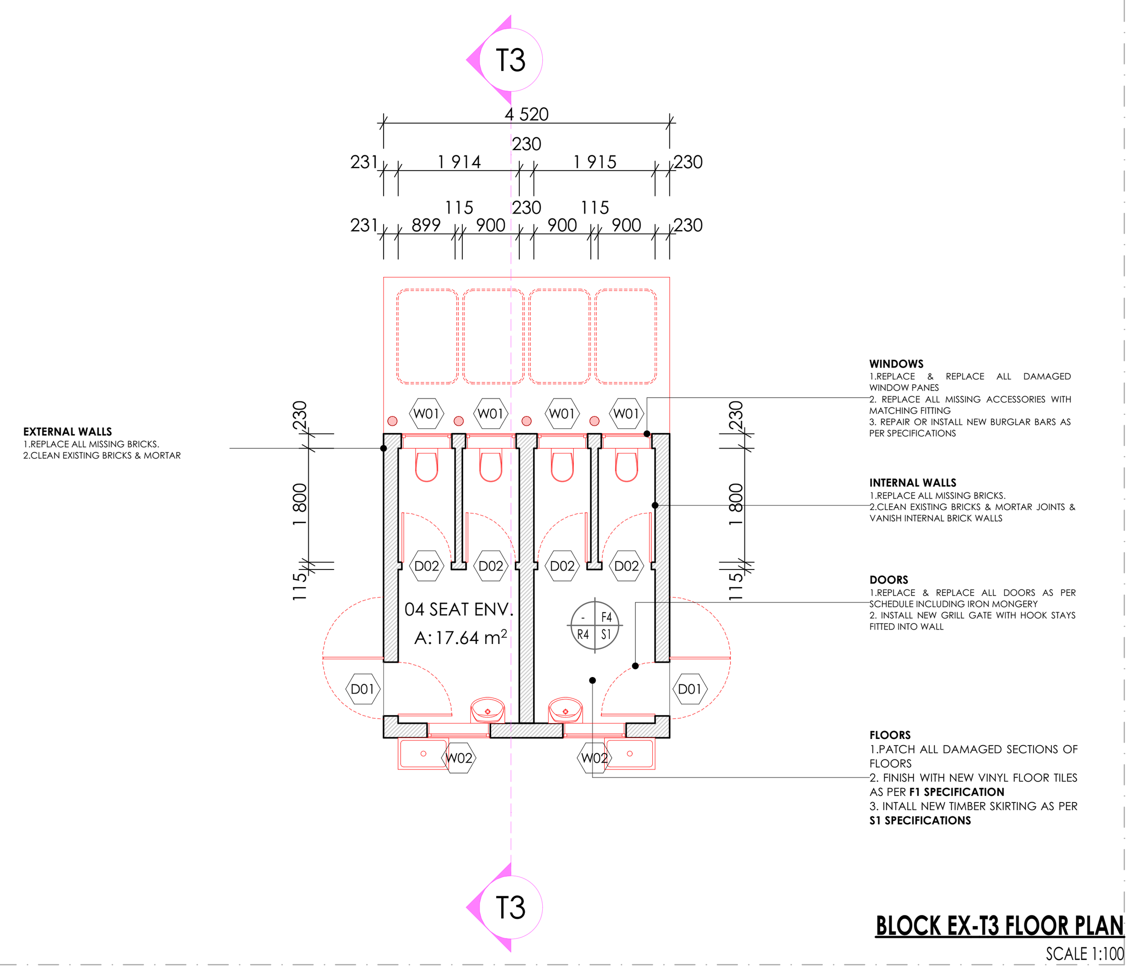
SCALE 1:100

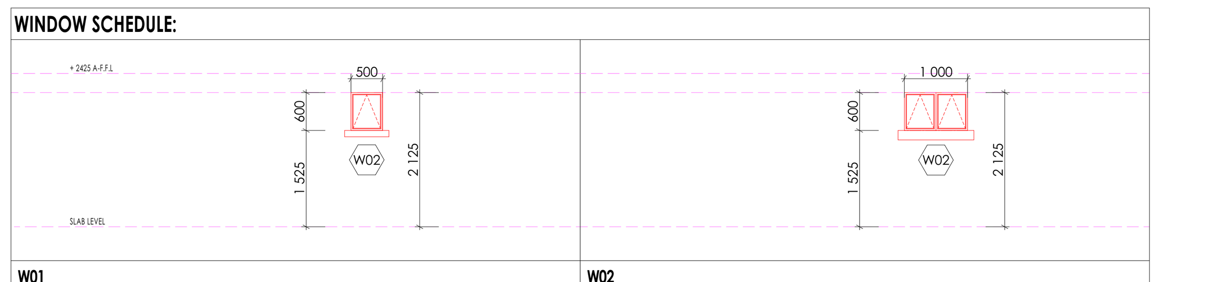


BLOCK EX-T3 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T3 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:



W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-T3 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x430mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

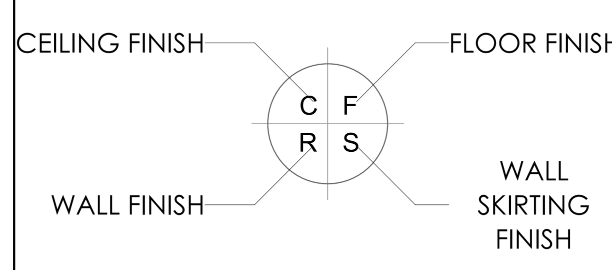
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
EX-T3 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-203-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

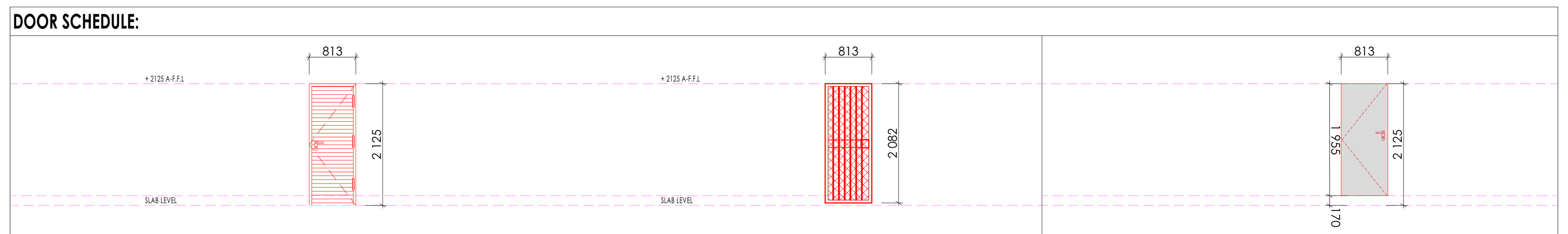
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

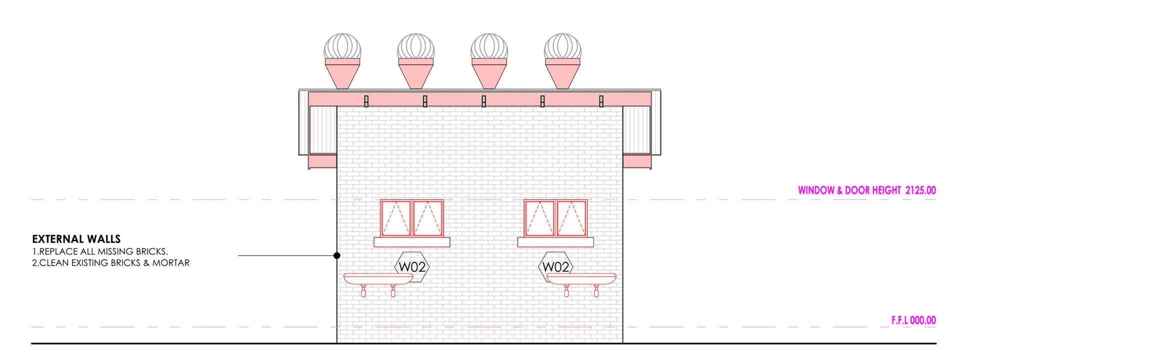
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

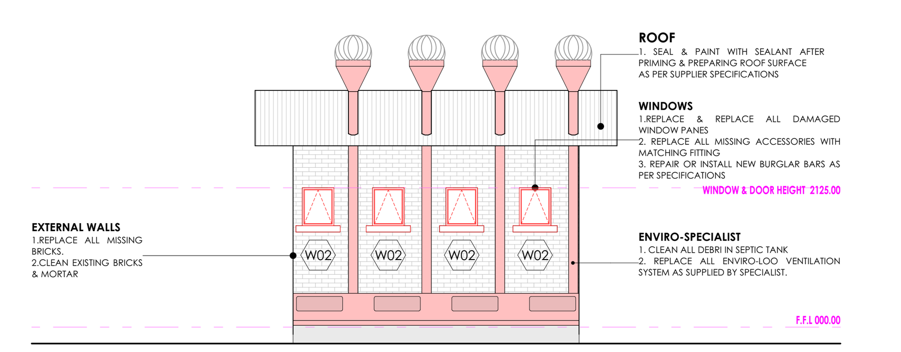


EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	02	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

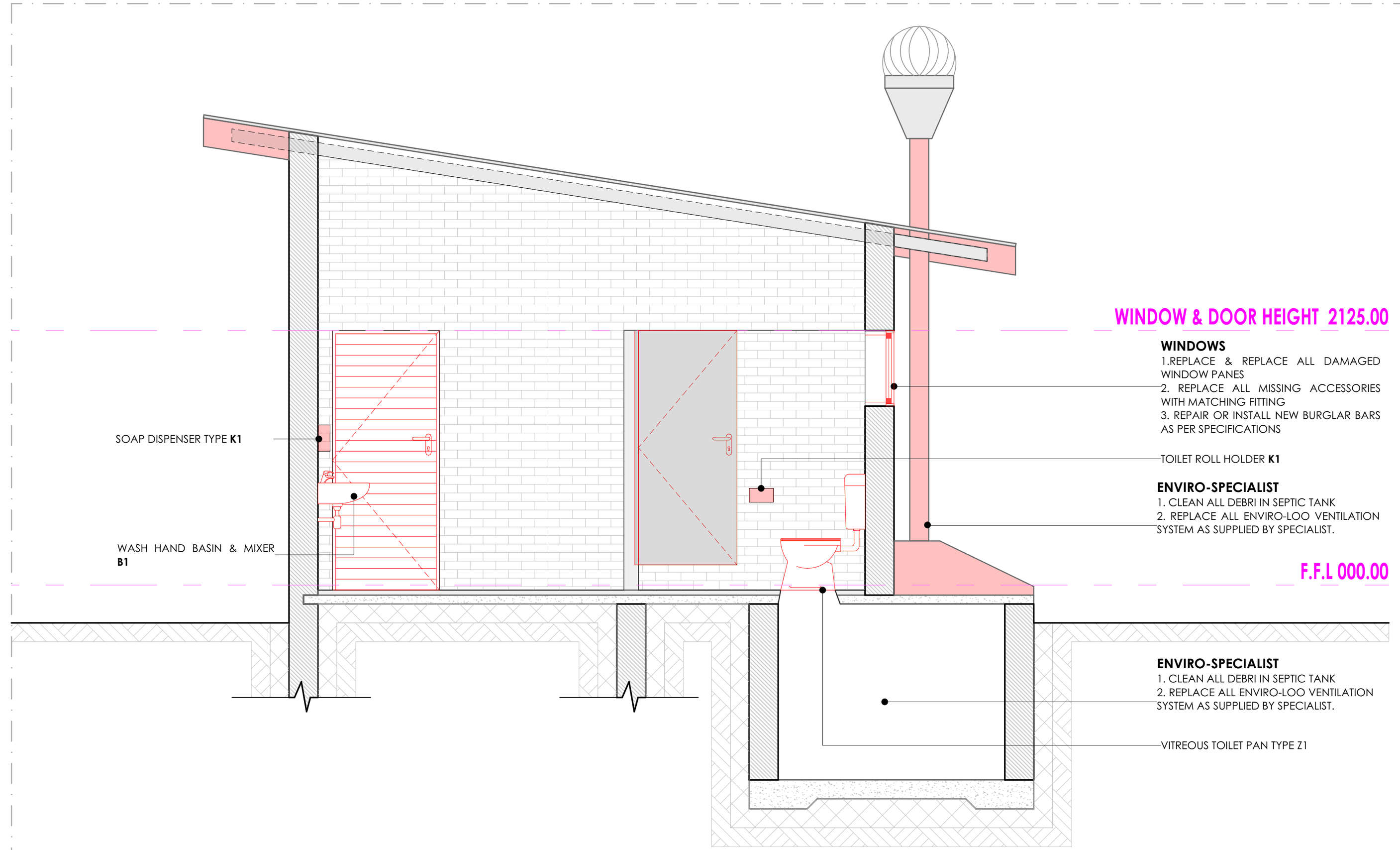
BLOCK EX-T4 DOOR SCHEDULE
SCALE 1:100



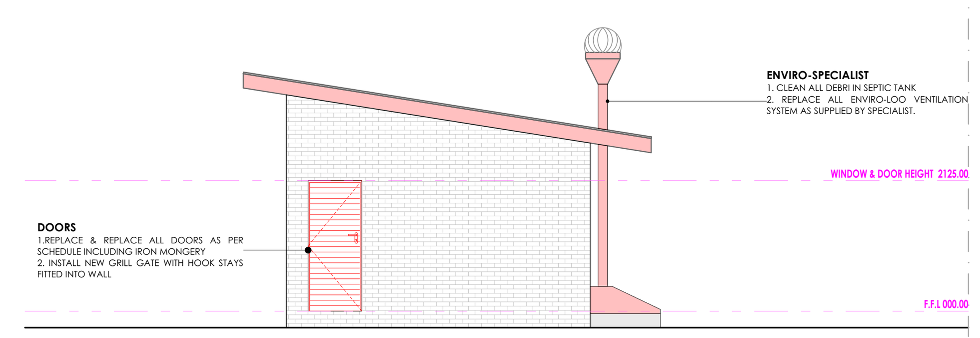
BLOCK EX-T4 FRONT ELEVATION
SCALE 1:100



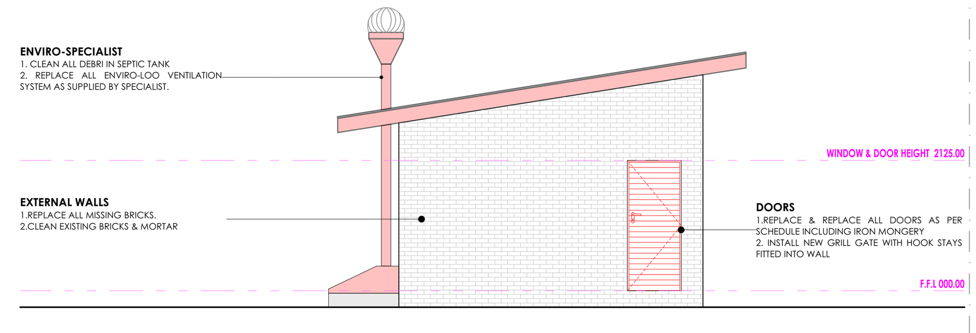
BLOCK EX-T4 REAR ELEVATION
SCALE 1:100



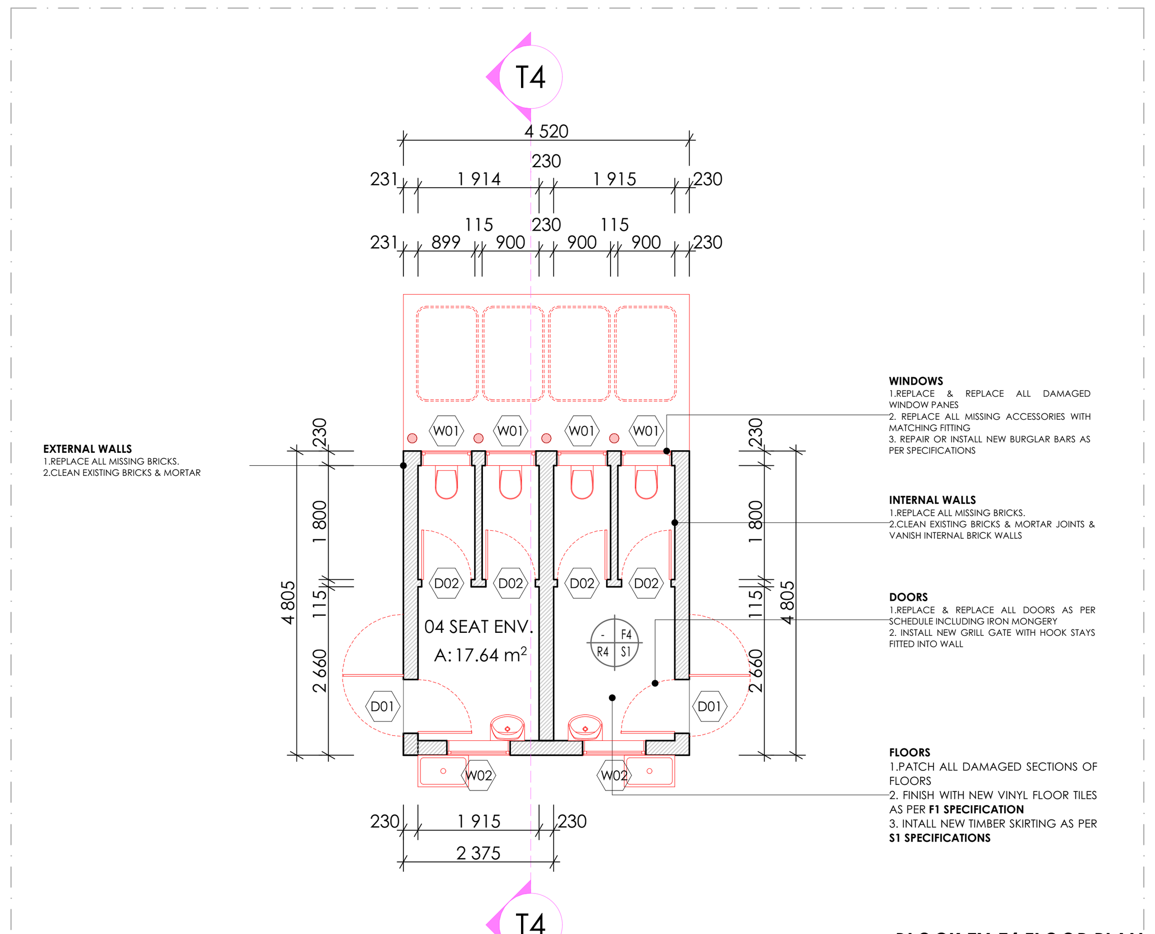
BLOCK EX-T4 SECTION T4
SCALE 1:50



BLOCK EX-T4 SIDE ELEVATION
SCALE 1:100

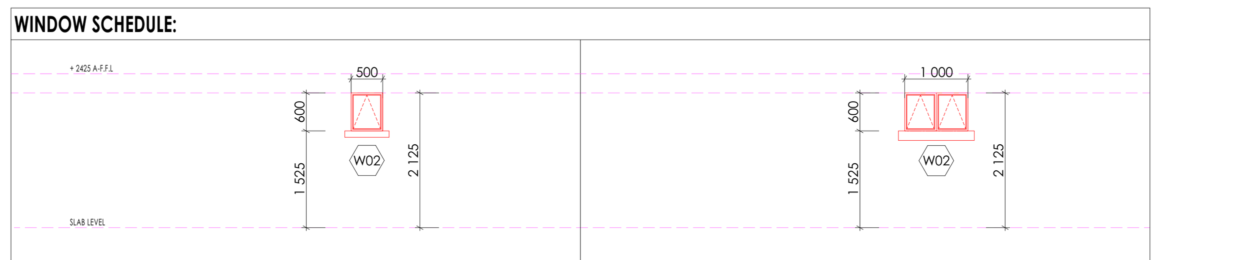


BLOCK EX-T4 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T4 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:



W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-T4 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

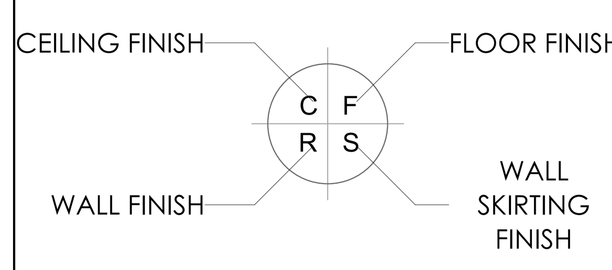
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

0	JUL 21	FIRST ISSUE FOR TENDER
REV. NO.	DATE	DESCRIPTION

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
EX-T4 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-204-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	02	QUANTITY	02	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK EX-T5 DOOR SCHEDULE
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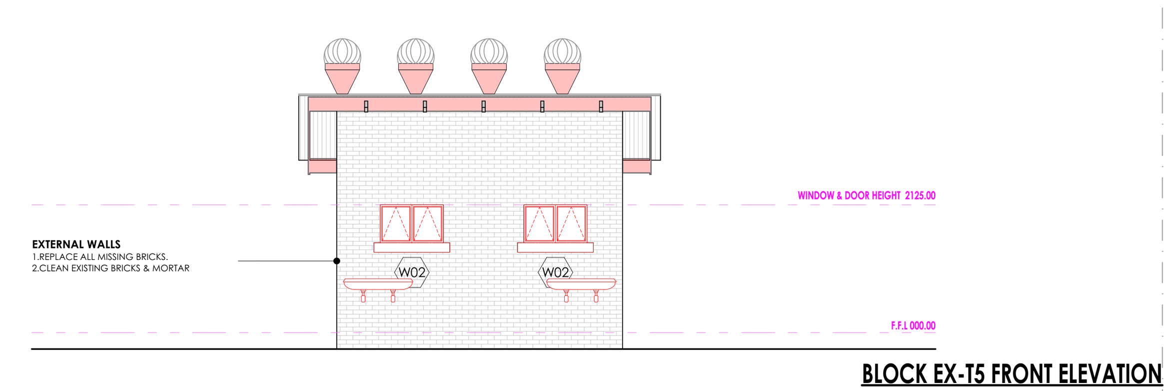

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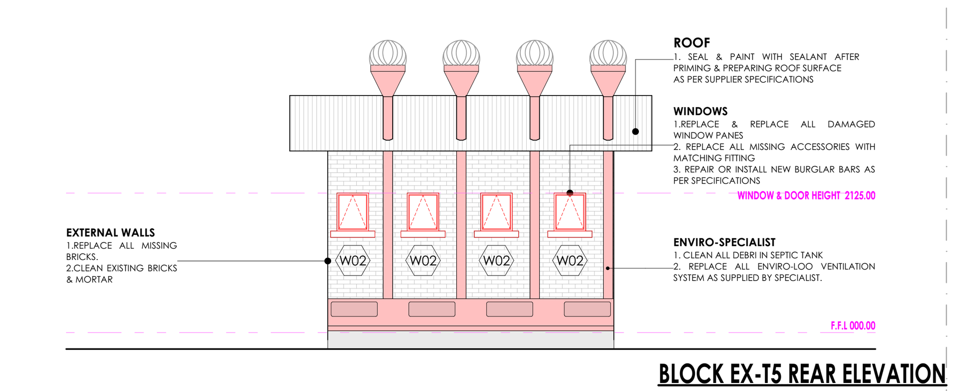

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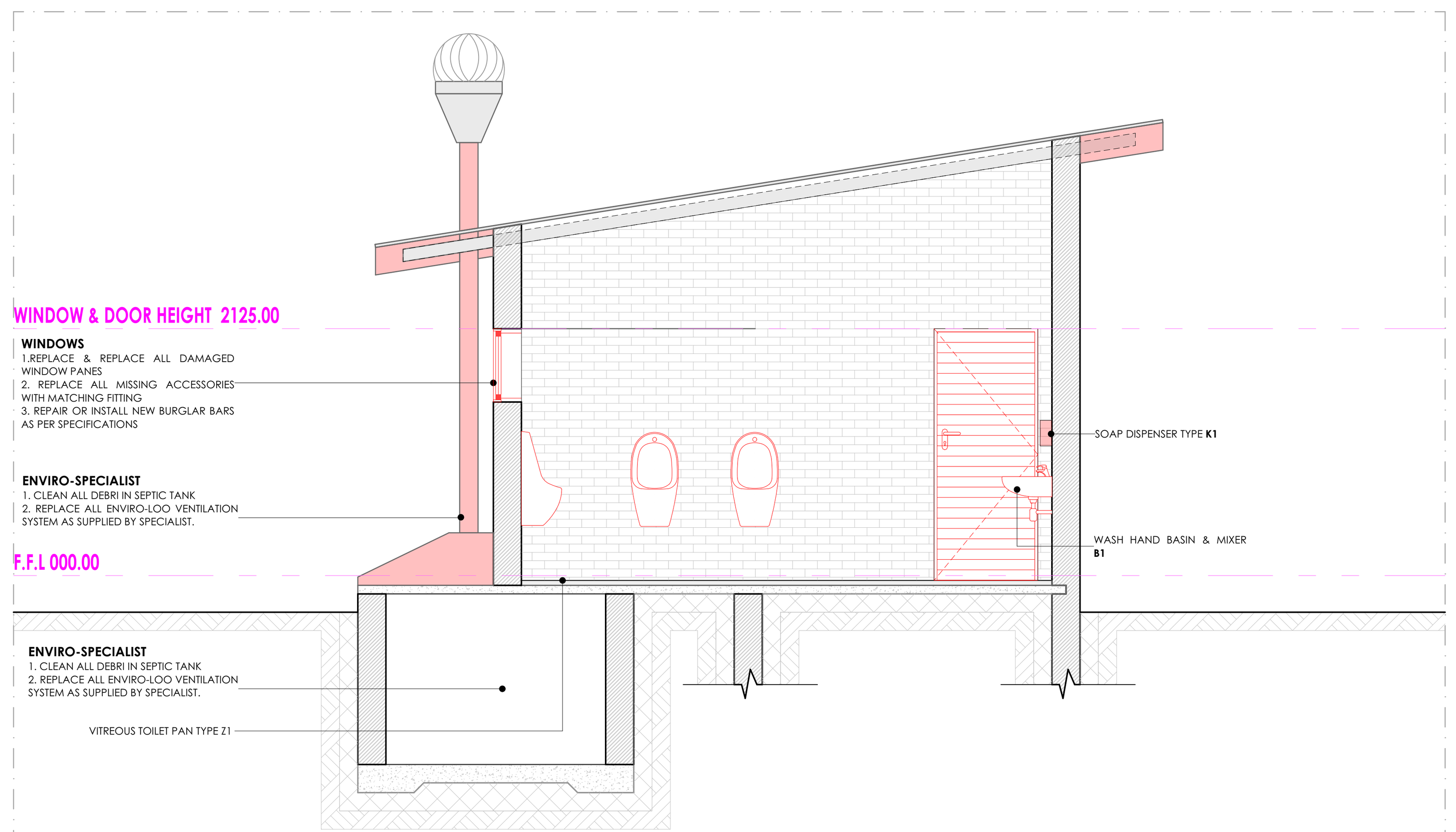

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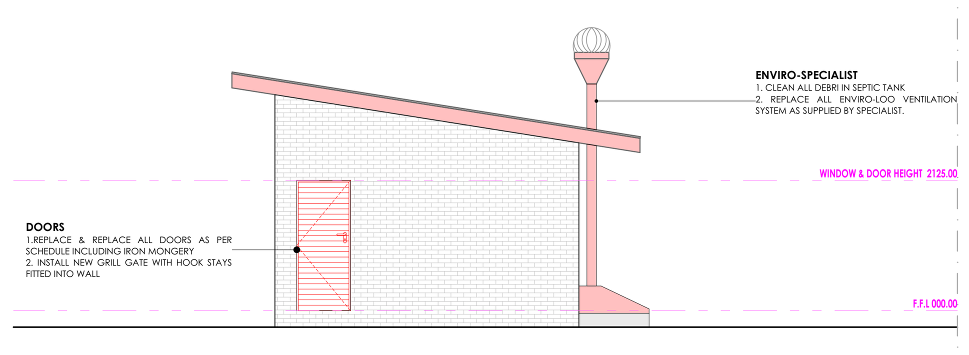

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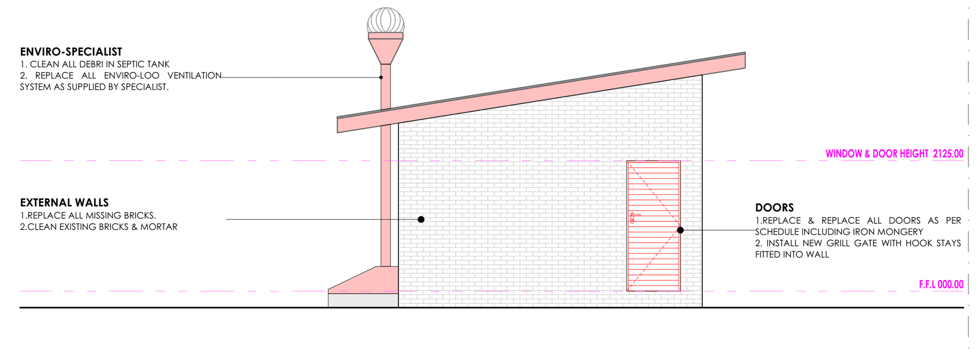
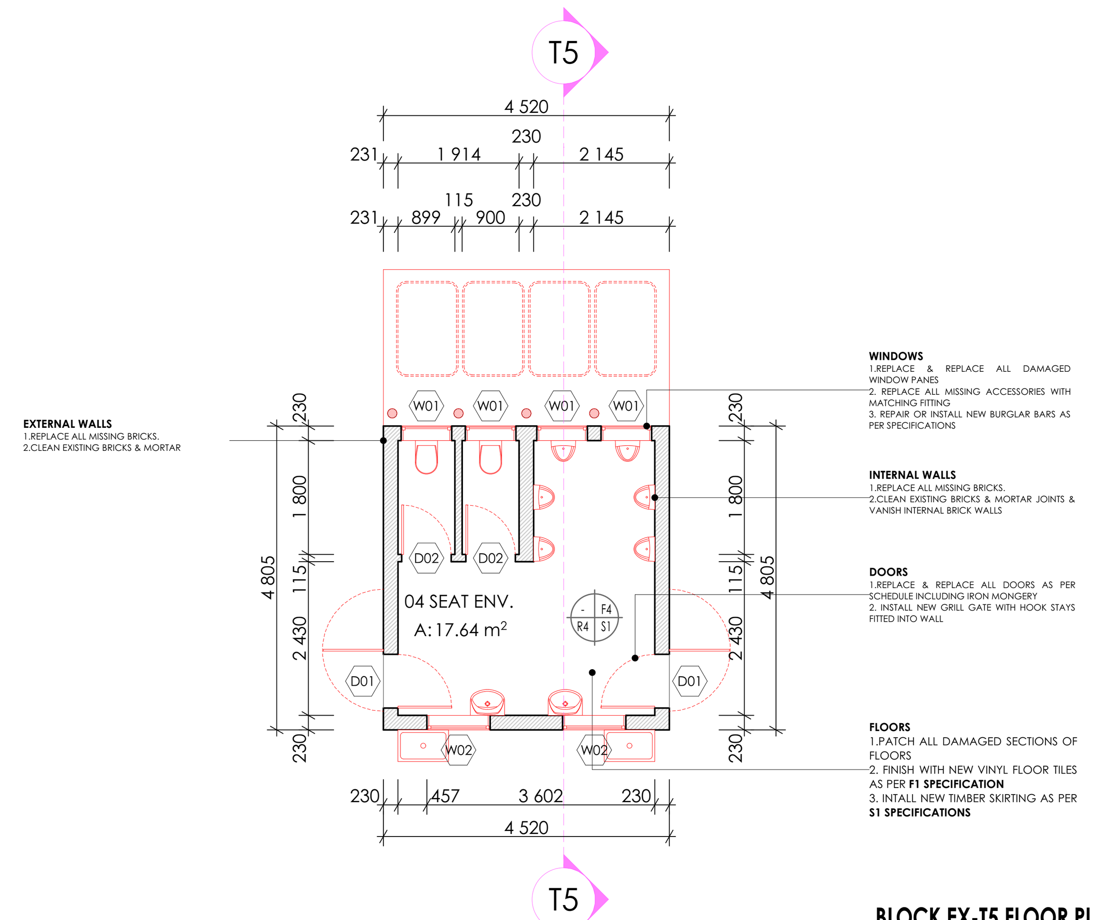


BLOCK EX-T5 SIDE ELEVATION
SCALE 1:100



BLOCK EX-T5 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:

W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK EX-T5 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x430mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

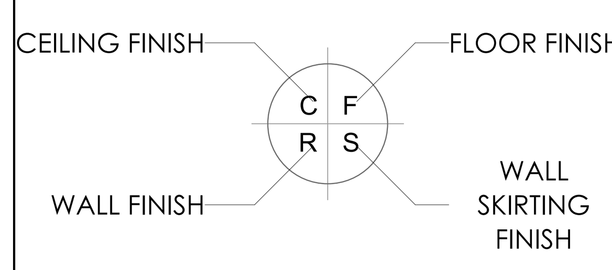
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
EX-T5 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-205-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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CONTRACTOR

CAD SYSTEM	AUTOCAD	FILE NAME
SIZE	PROJECT NUMBER	REV
A1	LDPW - PROF/16002/D14	0

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90º outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497,Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. "Cobra Watertech" 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with: 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Elbow action pillar-tap, with , turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2 • Paper towel dispenser K8 and bin type K3.• Soap dispenser type K9. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet, fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay, CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 533 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections, CP. Un-slotted sink waste with back nut and plug with stirrup, CP. Double drain black rubber deep seal 'P'-Traps. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted cade SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturers instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

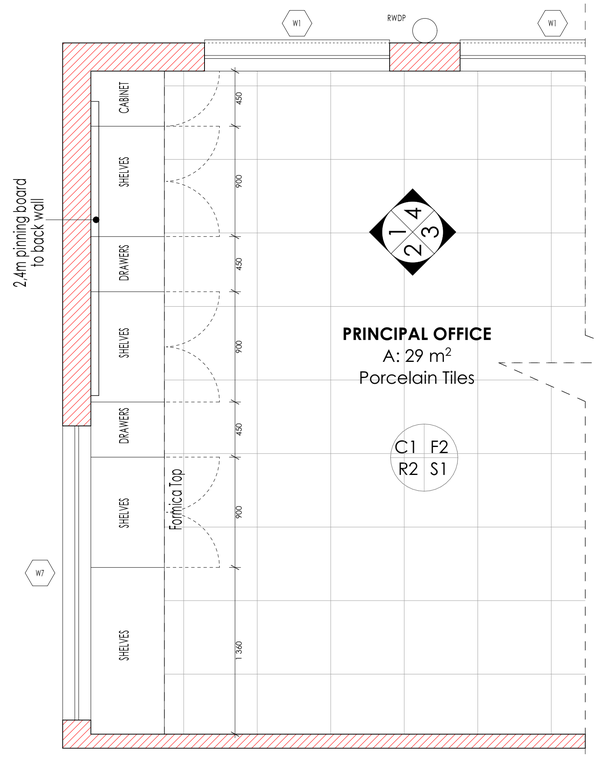
G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

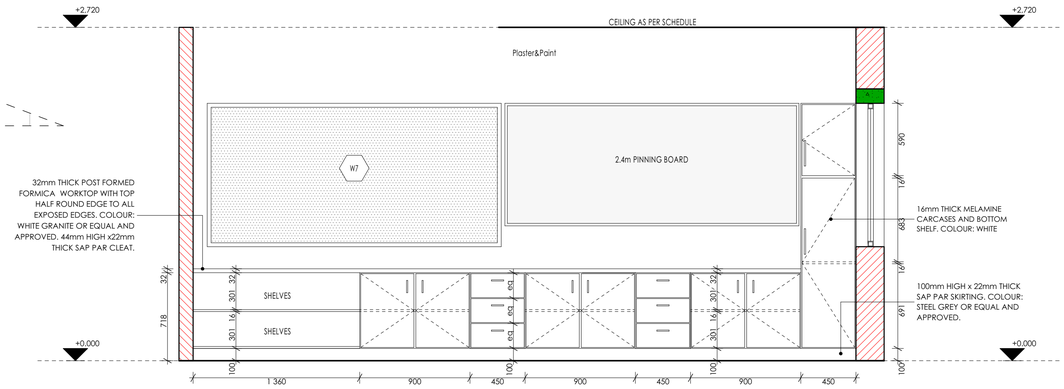
G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

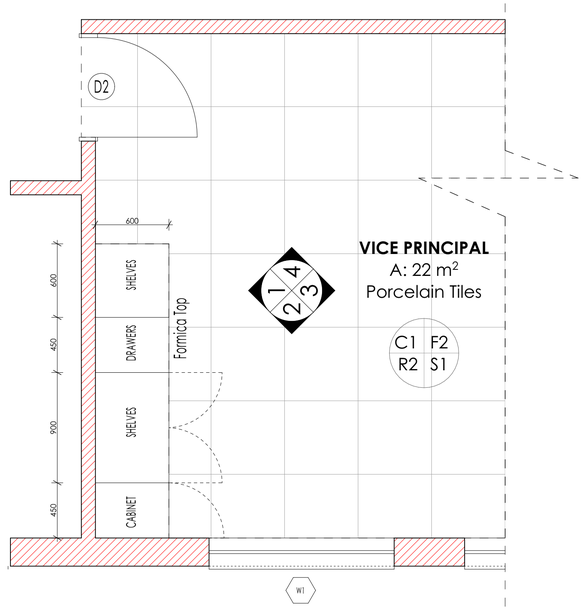
G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM17972), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance to the manufacturer's instructions.



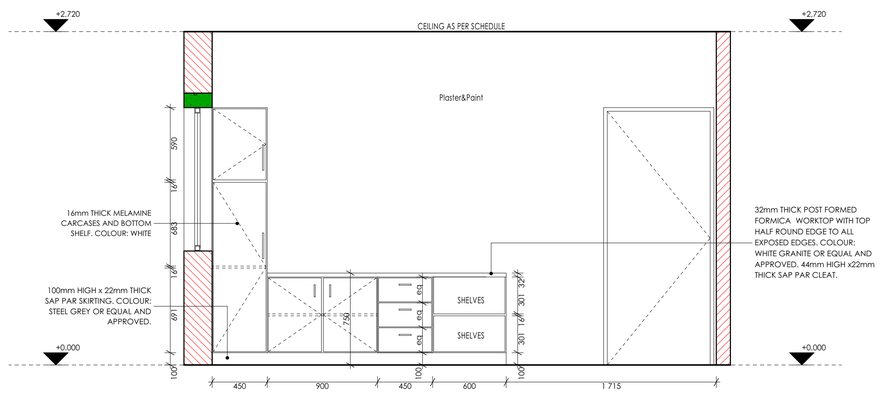
PRINCIPAL`S OFFICE PLAN:
Scale 1:25.



ELEVATION 01:
Scale 1:25.



VICE PRINCIPAL`S OFFICE PLAN:
Scale 1:25.



ELEVATION 01:
Scale 1:25.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

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DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO
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REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
PRINCIPAL`S OFFICE JOINERY DETAILS

DRG No.	301-10	10/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness. Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCell Classic' gypsum plasterboard ceilings **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab' 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

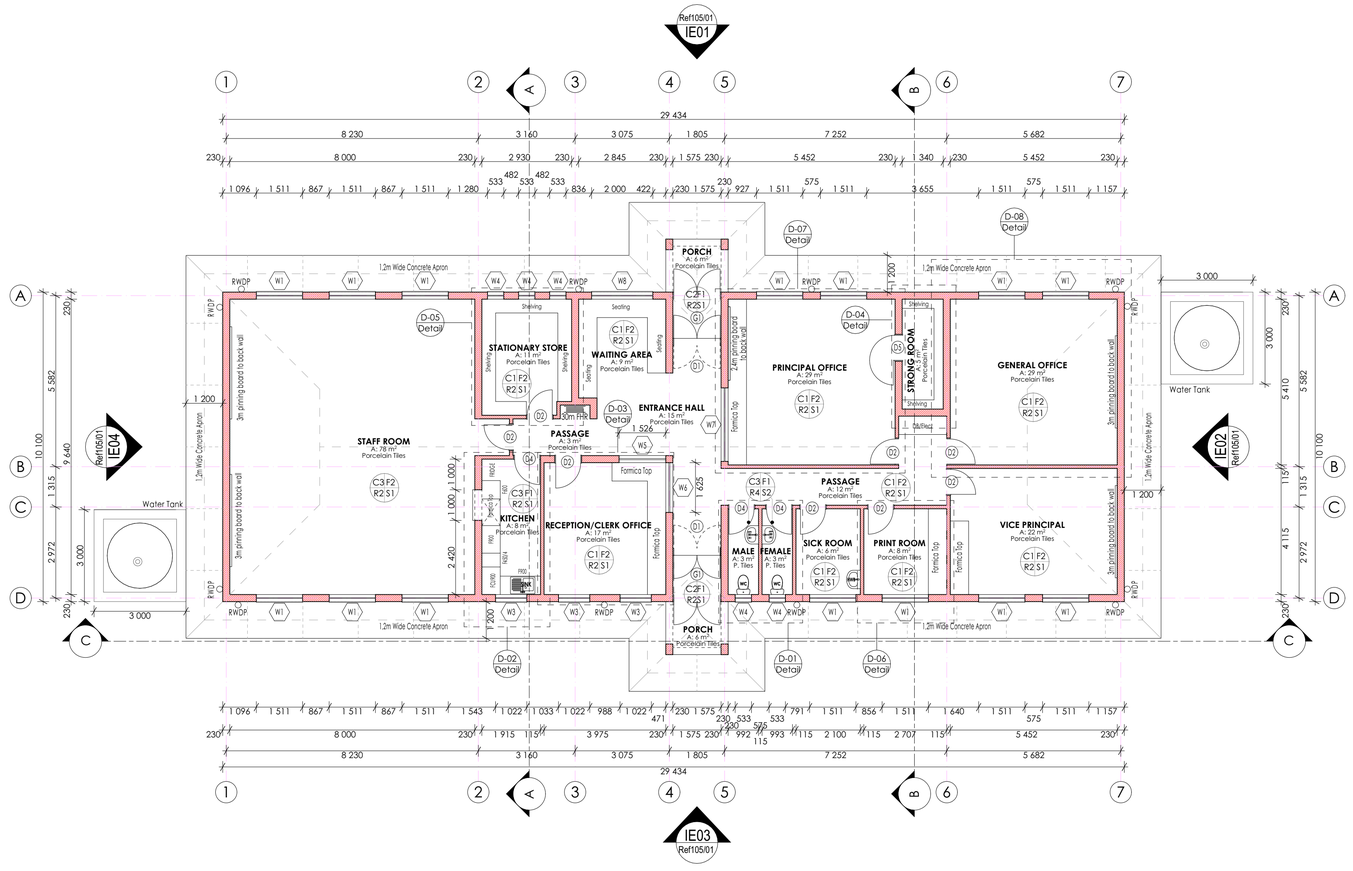
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (37). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE- 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80Kg/m³ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

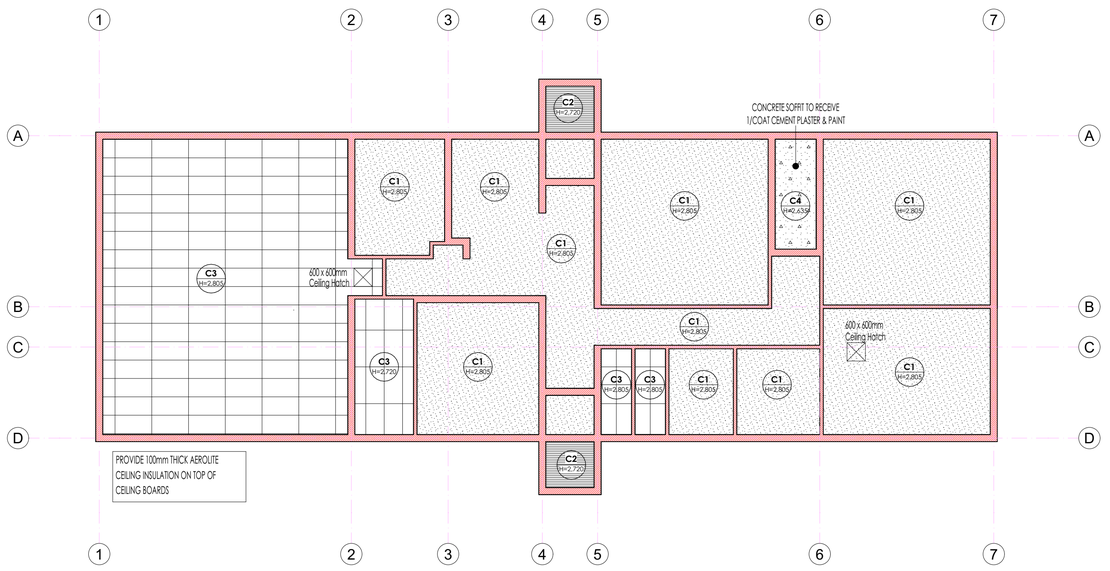
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



FLOOR PLAN:

Scale 1:100.



CEILING PLAN:

Scale 1:100.

CEILING LEGEND:

	CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.
	CEILING TYPE **C2** FIBRE-CEMENT BOARDS AS PER FINISHES SCHEDULE.
	CEILING TYPE **C3** PATENT ACOUSTIC TILES PER FINISHES SCHEDULE.
	CEILING TYPE **C4** EMULSION PAINT ON SKIMMED SOFFIT AS PER FINISHES SCHEDULE.

ISSUED FOR TENDER

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- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
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WALL FINISH — WALL SKIRTING FINISH
C F R S

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B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

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DEPARTMENT OF
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INSTITUTION
REBONE SECONDARY - 924 642 589

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CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
FLOOR PLAN & CEILING LAYOUT

DRG No.	301-01	01/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

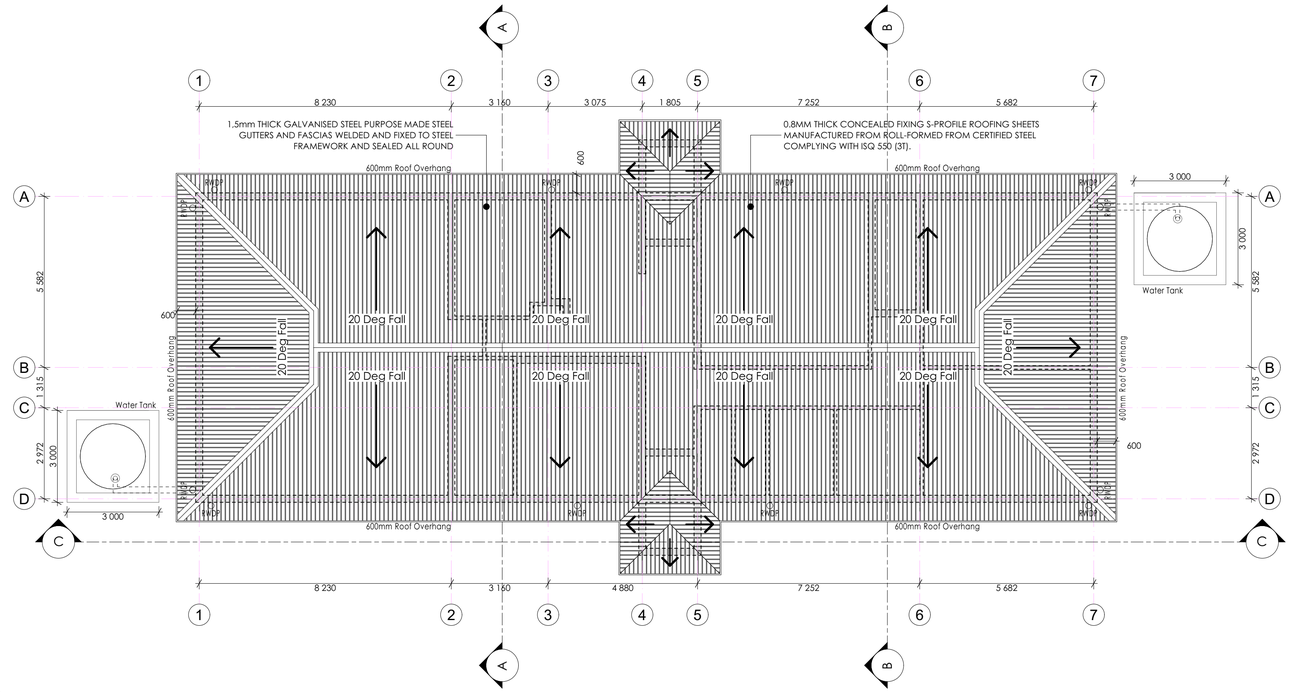
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ SS0 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

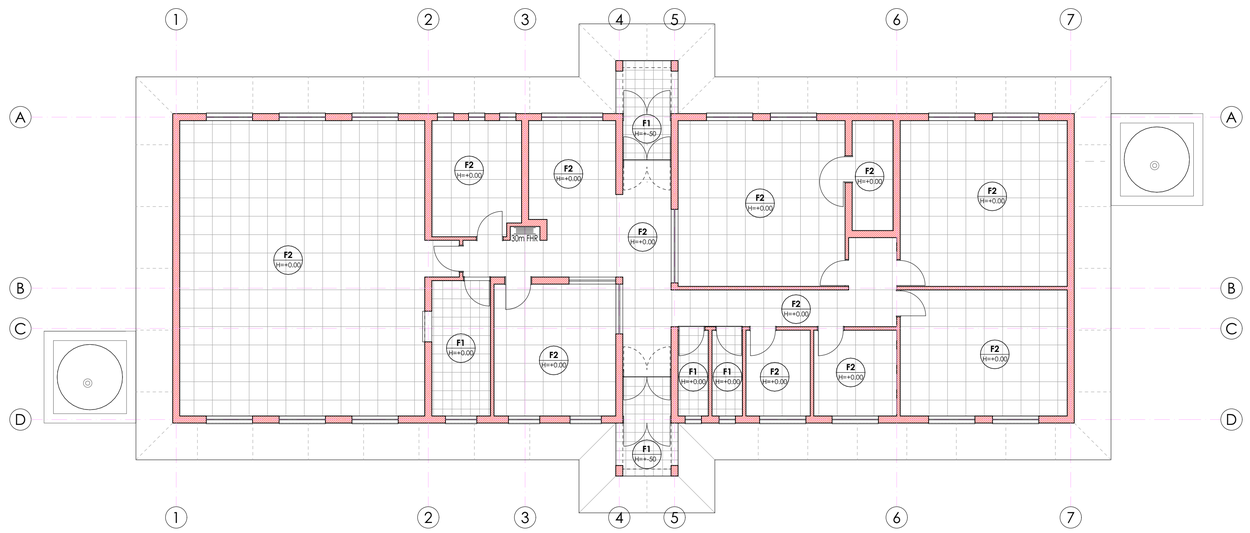
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



ROOF PLAN:

Scale 1:100.



FLOOR FINISHES PLAN:

Scale 1:100.

FLOOR FINISHES LEGEND:

	CERAMIC TILES TYPE **F1** AS PER FINISHES SCHEDULE.
	PORCELAIN TILES TYPE **F2** AS PER FINISHES SCHEDULE.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
ROOF & FLOOR FINISHES AYOUT

DRG No.	301-02	02/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
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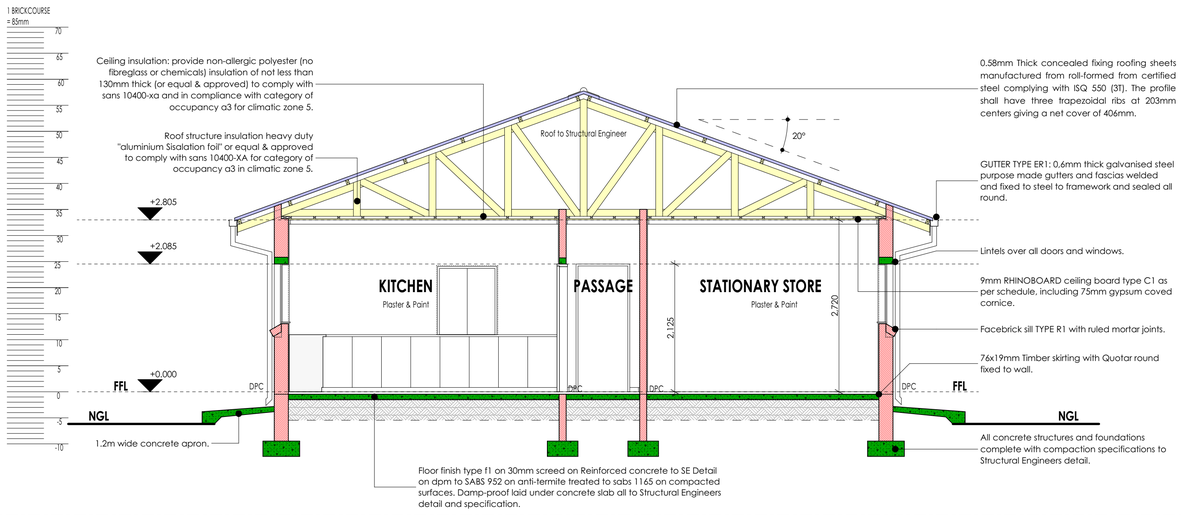

SECTION A-A:

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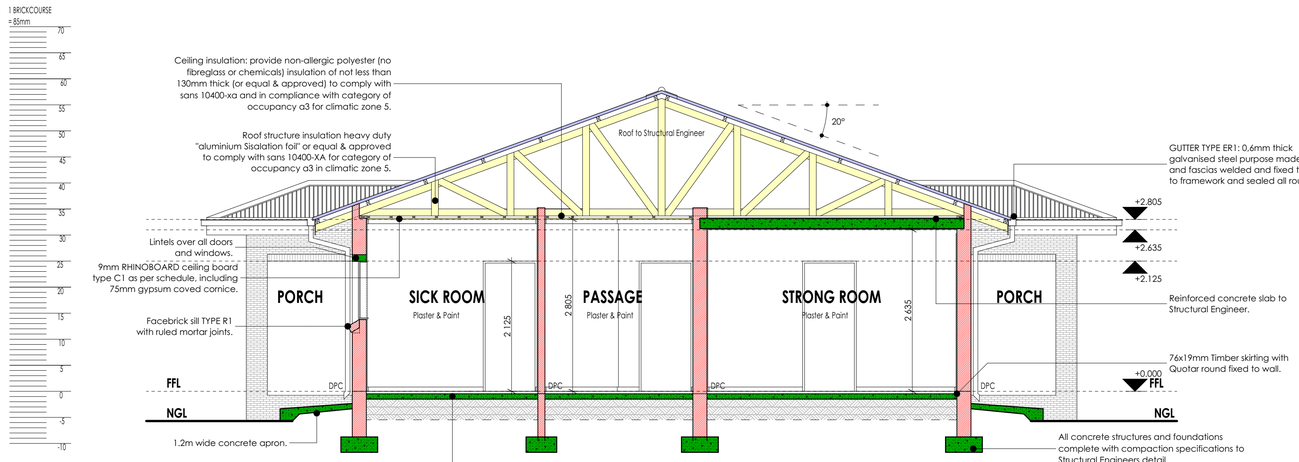

SECTION B-B:

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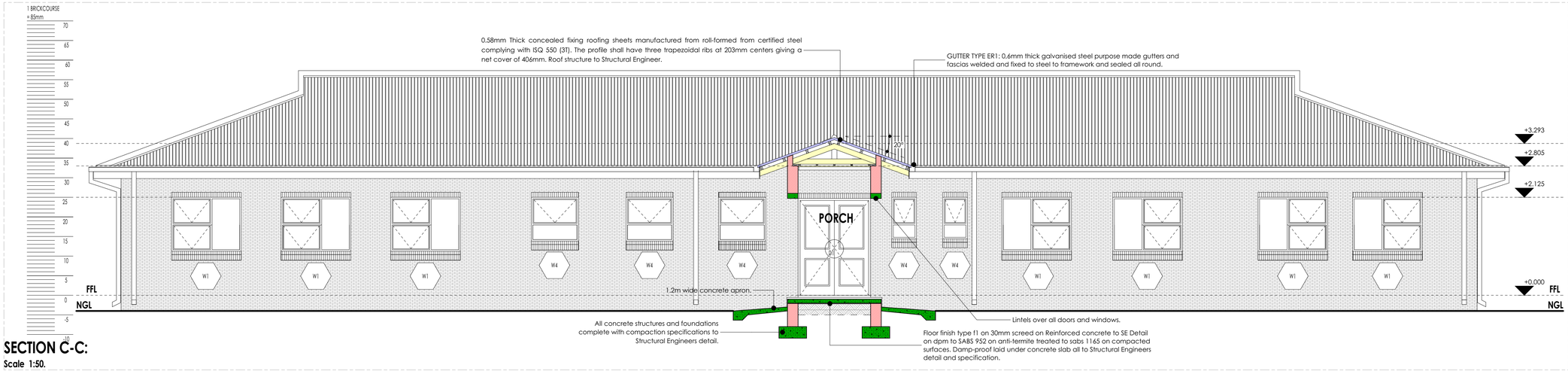

SECTION C-C:

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N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

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FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
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REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
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REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
SECTIONS A, B & C

DRG No.	301-03	03/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/2014		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness. Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3: ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCal Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

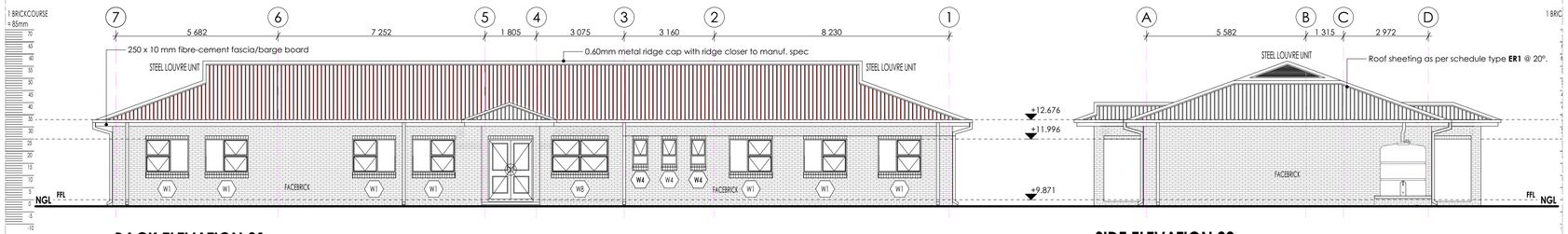
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCell Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

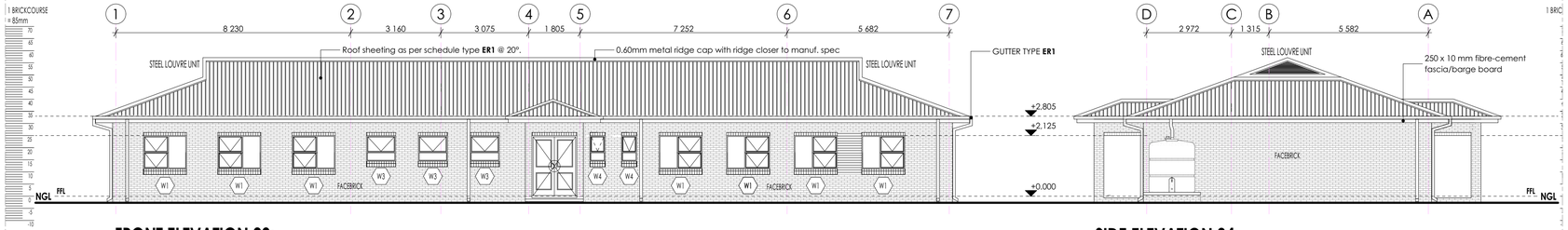
ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (07). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE- 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80Kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



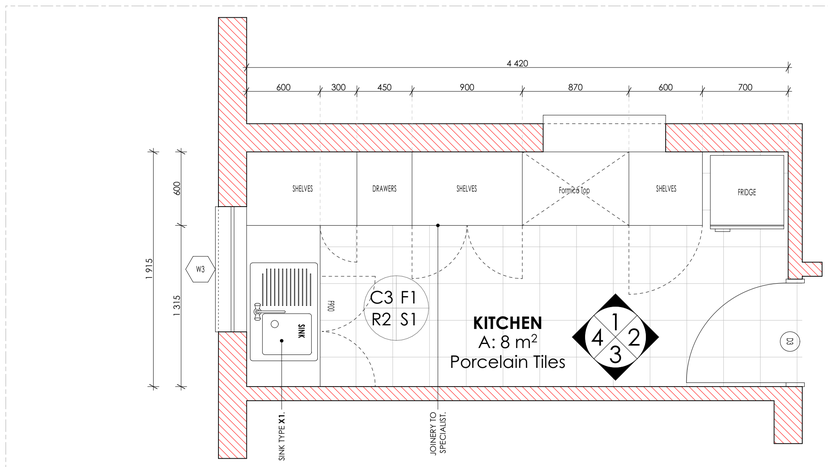
BACK ELEVATION 01:
Scale 1:100.

SIDE ELEVATION 02:
Scale 1:100.



FRONT ELEVATION 03:
Scale 1:100.

SIDE ELEVATION 04:
Scale 1:100.



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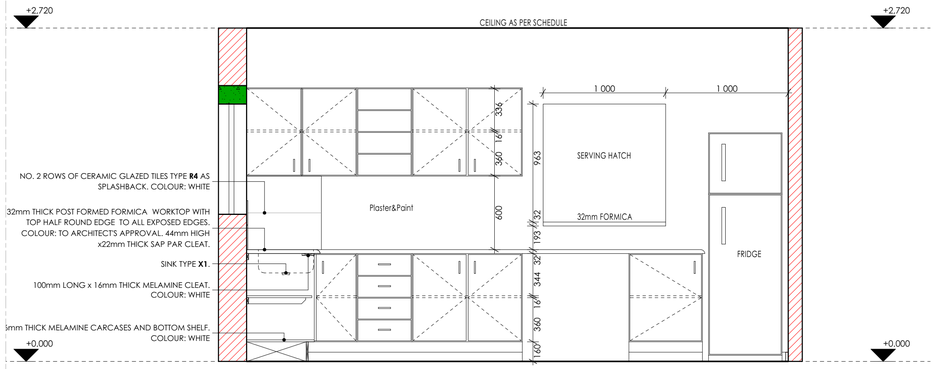
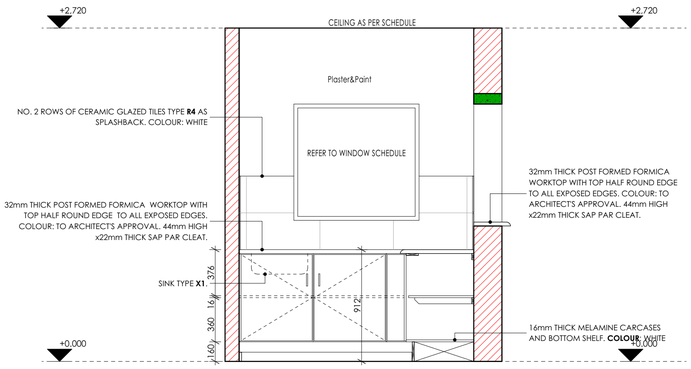
Scale 1:25.



ELEVATION 01:
Scale 1:25.



ELEVATION 04:
Scale 1:25.

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	REVISIONS
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

LIMPOPO PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
ELEVATIONS & KITCHEN JOINERY DETAILS

DRG No.	301-04	04/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA
ISO 9001:2008

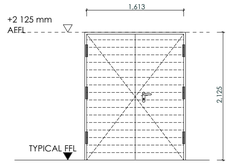
CONTRACTOR

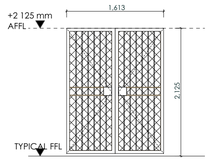
CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

DOOR SCHEDULE:

TYPE D1

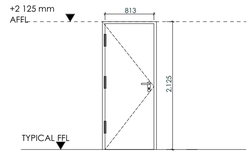
No. of Doors: **01**





TYPE D2

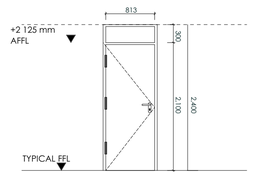
No. of Doors: **08**



	EXTERIOR DOOR	BURGLAR DOOR (DOUBLE)	INTERIOR DOOR
DOOR DESCRIPTION:	1511mm x 2032mm x 44mm thick heavy duty exterior quality horizontally statted double sided stable saligna door fitted to comply with SABS 545 exterior grade.	Painted galvanised mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 90° angle, including security mesh, colour to architect's specification, to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630.	813mm x 2032mm x 44mm thick interior grade flush hollow core single timber door with 3mm thick ply on both sides with 2 consolidated edges fitted to comply with SABS 545 in pressed steel frame. All painted in accordance with Architect's colour schedule.
FRAME:	Standard 1.2mm in galvanised mild steel door frame with profile matching wall, to comply with SABS 1129, complete with lugs and fixtures, to accommodate 1613 x 2032 door leaf.	50x50mm galvanised mild steel square tube welded to form frame.	Standard 1.6mm galvanised mild steel double rebate pressed metal frame complying to SABS 1129 complete with lugs and fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm) as per floor plans
FRAME FINISH:	Washable enamel paint finish complying with SABS 723 for primer, SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)	Washable enamel paint finish complying with SABS 723 for primer, SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval
DOOR FINISH :	Apply three clear eggshell varnish for interior wood to comply with SABS 887 type 1., thin down the first coat with mineral turpentine according to manufacturer's instructions, allowing each coat to dry overnight. Apply approved wood preservative to exposed exterior wood to saturate the surface. With each coat soaking in before the applying further coats, apply to end grain until no further soaking in takes place.	Painted mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 90° angle, including security mesh, to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630. Colour to architect's specification	Prime with wood primer to comply with SABS, type 2. Paint one (1) Universal under coat to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630, type 1. Colour to architect's approval
IRONMONGERY:	Approved Lockset as per supplier Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate rooms	Approved Lockset as per supplier	Approved Lockset as per supplier Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate rooms
HINGES:	6 no. stainless steel medium duty butt hinges.	6 no. stainless steel heavy duty butt hinges.	3 no. stainless steel medium duty butt hinges.

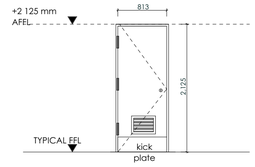
TYPE D3

No. of Doors: **00**



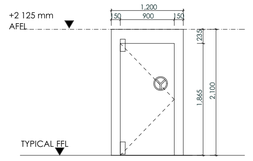
TYPE D4

No. of Doors: **03**



TYPE D5

No. of Doors: **01**



	INTERIOR DOOR	ABLUTIONS DOOR	STRONG ROOM DOOR
DOOR DESCRIPTION:	813mm x 2032mm x 44mm thick interior grade flush hollow core single timber door with 3mm thick ply on both sides with 2 consolidated edges fitted to comply with SABS 545 in pressed steel frame. All painted in accordance with Architect's colour schedule.	813mm x 2032mm x 44mm thick interior grade flush hollow core single timber door with 3mm thick ply on both sides with 2 consolidated edges fitted to comply with SABS 545 in pressed steel frame. All painted in accordance with Architect's colour schedule.	SABS Category 3 vault door with 4 wheel combination lock and 2 x 8 lever key lock and 3 wheel combination. Overall size 900mm x 1865mm high finished in rust proof under coat for final painting.
FRAME:	Standard 1.6mm galvanised mild steel double rebate pressed metal frame with Fanlight complying to SABS 1129 complete with lugs and fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm) as per floor plans. Provide 4mm clear glass at the Fanlight.	Standard 1.6mm galvanised mild steel double rebate galvanised metal frame complying to SABS 1129 complete with lugs and fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm) as per floor plans	50 X 50mm galvanised mild steel square tube welded to form frame.
FRAME FINISH:	Washable enamel paint finish complying with SABS 723 for primer, SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval	Washable enamel paint finish complying with SABS 723 for primer, SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)
DOOR FINISH :	Prime with wood primer to comply with SABS, type 2. Paint one (1) Universal under coat to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630, type 1. Colour to architect's approval	Prime with wood primer to comply with SABS, type 2. Paint one (1) Universal under coat to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630, type 1. Colour to architect's approval	Painted mild steel gate consisting of 10x10mm mild steel bars placed at 100mm centres at a 45° angle, to comply with SABS 681, grade 1, and finish with two (2) coats alkyde egg-shell paint to comply with SABS 630. Colour to architect's specification
IRONMONGERY:	Approved Lockset as per supplier Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate rooms	Approved Lockset as per supplier	Approved Lockset as per supplier
HINGES:	3 no. stainless steel medium duty butt hinges.	VENTILATION GRILLE SIZED TO MECHANICAL ENGINEER'S SPECIFICATIONS 3 no. stainless steel medium duty butt hinges.	3 no. stainless steel heavy duty butt hinges.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

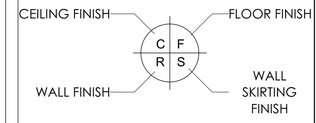
NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
DOOR SCHEDULE

DRG No.	301-05	05/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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SUITE G4 TX NIMS VAN RENSBURG
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KWAZULU NATAL
1ST FLOOR LIBERTY BUILDING
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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA
ISO 9001:2008

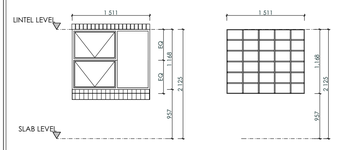
CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

WINDOW SCHEDULE:

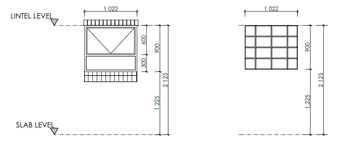
W1

No. of Windows: **14**



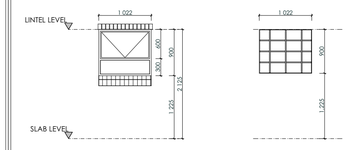
W2

No. of Windows: **00**



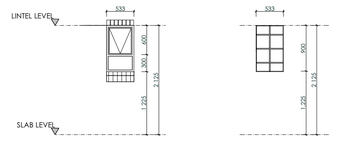
W3

No. of Windows: **03**



W4

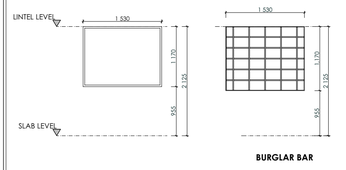
No. of Windows: **05**



WINDOW DESCRIPTION	Standard "school type" galvanised mild steel top hung window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels: plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Standard "school type" galvanised mild steel top hung window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels: plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Standard "school type" galvanised mild steel top hung window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels: plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Standard "school type" galvanised mild steel top hung window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels: plugged and screwed/ built into walling.
FRAME	Standard "school type" galvanised mild steel window frame. Manufactured to comply with SABS 727. Frames to be factory primed with zinc phosphate primer to comply with SABS 1319 before delivery, and finished with one universal undercoat to comply with SABS 681 grade 1, finished with two coats alkyd enamel paint to comply with SABS 630. To manufacturer's specifications. Colour to Architect's approval.	**FRAME**	Standard "school type" galvanised mild steel window frame. Manufactured to comply with SABS 727. Frames to be factory primed with zinc phosphate primer to comply with SABS 1319 before delivery, and finished with one universal undercoat to comply with SABS 681 grade 1, finished with two coats alkyd enamel paint to comply with SABS 630. To manufacturer's specifications. Colour to Architect's approval.	**FRAME**	Standard "school type" galvanised mild steel window frame. Manufactured to comply with SABS 727. Frames to be factory primed with zinc phosphate primer to comply with SABS 1319 before delivery, and finished with one universal undercoat to comply with SABS 681 grade 1, finished with two coats alkyd enamel paint to comply with SABS 630. To manufacturer's specifications. Colour to Architect's approval.	**FRAME**	Standard "school type" galvanised mild steel window frame. Manufactured to comply with SABS 727. Frames to be factory primed with zinc phosphate primer to comply with SABS 1319 before delivery, and finished with one universal undercoat to comply with SABS 681 grade 1, finished with two coats alkyd enamel paint to comply with SABS 630. To manufacturer's specifications. Colour to Architect's approval.
GLASS	4mm CLEAR float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers marked with the SABS mark.	**GLASS**	4mm CLEAR float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers marked with the SABS mark.	**GLASS**	4mm OBSCURED float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers marked with the SABS mark.	**GLASS**	4mm CLEAR float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers marked with the SABS mark.
FITTINGS	FACTORY FITTED	**FITTINGS**	FACTORY FITTED	**FITTINGS**	FACTORY FITTED	**FITTINGS**	FACTORY FITTED
BURGLAR BARS	STANDARD GALVANISED WELDED STEEL FITTINGS (INTERNAL) 12mm solid square bars fixed on frame with upright members and cross members fixed with temper proof fasteners on all four sides. To be painted to match existing window frame colour external and internal burglar bars according to SABS 1461.	**BURGLAR BARS**	STANDARD GALVANISED WELDED STEEL FITTINGS (INTERNAL) 12mm solid square bars fixed on frame with upright members and cross members fixed with temper proof fasteners on all four sides. To be painted to match existing window frame colour external and internal burglar bars according to SABS 1461.	**BURGLAR BARS**	STANDARD GALVANISED WELDED STEEL FITTINGS (INTERNAL) 12mm solid square bars fixed on frame with upright members and cross members fixed with temper proof fasteners on all four sides. To be painted to match existing window frame colour external and internal burglar bars according to SABS 1461.	**BURGLAR BARS**	STANDARD GALVANISED WELDED STEEL FITTINGS (INTERNAL) 12mm solid square bars fixed on frame with upright members and cross members fixed with temper proof fasteners on all four sides. To be painted to match existing window frame colour external and internal burglar bars according to SABS 1461.
IRONMONGERY	Architects to approve sample. All ironmongery to be supplied by the manufacturer. Articles shall be fixed with screws of similar metal and shall be eased, oiled, adjusted and left in perfect order on completion.	**IRONMONGERY**	Architects to approve sample. All ironmongery to be supplied by the manufacturer. Articles shall be fixed with screws of similar metal and shall be eased, oiled, adjusted and left in perfect order on completion.	**IRONMONGERY**	Architects to approve sample. All ironmongery to be supplied by the manufacturer. Articles shall be fixed with screws of similar metal and shall be eased, oiled, adjusted and left in perfect order on completion.	**IRONMONGERY**	Architects to approve sample. All ironmongery to be supplied by the manufacturer. Articles shall be fixed with screws of similar metal and shall be eased, oiled, adjusted and left in perfect order on completion.

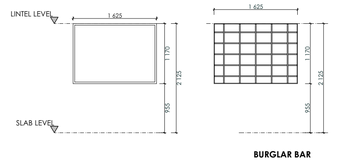
W5

No. of Windows: **01**



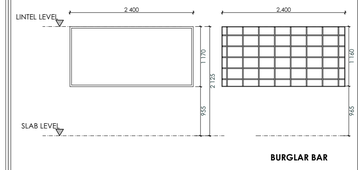
W6

No. of Windows: **01**



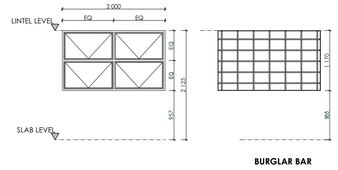
W7

No. of Windows: **01**



W4

No. of Windows: **01**



WINDOW DESCRIPTION	Cistom made aluminium Fixed window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels; plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Cistom made aluminium Fixed window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels; plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Cistom made aluminium Fixed window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels; plugged and screwed/ built into walling.	**WINDOW DESCRIPTION**	Standard "school type" galvanised mild steel top hung window. Manufactured, assembled and delivered to site complete with ironmongery comprising approved hinges, pivoting mechanisms, stays, fasteners and weathers bars to openable panels; plugged and screwed/ built into walling.
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N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

C F
R S

WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING
REV. NO.	DATE	DESCRIPTION

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
WINDOW SCHEDULE

DRG No.	301-06	06/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90º outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. "Cobra Watertech" 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-33 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x360mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 453x297mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Elbow action pillar-tap, with , turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2 • Paper towel dispenser K8 and bin type K3 • Soap dispenser type K9. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 320mm inset washtrough, manufactured from grade 18/10 SS. stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP. 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS. radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP. Double drain black rubber deep seal 'P' -trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
920mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL or as specified.

G2: PROJECTOR SCREEN
Pull-down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturers instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

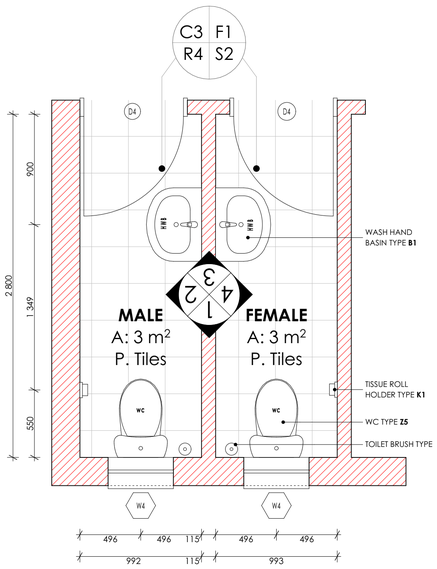
G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blends with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt. , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM17972/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance to the manufacturer's instructions.



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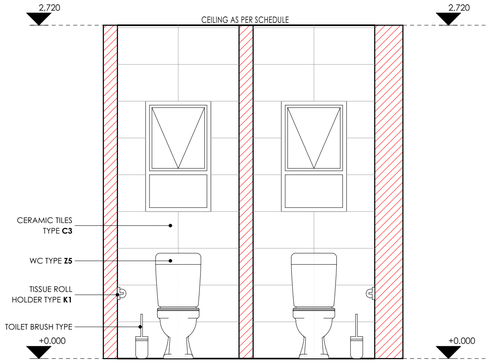

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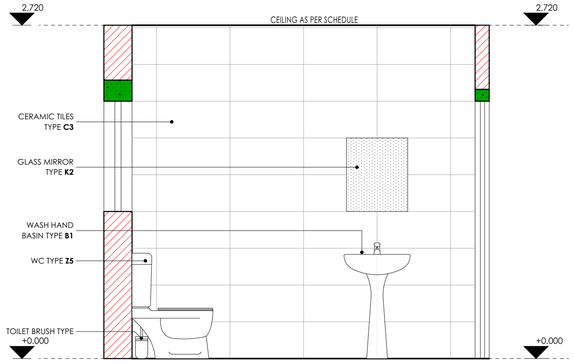

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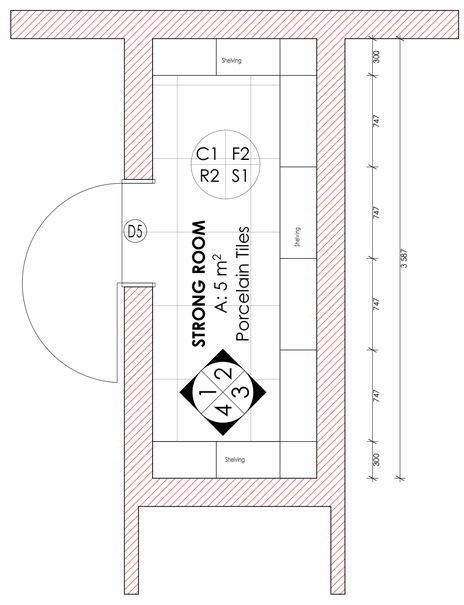

STRONG ROOM PLAN:
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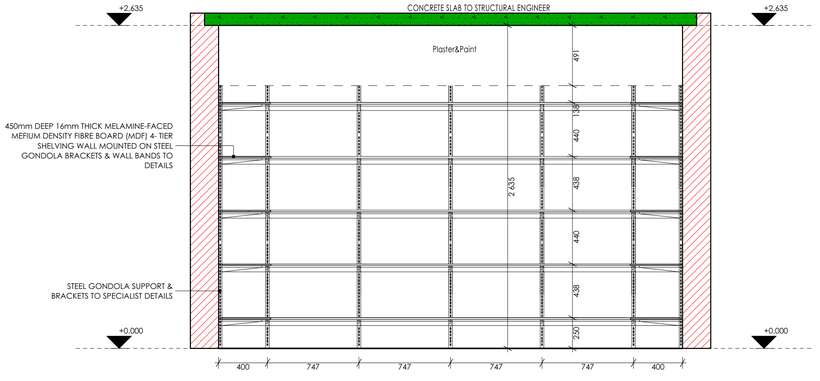

ELEVATION 03:
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N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
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DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING
REV. NO.	DATE	DESCRIPTION

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK
DRAWING DESCRIPTION
ABLUTIONS & STRONG ROOM DTLS

DRG No.	301-07	07/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/2014		0

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90º outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497,Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with: 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Elbow action pillar-tap, with , turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2 • Paper towel dispenser K8 and bin type K3.• Soap dispenser type K9. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 320mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet, fitted with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP. 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP. Double drain black rubber deep seal 'P' -trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
920mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL or as specified.

G2: PROJECTOR SCREEN
Pull-down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturers instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt. , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

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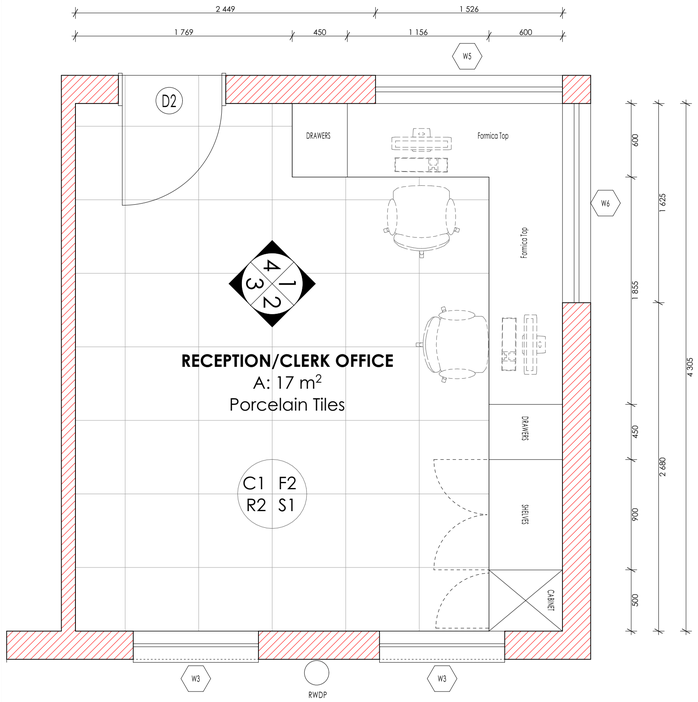

RECEPTION/CLERK OFFICE PLAN:
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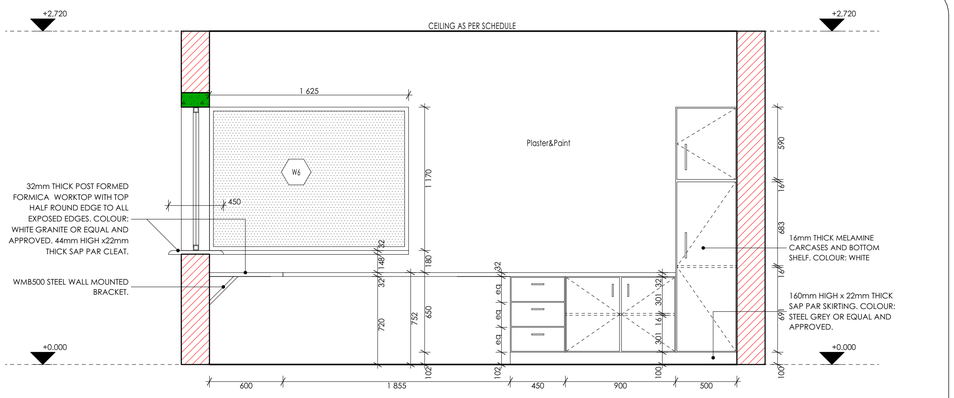

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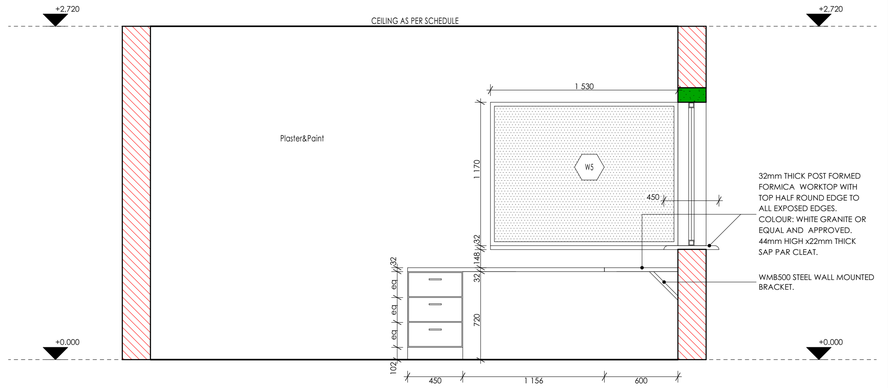

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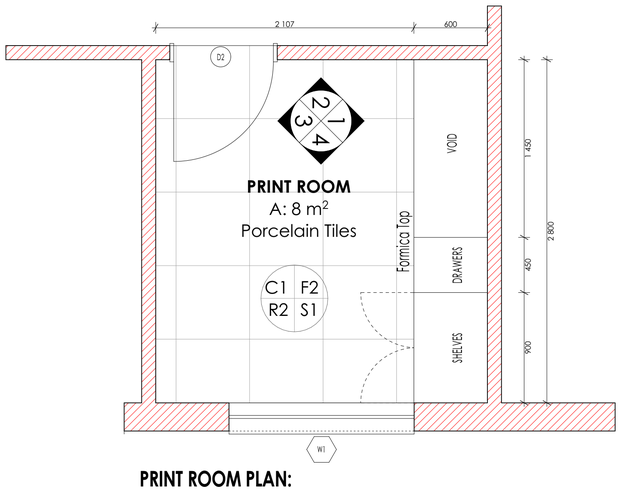

PRINT ROOM PLAN:
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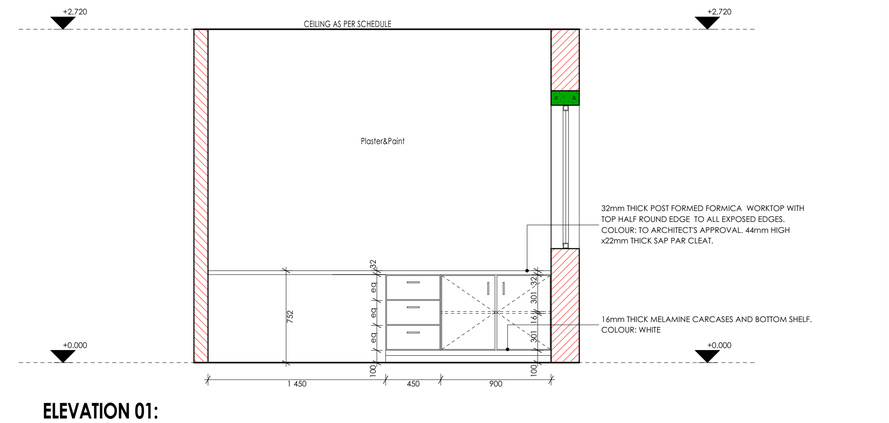

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N

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RCPTN/CLK OFC. | PRINT RM. JOINERY DTLS

DRG No.	301-08	08/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/2014		0

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90º outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90º outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. "Cobra Watertech" 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with: 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Elbow action pillar-tap, with , turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2 • Paper towell dispenser K8 and bin type K3 • Soap dispenser type K9 . • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS
600mm x 320mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP. 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup, CP. Double drain black rubber deep seal 'P' -trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 320D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 300mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
920mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL or as specified.

G2: PROJECTOR SCREEN
Pull-down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturers instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

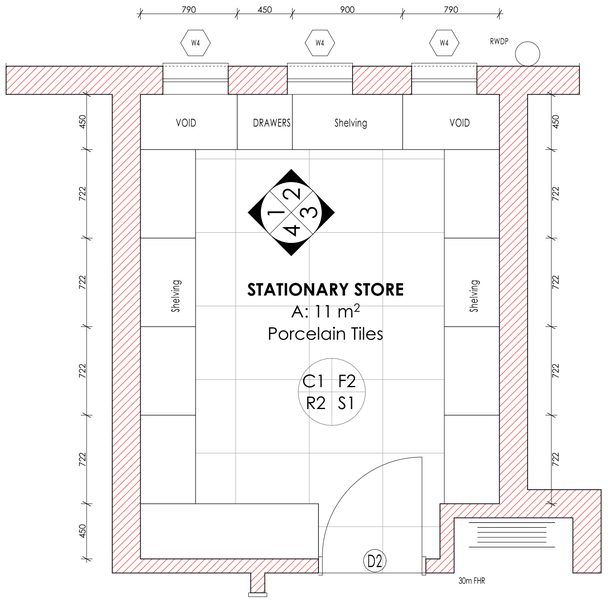
G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

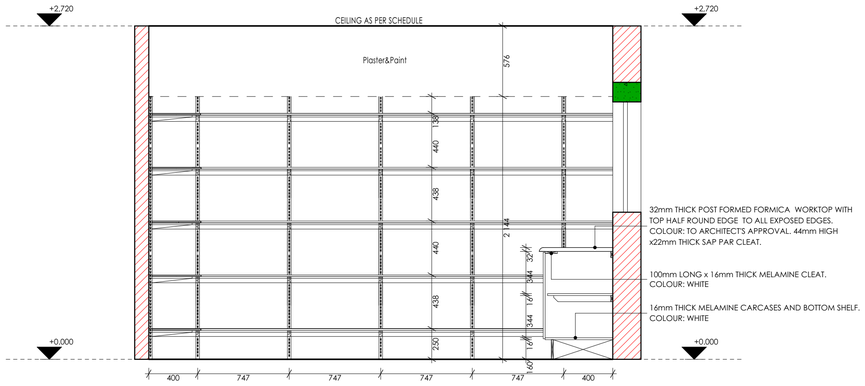
G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt. , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

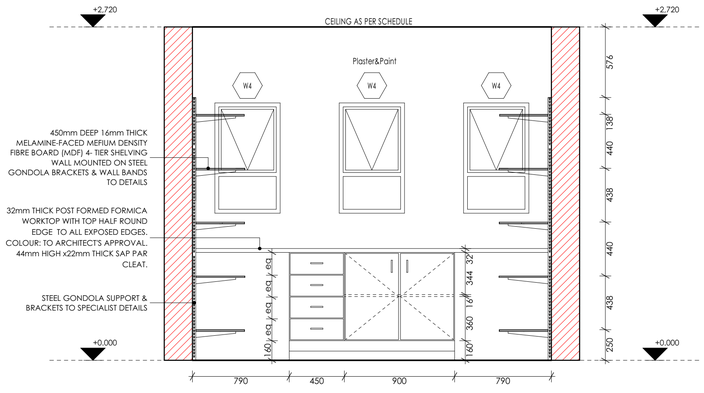
G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM17972), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance to the manufacturer's instructions.



STATIONARY STORE PLAN:
Scale 1:25.



ELEVATION 01:
Scale 1:25.



ELEVATION 02:
Scale 1:25.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

C	NOV 19	APPROVED SCOPING REPORT
B	JULY 19	AMENDMENTS TO DESIGN LAYOUT
A	SEPT 17	FIRST ISSUE OF DRAWING
REV. NO.	DATE	DESCRIPTION

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
MEDIUM ADMINISTRATION BLOCK

DRAWING DESCRIPTION
STATIONARY STORE JOINERY DETAILS

DRG No.	301-09	09/10	ITEM No.
DESIGN	NA	KSN	DRAWN
SCALE	AS -SHOWN	ES	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

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TECTURA - INTERNATIONAL

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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/314		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

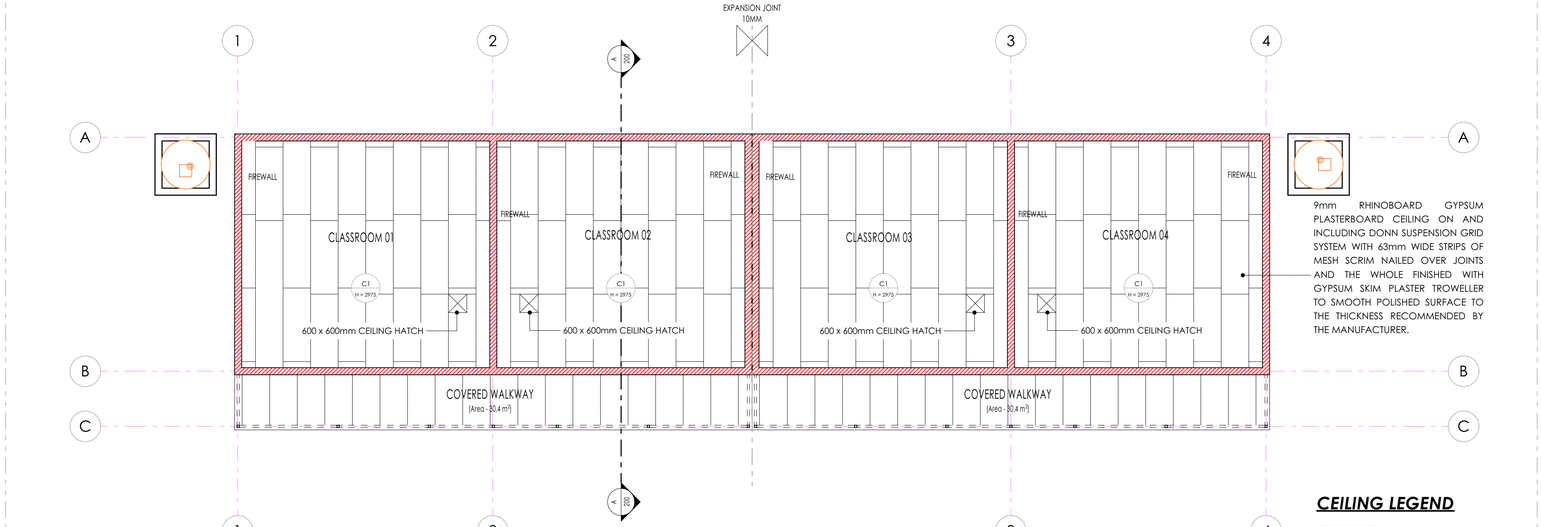
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

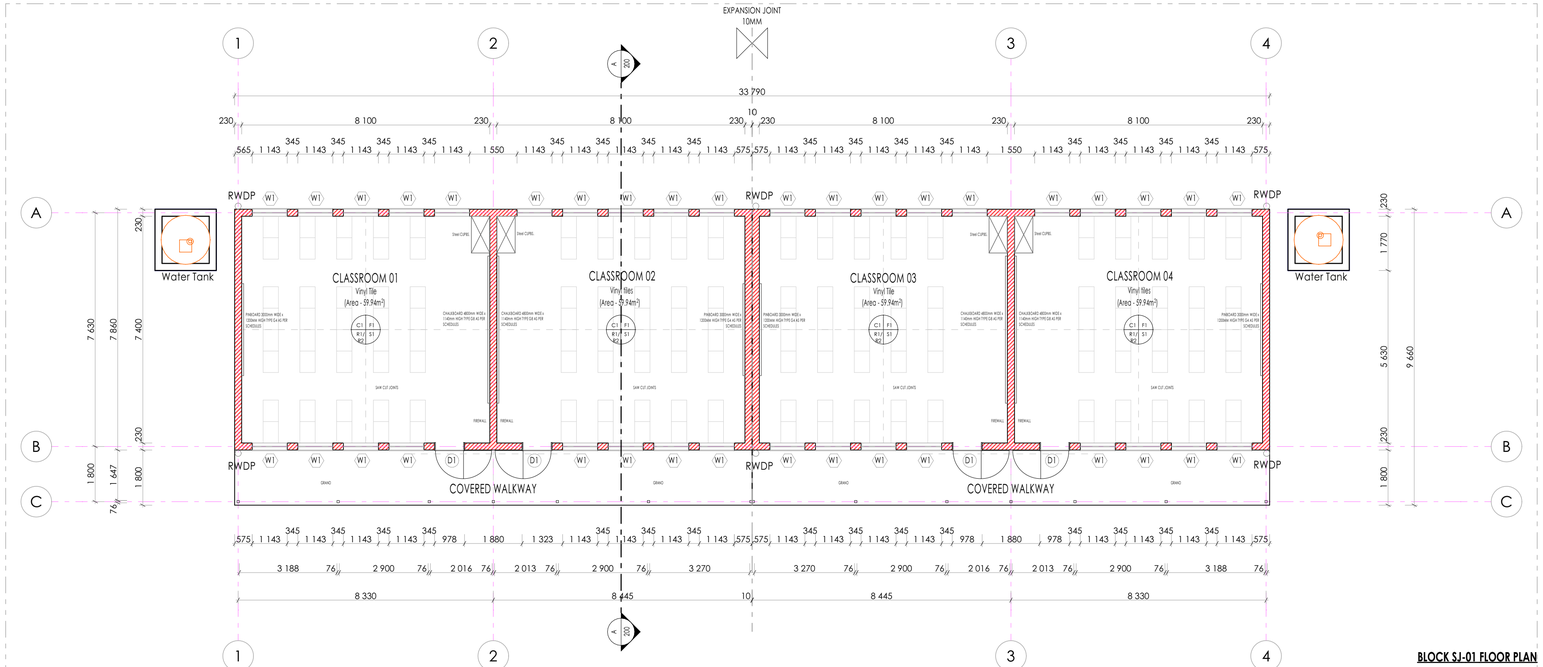
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S1). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CEILING LEGEND

CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.

BLOCK SJ-01 CEILING PLAN
SCALE 1:100



BLOCK SJ-01 FLOOR PLAN
SCALE 1:100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH · FLOOR FINISH · C F R S · WALL FINISH · WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - GROUND & CEILING PLAN

DRG No.	D14-401-01	01/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

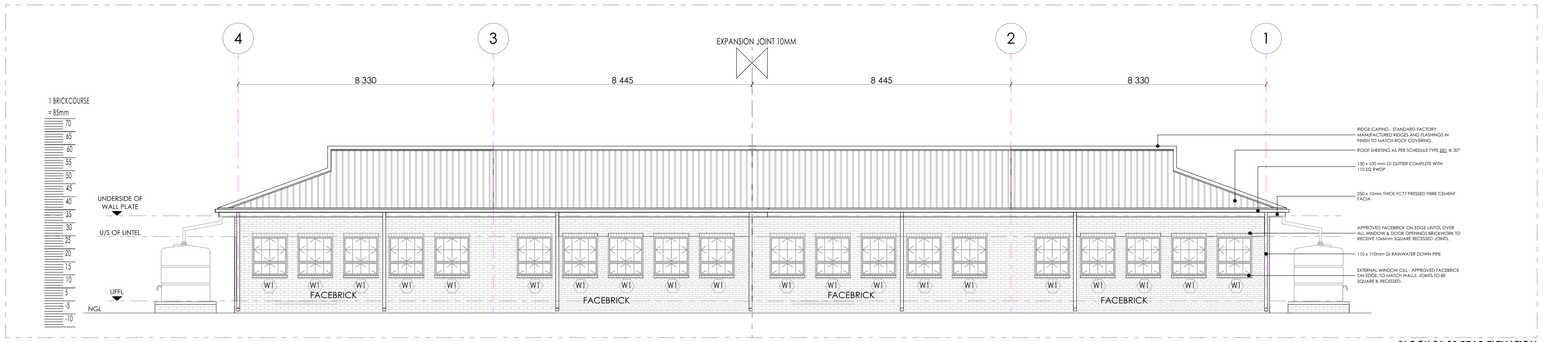
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

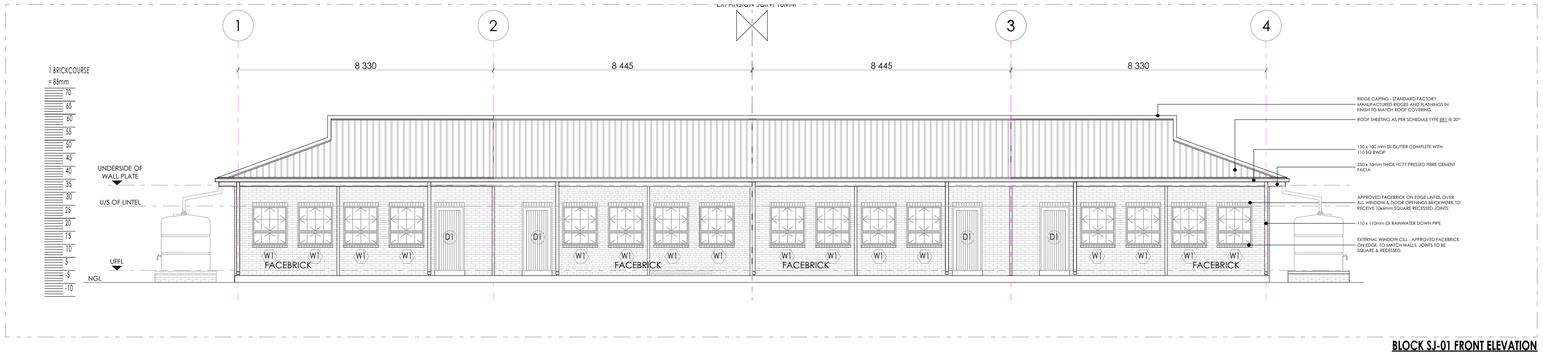
C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

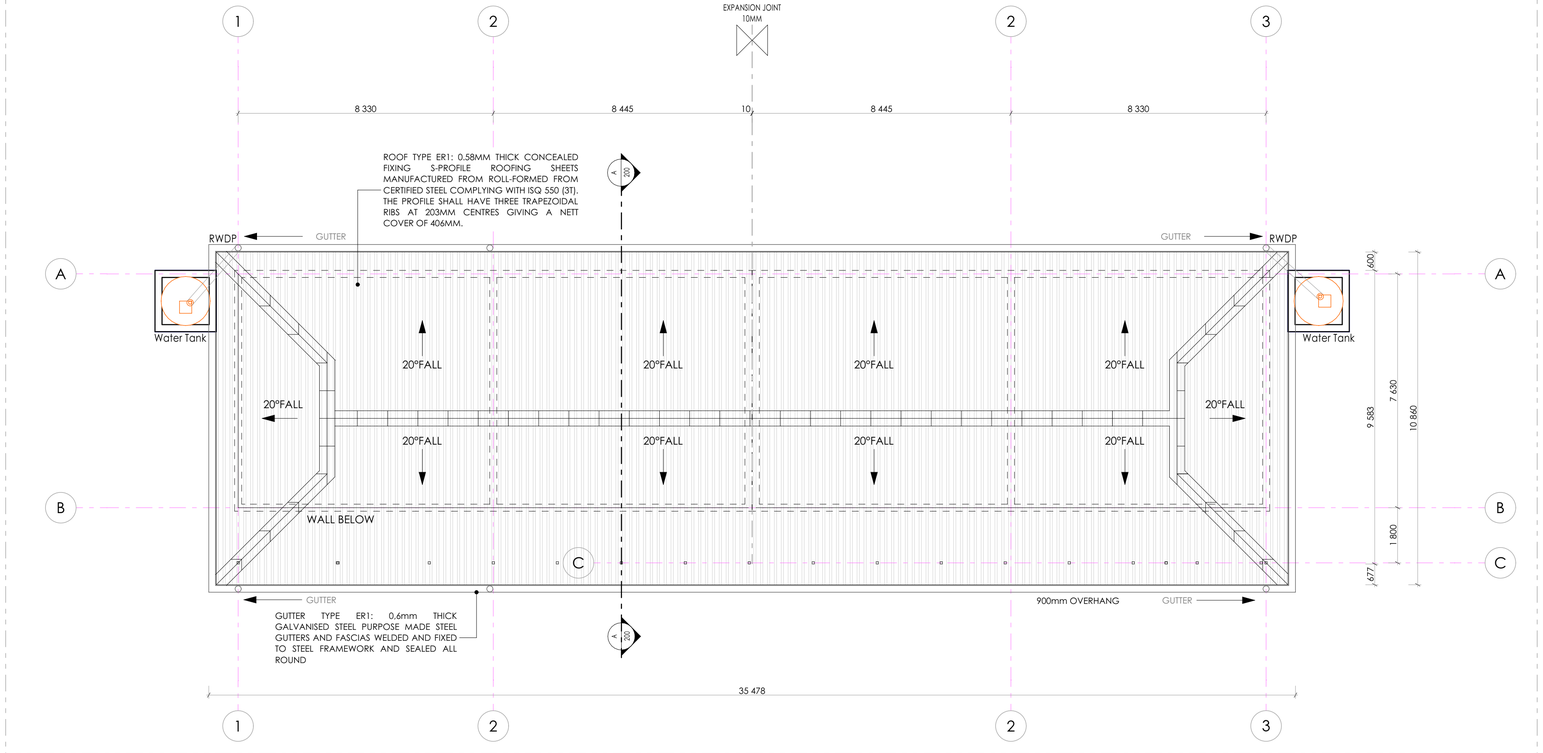
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



BLOCK SJ-01 REAR ELEVATION
SCALE 1:100



BLOCK SJ-01 FRONT ELEVATION
SCALE 1:100



BLOCK SJ-01 ROOF PLAN
SCALE 1:100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH | FLOOR FINISH | C F R S | WALL FINISH | WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - ROOF PLAN | FRONT & REAR

DRG No.	D14-401-02	02/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

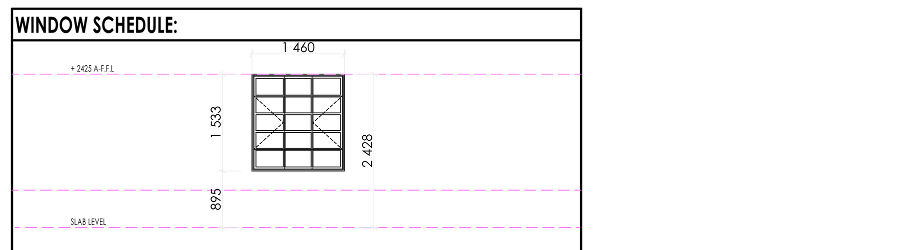
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

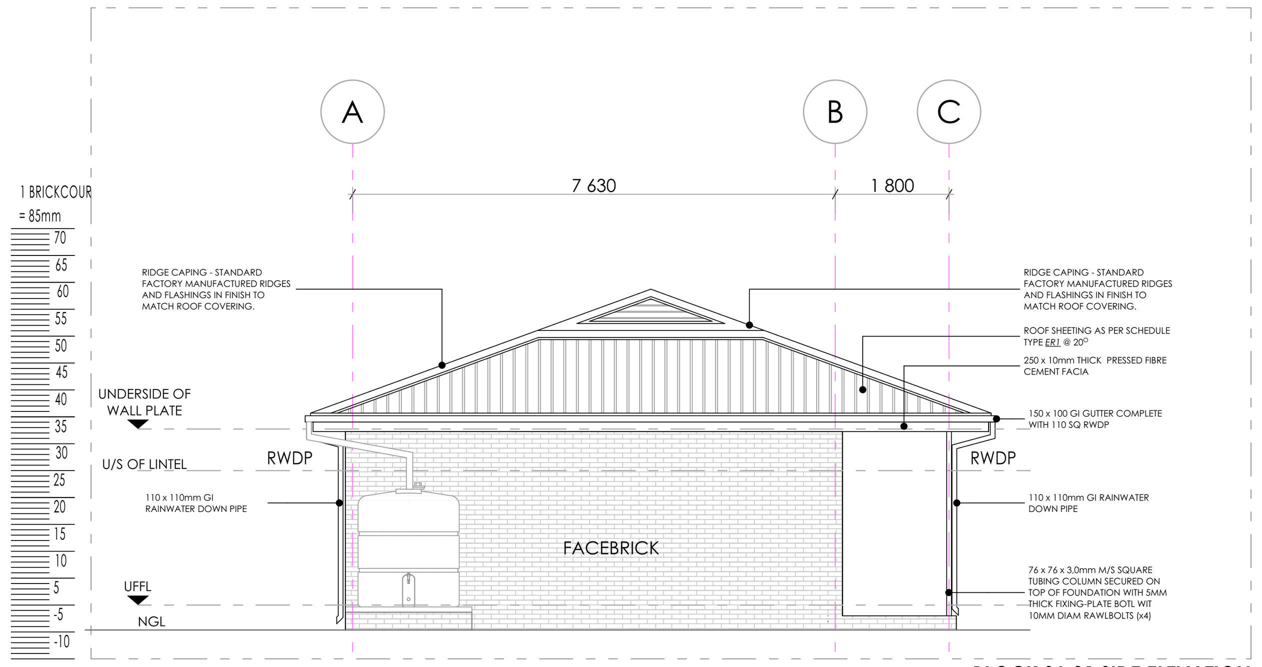
BLOCK SJ-01 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

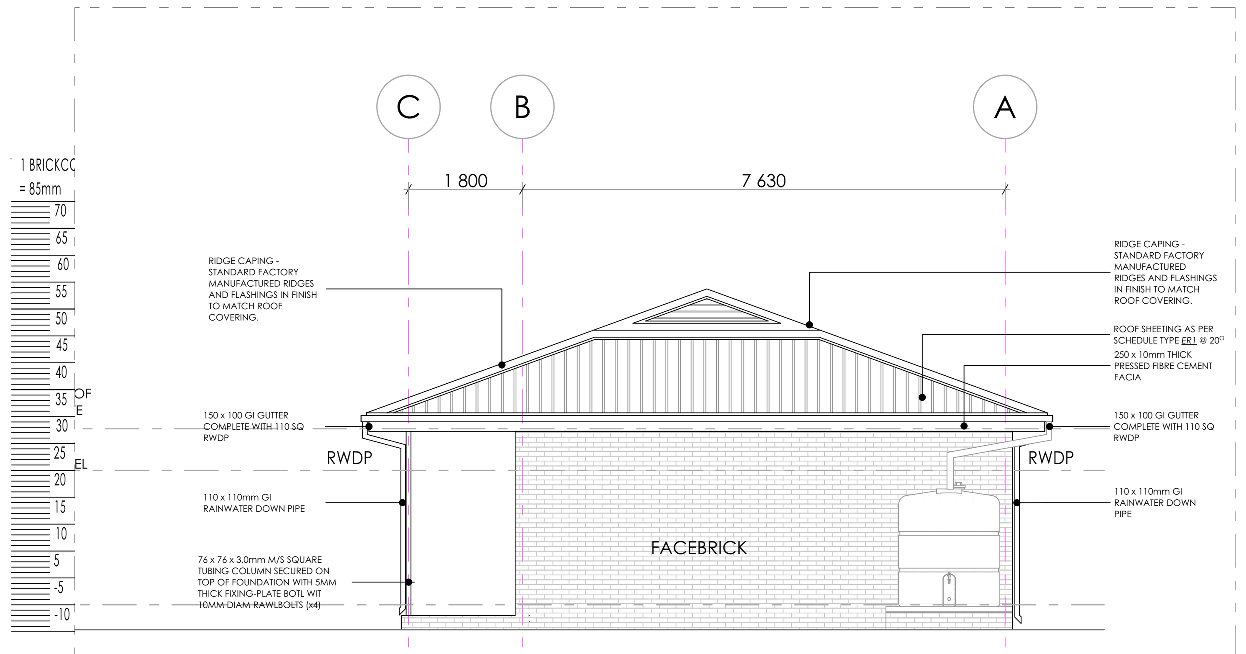


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

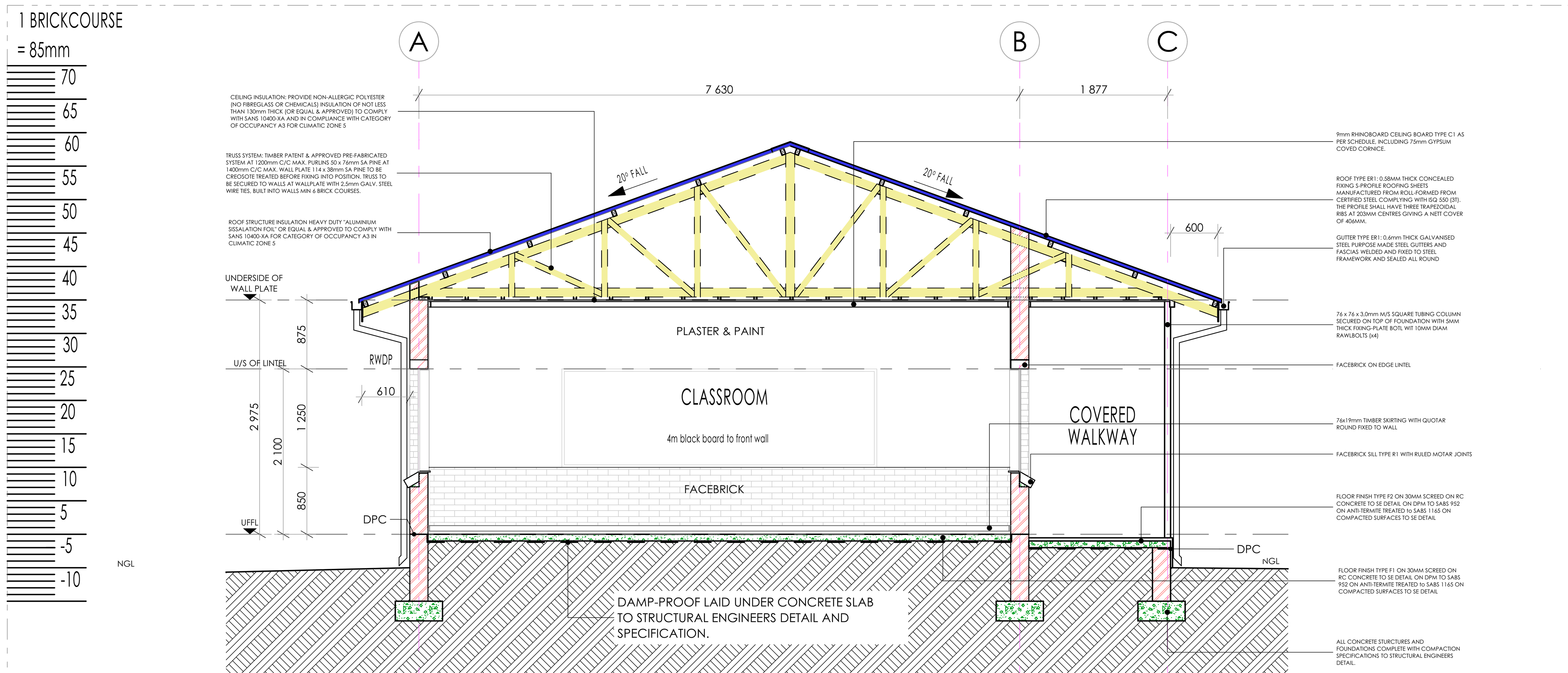
BLOCK SJ-01 WINDOW SCHEDULE
SCALE 1:100



BLOCK SJ-01 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-01 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-01 SECTION SJ-01
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — C; FLOOR FINISH — F; WALL FINISH — R; WALL SKIRTING FINISH — S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION: **REBONE SECONDARY - 924 642 589**

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION: **DOCUMENTATION & PROCUREMENT**

DISCIPLINE: **ARCHITECTURAL** 4

WORK DESCRIPTION - SUB DIVISION: **PROTOTYPE DRAWINGS - STAGE 04**

DRAWING DESCRIPTION: **SECTION | SIDE ELEVATIONS | SCHEDULES**

DRG No.	D14-401-03	03/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VENICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness. Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

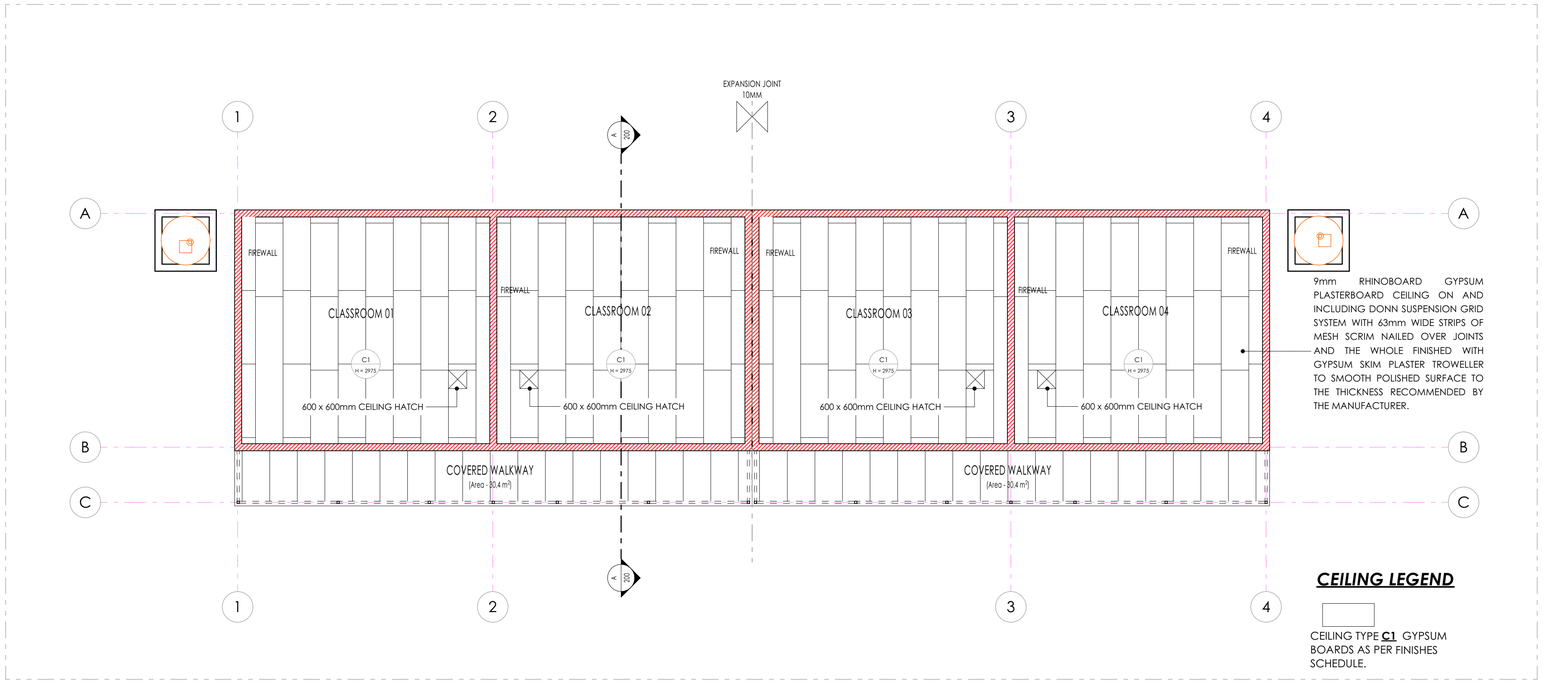
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

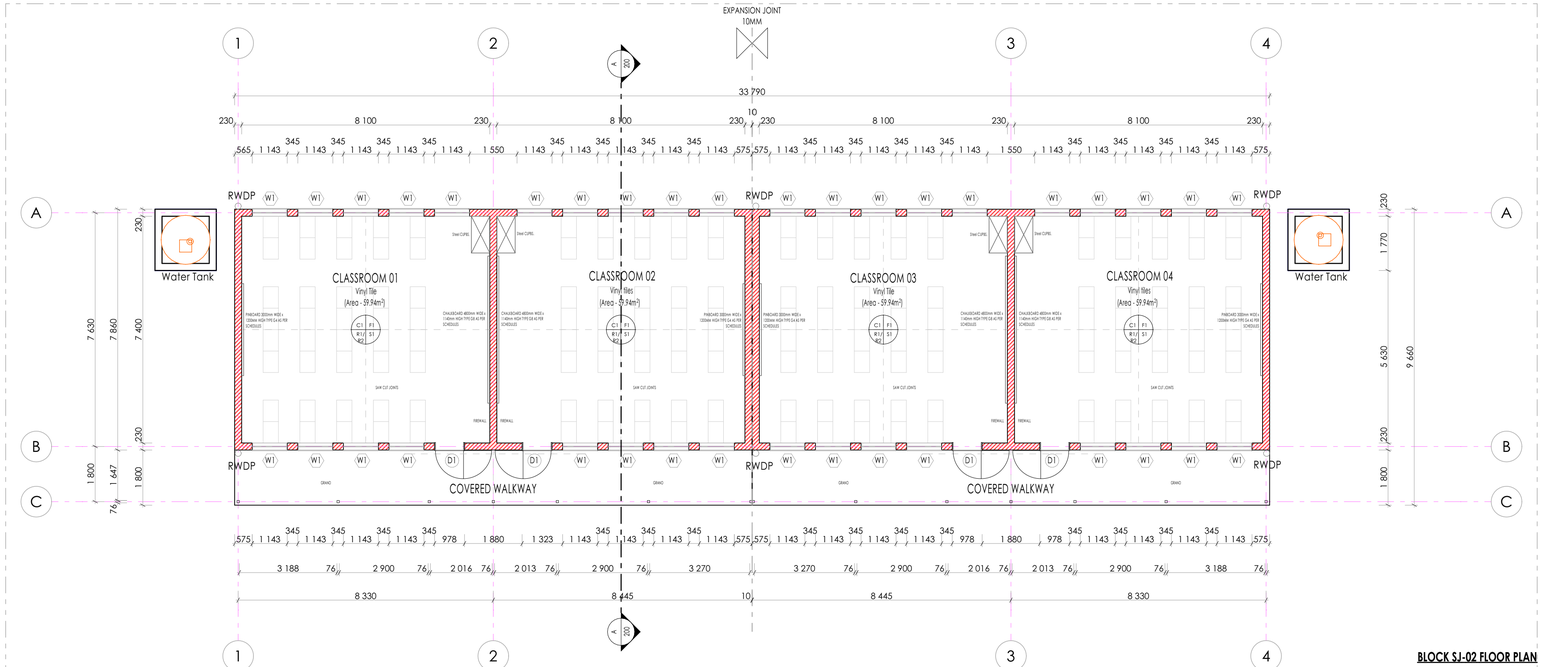
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S7). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CEILING LEGEND

CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.

BLOCK SJ-02 CEILING PLAN
SCALE 1:100



BLOCK SJ-02 FLOOR PLAN
SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH · FLOOR FINISH · C F R S · WALL FINISH · WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - GROUND & CEILING PLAN

DRG No.	D14-402-01	01/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification 'R5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

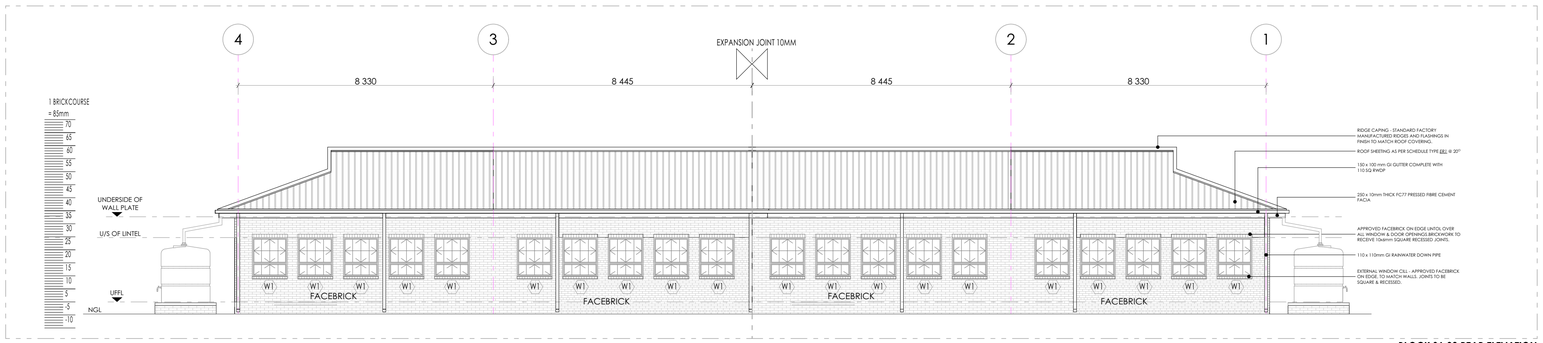
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



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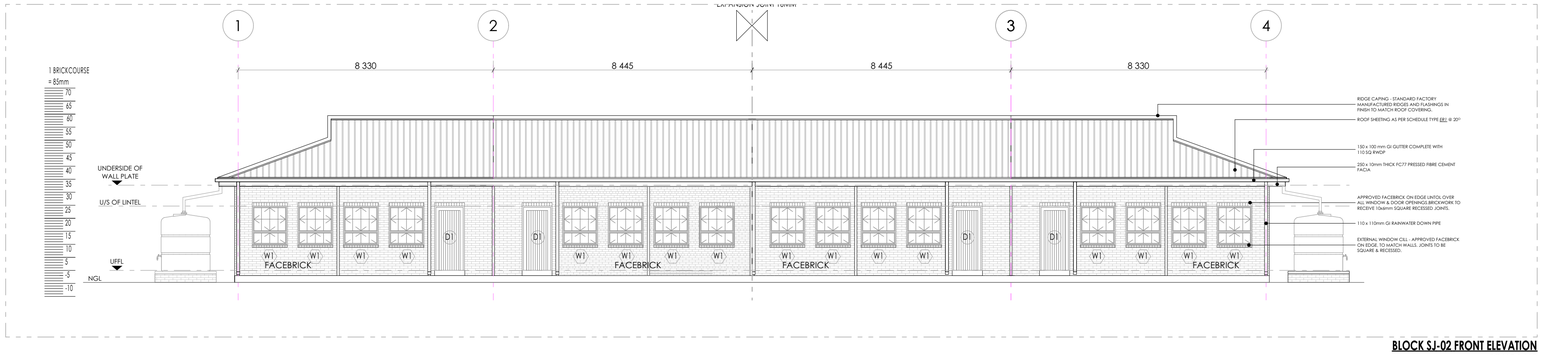

BLOCK SJ-02 FRONT ELEVATION
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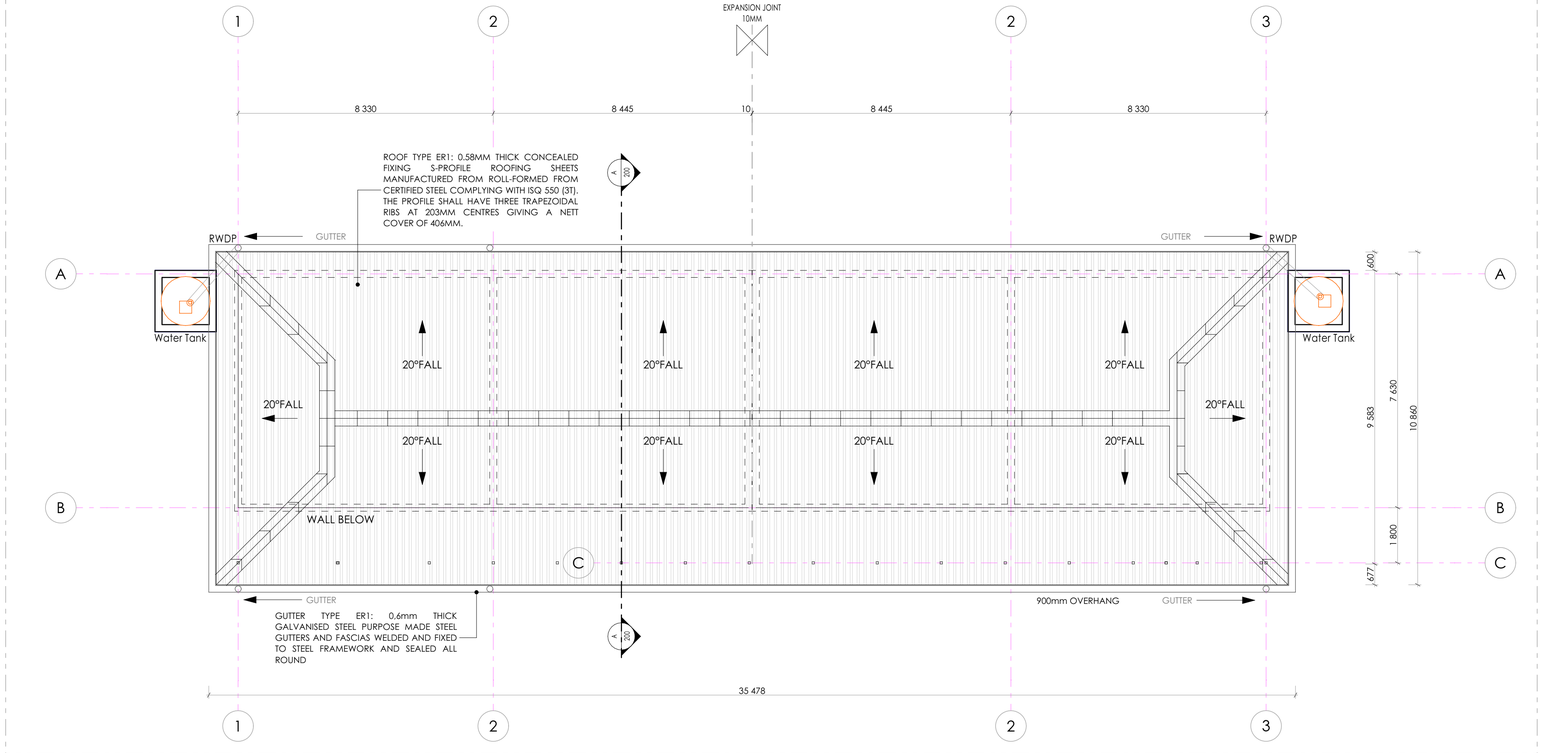

BLOCK SJ-02 ROOF PLAN
SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH — WALL FINISH — WALL SKIRTING FINISH — C F R S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - ROOF PLAN | FRONT & REAR

DRG No.	D14-402-03	02/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

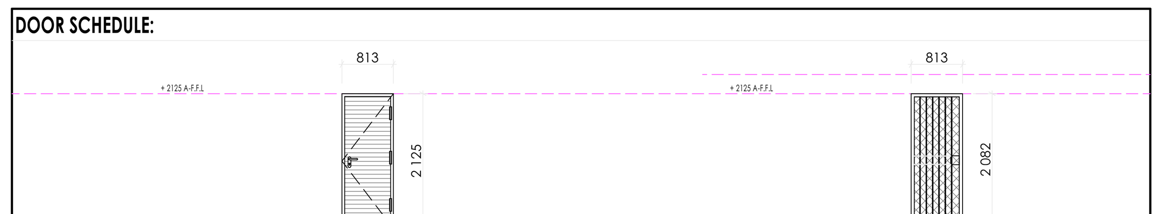
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

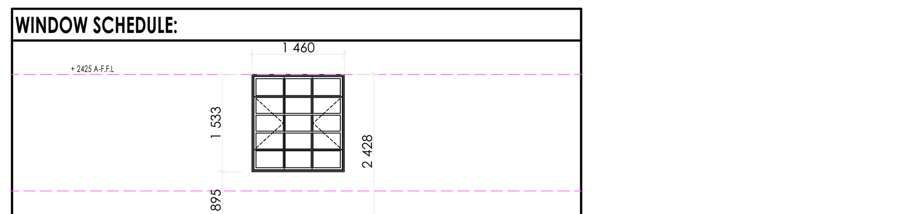
DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

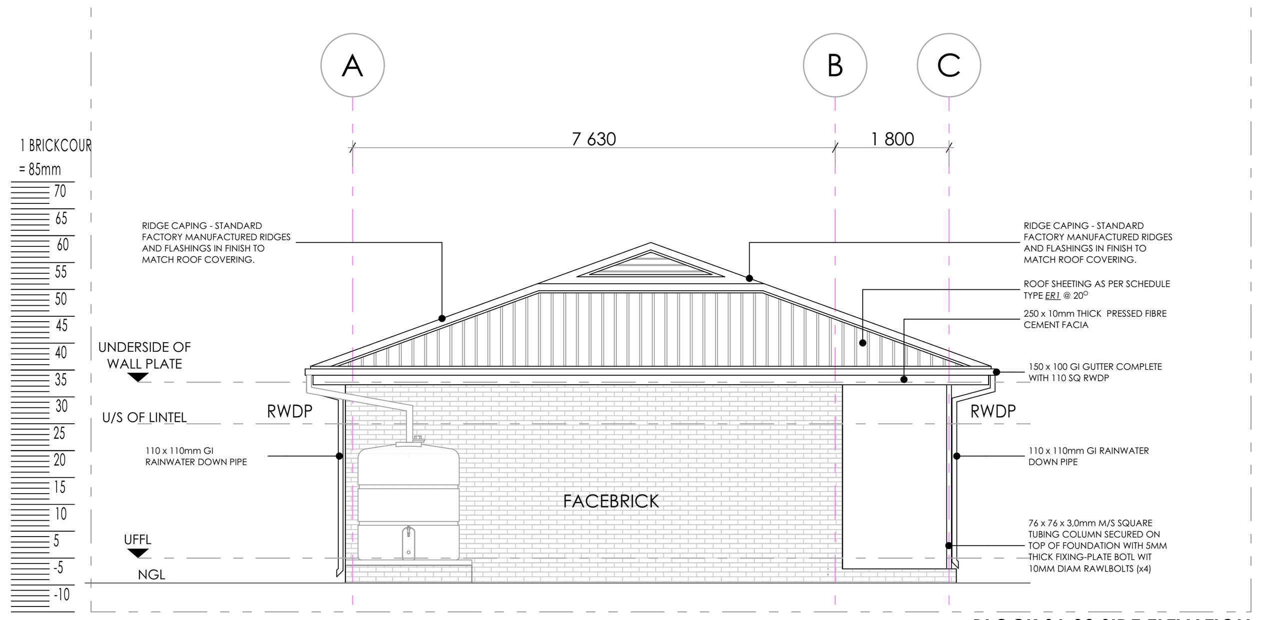
BLOCK SJ-02 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:



WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK SJ-02 WINDOW SCHEDULE
SCALE 1:100



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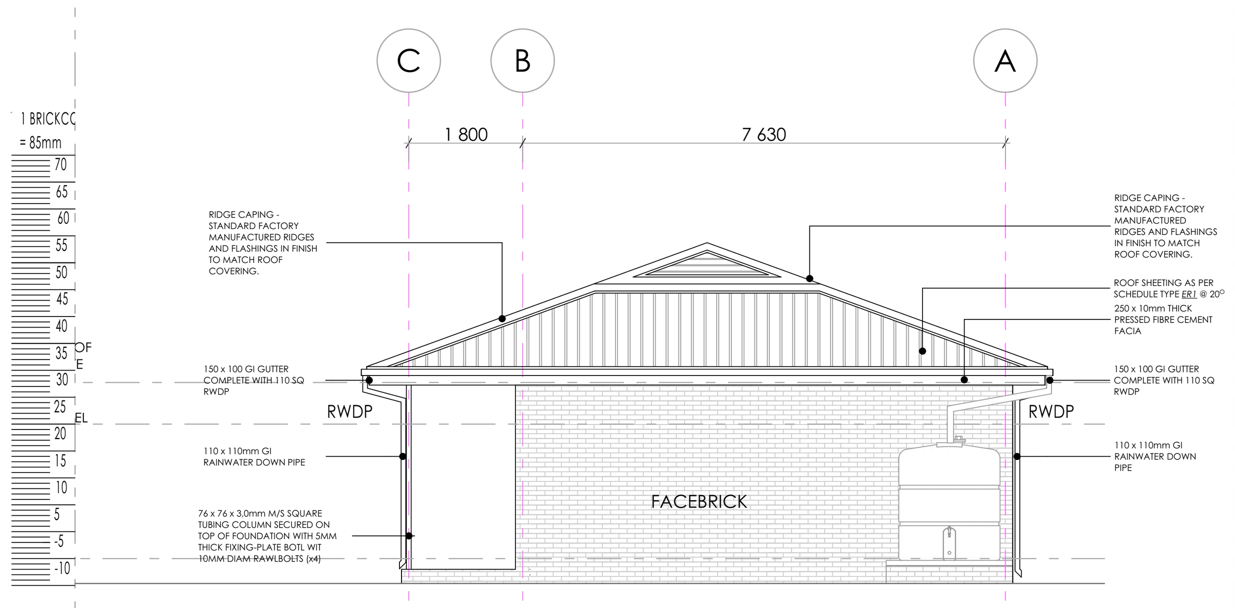
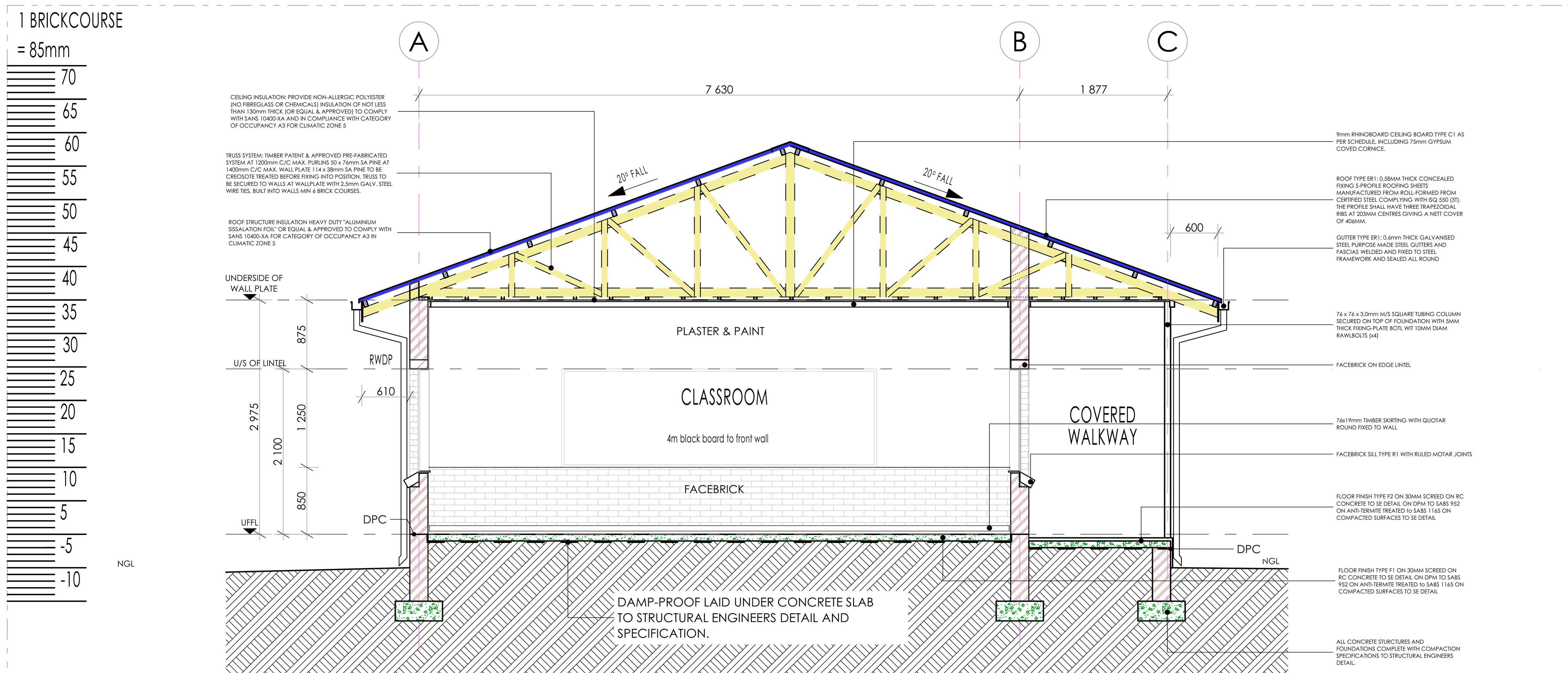
SCALE 1:100



BLOCK SJ-02 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-02 SECTION SJ-01
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with; 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-rack two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

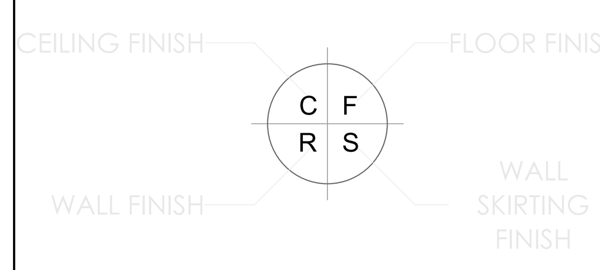
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04
DRAWING DESCRIPTION
SECTION | SIDE ELEVATIONS | SCHEDULES

DRG No.	D14-402-03	03/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

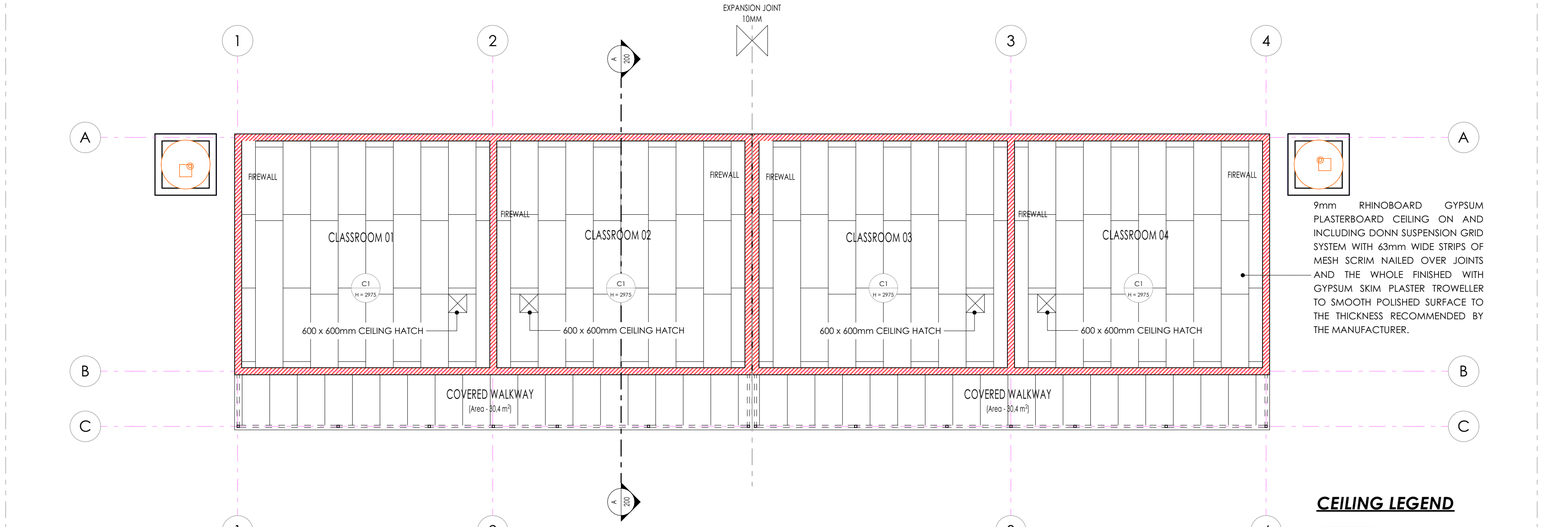
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

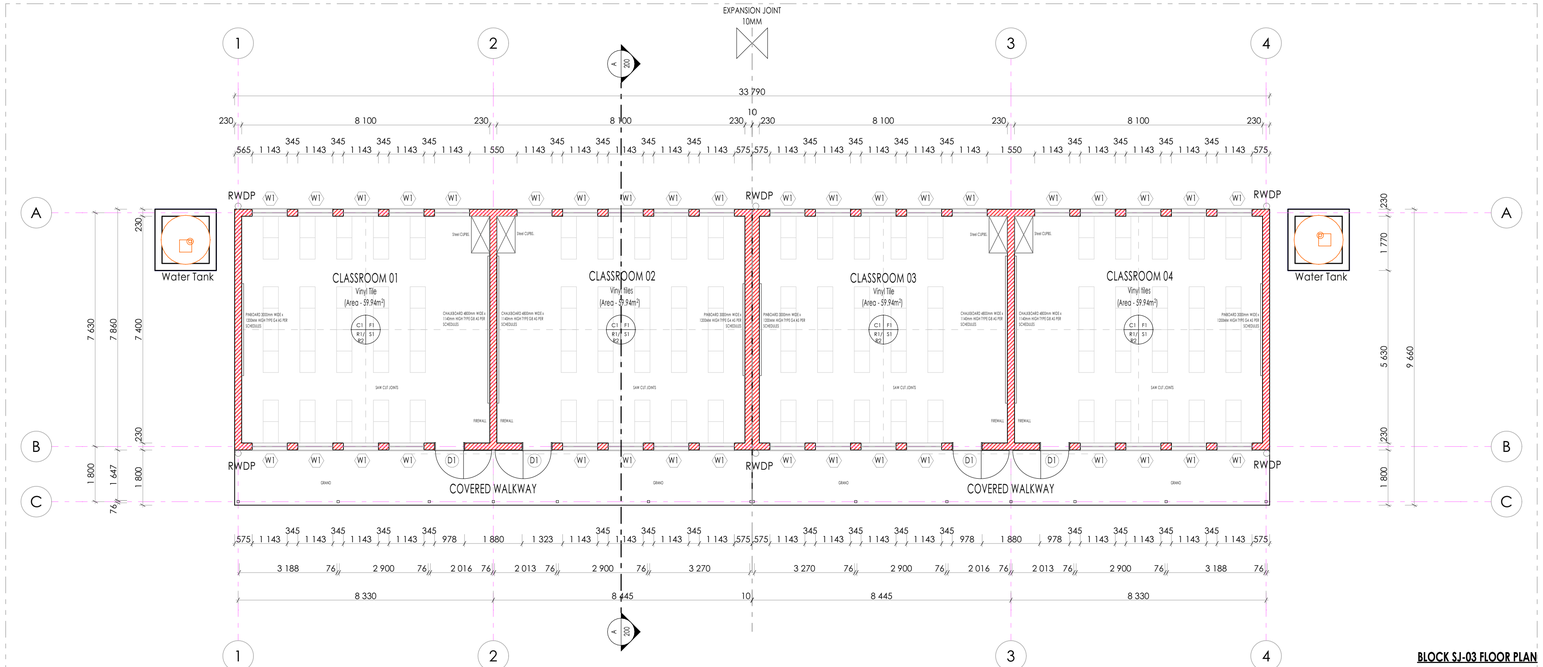
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S7). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CEILING LEGEND

CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.

BLOCK SJ-03 CEILING PLAN
SCALE 1:100



BLOCK SJ-03 FLOOR PLAN
SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
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DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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FINISHES LEGEND

CEILING FINISH · FLOOR FINISH · C F R S · WALL FINISH · WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - GROUND & CEILING PLAN

DRG No.	D14-403-01	01/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

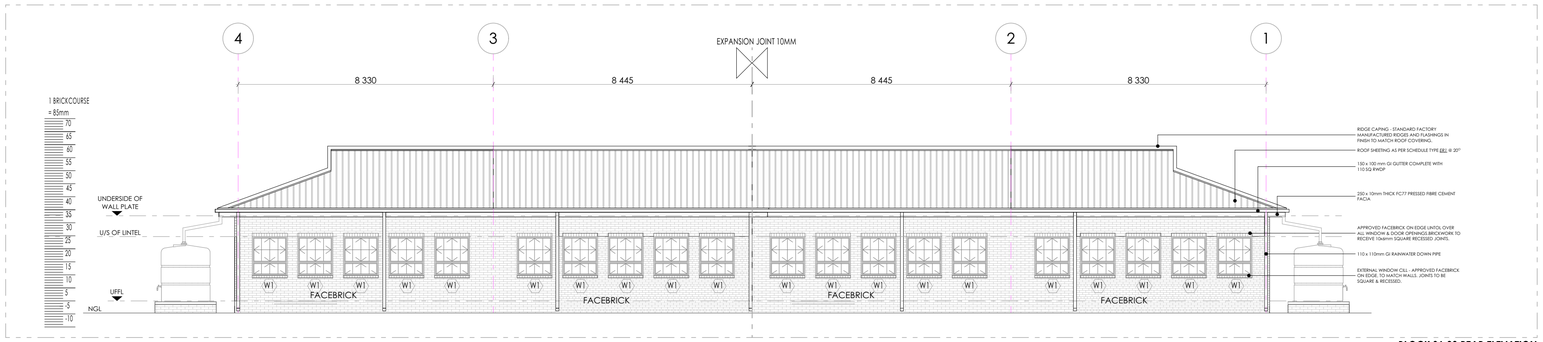
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

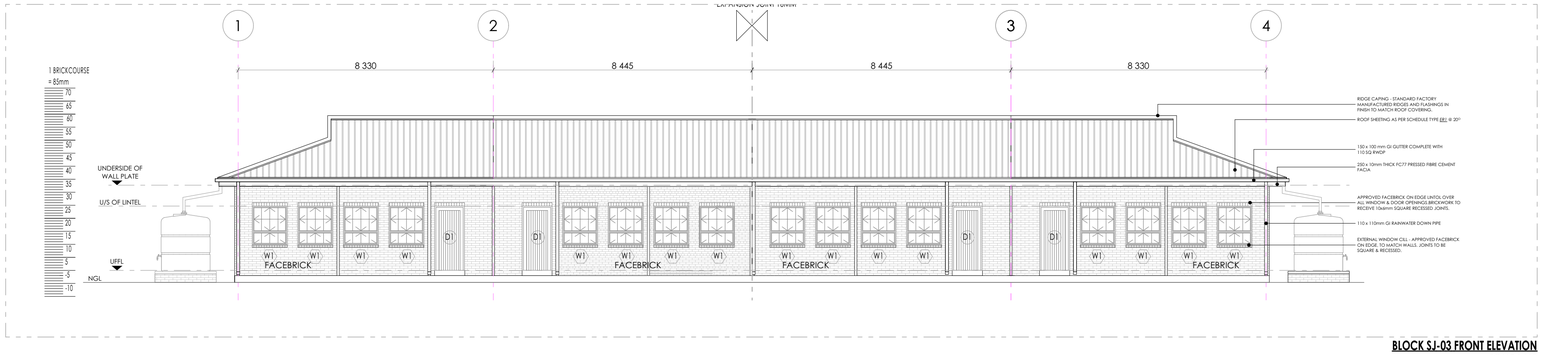
C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

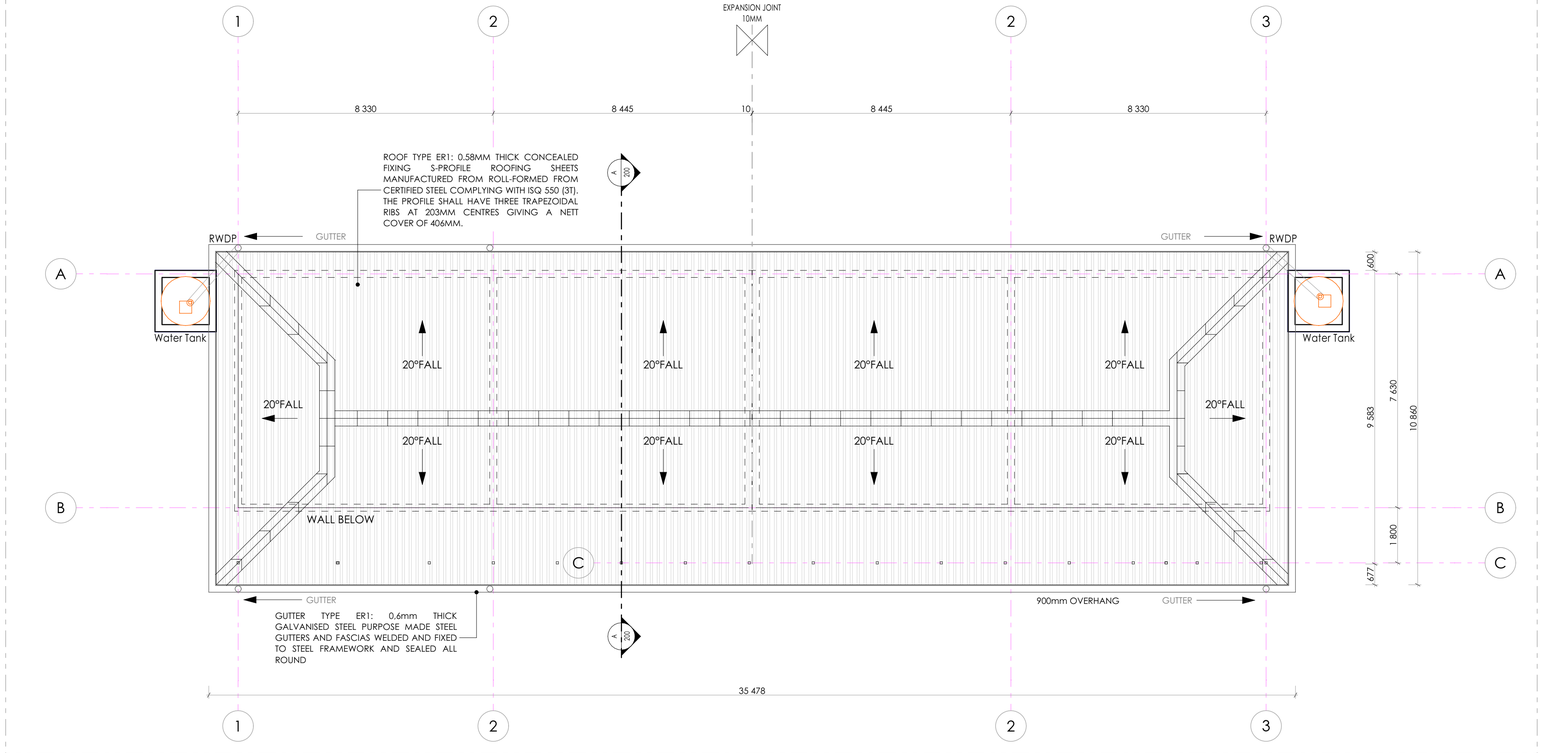
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



BLOCK SJ-03 REAR ELEVATION
SCALE 1:100



BLOCK SJ-03 FRONT ELEVATION
SCALE 1:100



BLOCK SJ-03 ROOF PLAN
SCALE 1:100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH | FLOOR FINISH | C F R S | WALL FINISH | WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - ROOF PLAN | FRONT & REAR

DRG No.	D14-403-03	02/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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www.tectural.com
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

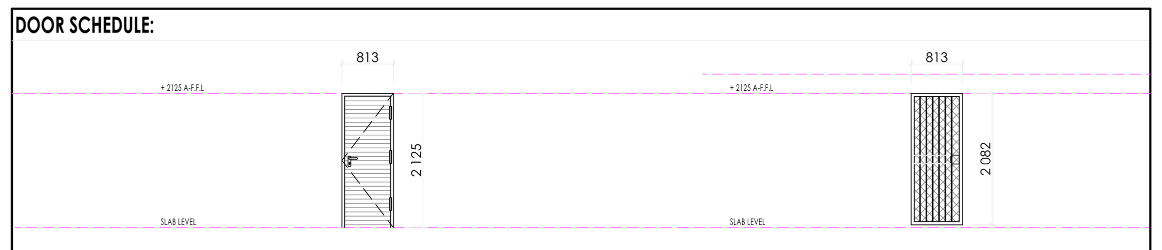
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

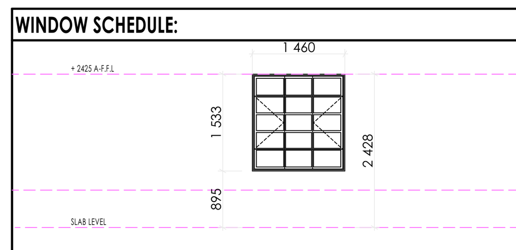


EXTERIOR DOOR	
QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BURGLAR DOOR (SINGLE)	
QUANTITY	04
DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

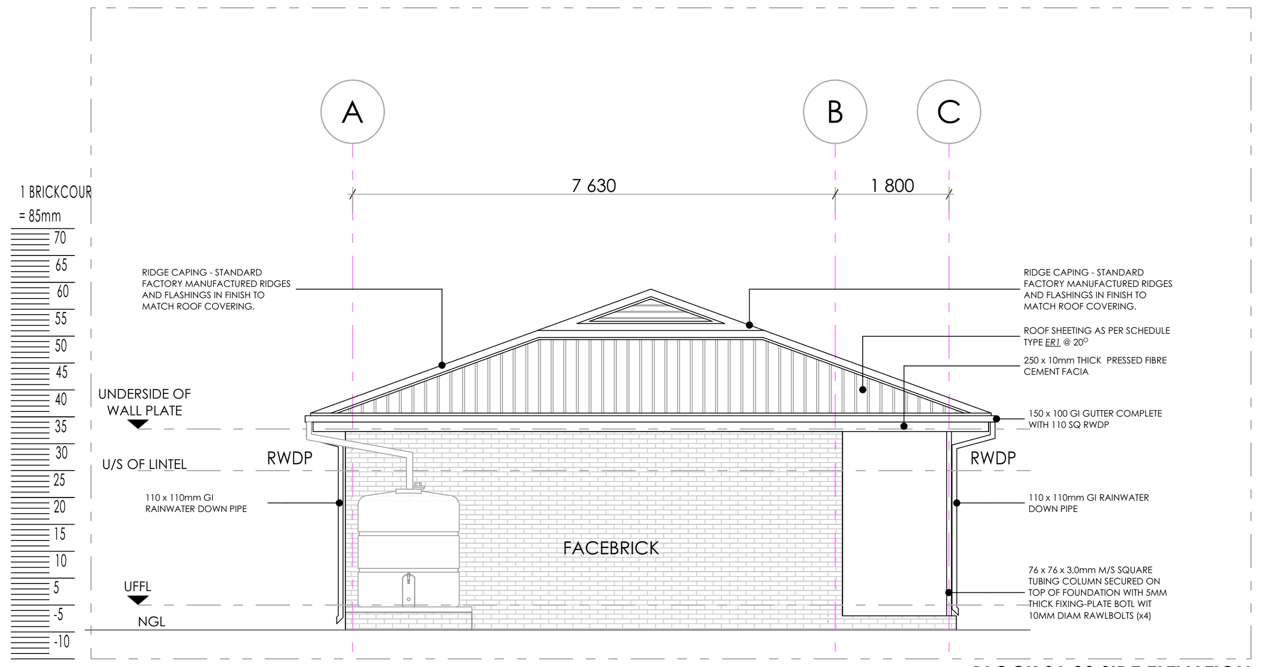
BLOCK SJ-03 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

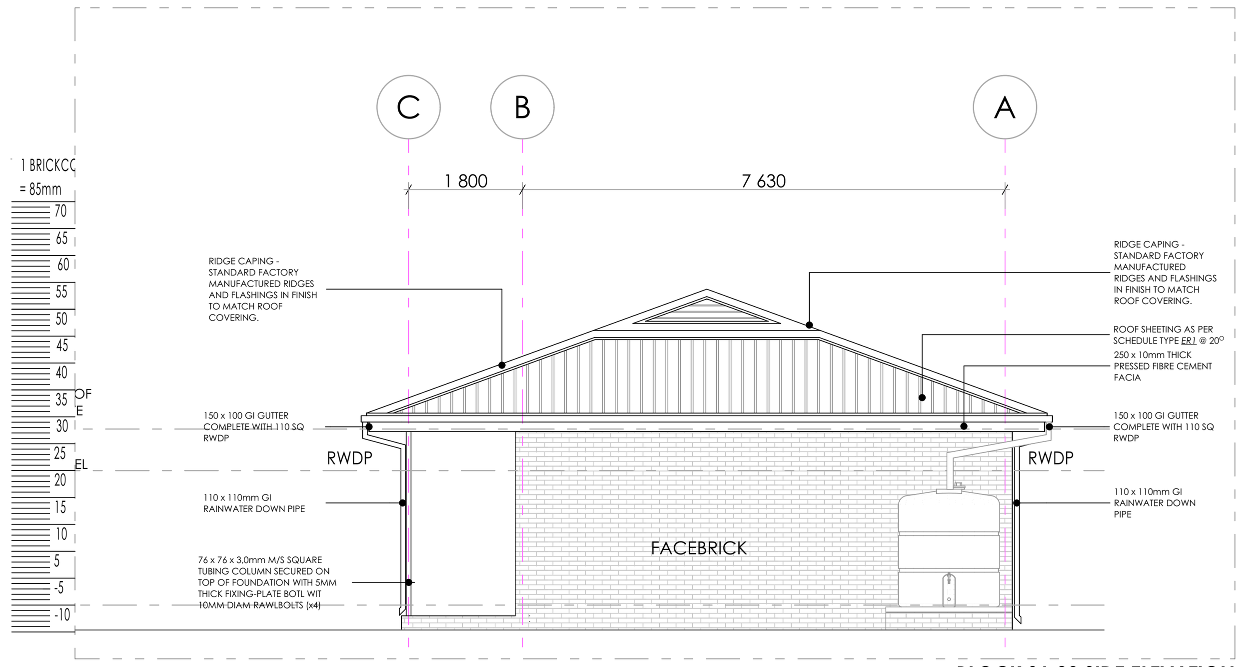


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

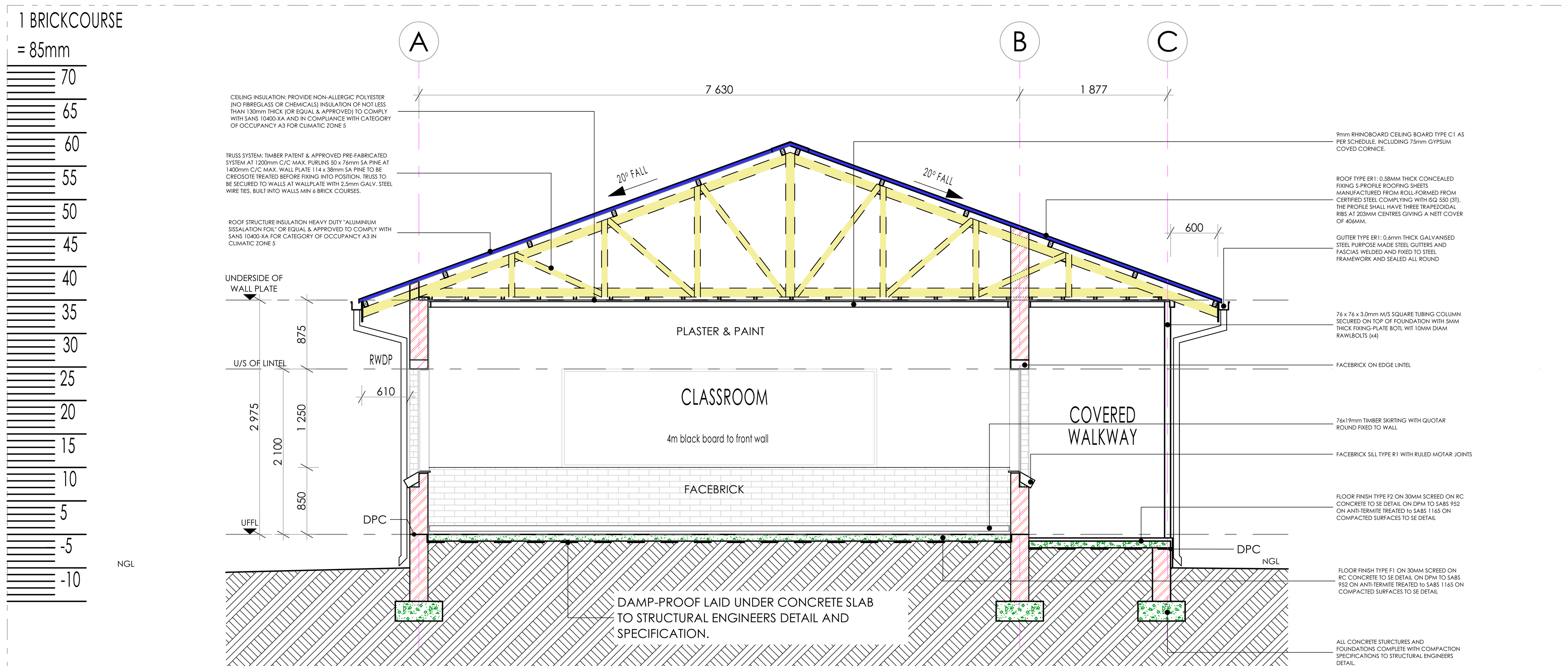
BLOCK SJ-03 WINDOW SCHEDULE
SCALE 1:100



BLOCK SJ-03 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-03 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-03 SECTION SJ-03
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH — WALL FINISH — WALL SKIRTING FINISH
C F
R S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04
DRAWING DESCRIPTION
SECTION | SIDE ELEVATIONS | SCHEDULES

DRG No.	D14-403-03	03/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

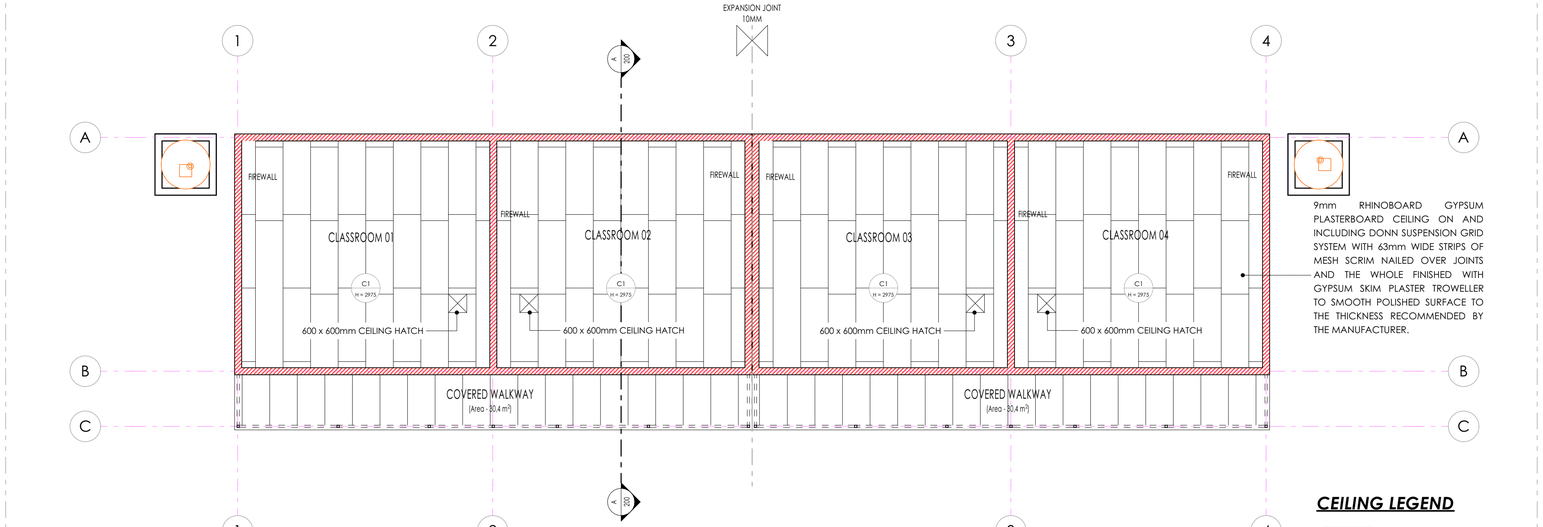
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

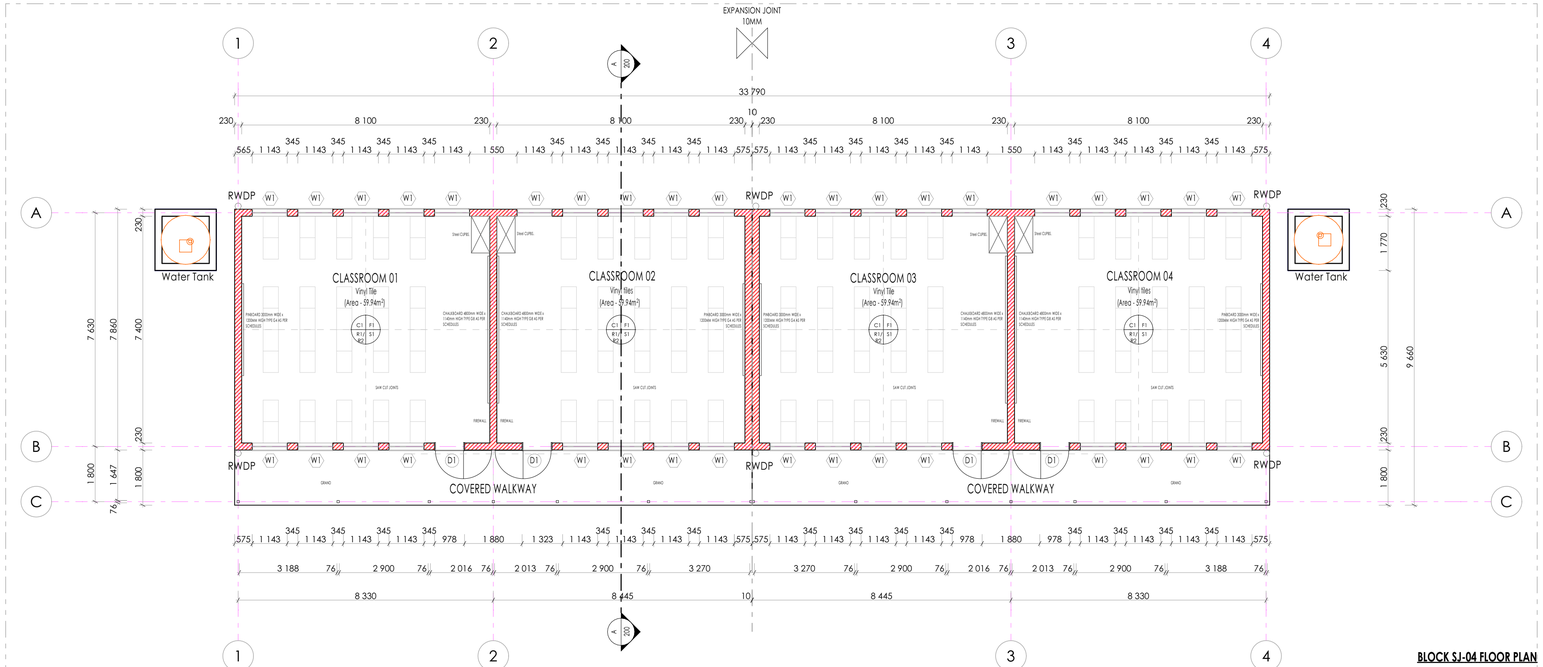
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S1). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CEILING LEGEND

CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.

BLOCK SJ-04 CEILING PLAN
SCALE 1:100



BLOCK SJ-04 FLOOR PLAN
SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH · FLOOR FINISH · C F R S · WALL FINISH · WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

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PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - GROUND & CEILING PLAN

DRG No.	D14-404-01	01/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

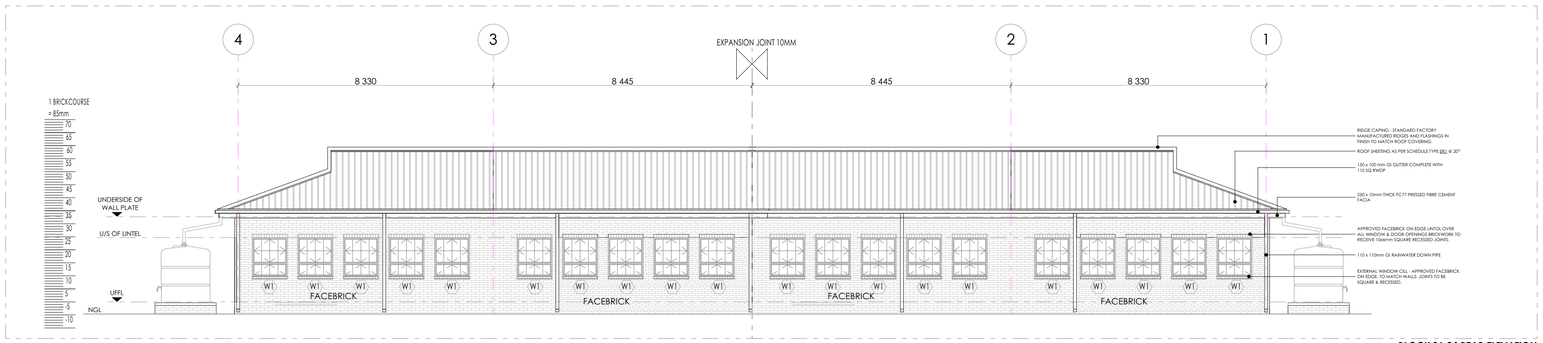
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



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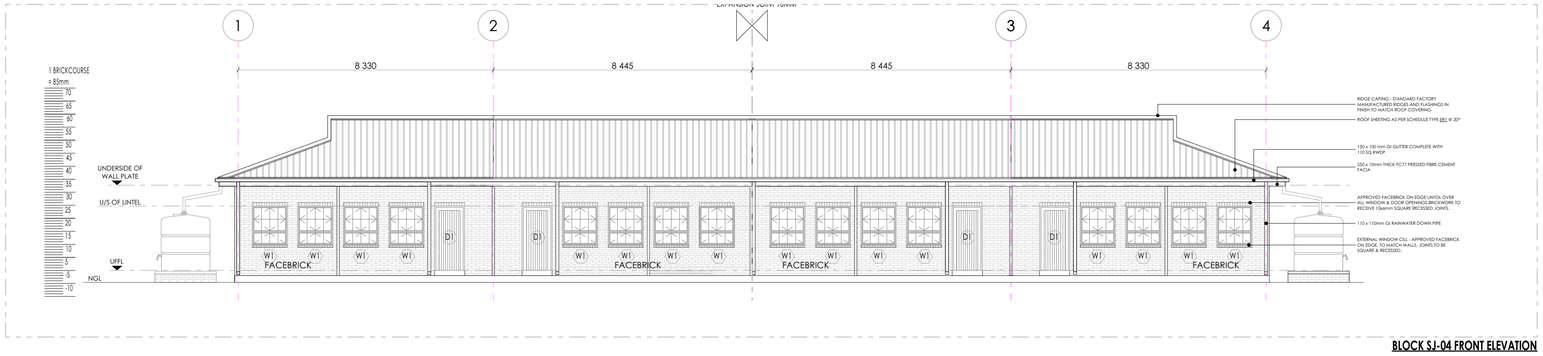

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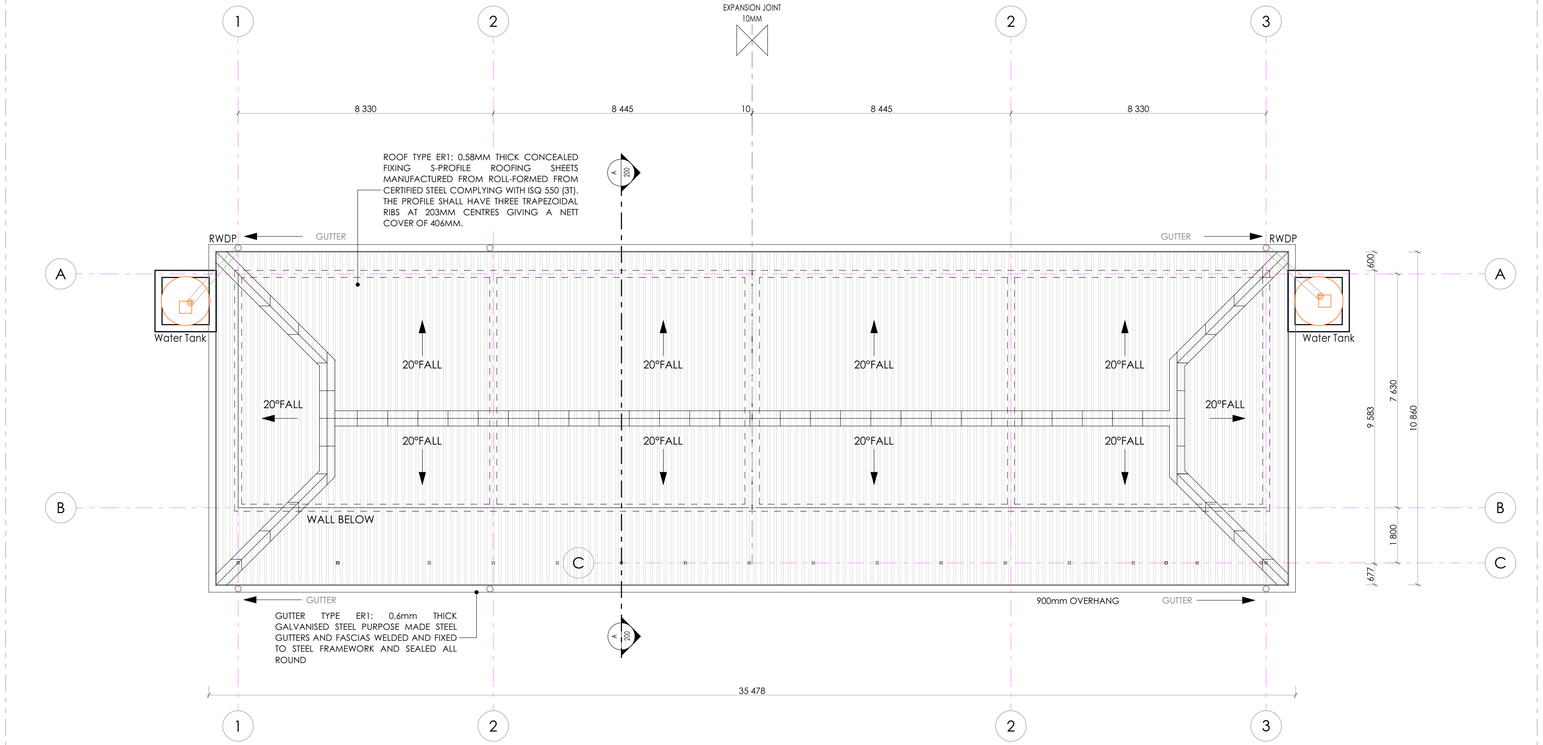
SCALE 1:100



BLOCK SJ-04 ROOF PLAN
SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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FINISHES LEGEND

CEILING FINISH | FLOOR FINISH | C F R S | WALL FINISH | WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - ROOF PLAN | FRONT & REAR

DRG No.	D14-404-03	02/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

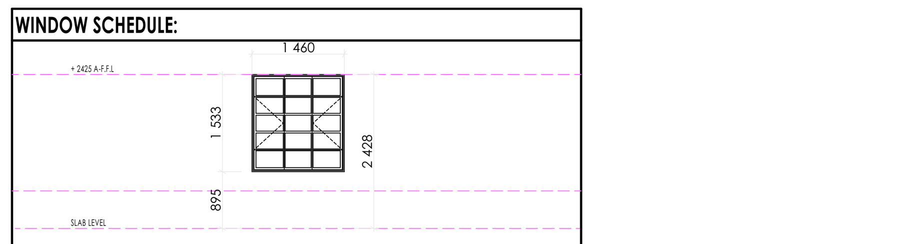
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:

EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

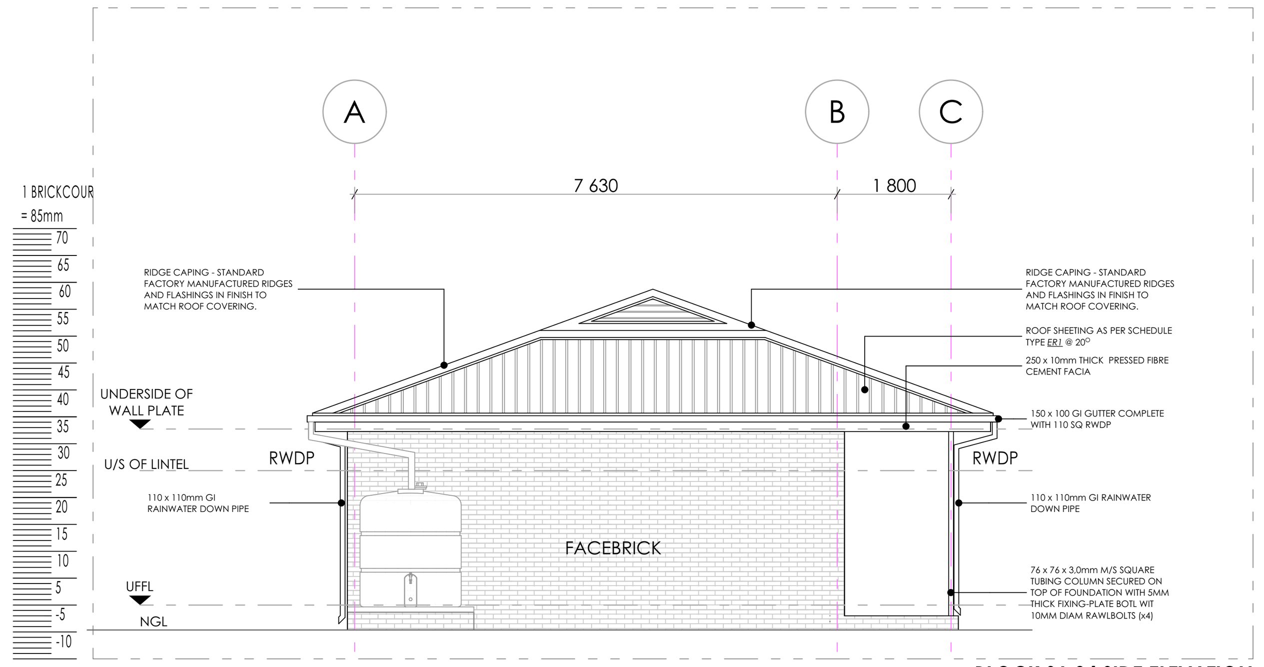
BLOCK SJ-04 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

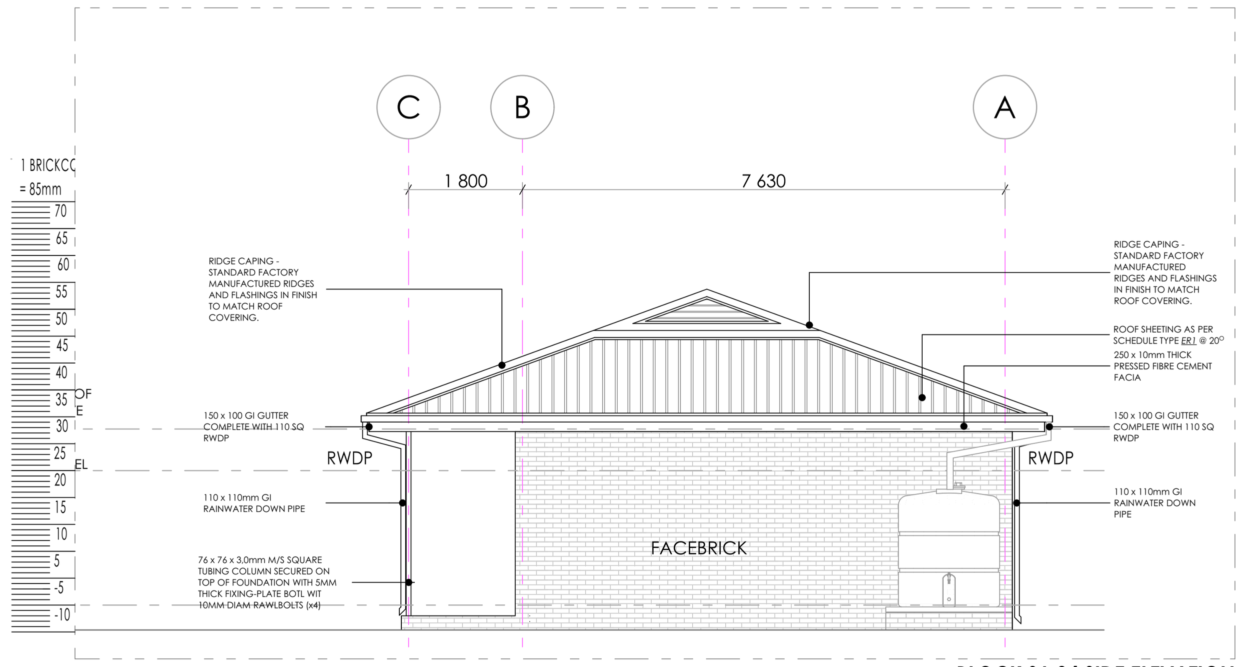


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

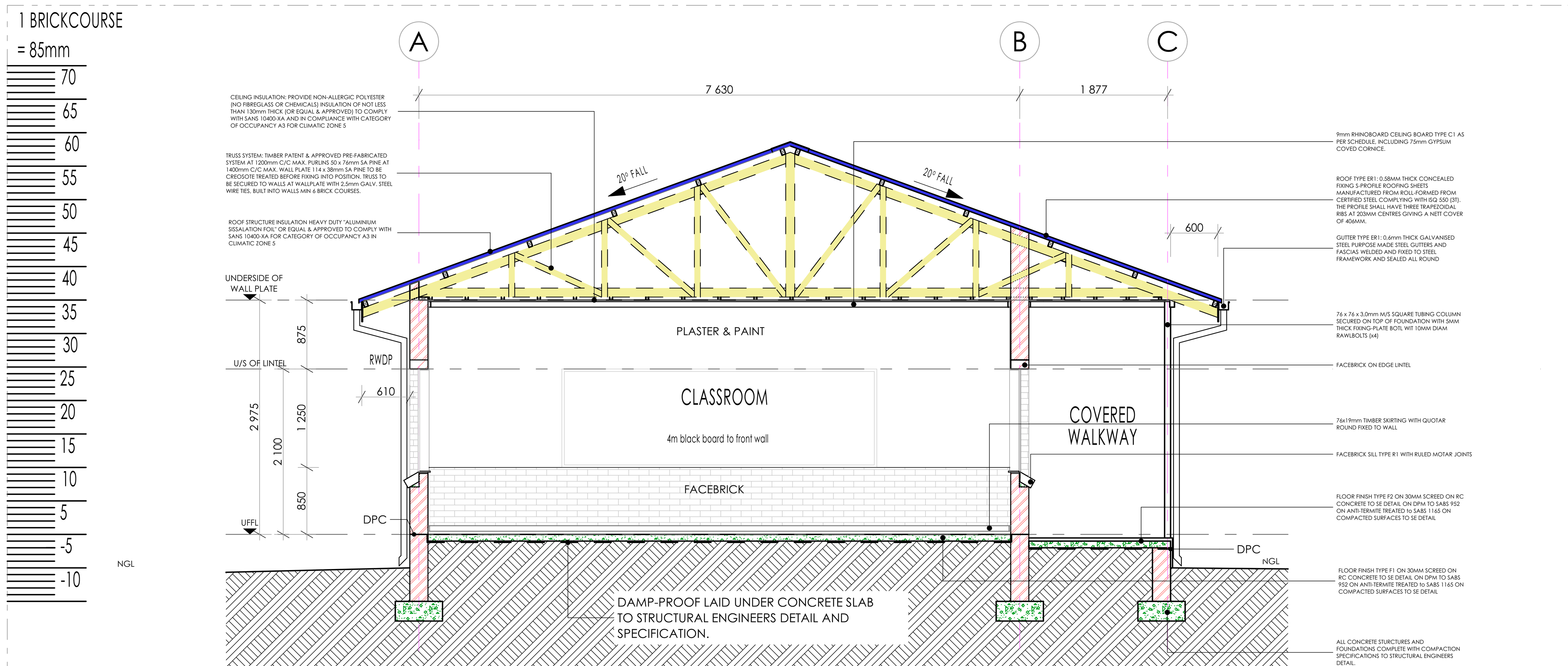
BLOCK SJ-04 WINDOW SCHEDULE
SCALE 1:100



BLOCK SJ-04 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-04 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-04 SECTION SJ-04
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
•Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — C | F — FLOOR FINISH
WALL FINISH — R | S — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04
DRAWING DESCRIPTION
SECTION | SIDE ELEVATIONS | SCHEDULES

DRG No.	D14-404-03	03/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness. Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

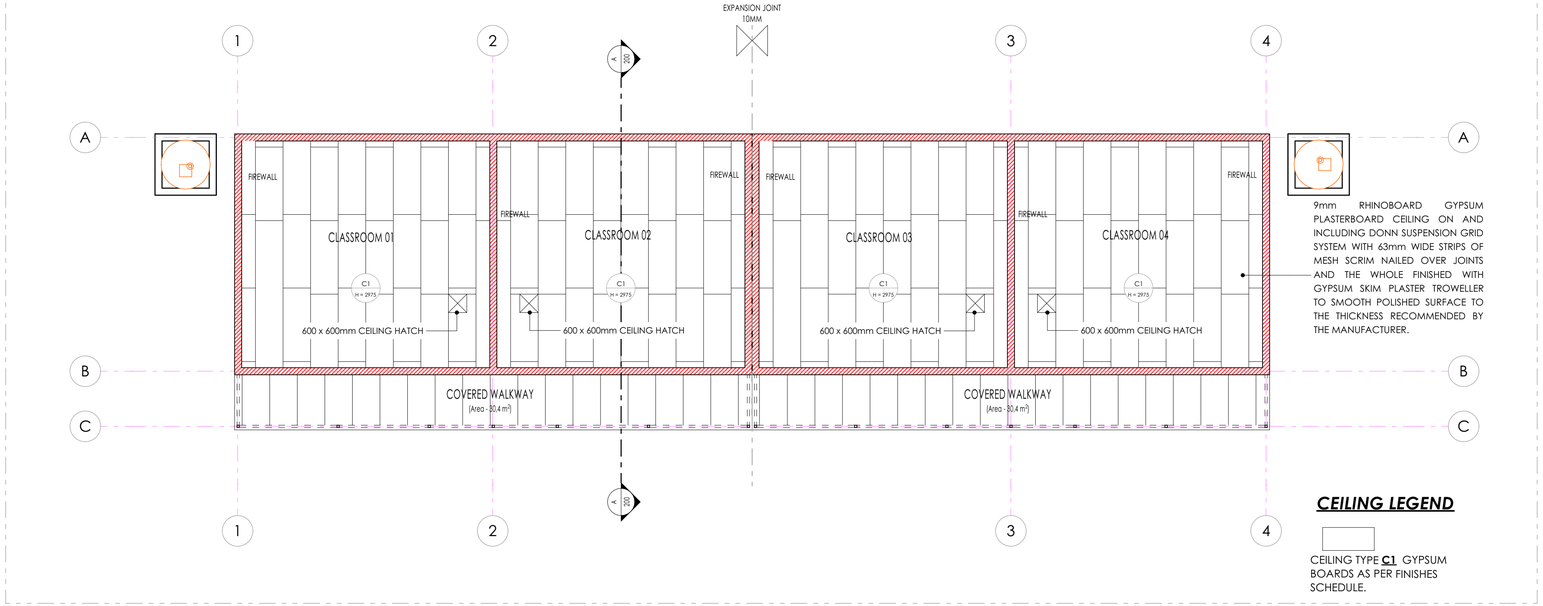
C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

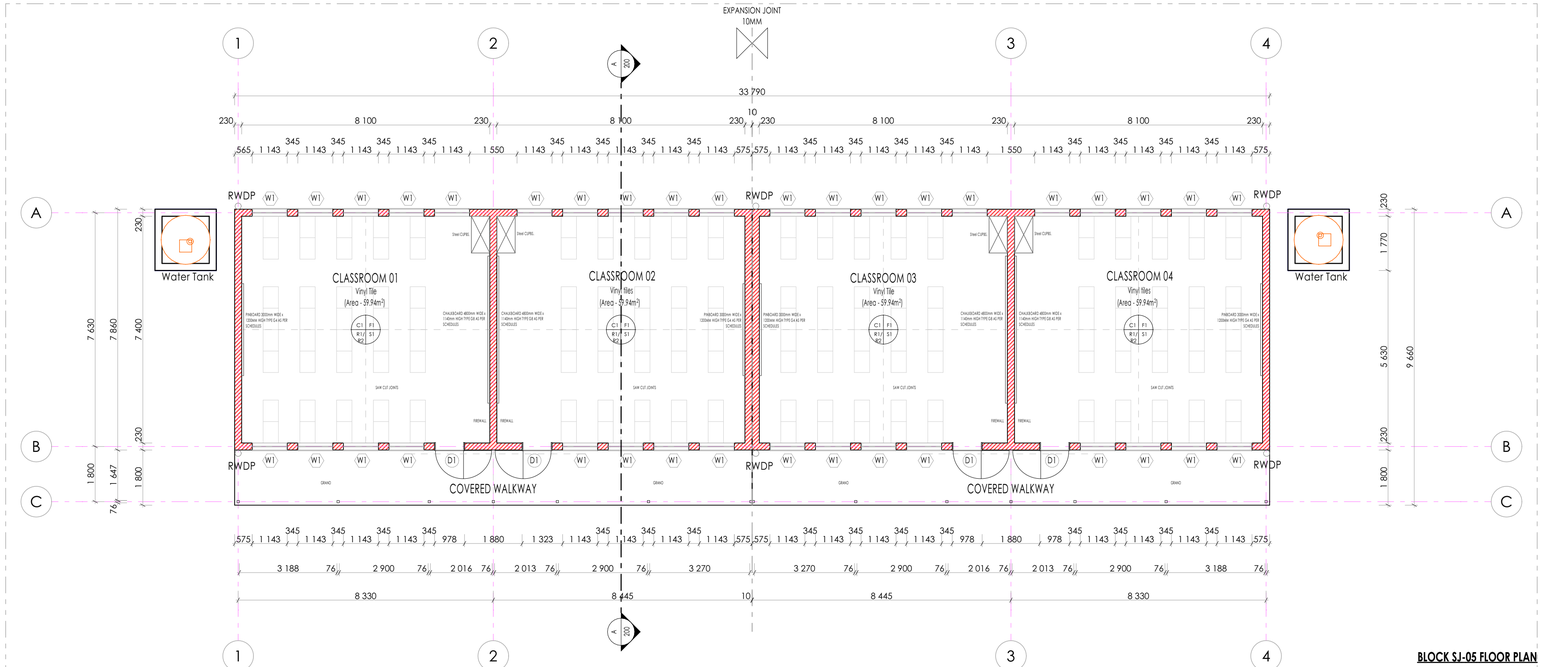
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (S7). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



CEILING LEGEND

CEILING TYPE **C1** GYPSUM BOARDS AS PER FINISHES SCHEDULE.

BLOCK SJ-05 CEILING PLAN
SCALE 1:100



BLOCK SJ-05 FLOOR PLAN
SCALE 1:100

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH · FLOOR FINISH · C F R S · WALL FINISH · WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - GROUND & CEILING PLAN

DRG No.	D14-405-01	01/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

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CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm Thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

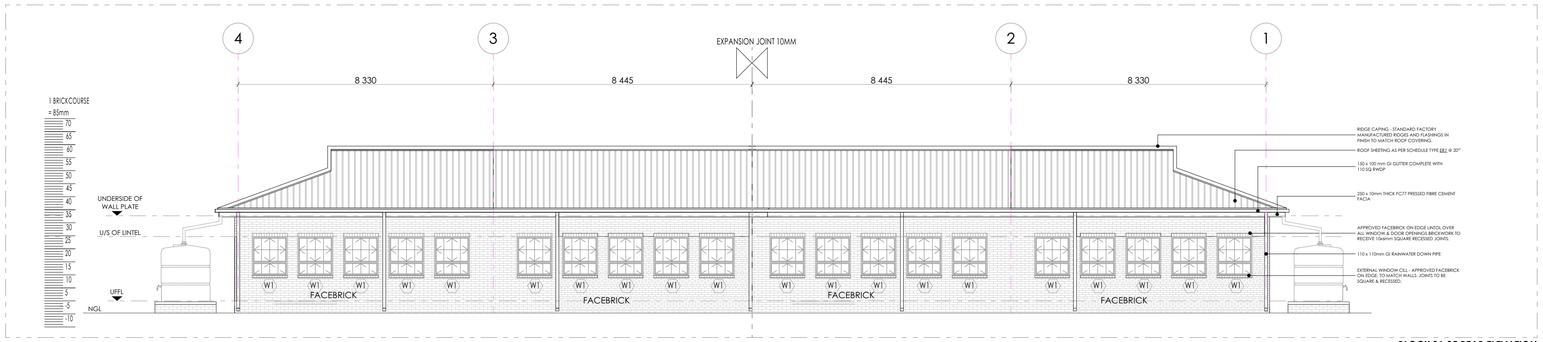
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

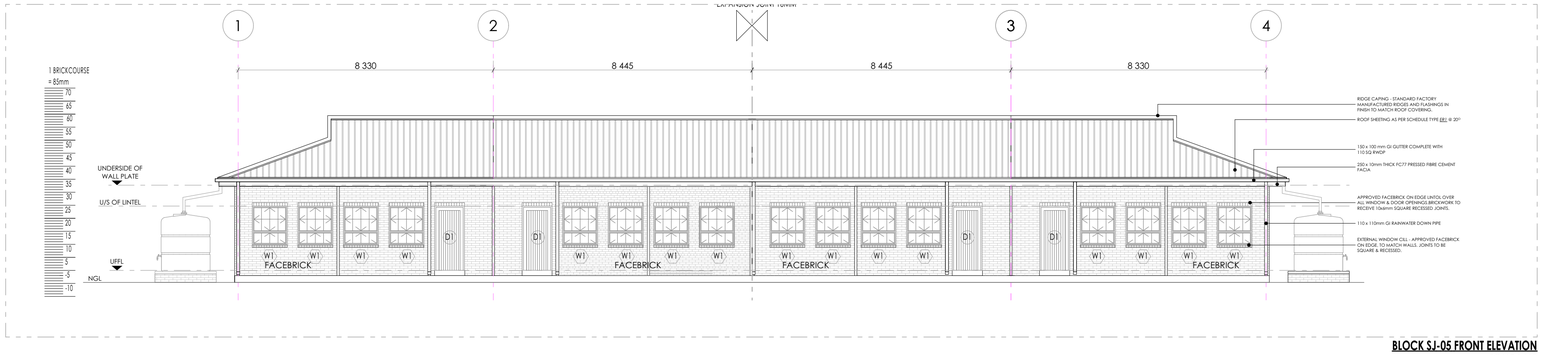
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

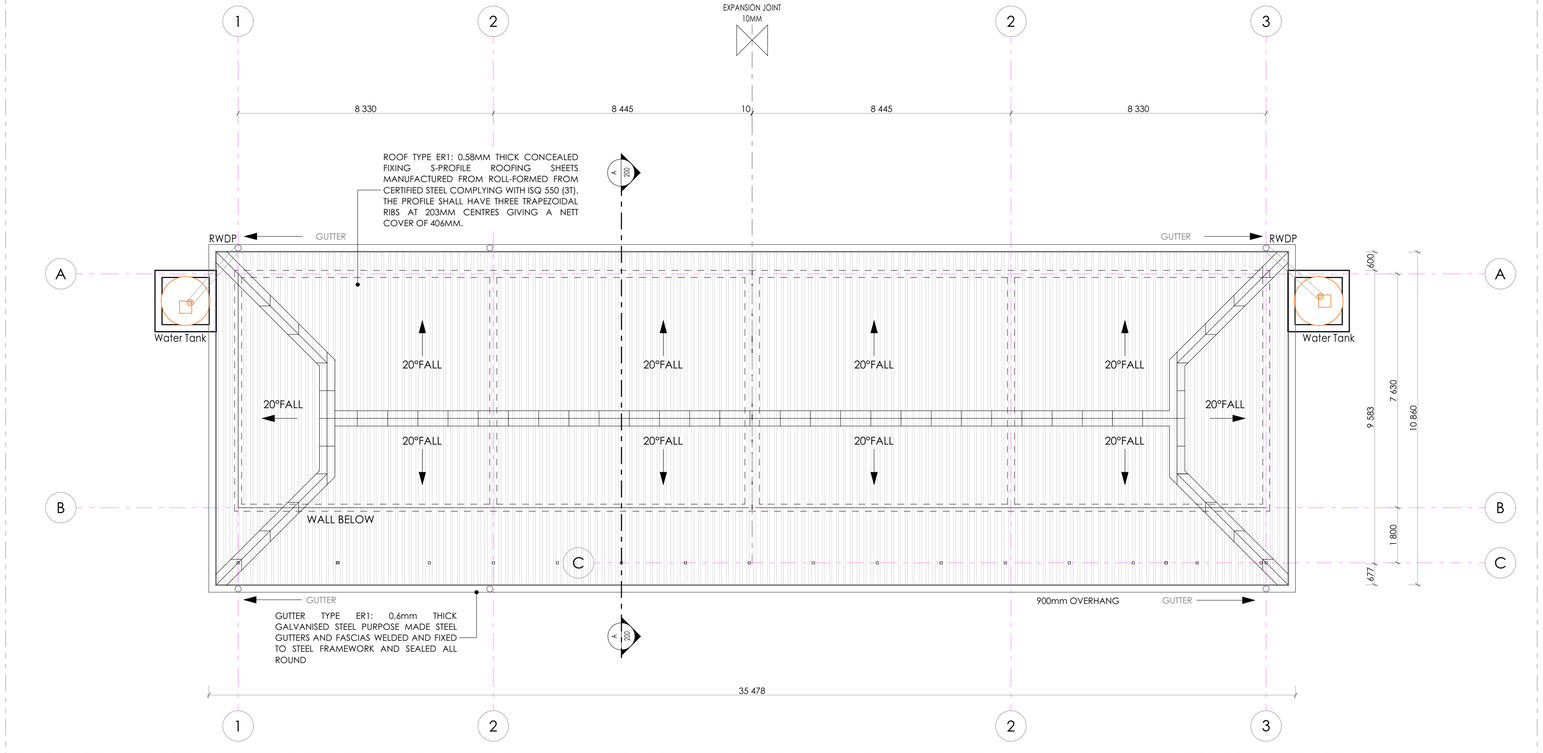
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



BLOCK SJ-05 REAR ELEVATION
SCALE 1:100



BLOCK SJ-05 FRONT ELEVATION
SCALE 1:100



BLOCK SJ-05 ROOF PLAN
SCALE 1:100

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH — WALL FINISH — WALL SKIRTING FINISH — C F R S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04

DRAWING DESCRIPTION
4 CLASSROOMS - ROOF PLAN | FRONT & REAR

DRG No.	D14-405-03	02/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

www.tectura.com
ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

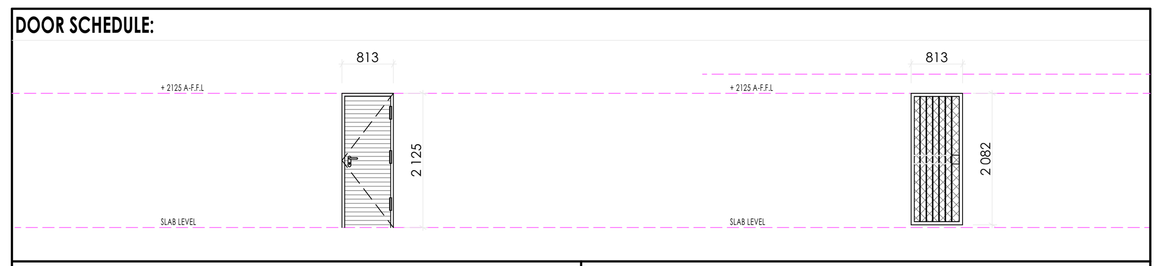
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

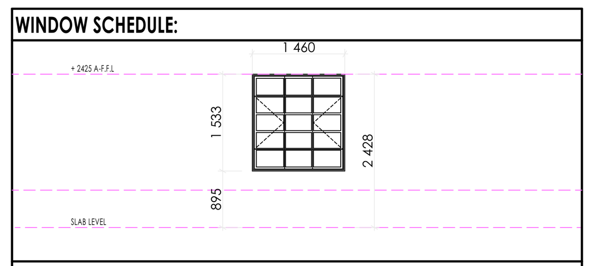
DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	04	QUANTITY	04
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

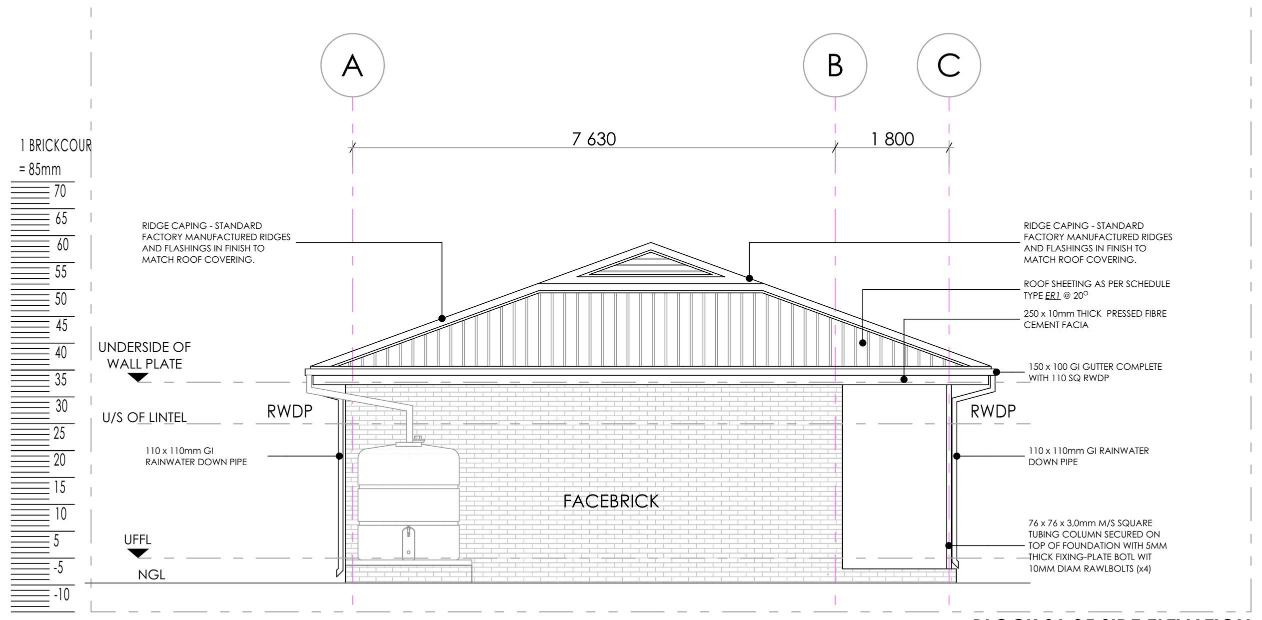
BLOCK SJ-05 DOOR SCHEDULE
SCALE 1:100

WINDOW SCHEDULE:

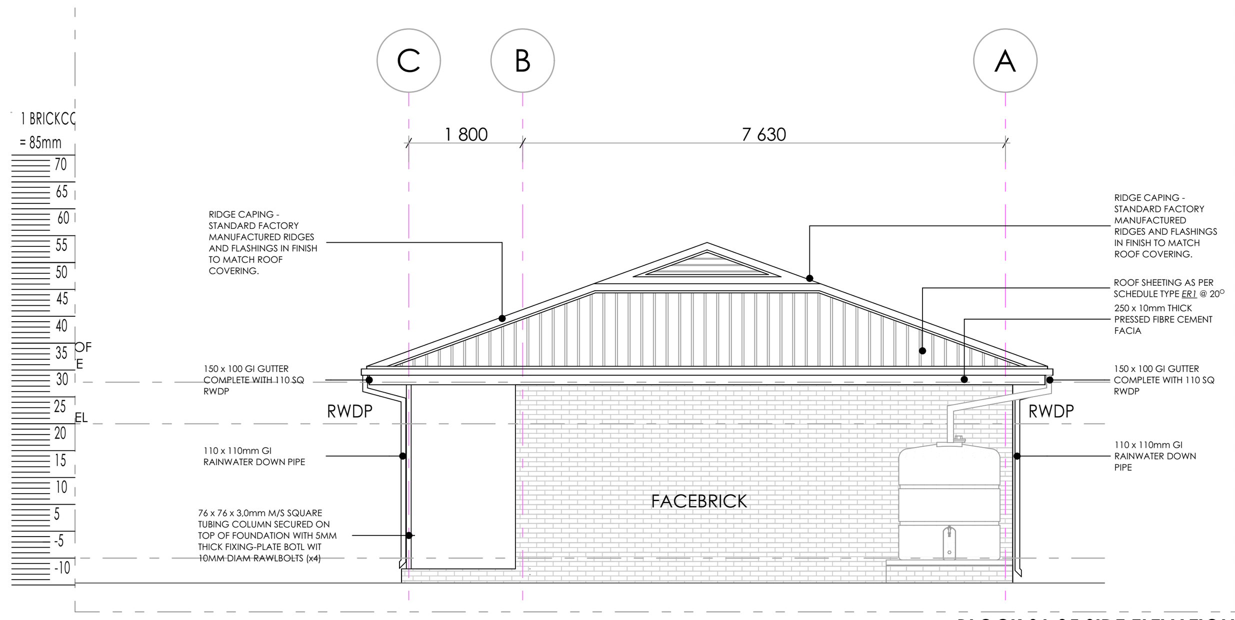


WINDOW	
QUANTITY	20
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK SJ-05 WINDOW SCHEDULE
SCALE 1:100



BLOCK SJ-05 SIDE ELEVATION
SCALE 1:100



BLOCK SJ-05 SIDE ELEVATION
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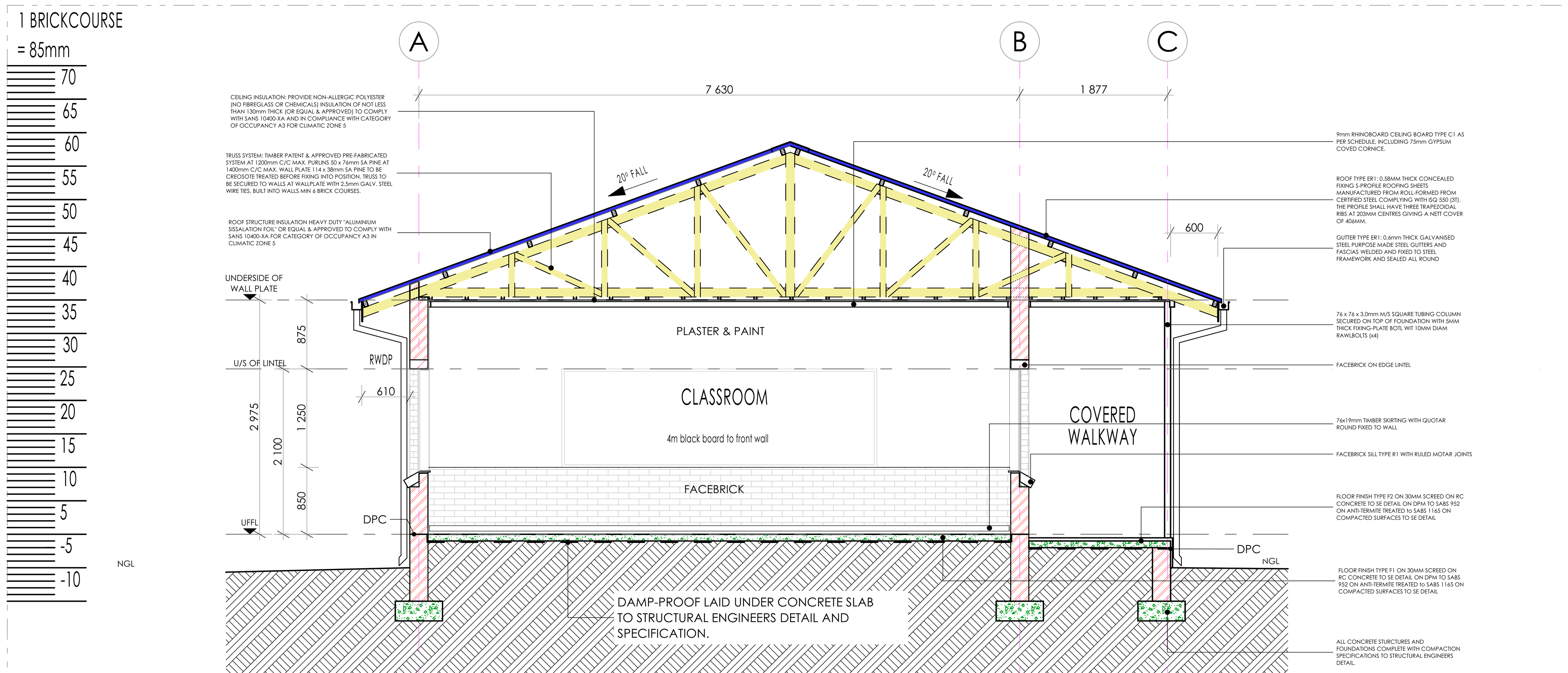

BLOCK SJ-05 SECTION SJ-05
SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — C | F — FLOOR FINISH
WALL FINISH — R | S — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

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REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
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RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
PROTOTYPE DRAWINGS - STAGE 04
DRAWING DESCRIPTION
SECTION | SIDE ELEVATIONS | SCHEDULES

DRG No.	D14-405-03	03/03	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

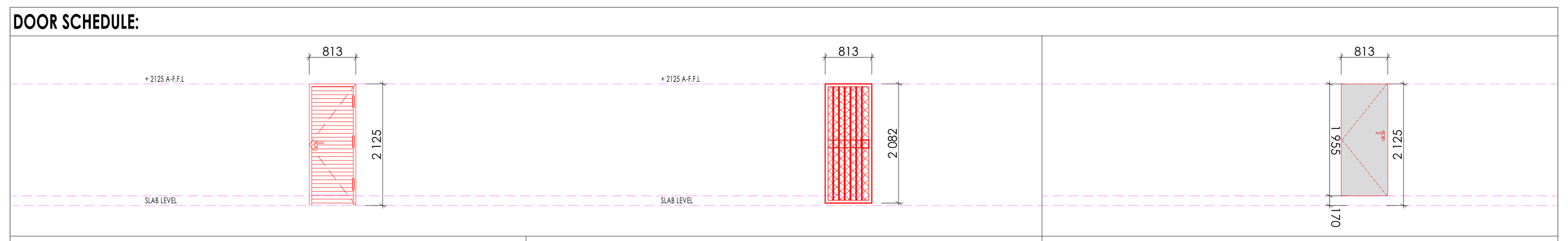
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

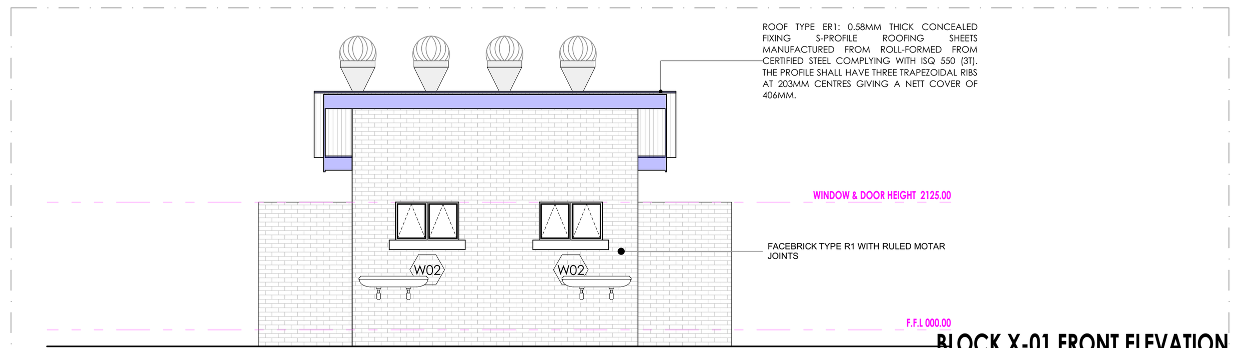
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	01	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK X-01 DOOR SCHEDULE
SCALE 1:100



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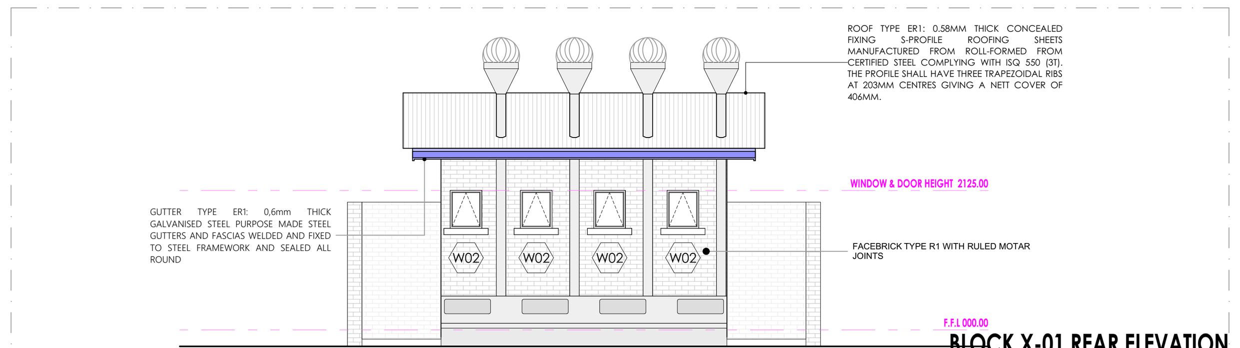
SCALE 1:100



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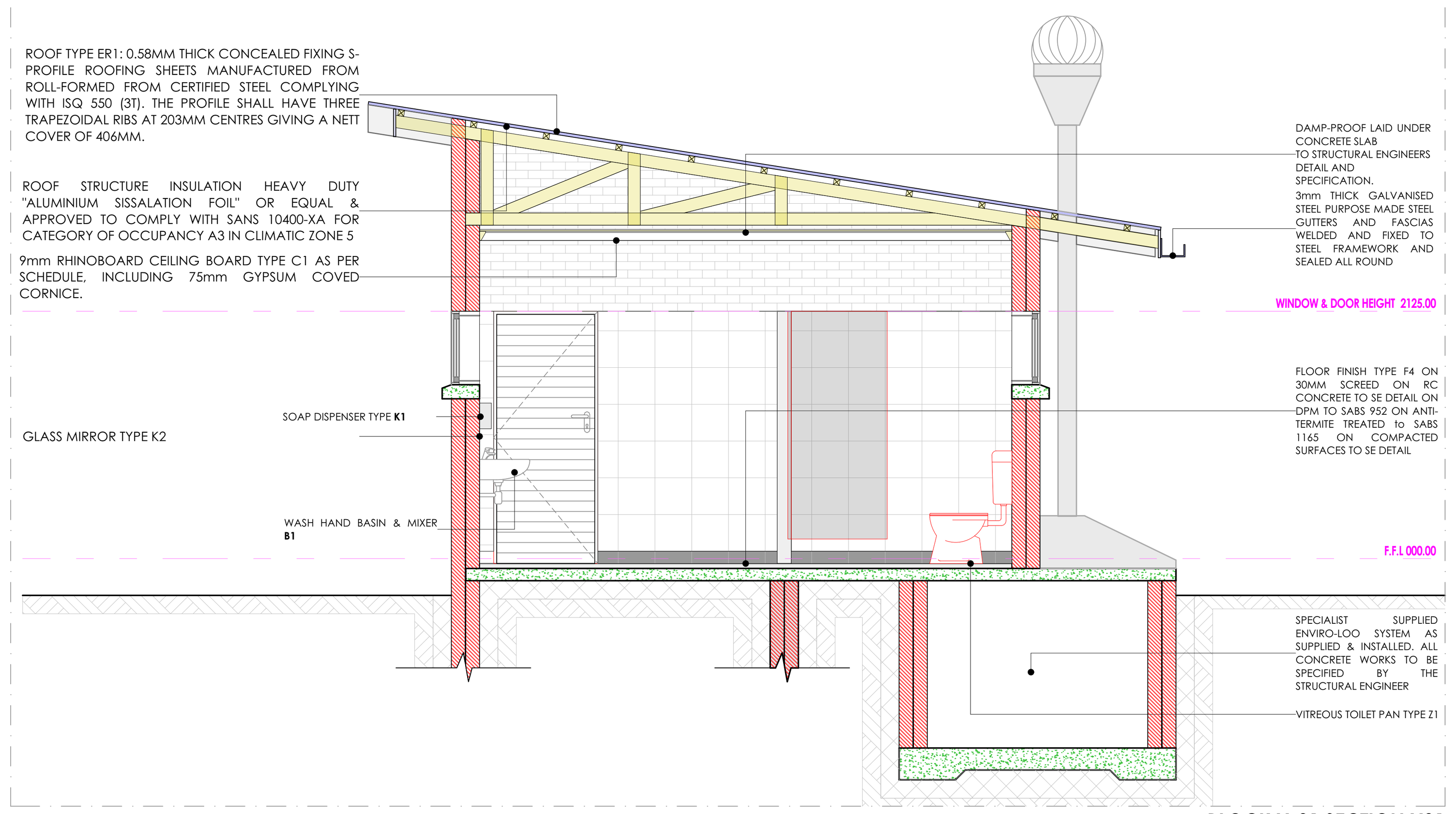
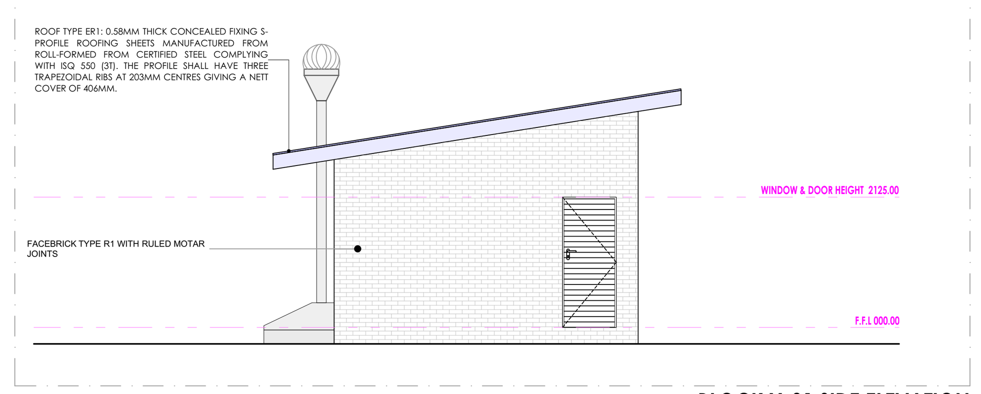
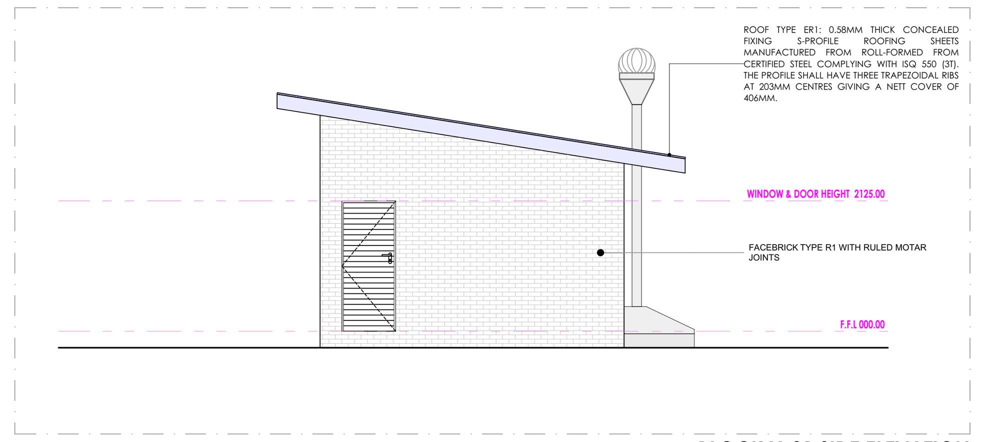


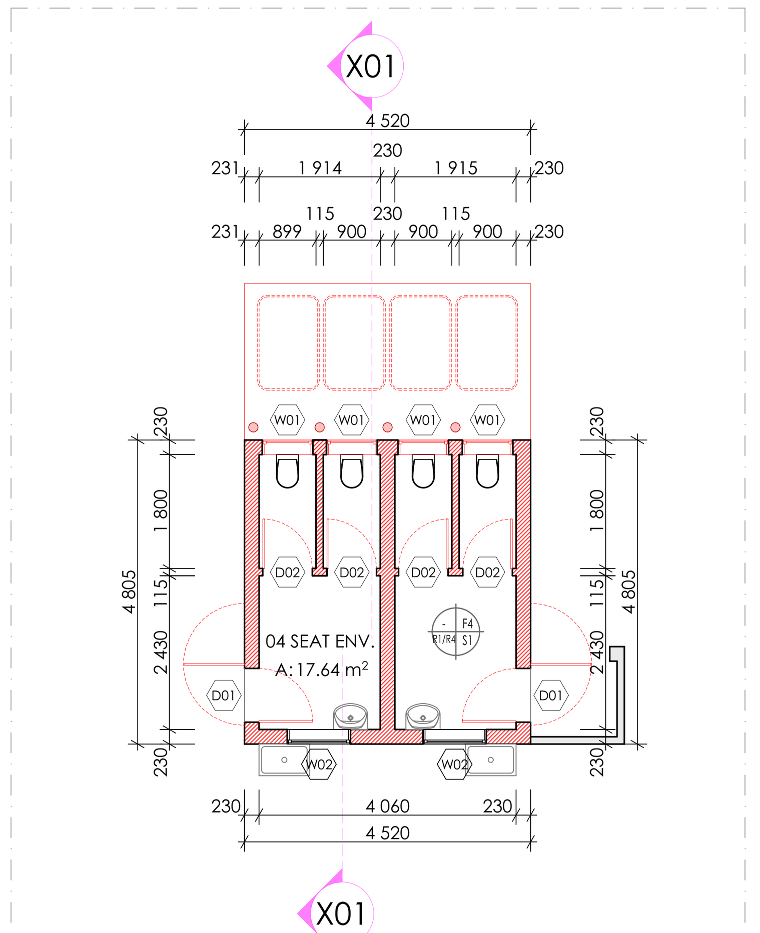
BLOCK X-01 SECTION X01
SCALE 1:50

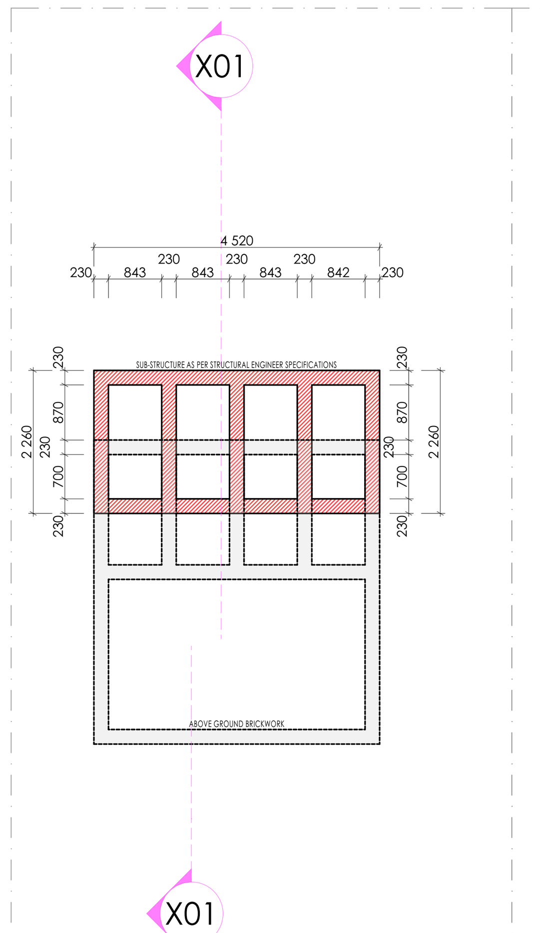


BLOCK X-01 SIDE ELEVATION
SCALE 1:100



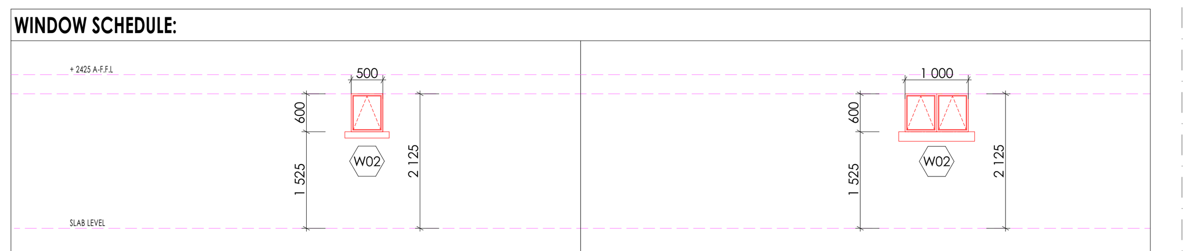
BLOCK X-01 SIDE ELEVATION
SCALE 1:100





BLOCK X-01 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:



W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK X-01 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

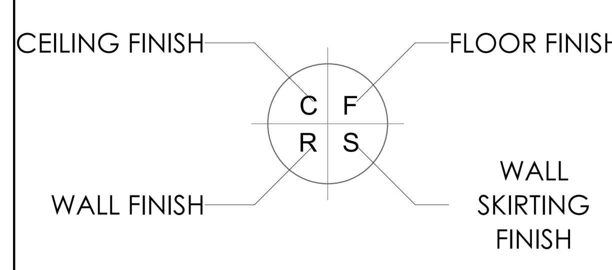
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
X-01 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-501-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

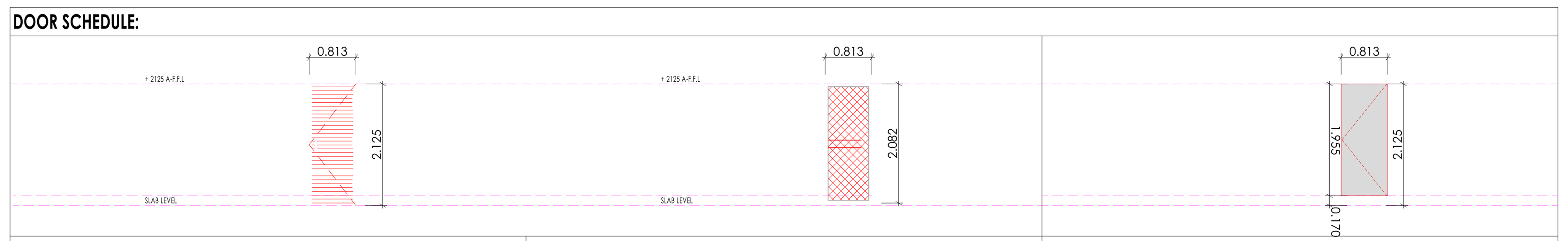
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	01	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

BLOCK X-02 DOOR SCHEDULE
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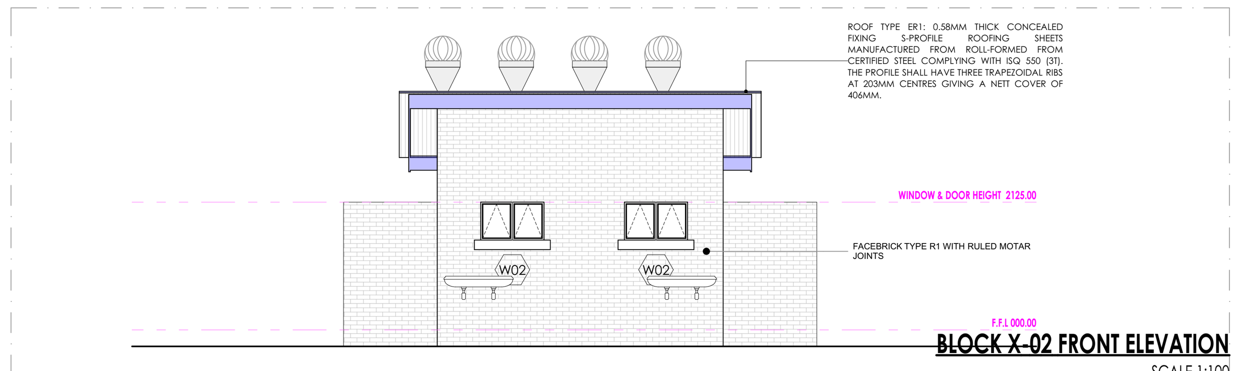

BLOCK X-02 FRONT ELEVATION
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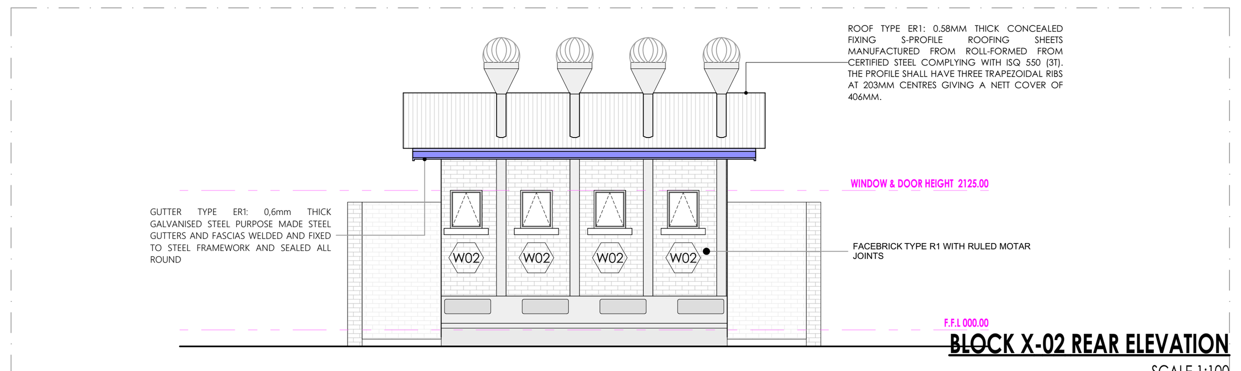

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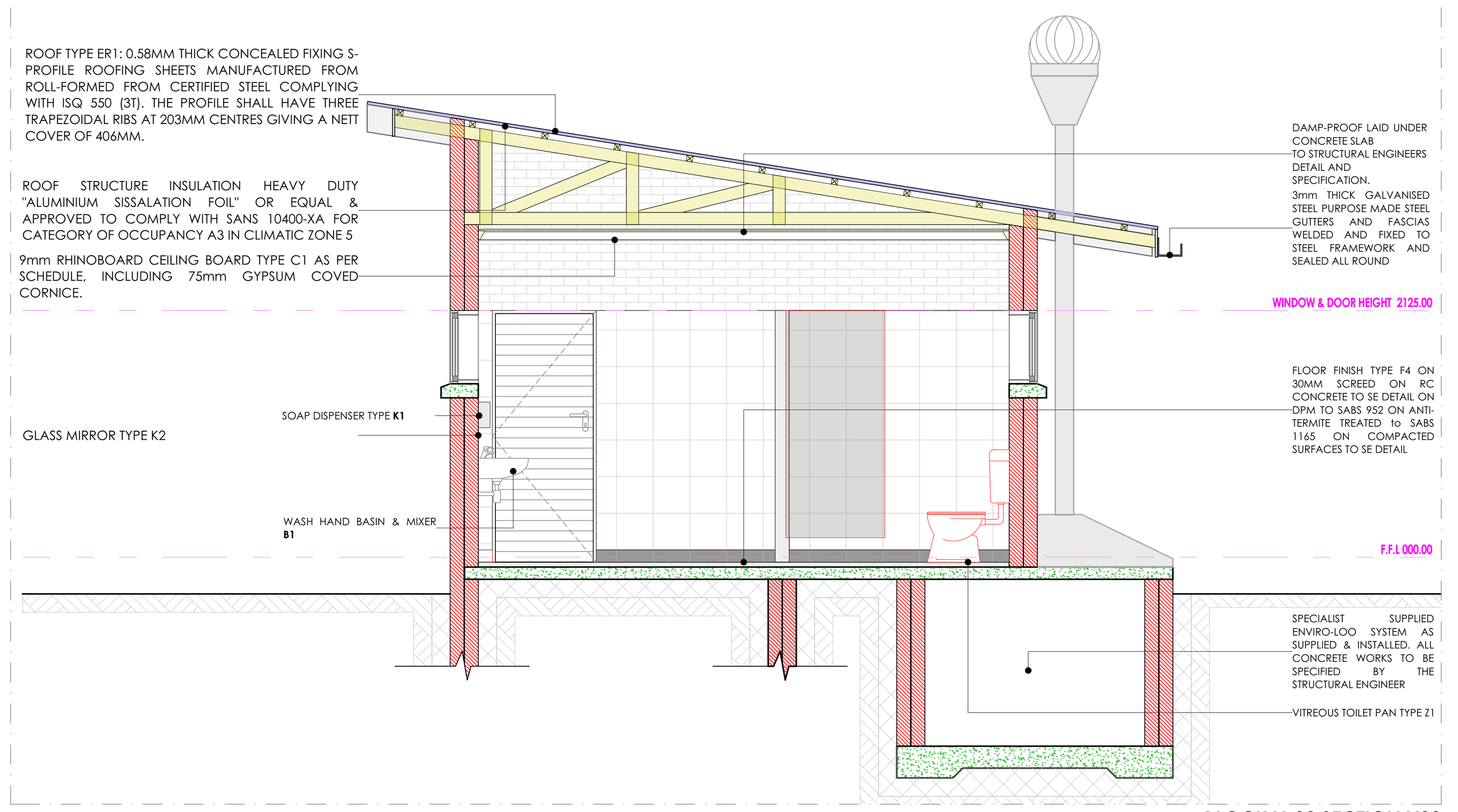

BLOCK X-02 SECTION X02
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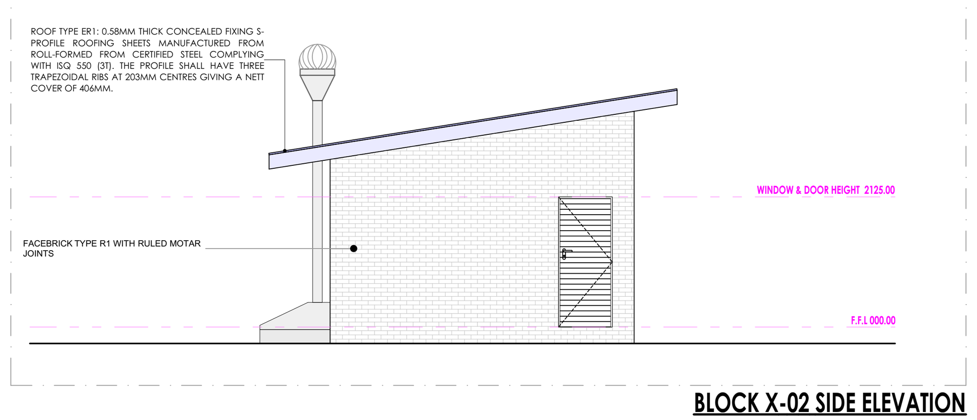
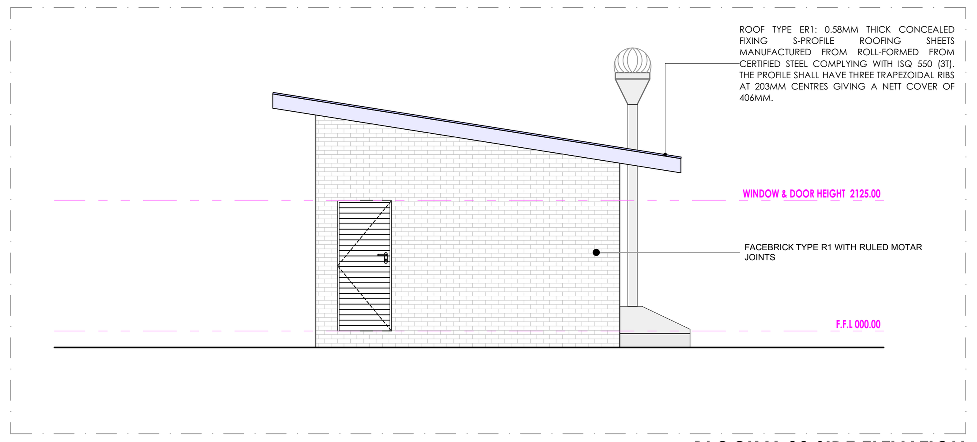


BLOCK X-02 SIDE ELEVATION
SCALE 1:100



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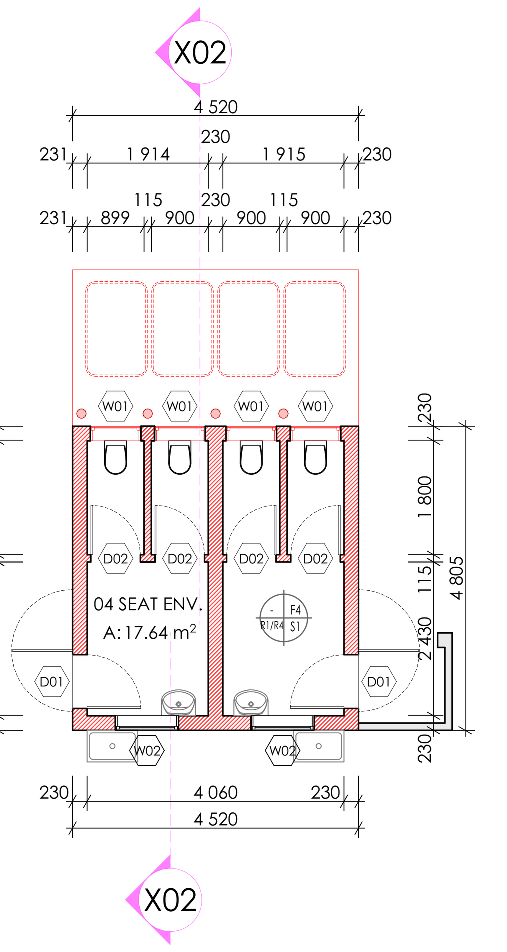
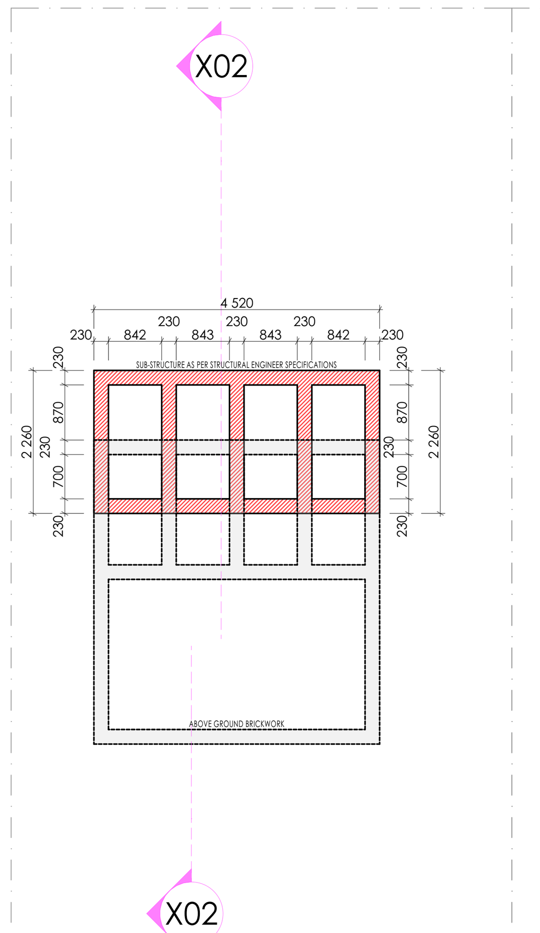
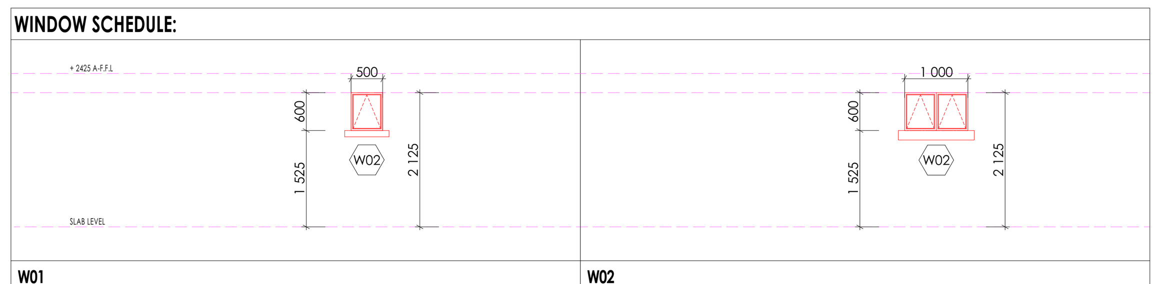




BLOCK X-02 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:



W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK X-02 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x450mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

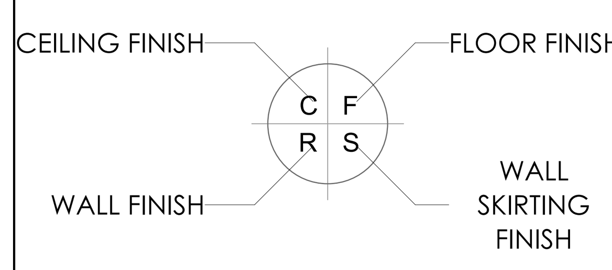
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL | 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
X-02 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-502-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick untinted Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2. divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMi FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
"Ex 75mm x 20mm Moulded Hardwood Skirting" to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

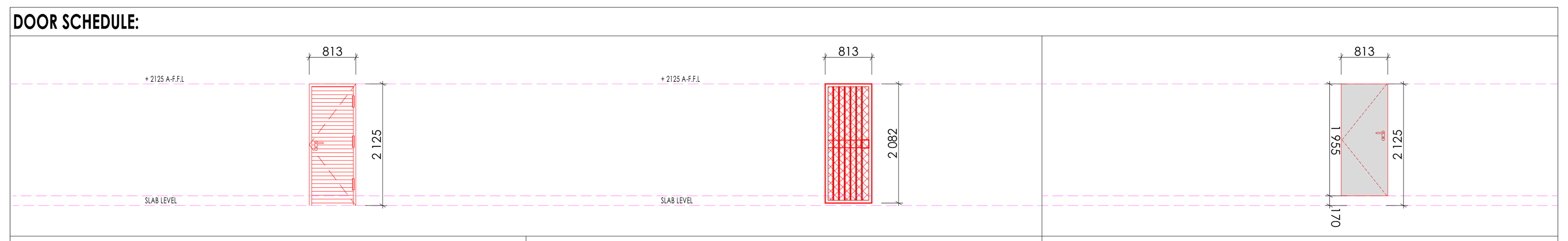
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:



EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR	
QUANTITY	01	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECT'S APPROVAL
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH, TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECT'S SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

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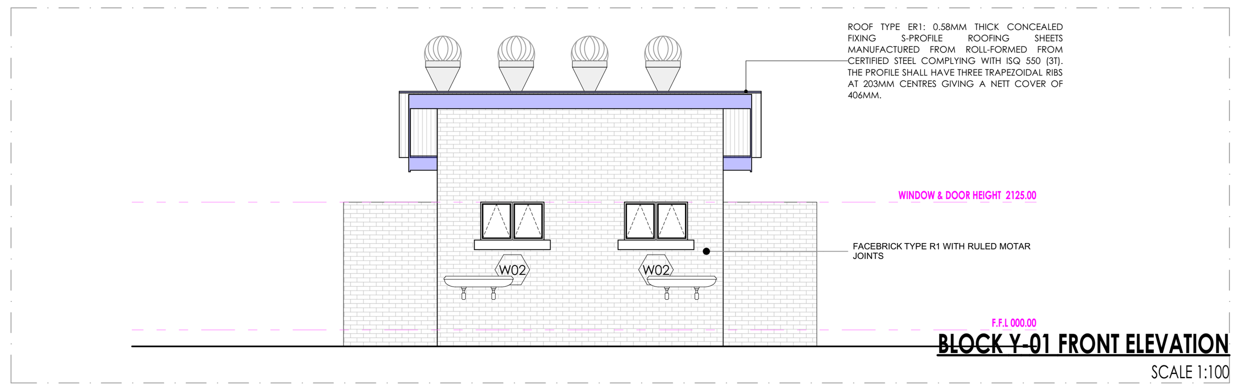

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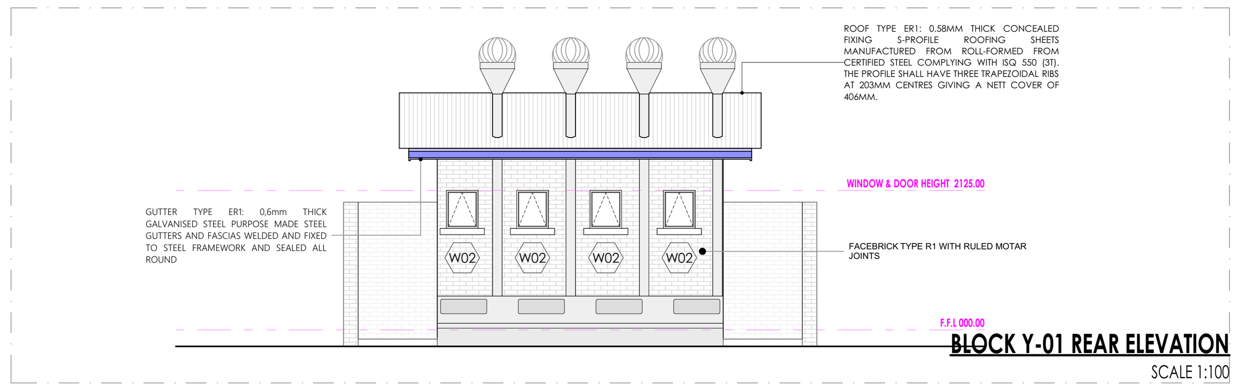

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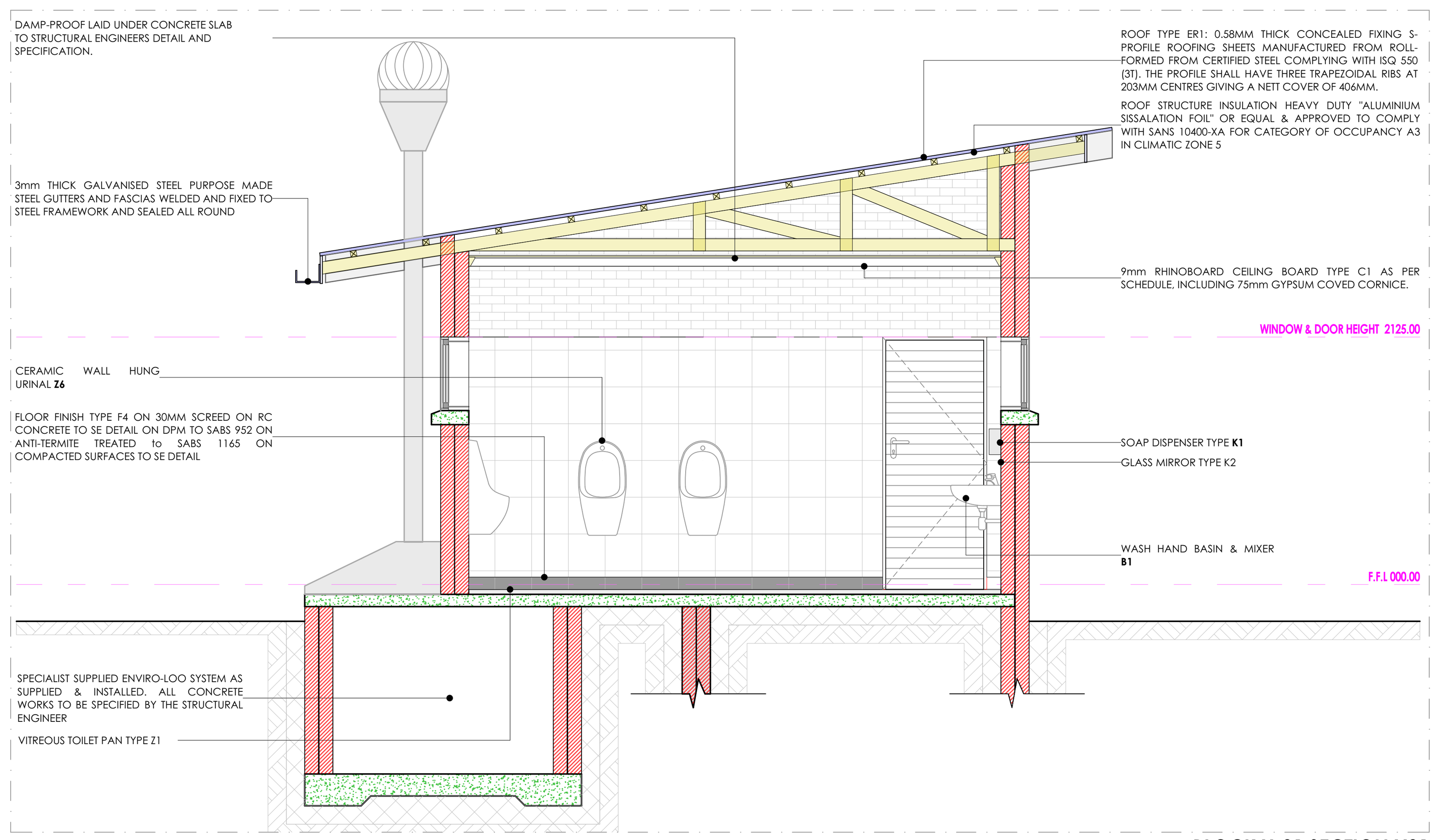
SCALE 1:100



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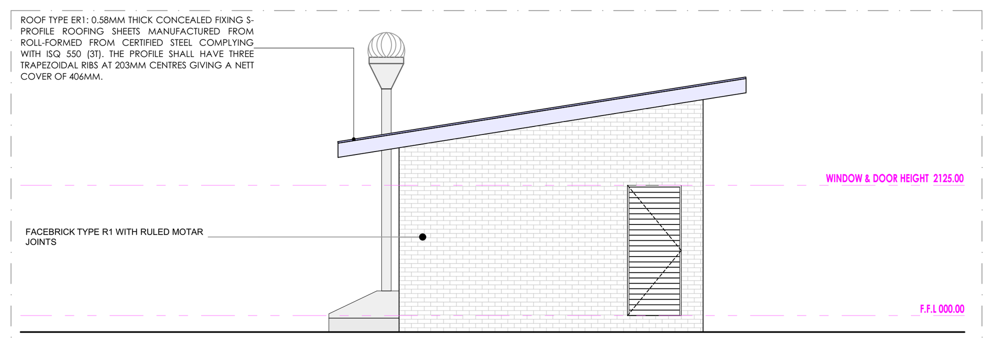

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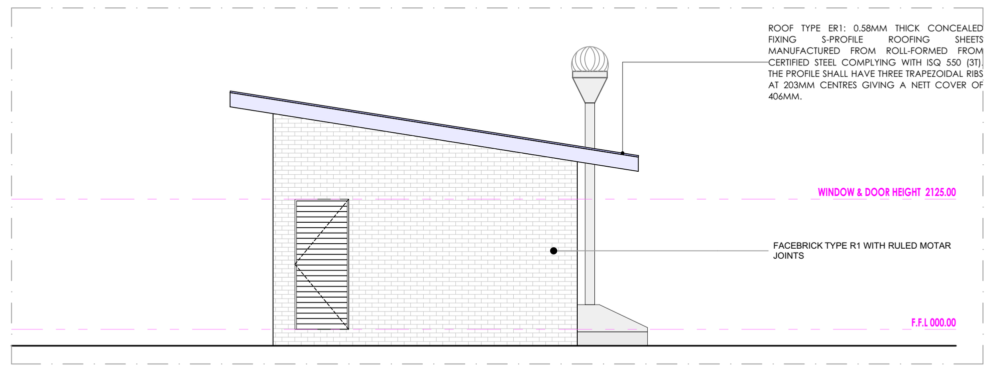
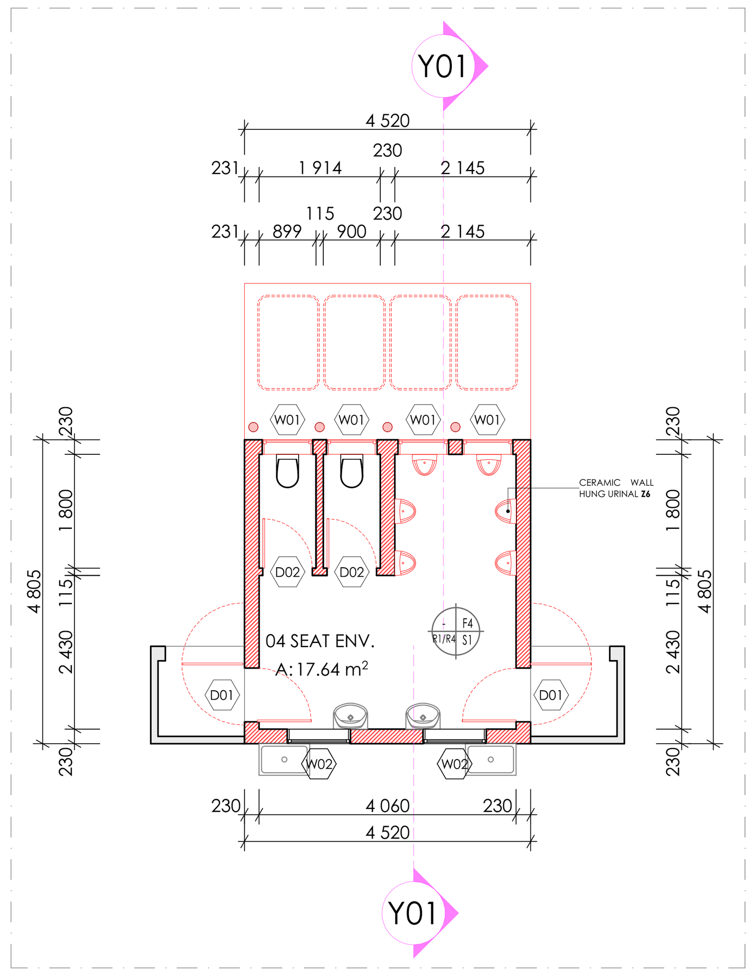
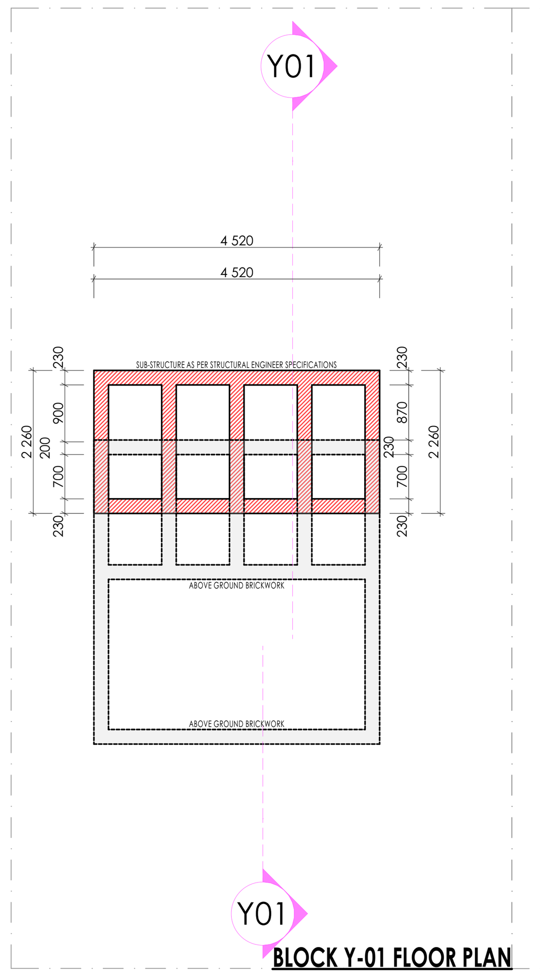
SCALE 1:100



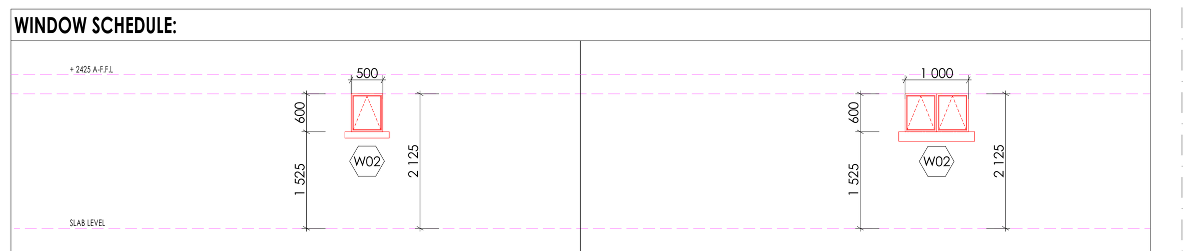
BLOCK Y-01 SIDE ELEVATION
SCALE 1:100





BLOCK Y-01 FLOOR PLAN
SCALE 1:100

WINDOW SCHEDULE:



W01		W02	
QUANTITY	04	QUANTITY	02
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION

BLOCK Y-01 WINDOW SCHEDULE
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90º outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Vitreous china size 415x315x275 mm wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fire clay 580x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow. with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

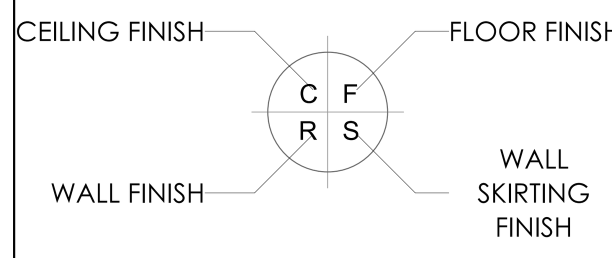
- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND



SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
Y-01 FLOOR | SECTION | SIDES | SCHEDULES

DRG No.	D14-503-01	01/01	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX1 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "RS", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

"GypCeil Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply , Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TBXV (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (01). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat® or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m¾ and finished with white metalized foil.

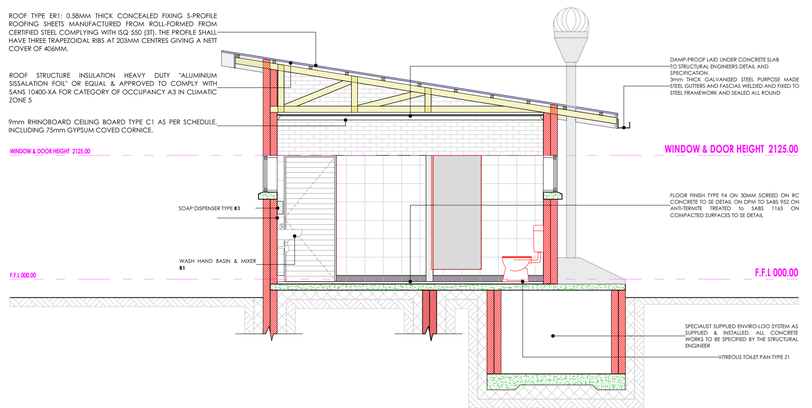
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

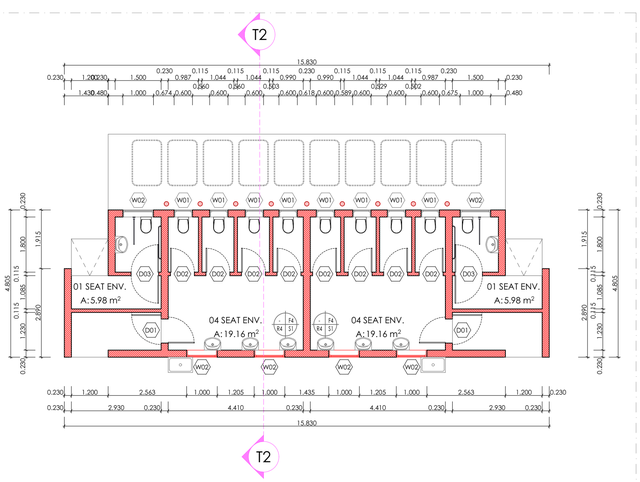
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE:	D01		D02			D03		
	813 / 2125 / 2082 / 540 (DHE)		813 / 555.1 / 2125 / 0.0			813 / 2125 / 2082 / 540 (DHE)		
EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	INTERIOR DOOR		EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	02	QUANTITY	02	08	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECT'S COLOR SCHEDULE	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681, GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH. TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT, APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH. TO COMPLY WITH SABS 681, GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

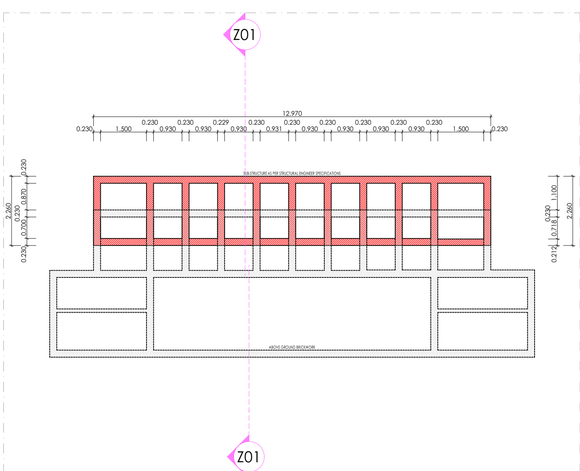
BLOCK Z-01 DOOR SCHEDULE
SCALE 1:100



BLOCK Z-01 SECTION X01
SCALE 1:50



BLOCK X-01 FLOOR PLAN
SCALE 1:100



BLOCK X-01 SUB-FLOOR PLAN
SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION
Z-01 FLOOR | SECTION | D-SCHEDULE

DRG No.	D14-504-01	01/02	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
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DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm Thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight taps. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCell Classic' gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCell Prestige S' fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 16mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content. ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab' 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

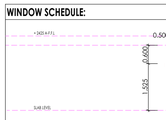
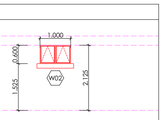
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

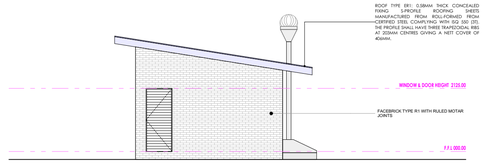
Insulation: SHALL EITHER BE: 1; where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

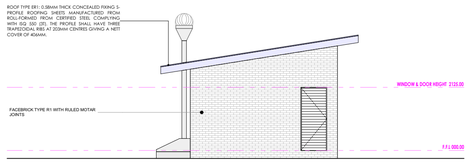
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

WINDOW SCHEDULE:			
			
W01		**W02**	
QUANTITY	08	**QUANTITY**	06
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OBTAINABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	**WINDOW DESCRIPTION**	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OBTAINABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS	**FRAME**	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	**GLASS**	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	**WINDOW FITTINGS**	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	**IRON MONGERY**	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	**HINGES**	FIXED, MANUFACTURER'S SPECIFICATION

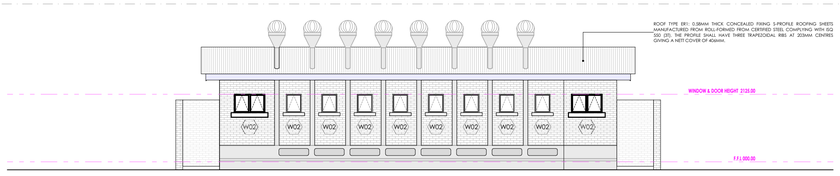


BLOCK Z-01 WINDOW SCHEDULE
SCALE 1:100

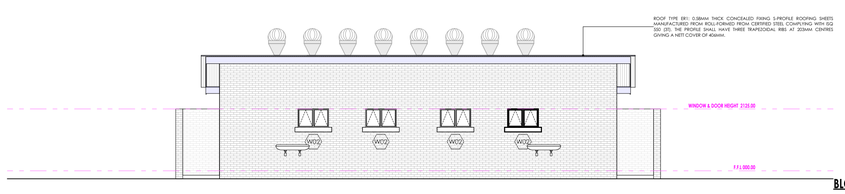
BLOCK Z-01 SIDE ELEVATION
SCALE 1:100



BLOCK Z-01 SIDE ELEVATION
SCALE 1:100



BLOCK Z-01 REAR ELEVATION
SCALE 1:100



BLOCK Z-01 FRONT ELEVATION
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC

Vitreous china 90o outlet or equal and approved. top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)

Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)

Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL

Mirabelle-Slim Back Washdown wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER

2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

- Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
- Overhead shower arm with wall flange.
- Chrome Plated Shower Head with ball jointed connector
- Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face filled.

WASH-HAND BASIN

B1: WHB & MIXER TAP

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN

Vaal Sanitaryware' vitreous china 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Elbow action pillar-tap, with ½ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)

Ceramic fireclay size 430x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with: 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: ALDUTY BASIN 1 No. TAP (FOR LABS)

Ceramic fireclay size 455x290mm wash basin to comply with SABS 497 in heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)

Vitreous china 310 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Elbow action pillar-tap, with , turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:

- Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
- Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK

Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK

Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid-resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS. stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP. 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS. radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP. Double drain block rubber deep seal 'P' Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL

Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN

328W x 850H x 203D Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)

190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER

Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC

Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED

110W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)

As per Electrical Engineers specification

K12: TOWEL RAIL

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)

20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL or as specified.

G2: PROJECTOR SCREEN

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)

127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners a be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN

Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER

Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR

Vitrex system 1000 (standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM17972), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH

WALL FINISH — WALL SKIRTING FINISH

C F R S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION
Z-01 ELEVATIONS |W-SCHEDULE

DRG No.	D14-504-02	02/02	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

ISO 9001:2008

CONTRACTOR

CAD	AUTOCAD		FILE
SHEET SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES

500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH

22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)

220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet. Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER

32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED

'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT

2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT

2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

'GypCell Classic' gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content. Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCell Prestige 5" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

'Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (3). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings suspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.

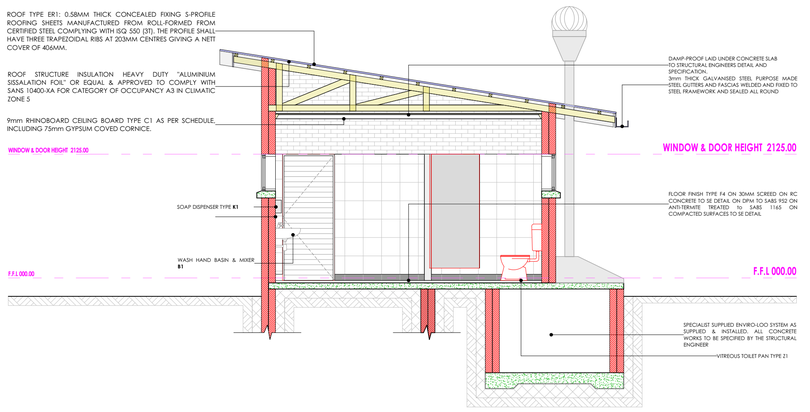
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

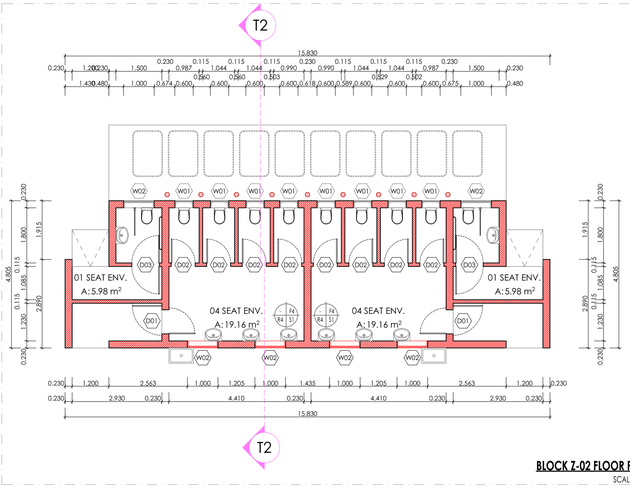
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws, Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

DOOR SCHEDULE	D01			D02			D03		
	0.813, 2.125, 0.813, 2.082			0.813, 952.5, 2.125			0.813, 2.125, 0.813, 2.082		
EXTERIOR DOOR		BURGLAR DOOR (SINGLE)		INTERIOR DOOR		EXTERIOR DOOR		BURGLAR DOOR (SINGLE)	
QUANTITY	02	QUANTITY	02	QUANTITY	08	QUANTITY	02	QUANTITY	02
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE. INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681. GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOR SCHEDULE	DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE. INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681. GRADE 01 AND FINISH WITH TWO COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630
FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMODATE 840 x 1910 DOOR LEAF	FRAME	50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME
FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL	FRAME FINISH	1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)
DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE. INCLUDING SECURITY MESH. TO COMPLY WITH SABS 681. GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	DOOR FINISH	APPLY 3No. CLEAR EGGSHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01. THIN DOWN FIRST COART WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURTE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS, APPLY UNTIL NO FURTHER SOAKING TAKES PLACE	FRAME FINISH	PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE. INCLUDING SECURITY MESH. TO COMPLY WITH SABS 681. GRADE 01 & FINISH WITH 2 COATS ALKYDE EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION
IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS	IRON MONGERY	APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATEE FOR APPROPRIATE ROOMS
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES

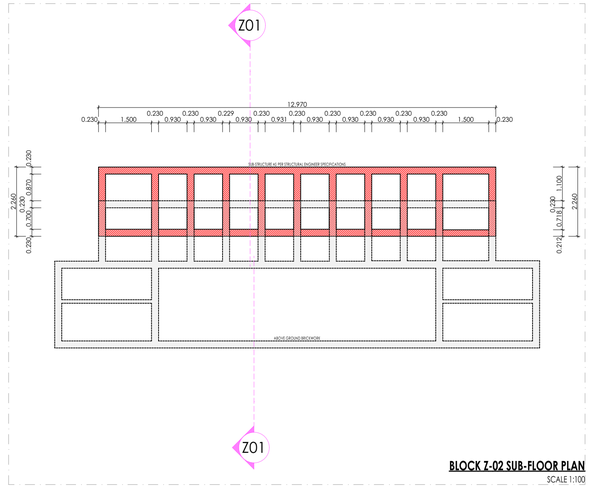
BLOCK Z-02 DOOR SCHEDULE
SCALE 1:100



BLOCK Z-02 SECTION X01
SCALE 1:50



BLOCK Z-02 FLOOR PLAN
SCALE 1:100



BLOCK Z-02 SUB-FLOOR PLAN
SCALE 1:100

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
C F
R S
WALL FINISH — WALL SKIRTING FINISH

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE
ARCHITECTURAL | 4

WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION
Z-02 FLOOR | SECTION | D-SCHEDULE

DRG No.	D14-505-01	01/02	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

DRAWING CO-ORDINATED

CONSULTANT

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ISO 9001:2008

CONTRACTOR

CAD SYSTEM	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

FINISHES LEGEND

FLOORS:

F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 681: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F2: PORCELAIN TILES -MATT
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES
500mm x 500mm , 100% PPX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED
30mm Thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

F6: GRANOLITHIC FINISH
22 mm thick unlimited Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve; laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

F8: SEMI FLEXIBLE VINLY SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self -Levelled Smooth Screed glued with conducive adhesive To SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor In Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

F9: GRAVEL FINISH ON SAND LAYER
32mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

SKIRTING:

S1: HARDWOOD OR EQUAL AND APPROVED
'Ex 75mm x 20mm Moulded Hardwood Skirting' to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3No. coats of egg shell clear varish to comply with SABS/SANS 381 type 1.

S2: CERAMIC TILE SKIRTING
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED
75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES:

R1: FACE BRICK
FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT – FULL HEIGHT
2 no. coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES – FULL HEIGHT
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED
"GypCell Classic" gypsum plasterboard ceilingor **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. Finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)
6.4mm thick GypCell Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories. finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

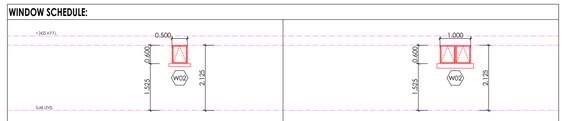
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
1200mm x 600mm X 16mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

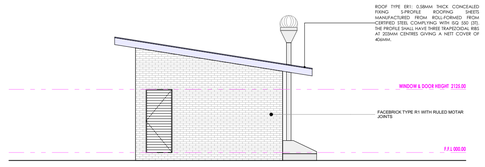
ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (37). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.
Insulation: SHALL EITHER BE: 1; where there are acoustic ceilings suspended board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m³ and finished with white metalized foil.
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.
Fascia board: 230 x 10 mm Fibre- Cement Fascia/Barge Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

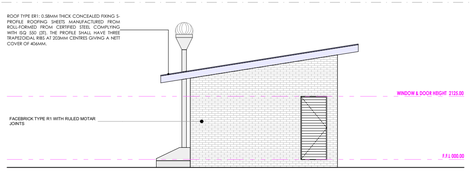
WINDOW SCHEDULE:			
W01		W02	
QUANTITY	08	QUANTITY	06
WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OBTAINABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING	WINDOW DESCRIPTION	STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OBTAINABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING
FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS	FRAME	STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS
GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL	GLASS	6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL
WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)	WINDOW FITTINGS	MATCH EXISTING WINDOW FITTINGS (ORIGINAL)
IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT	IRON MONGERY	ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT
HINGES	FIXED, MANUFACTURER'S SPECIFICATION	HINGES	FIXED, MANUFACTURER'S SPECIFICATION



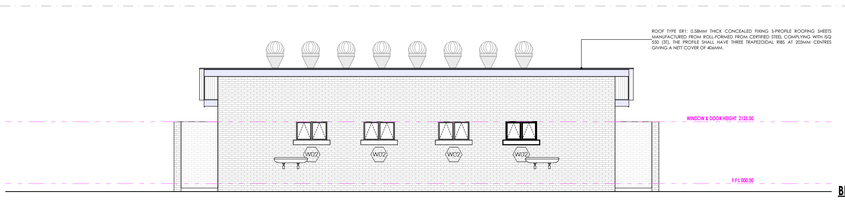
BLOCK Z-02 WINDOW SCHEDULE
SCALE 1:100



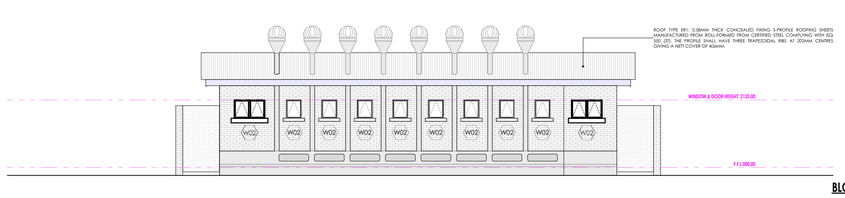
BLOCK Z-02 SIDE ELEVATION
SCALE 1:100



BLOCK Z-02 SIDE ELEVATION
SCALE 1:100



BLOCK Z-02 REAR ELEVATION
SCALE 1:100



BLOCK Z-02 FRONT ELEVATION
SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

Z2: CERAMIC PARAPLEGIC WC
Vitreous china 90o outlet or equal and approved. top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z5: CERAMIC STANDARD WC (CC)
Vitreous china 90o outlet, back inlet pan to comply with SABS 497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

Z6: CERAMIC WALL HUNG URINAL
Medium size size 4 china stall wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

S01: SHOWER
2mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration
• Overhead shower arm with wall flange.
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face filled.

WASH-HAND BASIN

B1: WHB & MIXER TAP
Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN
Vaal Sanitaryware' vitreous china 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with:2 No.chrome plated Ebow action pillar-tap, with ½ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

B3: WHITE GLAZED PORCELAIN WHB (VANITY)
Ceramic fireclay size 430x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.

B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with: 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

B5: ALDUTY BASIN & 1No. TAP (FOR LABS)
Ceramic fireclay size 455x290mm wash basin to comply with SABS 497 in heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with:1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

B6: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 310 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No.chrome plated Ebow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
Combination of sanitaryware, accessories and general fittings comprising of:
• Mirror type K2. • Paper towel dispenser K8 and bin type K3. • Soap dispenser type K9.
• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

SINKS:

X1: STAINLESS STEEL SINK
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X2: STAINLESS STEEL SINK
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

X3: CERAMIC SINK
Ceramic fireclay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid-resistant)

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS
600mm x 500mm Inset washtrough, manufactured from grade 18/10 SS. stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibtaps – plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chain and stay. CP. 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS
1200 x 553 x 260mm Double bowl wall hung washtub manufactured from grade 304 (18/10) SS. radiused internal corners and provision for a 40mm dia. outlet, fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with stirrup. CP. Double drain block rubber deep seal 'P' Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable foot piece at height of 915mm AFFL.

SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

K2: GLASS MIRROR
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome-headed mirror screws

K3: SS WASTE BIN
328W x 820H x 203D Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws,dowels and all necessary accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K5: SOAP HOLDER
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

K6: WALL GRAB RAILS-PARAPLEGIC
Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

K8: PAPER TOWEL DISPENSER
350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K9: SOAP DISPENSER/DISH- WALL MOUNTED
1.1LW x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

K10: ALUMINIUM COAT HOOKS (Multirack)
820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete with Screws

K11: HAND DRYER (Hands free)
As per Electrical Engineers specification

K12: TOWEL RAIL
56mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

K13: SHOWER CURTAIN RAIL (straight)
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1: DOOR PROTECTOR
200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL or as specified.

G2: PROJECTOR SCREEN
Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

G3: PINBOARD 1500W X 1000H
Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

G4: PINBOARD 3000W X 1200H
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

G5: WINDOW NORMAL BLINDS(vertical fabric)
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners a be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

G6: FLOOR DRAIN
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

G7: SS FLOOR EXPANSION JOINT COVER
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

G8: CHALKBOARDS- GREEN SURFACE COLOUR
Vitrex system 1000 (standard WRITEBOARD) or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

N

ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

CEILING FINISH — FLOOR FINISH
WALL FINISH — WALL SKIRTING FINISH
C F R S

SIGNATURE TABLE

DISCIPLINE	SIGN	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL		
ROADS | STORMWATER		
WATER & SANITATION		

REV. NO.	DATE	DESCRIPTION
0	JUL 21	FIRST ISSUE FOR TENDER

REVISIONS

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE
INSTITUTION
REBONE SECONDARY - 924 642 589

RESTORATIVES, REPAIRS & ADDITIONS
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT
DISCIPLINE
ARCHITECTURAL 4
WORK DESCRIPTION - SUB DIVISION
STAGE 04 ARCHITECTURAL
DRAWING DESCRIPTION
Z-01 ELEVATIONS |W-SCHEDULE

DRG No.	D14-505-02	02/02	ITEM No.
DESIGN	N/A	SMTN	DRAWN
SCALE	AS SHOWN	T.M	CHECK

RESPONSIBLE PROFESSIONAL

DATE	NAME	SIGN	PR. NUMBER
NOV 2019	T. MANYADZA		PrArch 43981757

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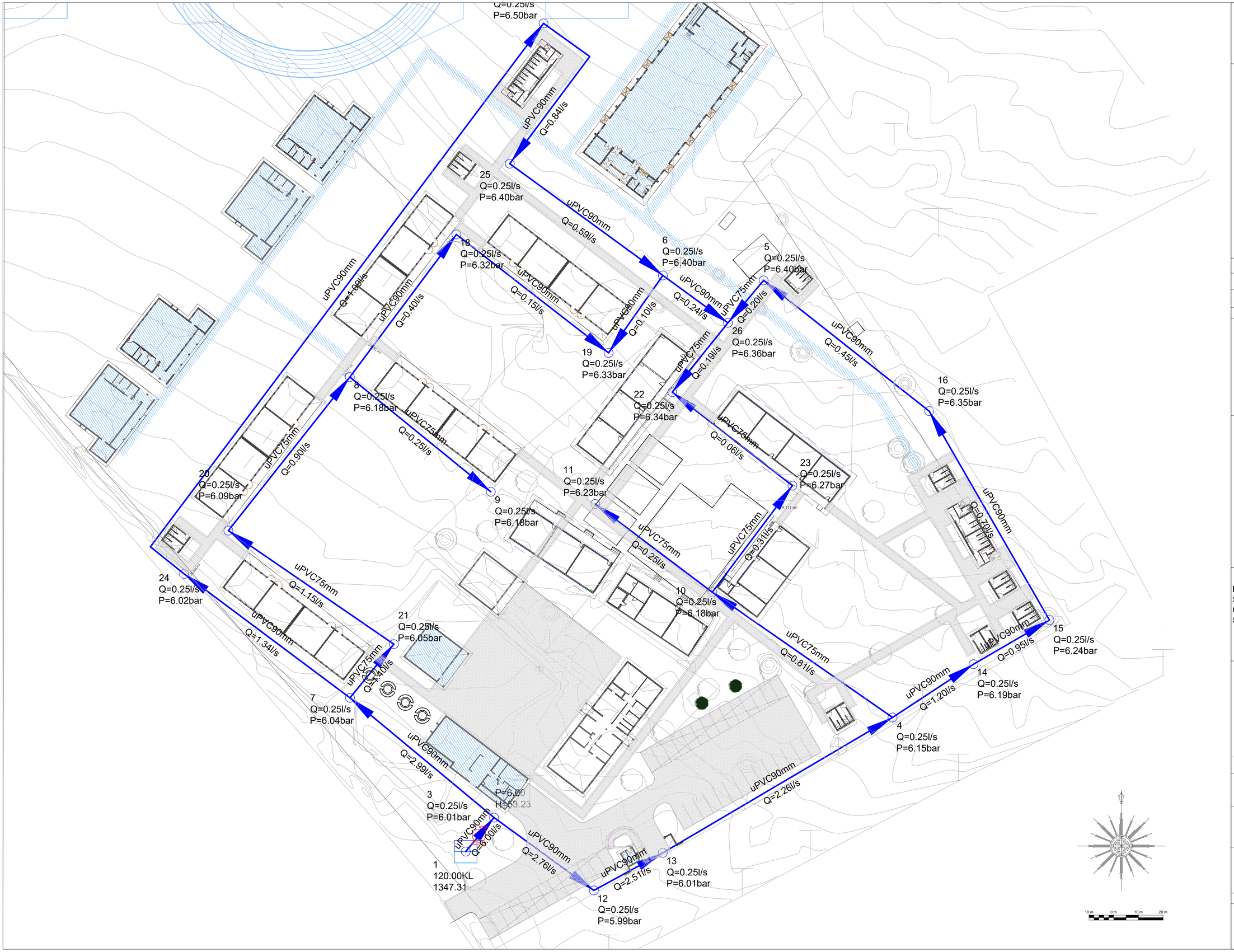
ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

CAD	AUTOCAD		FILE NAME
SIZE	PROJECT NUMBER		REV
A1	LDPW - PROF/16002/D14		0

CIVIL DRAWINGS



CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

LOWFLOW CONSTRUCTION &ENGINEERING
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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

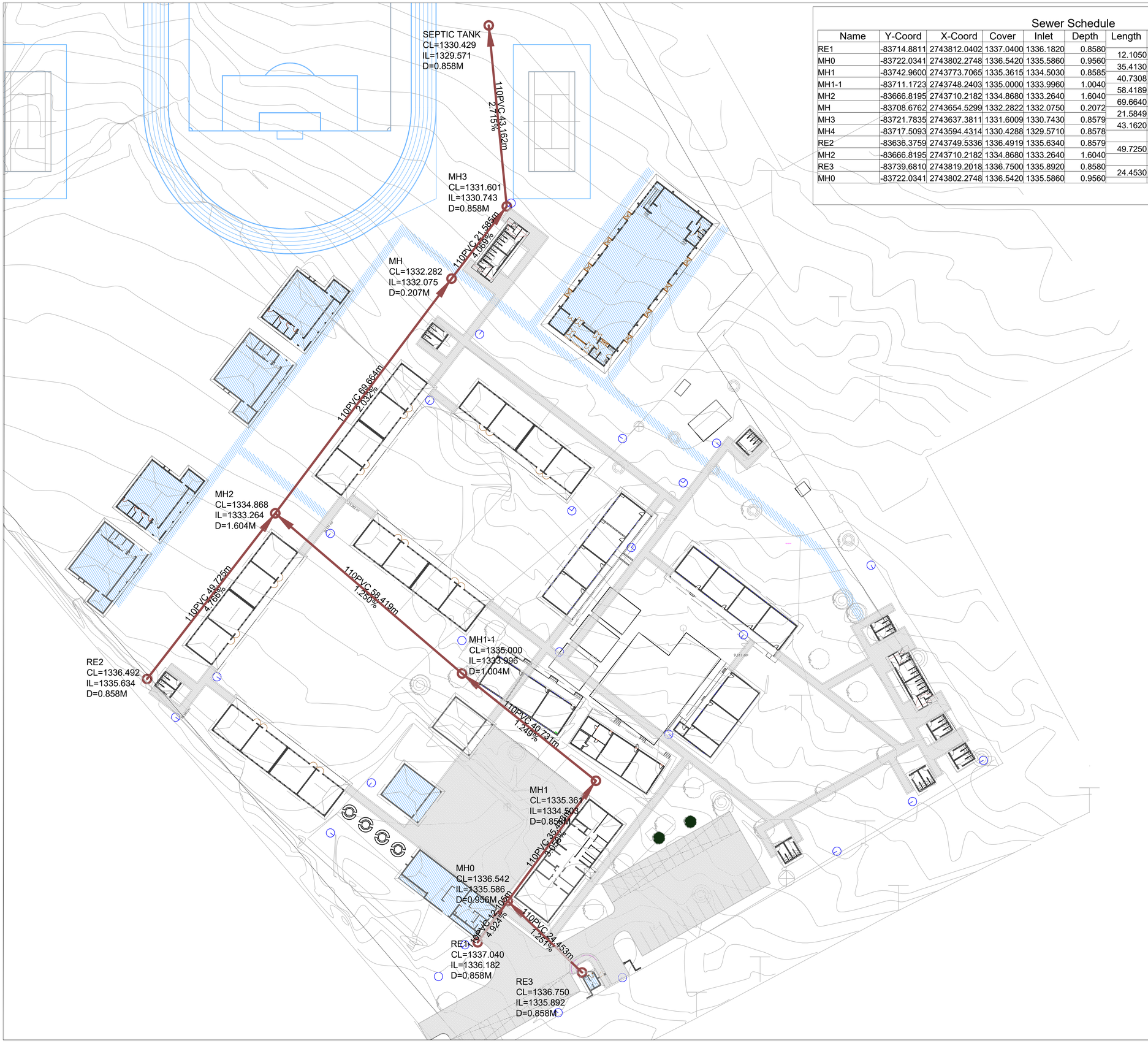
REBONE SECONDARY SCHOOL WATER LAYOUT

Drawn: TM Date: 04/02/20

Scale/s: 1:1000

Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
WAT 080819/1	02

Stamped by plans Approval Committee



Sewer Schedule

Name	Y-Coord	X-Coord	Cover	Inlet	Depth	Length	Slope	Type	Size
RE1	-83714.8811	2743812.0402	1337.0400	1336.1820	0.8580				
MH0	-83722.0341	2743802.2748	1336.5420	1335.5860	0.9560	12.1050	1:20.3104	PVC-U	110 mm
MH1	-83742.9600	2743773.7065	1335.3615	1334.5030	0.8585	35.4130	1:32.6990	PVC-U	110 mm
MH1-1	-83711.1723	2743748.2403	1335.0000	1333.9960	1.0040	40.7308	1:80.0552	PVC-U	110 mm
MH2	-83666.8195	2743710.2182	1334.8680	1333.2640	1.6040	58.4189	1:79.9850	PVC-U	110 mm
MH	-83708.6762	2743654.5299	1332.2822	1332.0750	0.2072	69.6640	1:49.2128	PVC-U	110 mm
MH3	-83721.7835	2743637.3811	1331.6009	1330.7430	0.8579	21.5849	1:24.5758	PVC-U	110 mm
MH4	-83717.5093	2743594.4314	1330.4288	1329.5710	0.8578	43.1620	1:36.8277	PVC-U	110 mm
RE2	-83636.3759	2743749.5336	1336.4919	1335.6340	0.8579				
MH2	-83666.8195	2743710.2182	1334.8680	1333.2640	1.6040	49.7250	1:20.9810	PVC-U	110 mm
RE3	-83739.6810	2743819.2018	1336.7500	1335.8920	0.8580				
MH0	-83722.0341	2743802.2748	1336.5420	1335.5860	0.9560	24.4530	1:79.9118	PVC-U	110 mm

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

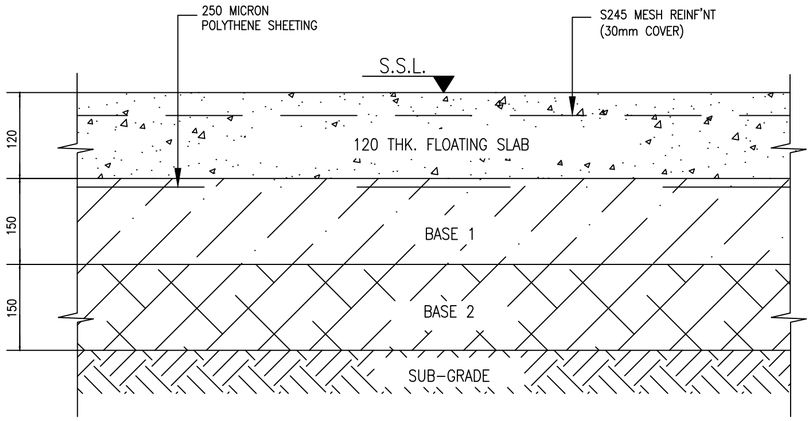
REBONE SECONDARY SCHOOL SEWER LAYOUT

Drawn: TM Date: 04/02/20

Scale/s: 1:1000

Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
SEW 080819/2	02

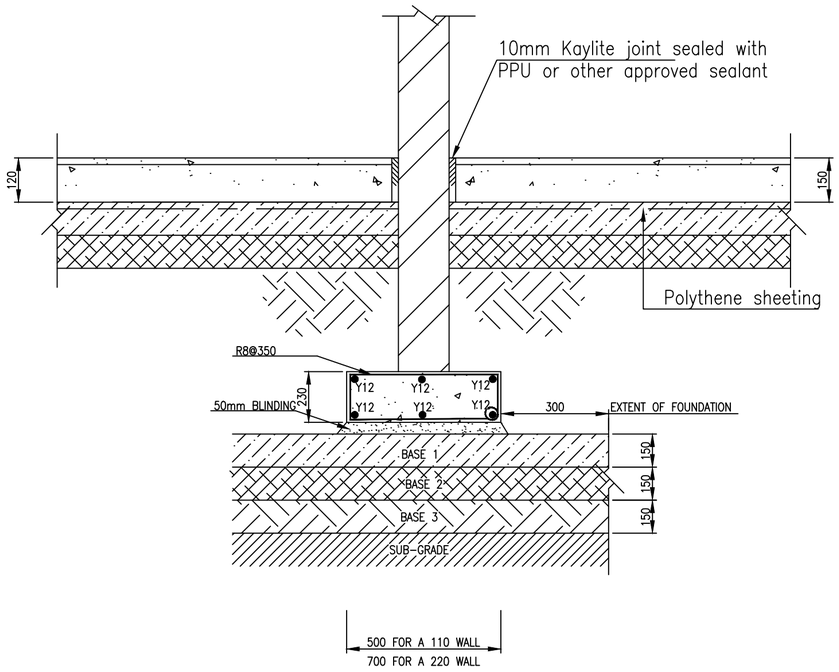
Stamped by plans Approval Committee



TYPICAL DETAIL OF FILL UNDER FLOATING GROUND FLOOR SLABS

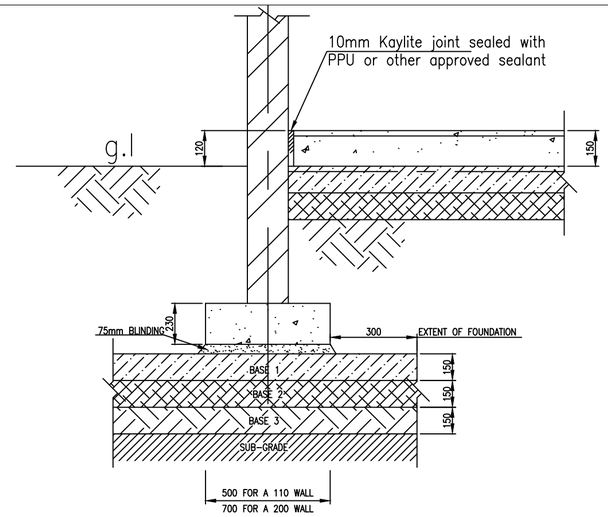
UNDER FLOOR TREATMENT

1. REMOVE TOP 150mm SOIL TO WASTE.
2. SCARIFY TOP OF IN-SITU MATERIAL & COMPACT TO 90% MOD AASHTO (SUB-GRADE)
3. IMPORT GRAVEL OF G7 TYPE & STABILISE WITH 2-3% CEMENT TO ACHIEVE 150mm OF WELL COMPACTED FILL TO 93% MOD AASHTO (BASE 2)
4. IMPORT GRAVEL OF G7 TYPE & STABILISE WITH 2-3% CEMENT TO ACHIEVE 150mm OF WELL COMPACTED FILL TO 95% MOD AASHTO (BASE 1)



SECTION B – B
TYPICAL SECTION THROUGH AN INTERNAL WALL

Scale 1:25

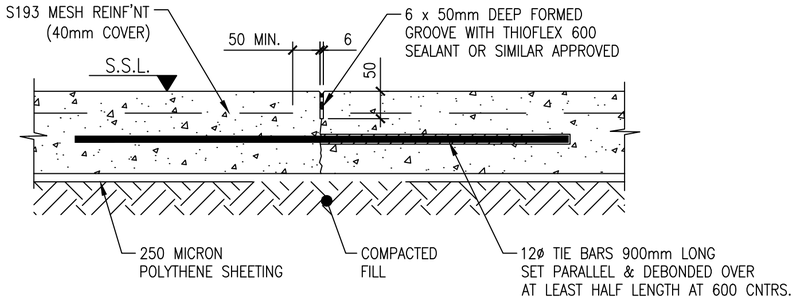


SECTION A – A
TYPICAL SECTION THROUGH AN EXTERNAL WALL

Scale 1:25

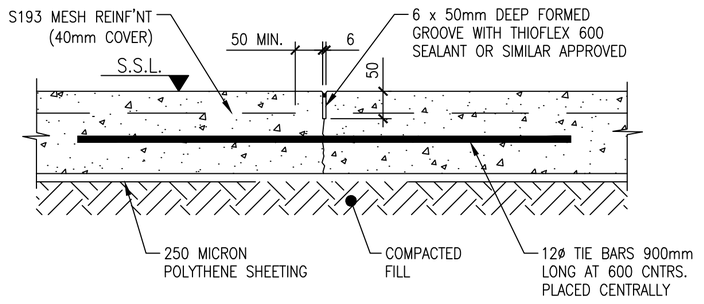
FOUNDATION TREATMENT

1. SCARIFY TOP OF FOUNATION MATERIAL & COMPACT TO 90% MOD AASHTO (SUB-GRADE)
2. IMPORT GRAVEL OF G7 TYPE & STABILISE WITH 2-3% CEMENT TO ACHIEVE 150mm OF WELL COMPACTED FILL TO 93% MOD AASHTO (BASE 3)
3. IMPORT GRAVEL OF G7 TYPE & STABILISE WITH 2-3% CEMENT TO ACHIEVE 150mm OF WELL COMPACTED FILL TO 95% MOD AASHTO (BASE 2)
4. IMPORT GRAVEL OF G7 TYPE & STABILISE WITH 2-3% CEMENT TO ACHIEVE 150mm OF WELL COMPACTED FILL TO 97% MOD AASHTO (BASE 1)



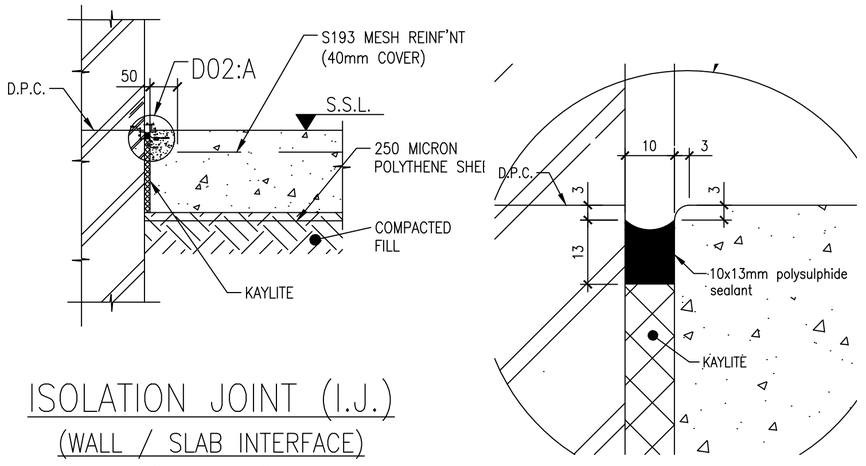
FORMED DEBONDED CONTRACTION JOINT DETAIL

SCALE 1 : 10



FORMED TIED CONSTRUCTION JOINT DETAIL

SCALE 1 : 10



ISOLATION JOINT (I.J.)
(WALL / SLAB INTERFACE)

SCALE 1 : 10

No	DATE	REVISION	CONSULT	DIR

DESIGNED BY	NTB
CHECKED BY	TM
DRAWN BY	NTB
CHECKED BY	TM
APPROVED & ADOPTED BY	NTB

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The Head of department
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Low Flow Construction and Engineering PTY Ltd.

CHIEF ENGINEER-LPG-DPWR&I — DATE

CONSULTING ENGINEER — DATE

CONTRACT NO.: LDPW.PROF/11026

REBONE SECONDARY SCHOOL

FOUNDATION TREATMENT DETAIL

ISSUED FOR TENDER (Full Signature) 2016/ /
For: Department of Public Works 2016/ /
For: Consultant

CONSULTANT DRAWING NUMBER: LFCM-005-BOS-201/1

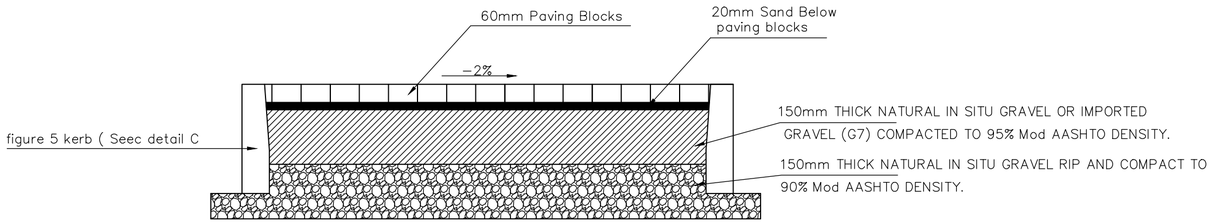
SHEET 1 OF 1

SCALE: AS SHOWN

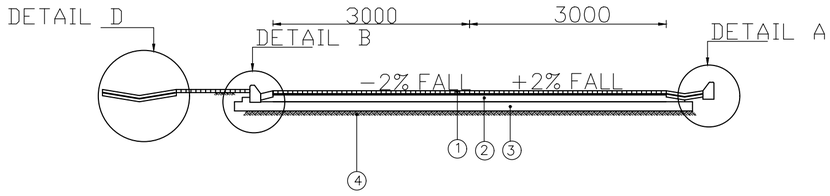
DRAWING NUMBER: LFCM--005-BOS-201/1

PAVEMENT LAYERS DETAILS (PARKING AREAS)

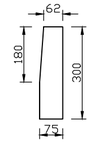
1. SURFACING:	80mm PAVING BLOCKS WITH 20mm SAND
2. BASE:	150mm THICK STABILISED NATURAL GRAVEL LAYER (C4) COMAPCTED TO 96% Mod AASHTO DENSITY.
3. SUB–BASE:	150mm THICK NATURAL IN SITU GRAVEL OR IMPORTED GRAVEL (G7) COMPACTED TO 95% Mod AASHTO DENSITY.
4. IN–SITU	150mm THICK NATURAL IN SITU GRAVEL RIP AND COMPACT TO 90% Mod AASHTO DENSITY.



Walkway Cross Section
SCALE 1:10

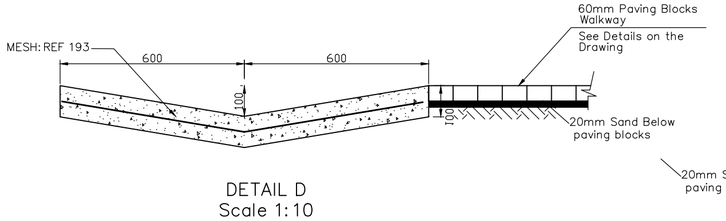


MAIN ACCESS ROAD CROSS SECTION
SCALE 1:50

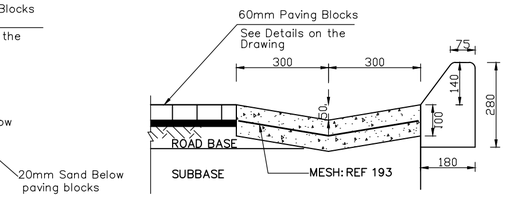


DETAIL C (Figure 5 Kerb)

Scale 1:10

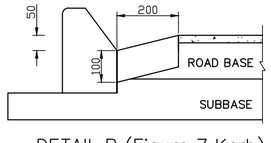


DETAIL D
Scale 1:10



DETAIL A (Figure 7 Kerb)

Scale 1:10



DETAIL B (Figure 7 Kerb)

Scale 1:10

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

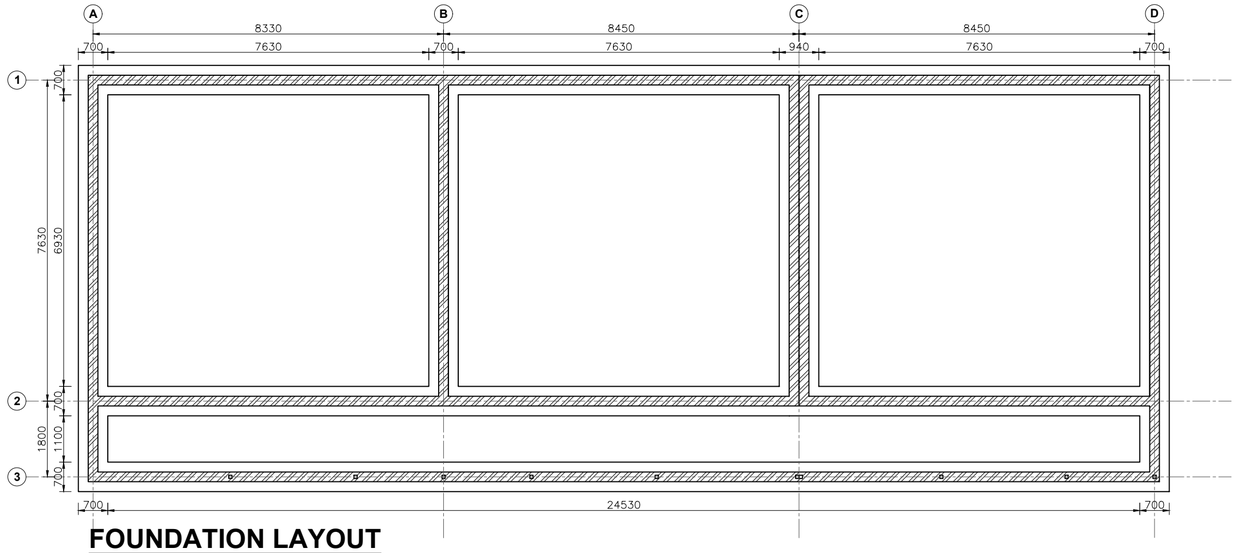
REBONE SECONDARY SCHOOL TYPICAL ROAD DETAIL

Drawn: TM Date: 04/02/20

Scale/s: 1:1000

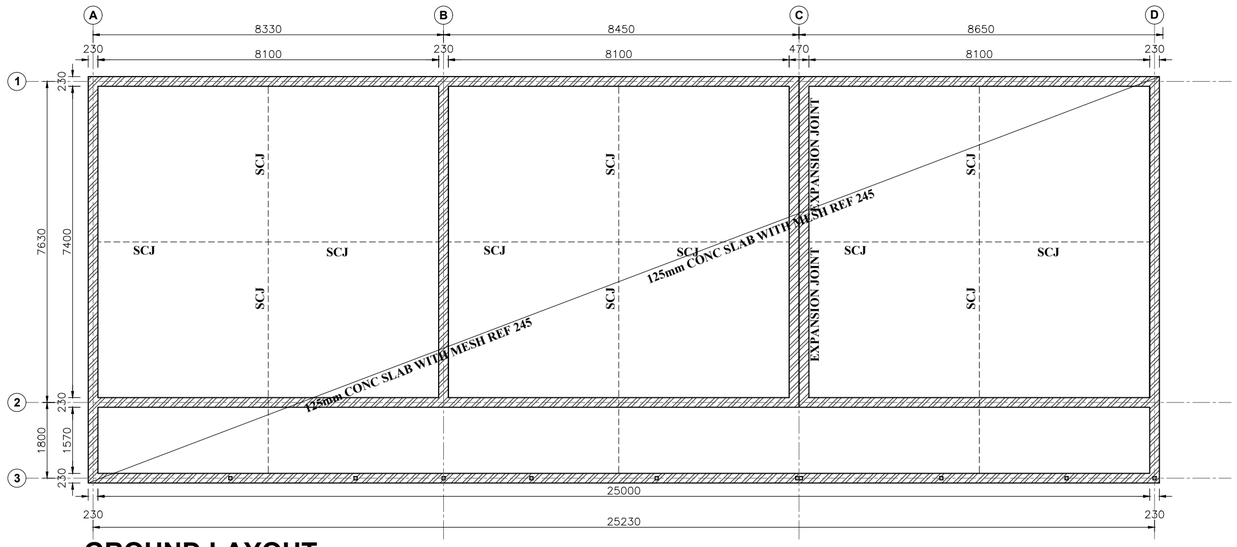
Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
ETH 080819/1	02

Stamped by plans Approval Committee



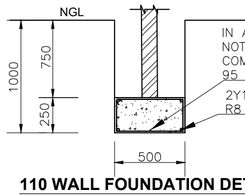
FOUNDATION LAYOUT

Scale 1:100



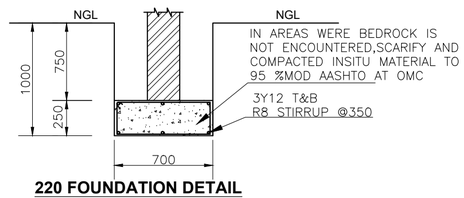
GROUND LAYOUT

Scale 1:100



110 WALL FOUNDATION DETAIL

Scale 1:20



220 FOUNDATION DETAIL

Scale 1:20

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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Fax: 086 541 0992
E-mail: lowflowsa@gmail.com

Low Flow Construction and Engineering PTY Ltd.

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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

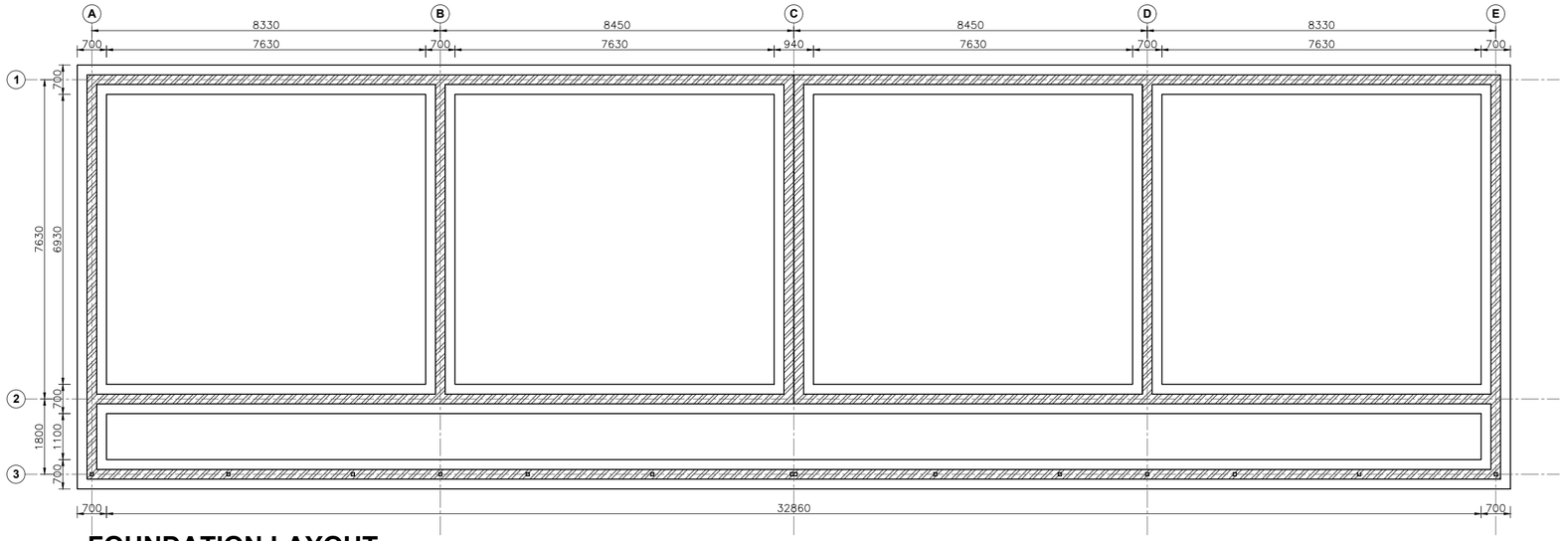
REBONE SECONDARY SCHOOL 3 CLASSROOM BLOCK STRUCTURAL DETAILS

Drawn: TM Date: 04/02/20

Scale/s: 1:100

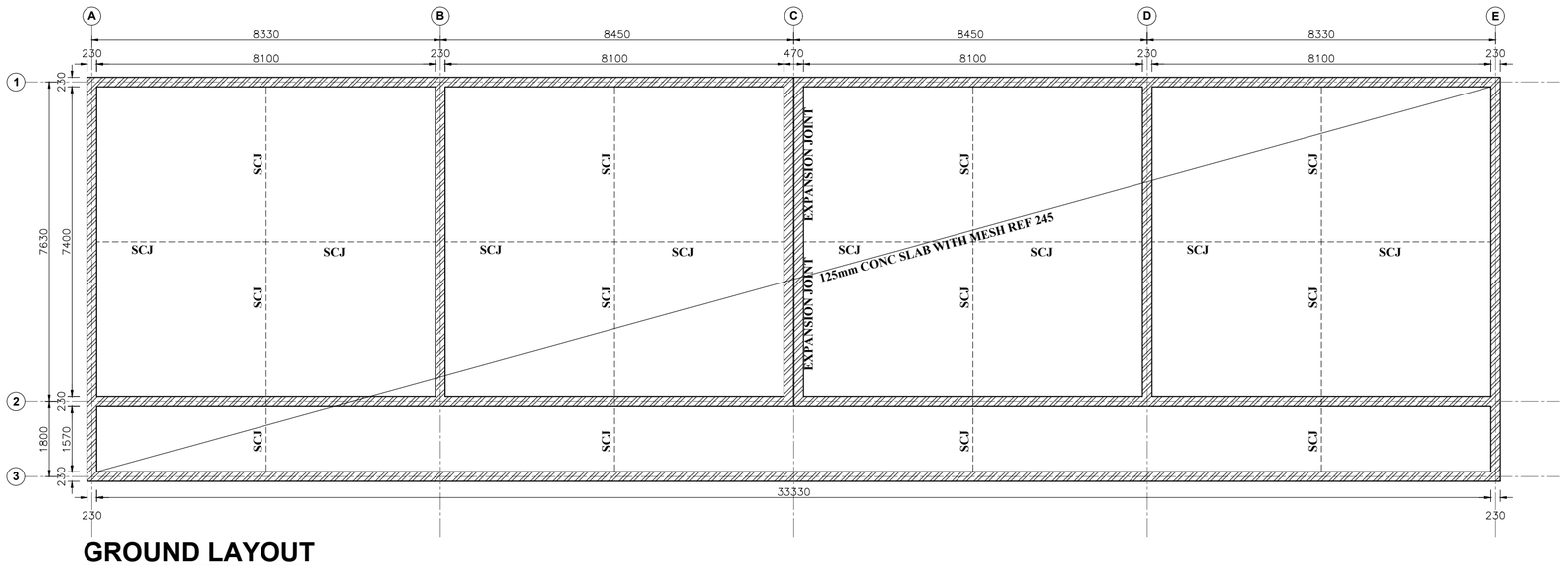
Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
STR 0808193	01

Stamped by plans Approval Committee



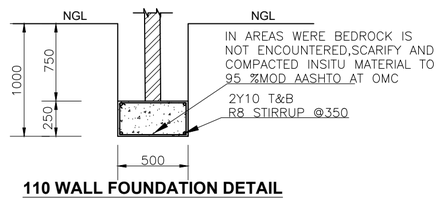
FOUNDATION LAYOUT

Scale 1:100



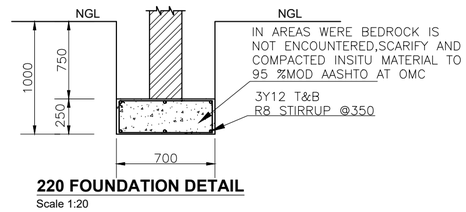
GROUND LAYOUT

Scale 1:100



110 WALL FOUNDATION DETAIL

Scale 1:20



220 FOUNDATION DETAIL

Scale 1:20

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

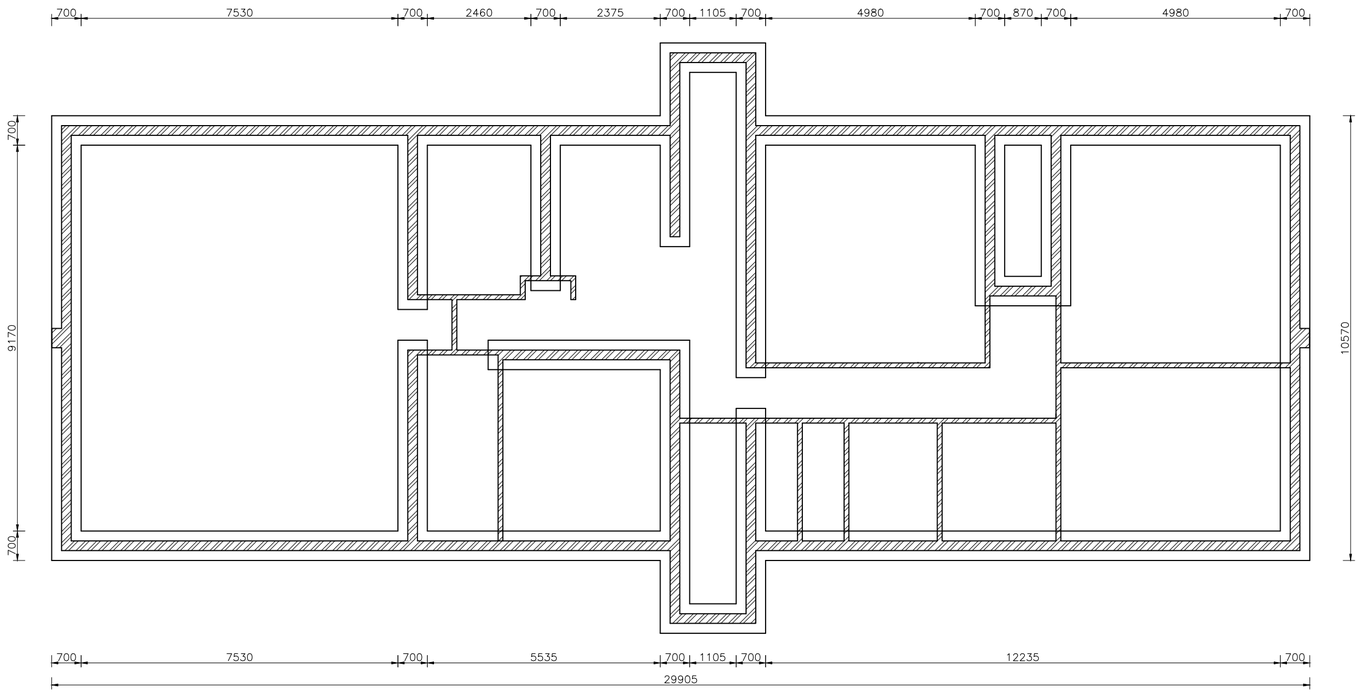
REBONE SECONDARY SCHOOL 4 CLASSROOM BLOCK STRUCTURAL DETAILS

Drawn: TM Date: 04/02/20

Scale/s: 1:100

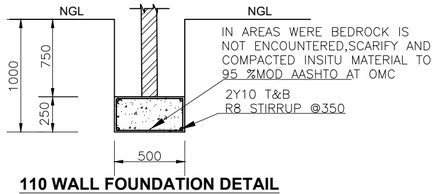
Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
STR 080819/4	01

Stamped by plans Approval Committee



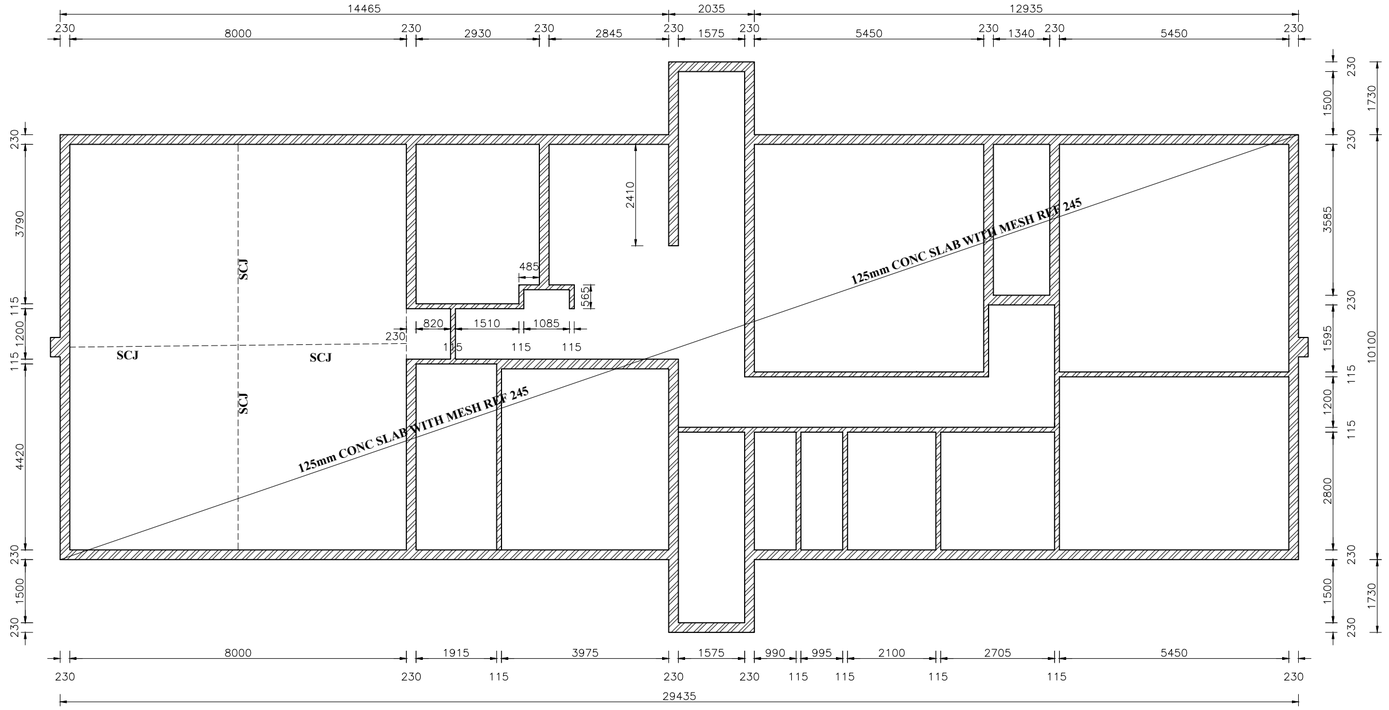
FOUNDATION LAYOUT

Scale 1:100



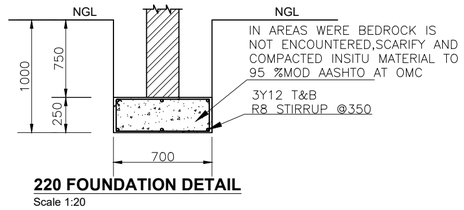
110 WALL FOUNDATION DETAIL

Scale 1:20



GROUND LAYOUT

Scale 1:100



220 FOUNDATION DETAIL

Scale 1:20

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

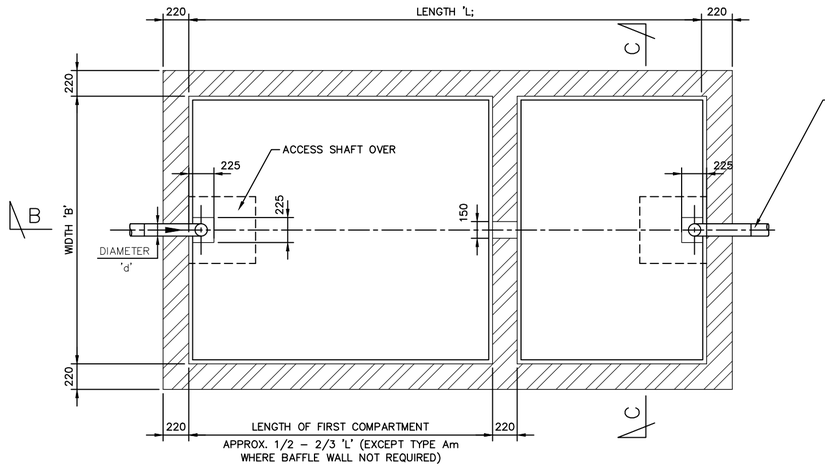
REBONE SECONDARY SCHOOL ADMINISTRATION BLOCK STRUCTURAL DETAILS

Drawn: TM Date: 04/02/20

Scale/s: 1:100

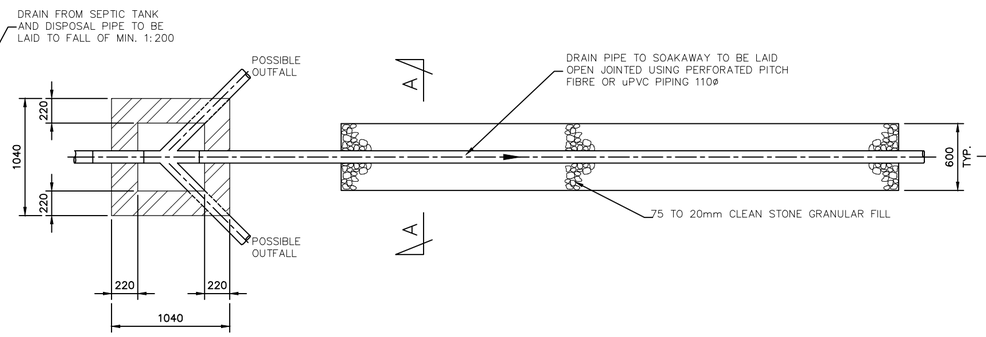
Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
STR 080819/1	01

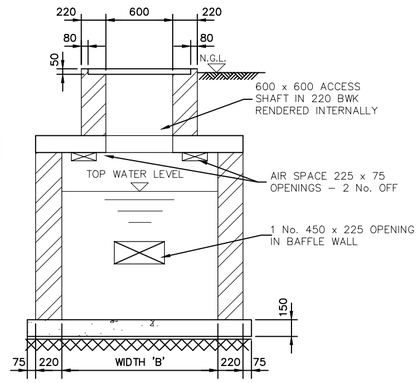
Stamped by plans Approval Committee



SECTIONAL PLAN

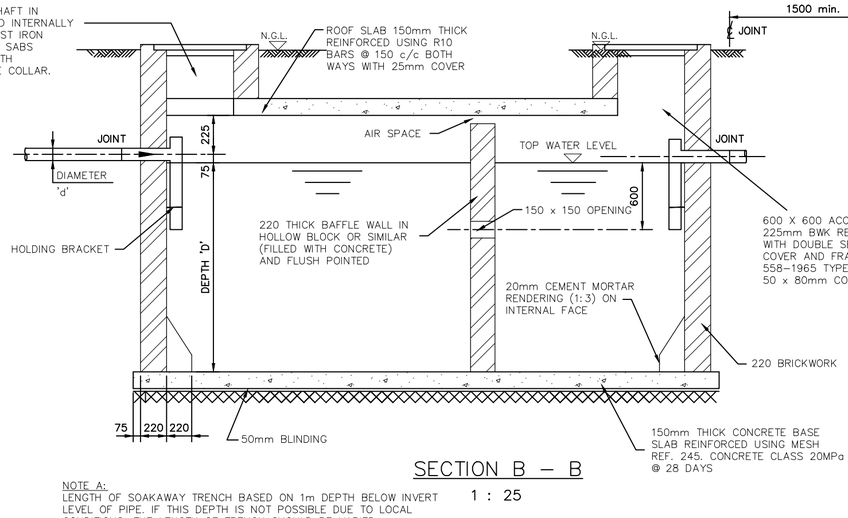
1 : 25





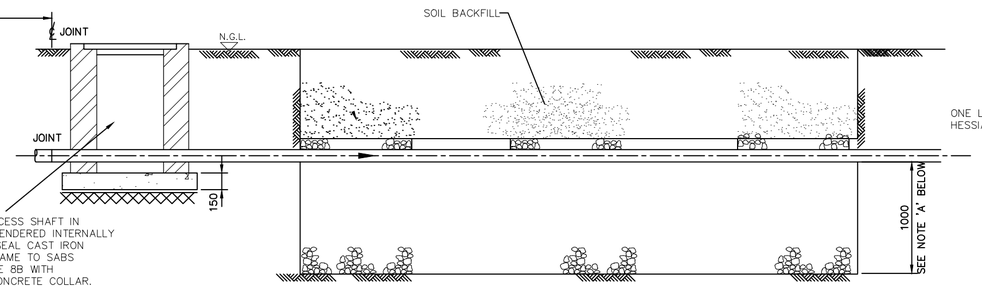
SECTION C – C

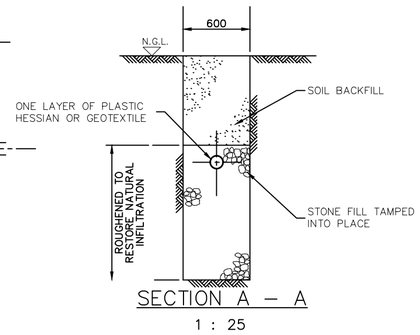
1 : 25



SECTION B – B

1 : 25





SECTION A – A

1 : 25

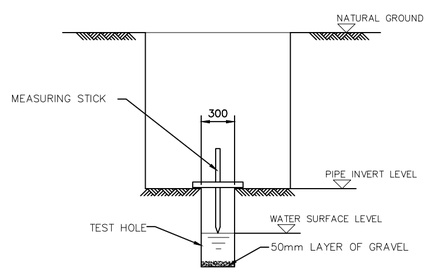
NOTE A:
LENGTH OF SOAKAWAY TRENCH BASED ON 1m DEPTH BELOW INVERT LEVEL OF PIPE. IF THIS DEPTH IS NOT POSSIBLE DUE TO LOCAL CONDITIONS, THE LENGTH OF TRENCH SHOULD BE VARIED ACCORDINGLY TO GIVE THE EQUIVALENT TRENCH SIDE WALL AREA.

SEPTIC TANK DETAILS						LENGTH OF SOAK AWAY (m)					
						PERCOLATION RATE – MINUTES PER 25mm					
TYPE	NO. OF PERSONS	DEPTH "D"m	WIDTH "B"m	LENGTH "L"m	CAPACITY m3	1 OR LESS	5 MINS	10 MINS	15 MINS	30 MINS	60 MINS
Am	1–5	1.15	0.94	1.88	2.04	5.00	5.00	5.00	7.50	10.00	15.00
Bm	6–10	1.15	0.94	2.35	2.55	5.00	7.50	10.00	15.00	20.00	30.00
Cm	11–15	1.15	0.94	3.76	3.57	7.50	11.25	15.00	22.50	30.00	45.00
Dm	16–20	1.15	0.94	4.23	4.59	10.00	15.00	20.00	30.00	40.00	60.00
Em	21–25	1.29	0.94	4.70	5.72	12.50	18.75	25.00	37.50	50.00	75.00
Fm	26–30	1.35	0.94	5.17	6.67	15.00	22.50	30.00	45.00	60.00	90.00
Gm	31–35	1.12	1.41	4.70	7.50	17.25	26.25	35.00	52.50	70.00	105.00
Hm	36–40	1.23	1.41	4.70	8.14	7.50	30.00	40.00	60.00	80.00	120.00
Jm	41–50	1.29	1.41	5.64	10.30	10.00	37.50	50.00	75.00	100.00	150.00
Km	51–60	1.50	1.41	6.64	13.96	12.50	45.00	60.00	90.00	120.00	180.00
Lm	61–70	1.72	1.41	6.11	13.65	15.00	52.50	70.00	105.00	140.00	210.00

NB: TYPE Km TO BE USED FOR THE SCHOOL

PERCOLATION RATE TEST TO DETERMINE THE ABSORPTION RATE OF THE SOIL

1. EXCAVATE A TEST HOLE TO THE DEPTH OF THE PROPOSED SOAKAWAY TRENCH BY HAND OR BY AUGER WITH A DIAMETER OF BETWEEN 100mm AND 300mm. IN ORDER TO RECORD RESULTS ACCURATELY IT WILL BE NECESSARY TO DIG A PIT BELOW PIPE INVERT LEVEL PRIOR TO TAKING OUT THE TEST HOLE. REMOVE ALL LOOSE MATERIAL FROM THE BOTTOM OF THE HOLE AND REPLACE WITH A 50mm LAYER OF GRAVEL TO PREVENT SCOUR WHEN FILLING WITH WATER.
2. FILL THE TEST HOLE WITH WATER TO A DEPTH OF 300mm AND MAINTAIN THIS LEVEL BY THE ADDITION OF MORE WATER FOR AT LEAST 4 HOURS BEFORE CARRYING OUT THE TEST.
3. AFTER ALLOWING THE SOAKING WATER TO PERCOLATE AWAY, FILL THE TEST HOLE TO A DEPTH OF 150mm WITH WATER AND MEASURE THE DROP IN WATER LEVEL OVER A PERIOD OF 30 mins. OR UNTIL THE WATER HAS DRAINED AWAY.
4. THE AVERAGE TIME FOR THE WATER TO DROP 25mm IS CALCULATED AND REPRESENTS THE PERCOLATINN RATE EXPRESSED IN MINUTES PER 25mm.



ABSORPTION METHOD

1 : 25

No	DATE	REVISION	CONSULT	DIR

DESIGNED BY	NTB
CHECKED BY	TM
DRAWN BY	NTB
CHECKED BY	TM
APPROVED & ADOPTED BY	NTB

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Low Flow Construction and Engineering PTY Ltd.

CHIEF ENGINEER-LPG-DPWR&I — DATE

CONSULTING ENGINEER — DATE

CONTRACT NO.: LDPW.PROF/11026

REBONE SECONDARY SCHOOL

SEPTIC TANK DETAIL

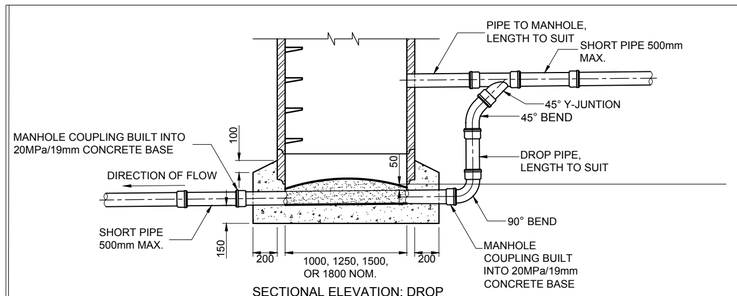
ISSUED FOR TENDER
(Full Signature)
20YY/ /
For: Department of Public Works
20YY/ /
For: Consultant

SHEET 1 OF 1

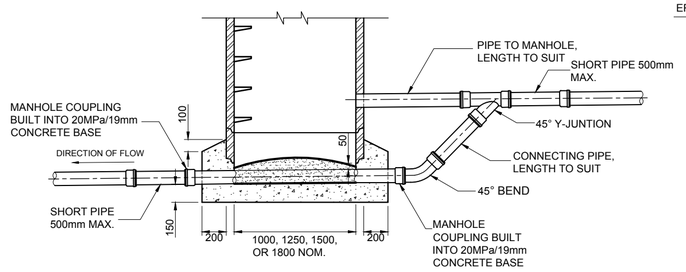
SCALE: AS SHOWN

CONSULTANT DRAWING NUMBER: LFCM-005-BOS-201/1

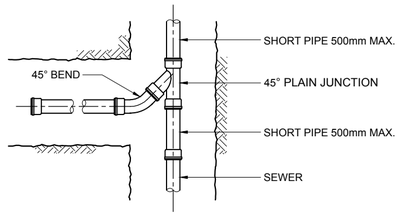
DRAWING NUMBER: LFCM--005-BOS-201/1



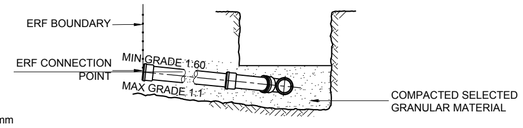
SECTIONAL ELEVATION: DROP CONNECTION DETAILS, TYPE 'Y'
SCALE 1:25



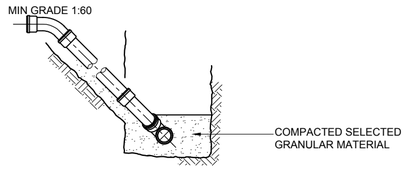
SECTIONAL ELEVATION: DROP CONNECTION DETAILS, TYPE 'W'
SCALE 1:25



PLAN: DIRECT SEWER CONNECTION
SCALE 1:25



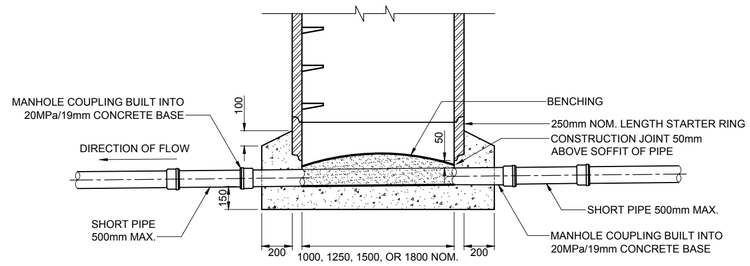
ELEVATION: DIRECT SEWER CONNECTION
SCALE 1:25



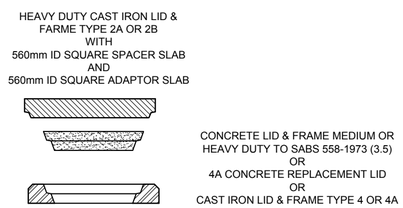
ELEVATION: DIRECT SEWER CONNECTION-SLOPING DROP TYPE
SCALE 1:25

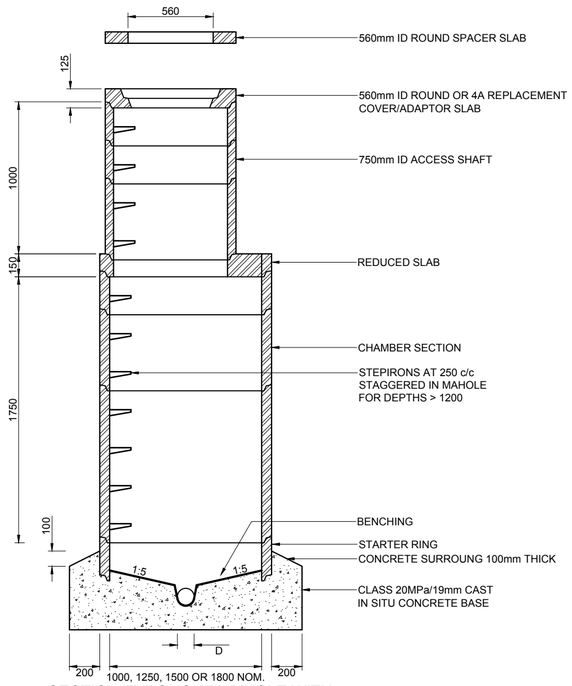
NOTES

1. ALL MANHOLE COVERS AND FRAMES TO COMPLY WITH SABS 558.
2. ALL PRECAST MANHOLE RINGS TO COMPLY WITH SABS 1294.
3. MINIMUM OF TWO SPACER SLABS MUST BE USED TO FACILITATE MINOR ADJUSTMENTS TO FINAL REQUIRED LEVEL.
4. THE CHAMBER SECTION OF THE MANHOLE TO BE A MAXIMUM OF 2.0m IN HEIGHT.
5. ACCESS SHAFTS TO BE USED FOR MANHOLES DEEPER THAN 2.0m
6. TYPE 1 AND TYPE 2A TO BE USED FOR SIDEWALKS AND ROADWAYS RESPECTIVELY.
7. JOINTS FOR MANHOLE CHAMBERS TO BE SEALED WITH EPOXY 3mm MAXIMUM THICK. INTERNAL FINISH SMOOTHENED BEFORE EXPOXY HARDENS.
8. ALL PIPES AND FITTINGS WITH CONCRETE SORROUNDS SHALL BE MADE WATERTIGHT.
9. FLEXIBLE JOINTS SHALL BE CLEAR OF ALL CONCRETE.

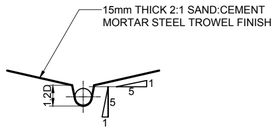


LONGITUDINAL SECTION OF MANHOLE WITH CAST-IN-SITU BASE
SCALE 1:20

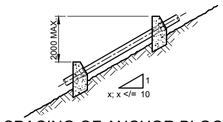




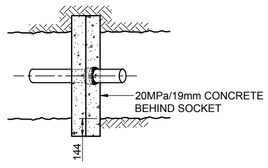
SECTION THROUGH MANHOLE WITH CAST-IN-SITU BASE
SCALE 1:20



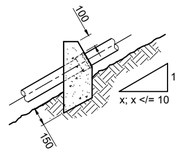
BENCHING DETAILS
SCALE 1:20



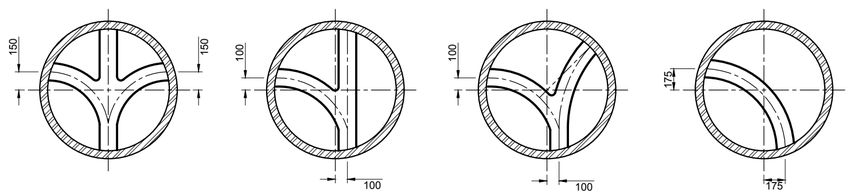
SPACING OF ANCHOR BLOCKS
NTS



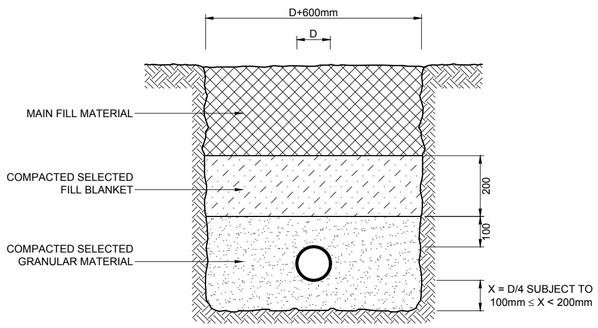
PLAN OF ANCHOR BLOCK
SCALE 1:25



SECTION THROUGH ANCHOR BLOCK
SCALE 1:25



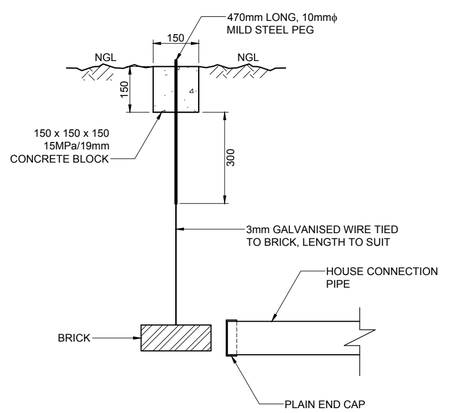
SEWER OFFSETS FOR BENCHING REQUIREMENTS
SCALE 1:25



BEDDING FOR FLEXIBLE PIPES
SCALE 1:10

NOTES

1. SELECTED FILL MATERIAL SHALL BE MATERIAL THAT HAS A PI NOT EXCEEDING 6 AND THAT IS FREE FROM VEGETATION, CLAY LUMPS AND STONES OF DIAMETER EXCEEDING 30mm.
2. SELECTED GRANULAR MATERIAL SHALL BE MATERIAL OF A GRANULAR NON-COHESIVE NATURE THAT IS SEPARATELY GRADED BETWEEN 0.6mm AND 19mm, IS FREE FROM DRAINING AND HAS A COMPACTIBILITY FACTOR NOT EXCEEDING 0.4 AS DETERMINED BY TESTS SPECIFIED IN SABS 0120 PART 3, SECTION LB 4.2.
3. SELECTED FILL AND GRANULAR MATERIAL TO BE COMPACTED IN LAYERS NOT EXCEEDING 100mm.
4. ONLY CLASS S GRANULAR SORROUND WITH OR WITHOUT CEMENT STABILISATION OR CLASS X CONCRETE SORROUND MAY BE USED FOR FLEXIBLE PIPES. WHERE CEMENT STABILISATION IS SPECIFIED, CEMENT ADDED TO BE 5% BY VOLUME AT OPTIMUM MOISTURE CONTENT AND COMPACTION TO 90% Mod AASHTO.



MARKER BLOCK SECTIONAL ELEVATION
SCALE 1:10

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

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E-mail: lowflowsa@gmail.com

LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS & INFRASTRUCTURE

DEPARTMENT OF PUBLIC WORKS ROADS & INFRASTRUCTURE
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Polokwane
0700

TEL: 015 284 7000/1

PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

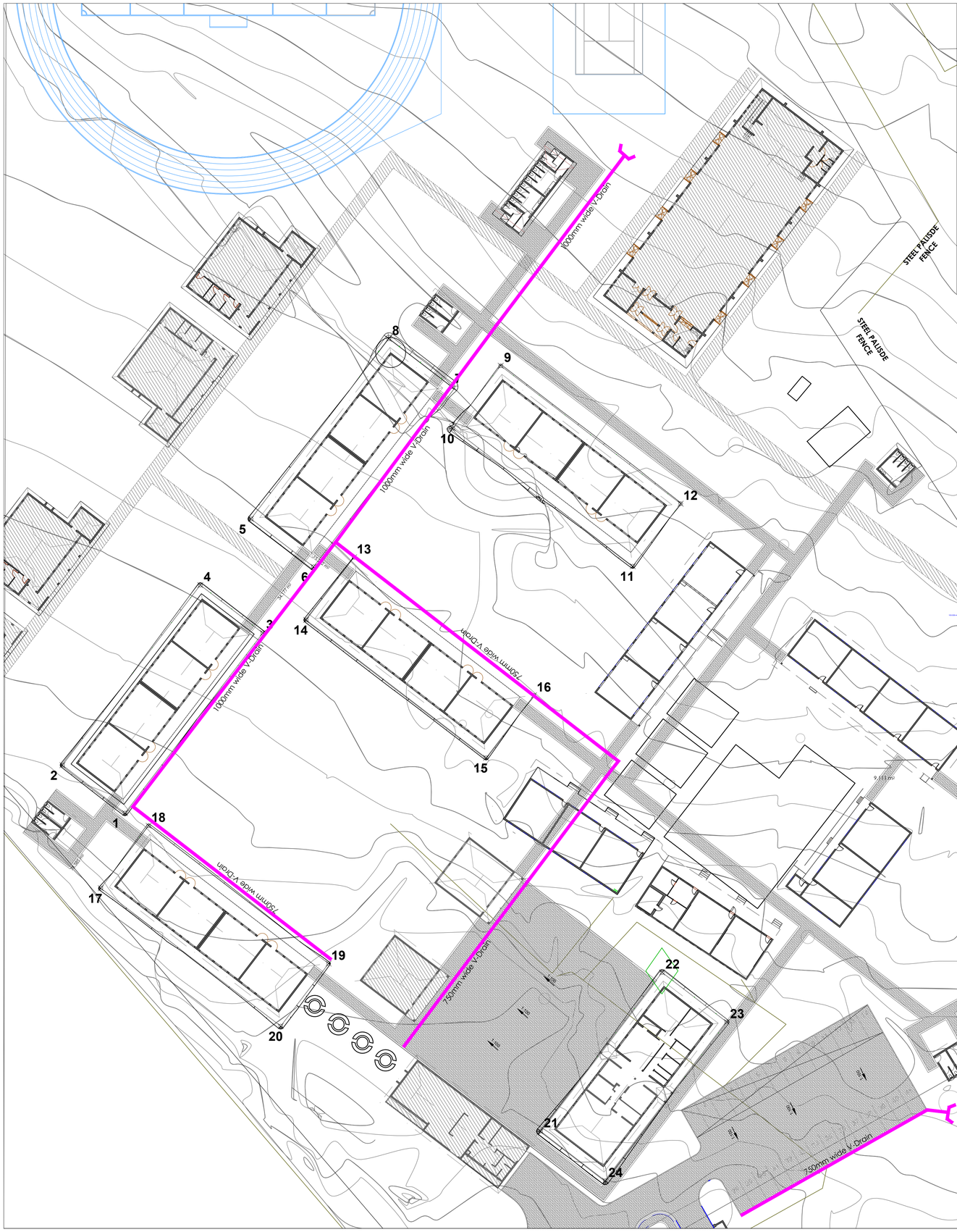
REBONE SECONDARY SCHOOL SEWER TYPICAL DETAIL

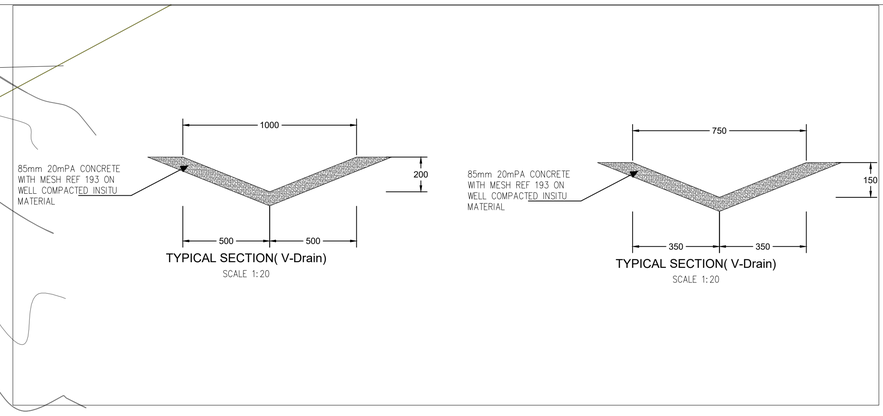
Drawn: TM Date: 04/02/20

Scale/s: 1:1000

Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
SEW 080819/1	02

Stamped by plans Approval Committee





List of Coordinates

Point	Y Coordinate	X Coordinate	Level
1	−83653.412	2743749.656	1335.342
2	−83643.204	2743741.835	1335.342
3	−83675.921	2743720.274	1335.342
4	−83665.712	2743712.454	1335.342
5	−83673.991	2743701.647	1334.069
6	−83684.200	2743709.467	1334.069
7	−83706.708	2743680.086	1334.069
8	−83696.499	2743672.265	1334.069
9	−83714.780	2743676.661	1333.000
10	−83706.961	2743686.870	1333.000
11	−83736.341	2743709.378	1333.000
12	−83744.162	2743699.169	1333.000
13	−83690.827	2743707.928	1334.400
14	−83683.006	2743718.137	1334.400
15	−83712.388	2743740.645	1334.400
16	−83720.208	2743730.437	1334.400
17	−83649.461	2743761.925	1336.021
18	−83657.271	2743751.730	1336.021
19	−83686.663	2743774.225	1336.021
20	−83678.843	2743784.434	1336.022
21	−83721.289	2743801.578	1335.899
22	−83741.135	2743775.672	1335.899
23	−83751.693	2743783.761	1335.899
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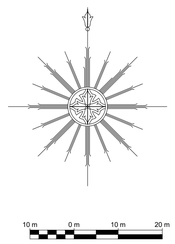

CLIENT DEPARTMENT SIGNATURE

FACILTY STAMP

FACILTY MANAGER

INFRASTRUCTURE MANAGER

GENERAL MANAGER

Checked by Professional Consultant

Name

Signature Date

LOWFLOW CONSTRUCTION &ENGINEERING
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Tzaneen
0850

Tel: 060 311 2170
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Low Flow Construction and Engineering PTY Ltd

LIMPOPO
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PUBLIC WORKS, ROADS & INFRASTRUCTURE

DEPARTMENT OF PUBLIC WORKS ROADS & INFRASTRUCTURE
43 Church Street
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0700

TEL: 015 284 7000/1

PROJECT

INFRASTRUCTURE PROVISIONING TO SCHOOLS WITH ACUTE INFRASTRUCTURE CHALLENGES, INCLUDING STORM DAMAGED SCHOOLS IN THE LIMPOPO PROVINCE

DRAWING DESCRIPTION

REBONE SECONDARY SCHOOL STORMWATER AND PLATFORMS SETTING-OUT DETAIL

Drawn: TM Date: 04/02/20

Scale/s: 1:1000

Consultant Drawing number	Revision
B-500-03-1	01
Drawing number	Revision
ETH 080819/1	02

Stamped by plans Approval Committee

ELECTRICAL DRAWINGS

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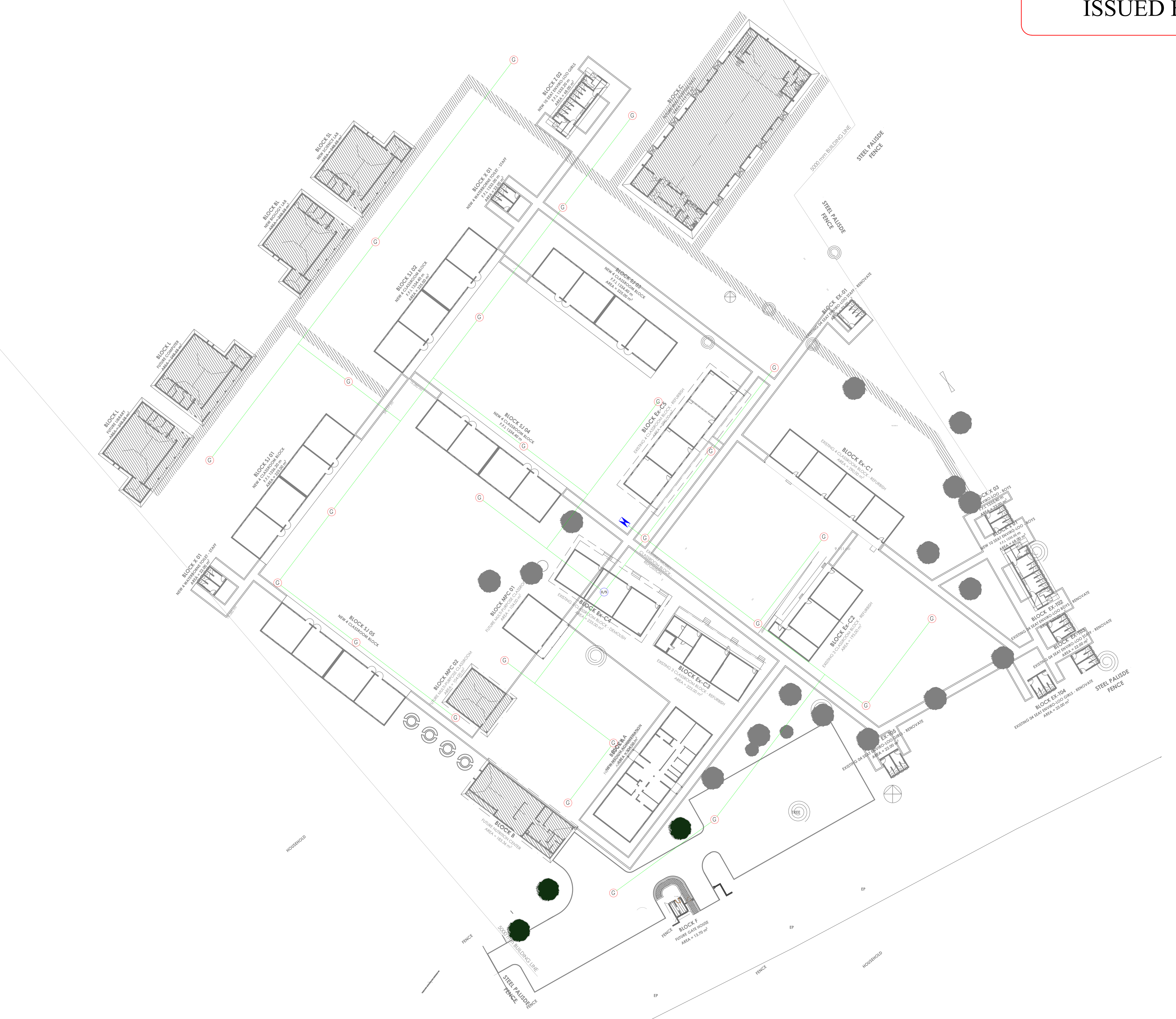
3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



POWER LEGEND

Symbol	Description
G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

CLIENT: LIMPOPO PROVINCIAL GOVERNMENT, REPUBLIC OF SOUTH AFRICA, Department of Public Works, Roads and Infrastructure

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website: www.muteo.co.za

	DATE	BY	SIGNATURE
PROJECT APPR.			
DESIGNED	25/07/2019	A.MANDAVHA	
CHECKED	25/07/2019	V.FUNGHENI	
DRAWN	25/07/2019	A.MANDAVHA	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL AREA LIGHING LAYOUT

PROJECT No. | DRG SIZE: A1 | DRAWING No.: MC/LDPWRI/EE/23

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3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

CLIENT: LIMPOPO PROVINCIAL GOVERNMENT, REPUBLIC OF SOUTH AFRICA, Department of Public Works, Roads and Infrastructure

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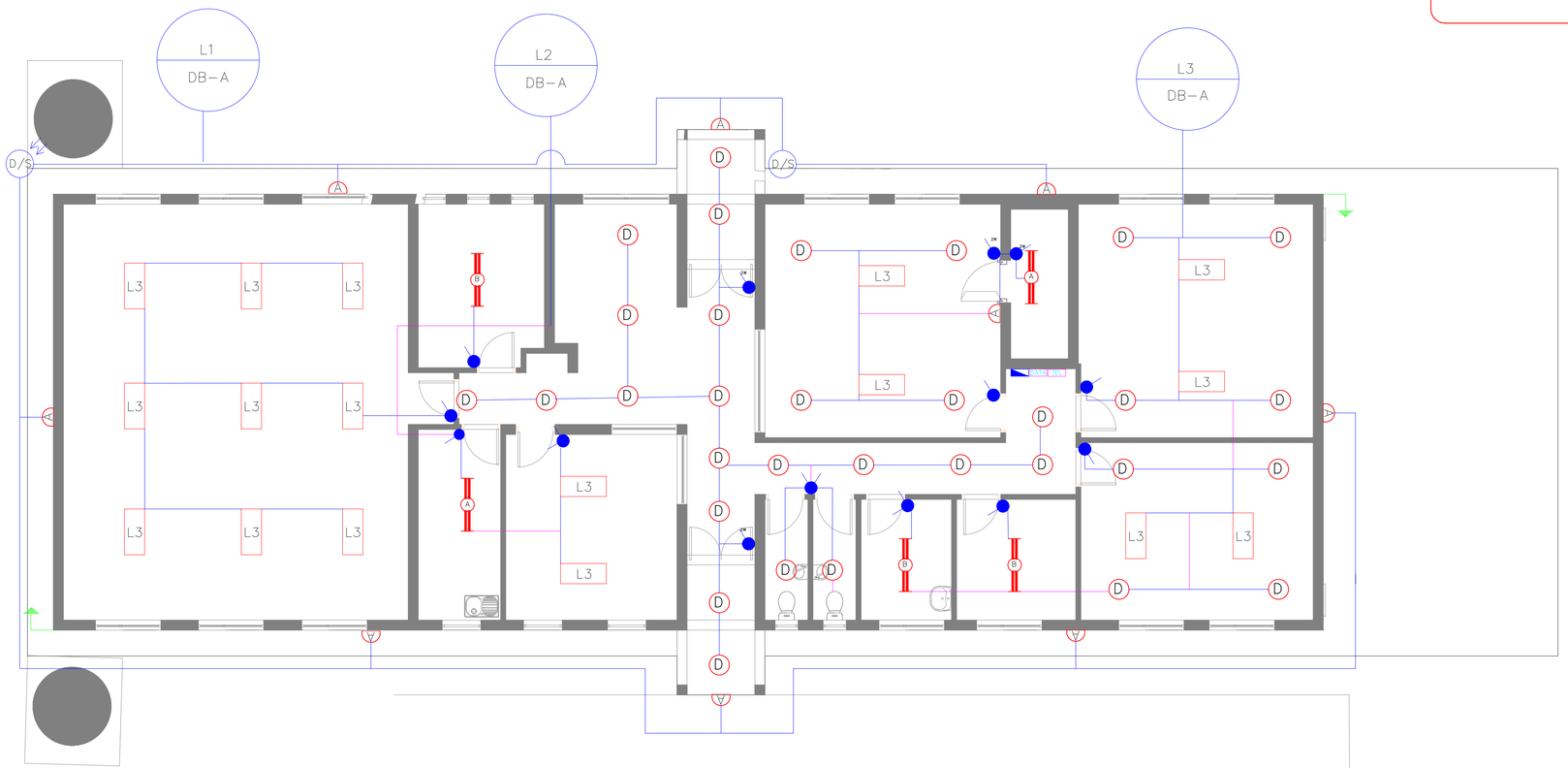
PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	25/07/2019	A.MANDAVHA	
CHECKED	25/07/2019	V.FUNGHENI	
DRAWN	25/07/2019	A.MANDAVHA	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

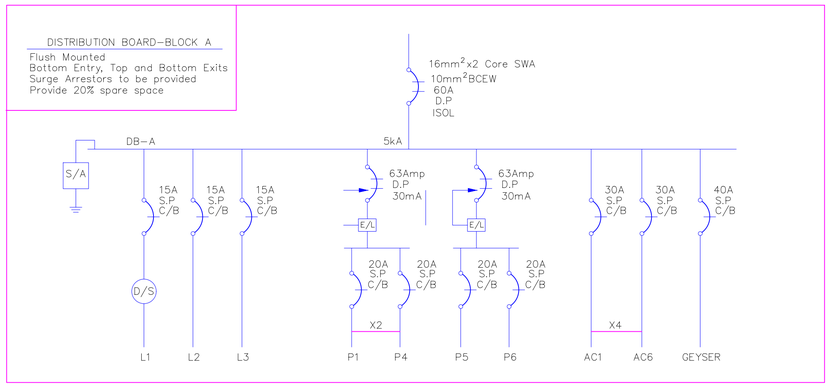
TITLE: REBONE SECONDARY SCHOOL CABLE LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/22

ISSUED FOR COORDINATION



BLOCK A
NEW



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4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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DESIGNED	26/07/2019	E.KHUMALO	
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DRAWN	26/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK A - ADMINISTRATION BLOCK
LIGHTS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/01-2

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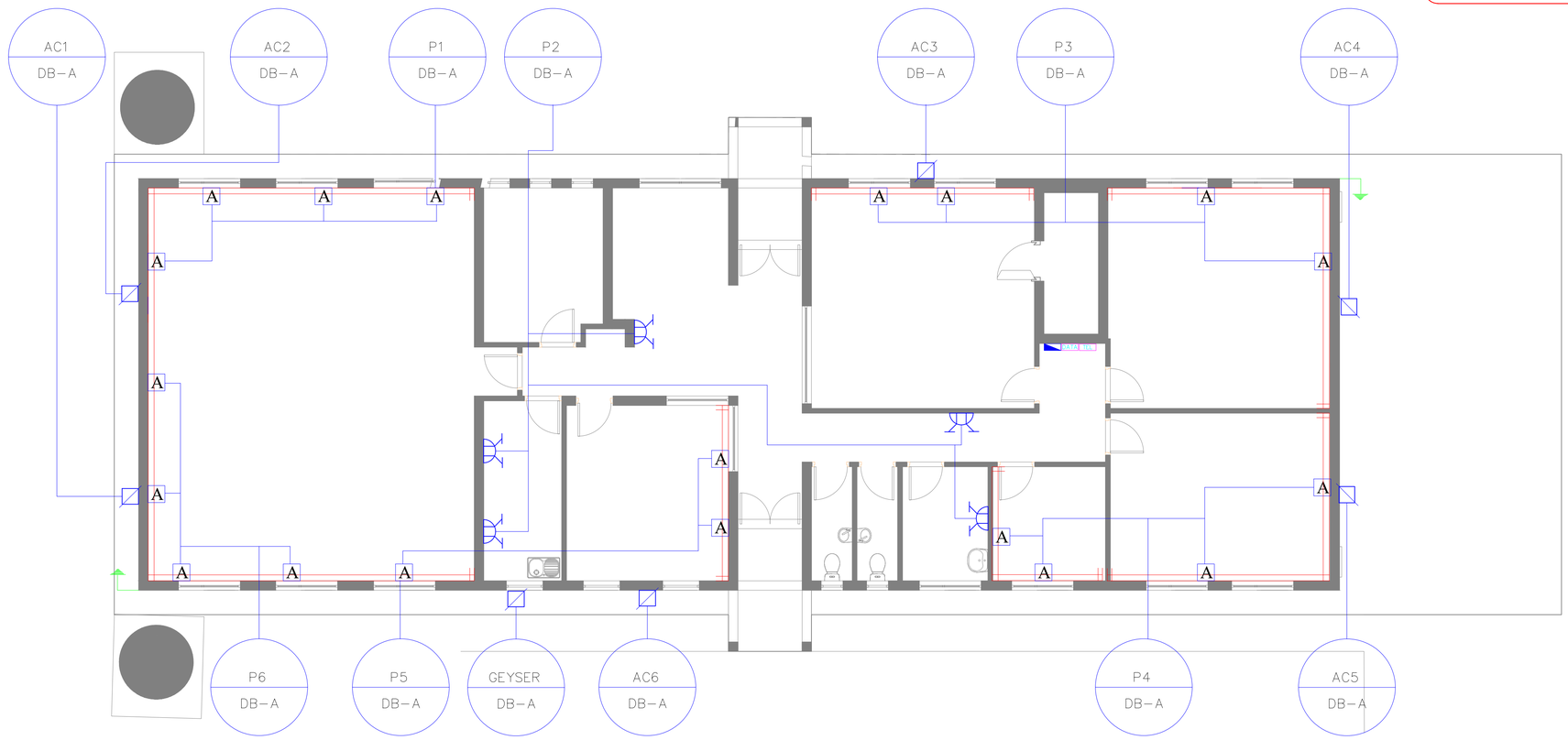
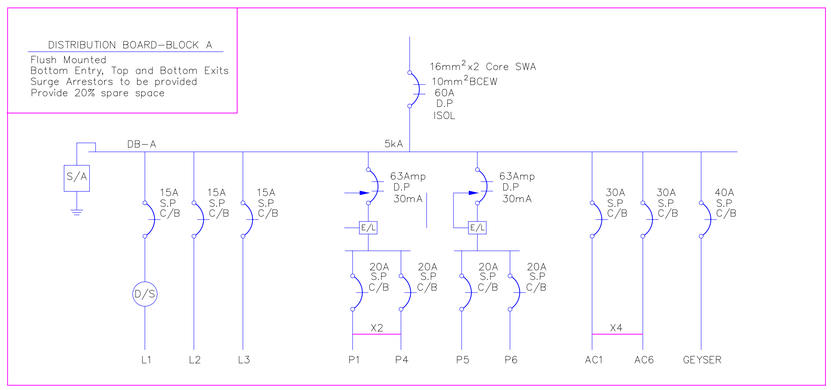


BLOCK A
NEW



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL BLOCK A - ADMINISTRATION BLOCK PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/01-1

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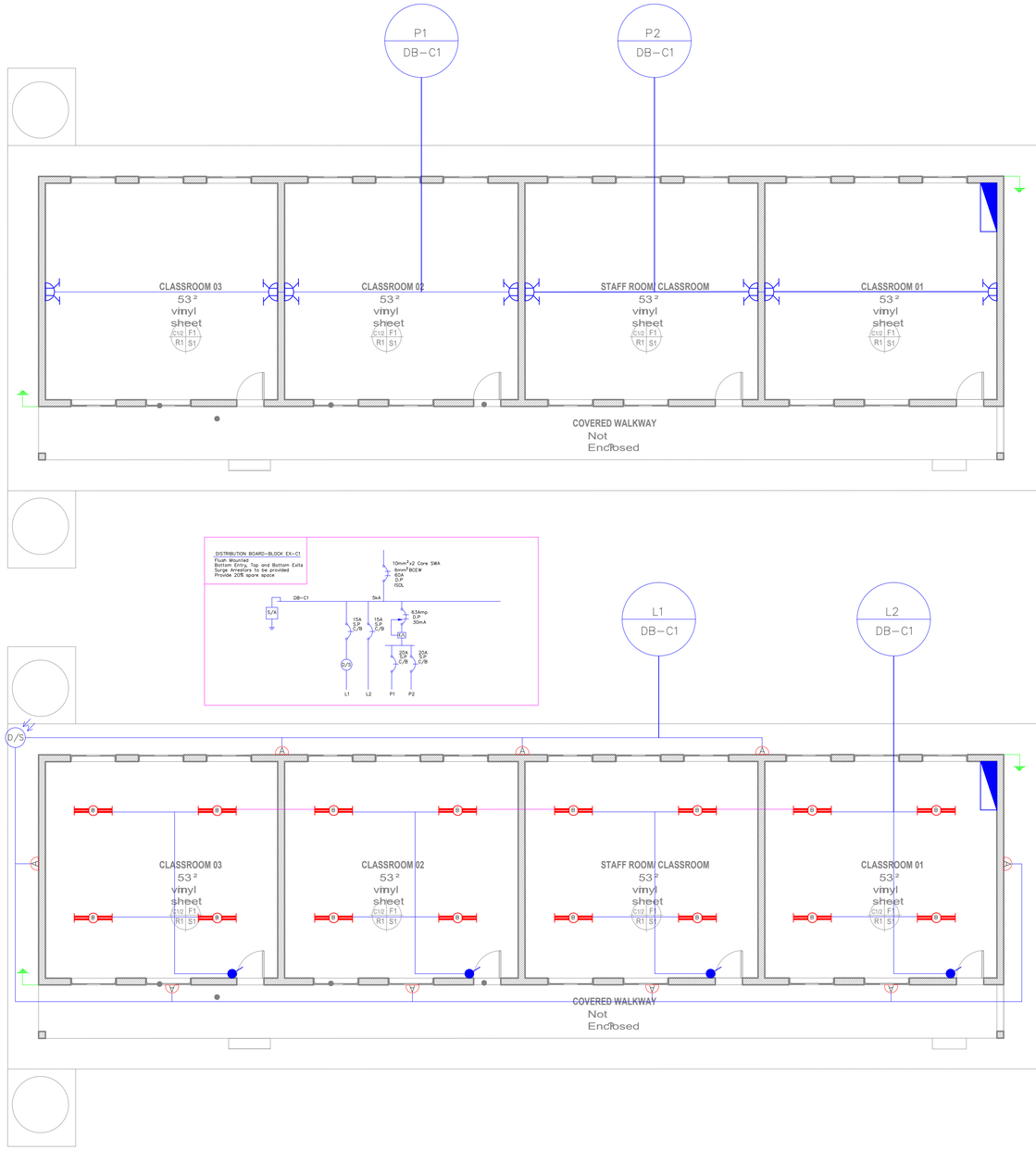

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
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	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
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PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-C1
LIGHTS AND PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/03

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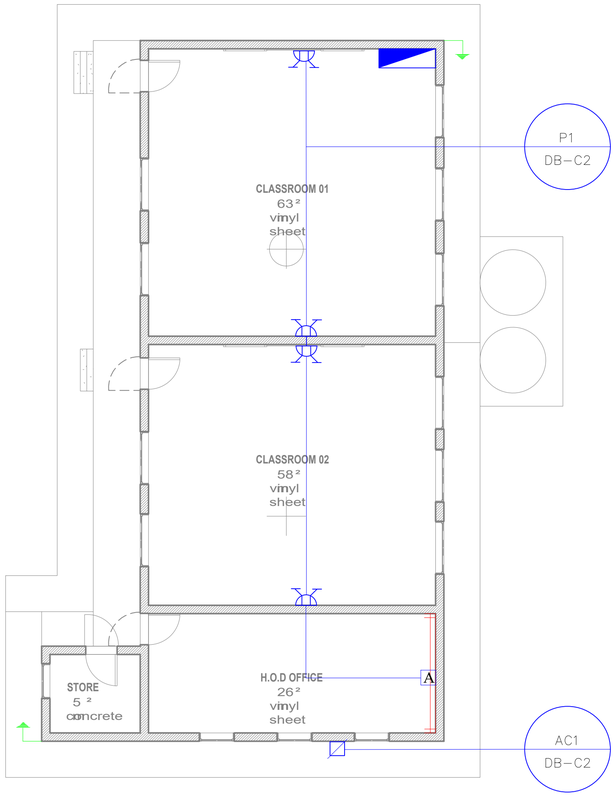

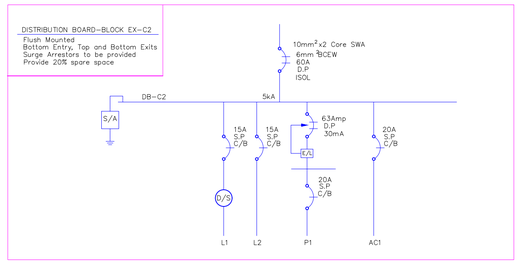

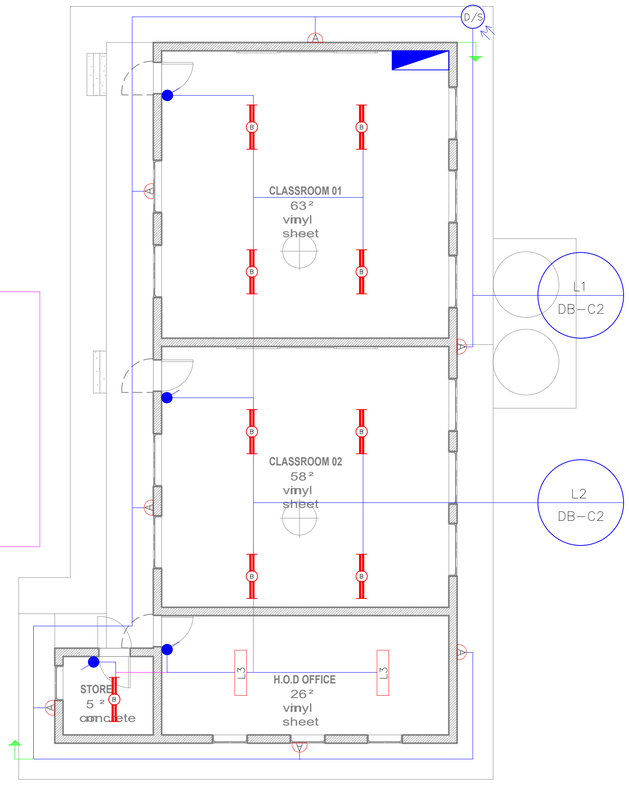

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
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PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-C2
LIGHTS AND PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/04

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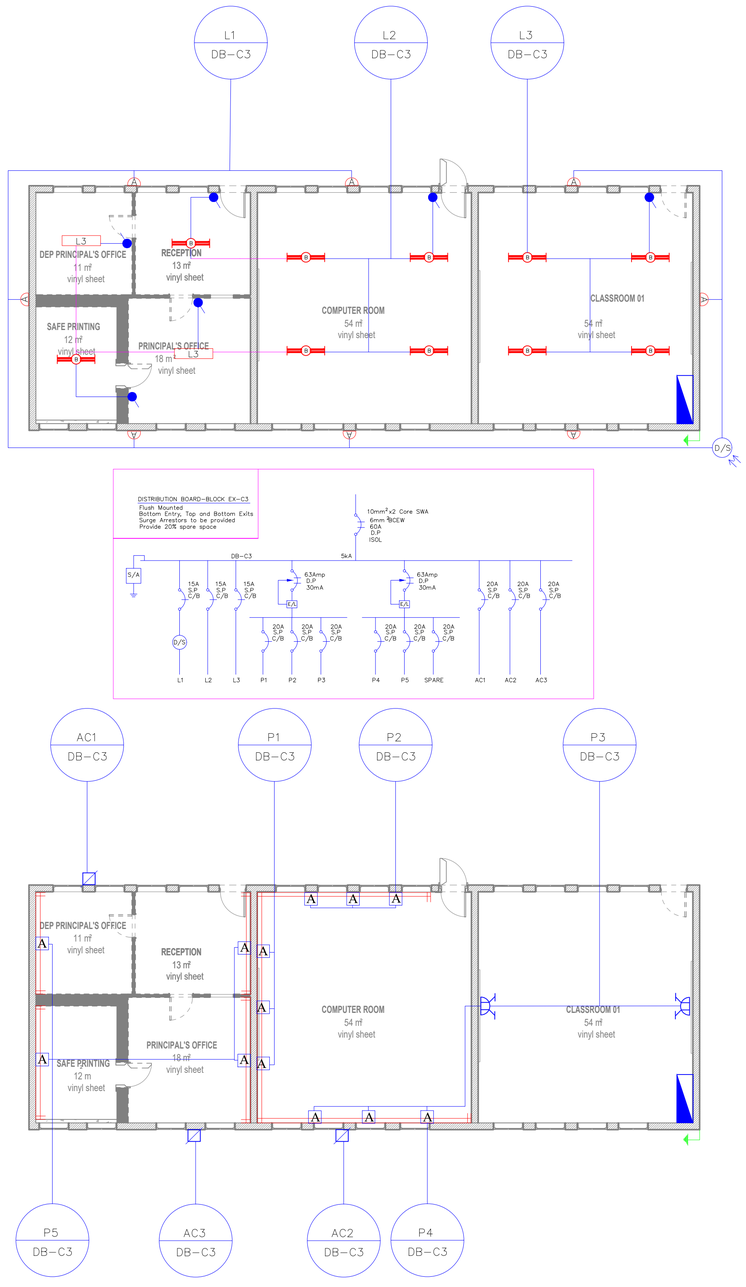

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
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	LIGHTNING PROTECTION
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	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
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CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL BLOCK EX-C3 LIGHTS ISOLATOR LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/05

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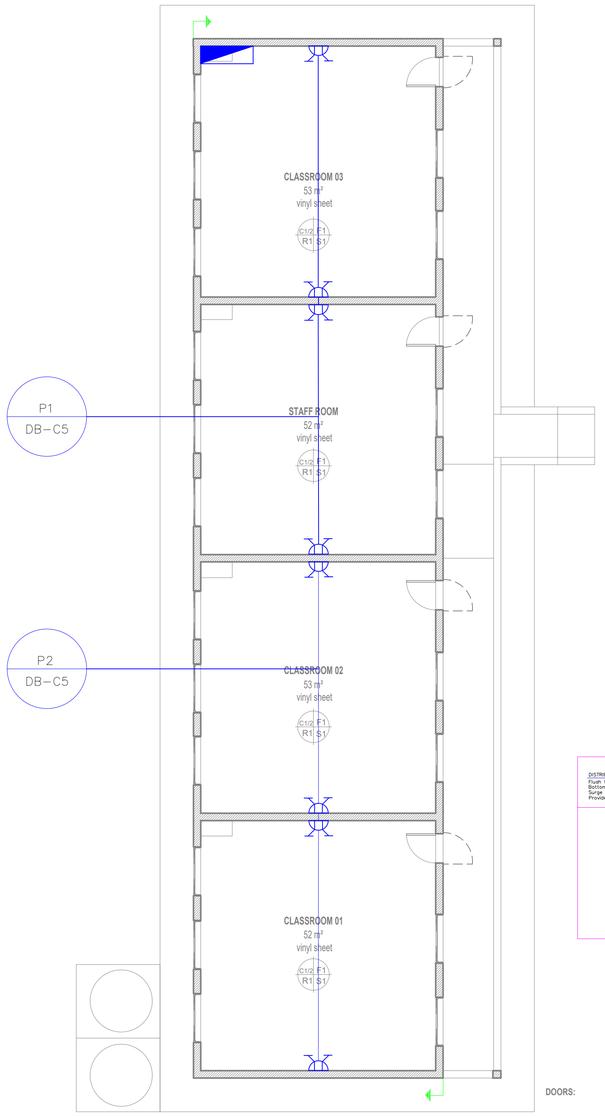

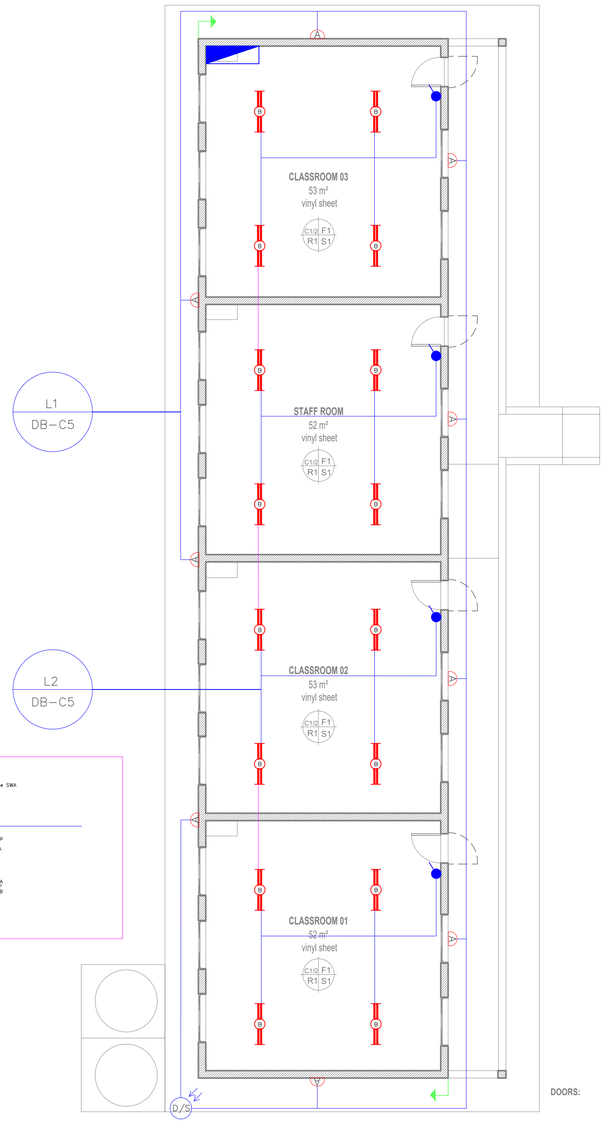

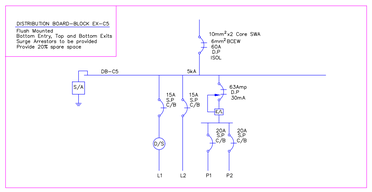

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

CLIENT
LIMPOPO PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA
Department of Public Works, Roads and Infrastructure

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39 GROBLER STREET
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website: www.muteo.co.za

PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	25/07/2019	E.KHUMALO	
CHECKED	25/07/2019	V.FUNGHENI	
DRAWN	25/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE
DO NOT SCALE IF IN DOUBT ASK.

TITLE
REBONE SECONDARY SCHOOL
BLOCK EX-C5
LIGHTS AND PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/06

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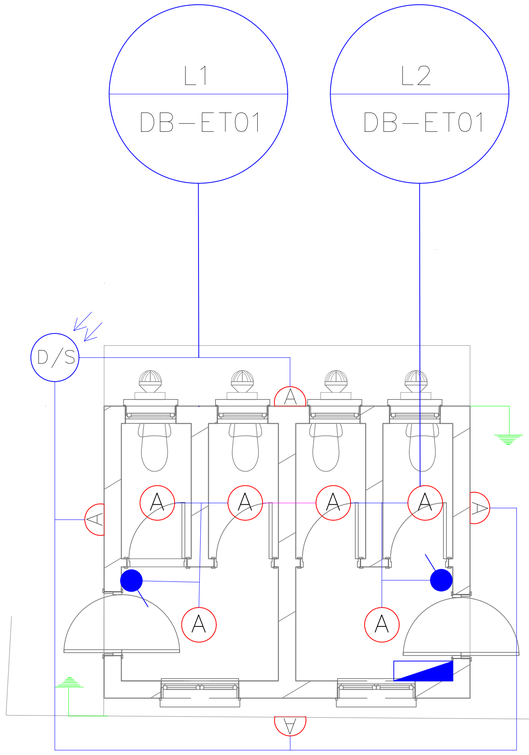
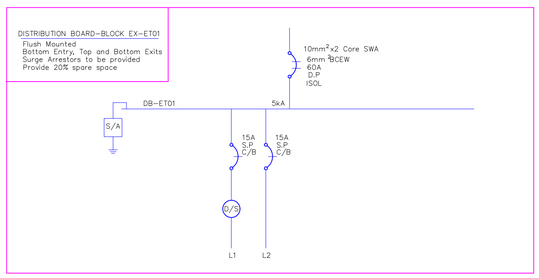
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



BLOCK EX-ET01



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-ET01
LIGHTS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/07

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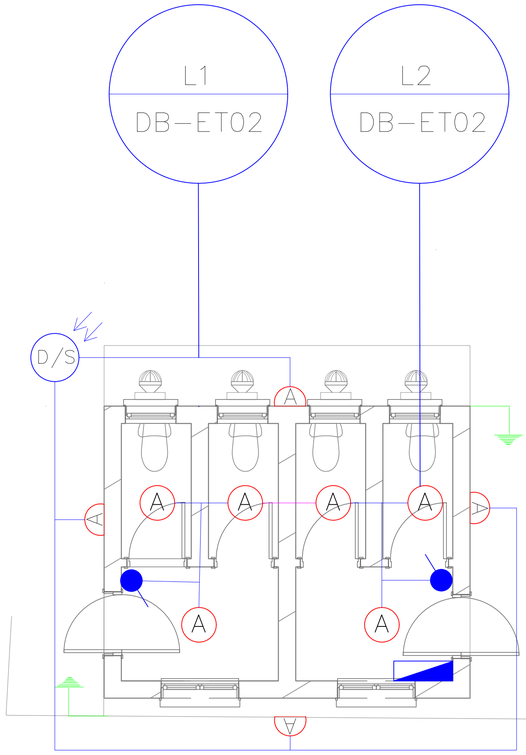
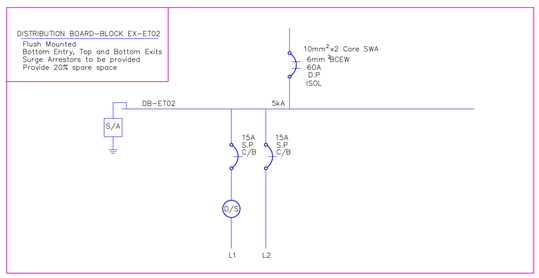


BLOCK EX-ET02



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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CHECKED	29/07/2019	V.FUNGHENI	
DRAWN	29/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-ET02
LIGHTS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/08

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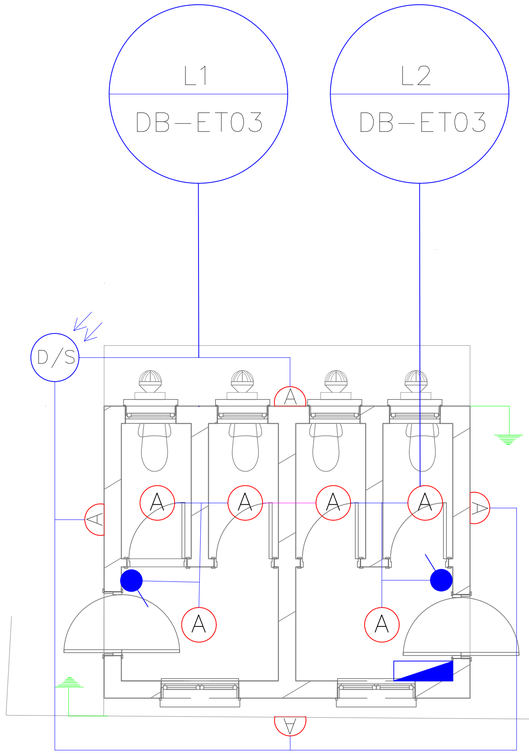
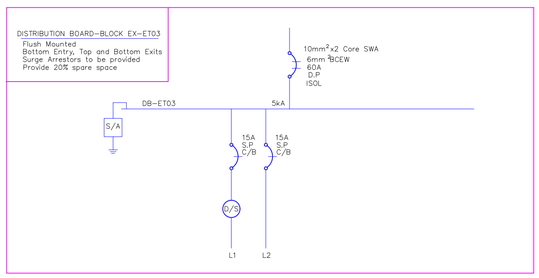


BLOCK EX-ET03



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	29/07/2019	E.KHUMALO	
CHECKED	29/07/2019	V.FUNGHENI	
DRAWN	29/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-ET03
LIGHTS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/09

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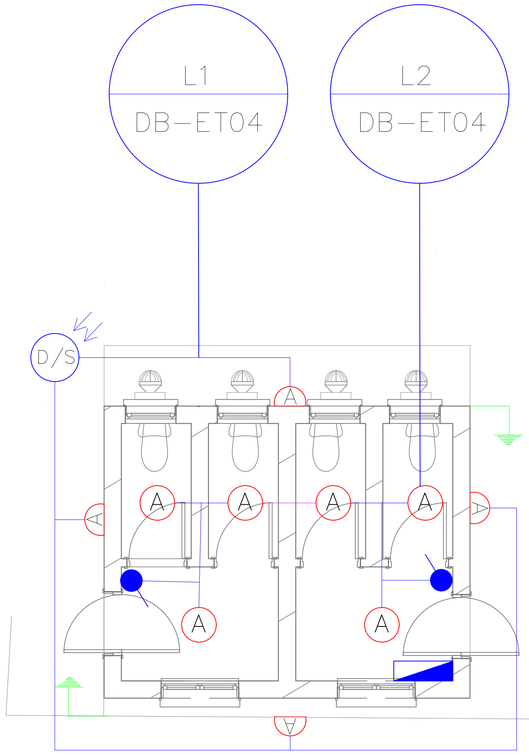
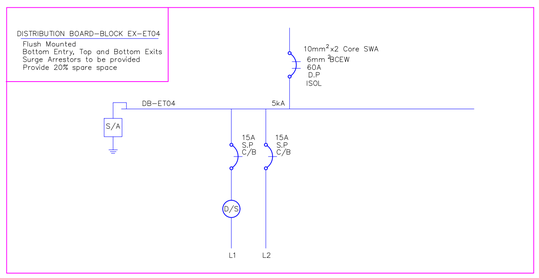


BLOCK EX-ET04



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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DESIGNED	29/07/2019	E.KHUMALO	
CHECKED	29/07/2019	V.FUNGHENI	
DRAWN	29/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
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SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-ET04
LIGHTS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/10

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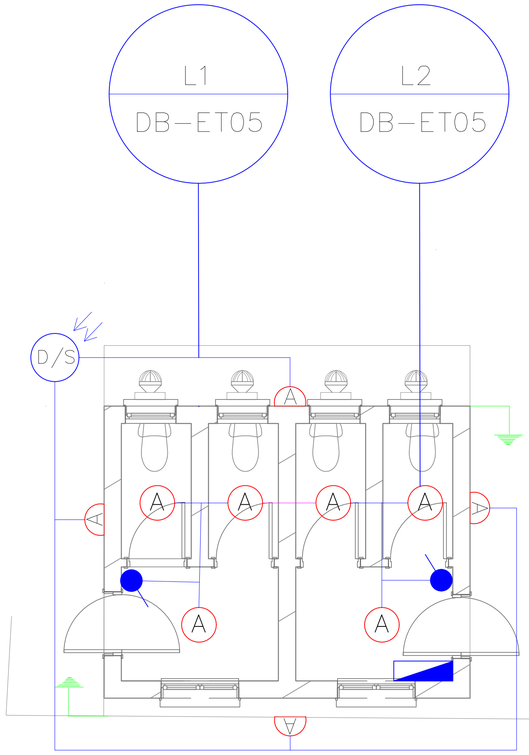
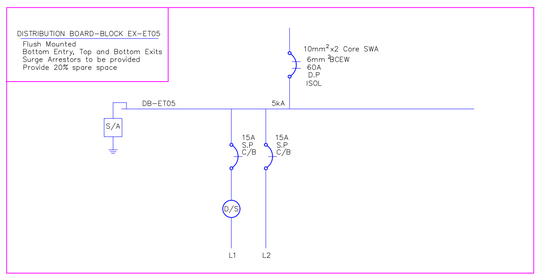


BLOCK EX-ET05



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
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REV	DATE	CHK	APP	DESCRIPTION
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CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK EX-ET05
LIGHTS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/11

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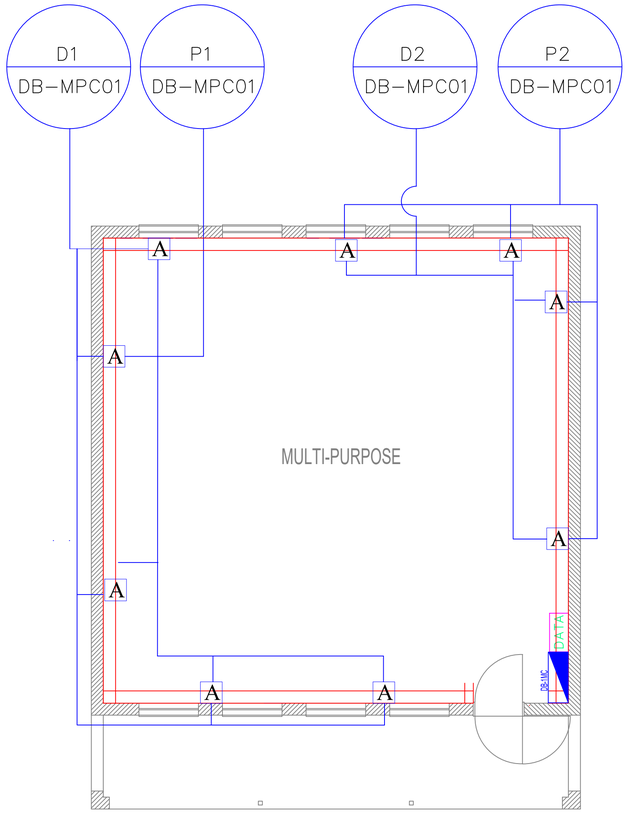

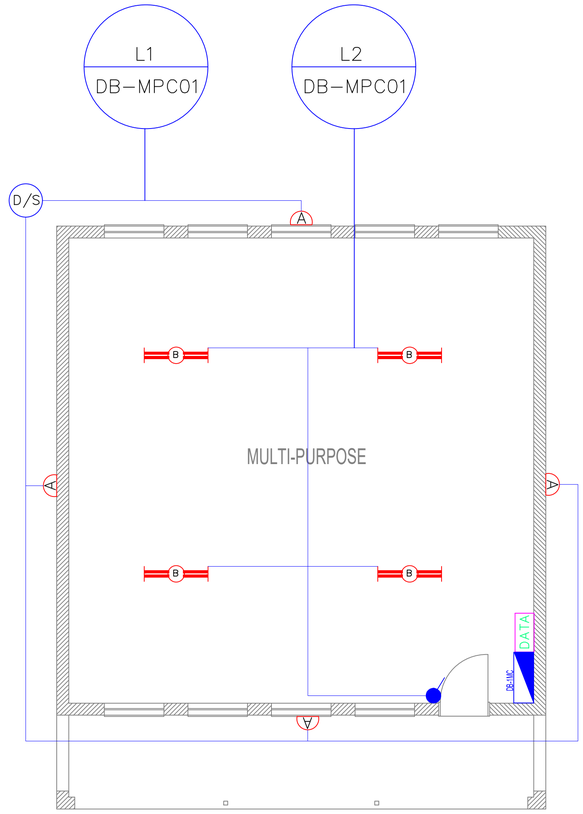

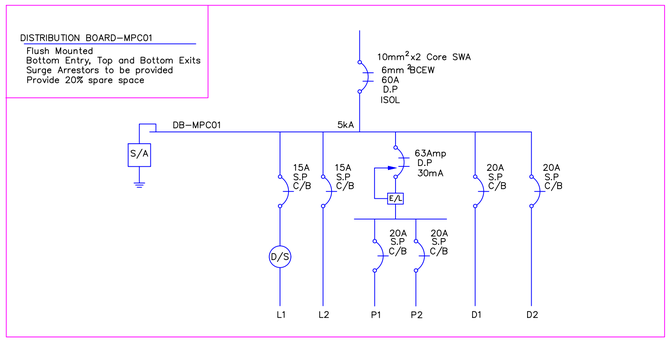

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
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	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

CLIENT: LIMPOPO PROVINCIAL GOVERNMENT, REPUBLIC OF SOUTH AFRICA, Department of Public Works, Roads and Infrastructure

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PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	25/07/2019	E.KHUMALO	
CHECKED	25/07/2019	V.FUNGHENI	
DRAWN	25/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK MPC - 01
LIGHTS AND PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/02

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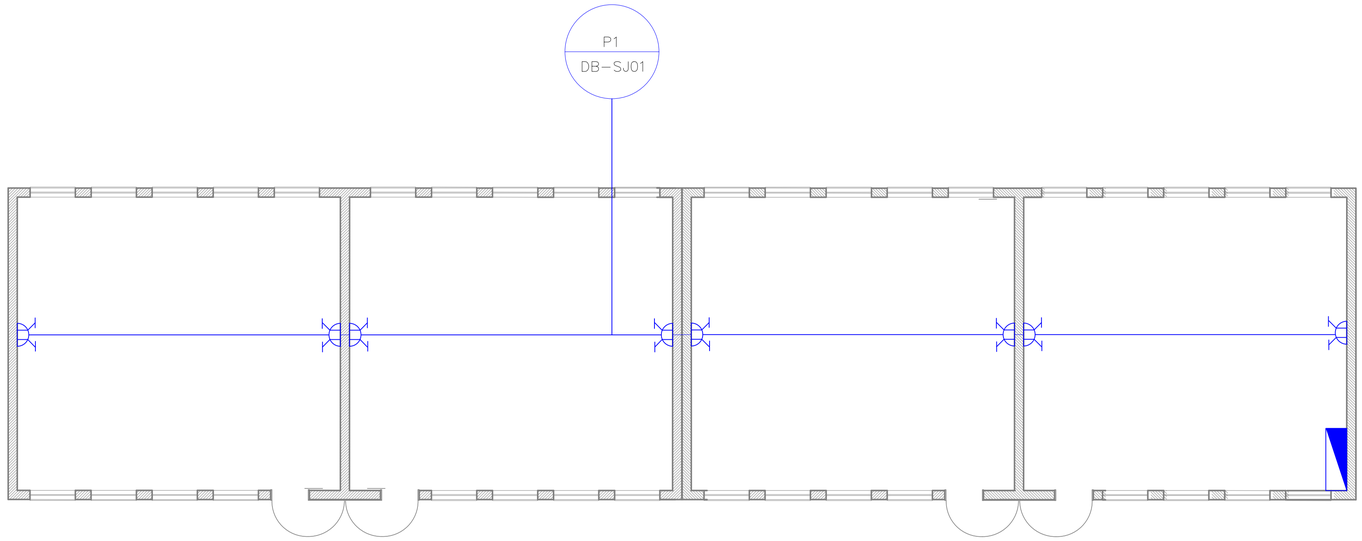
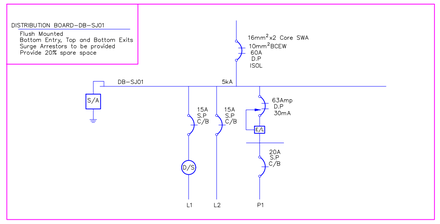
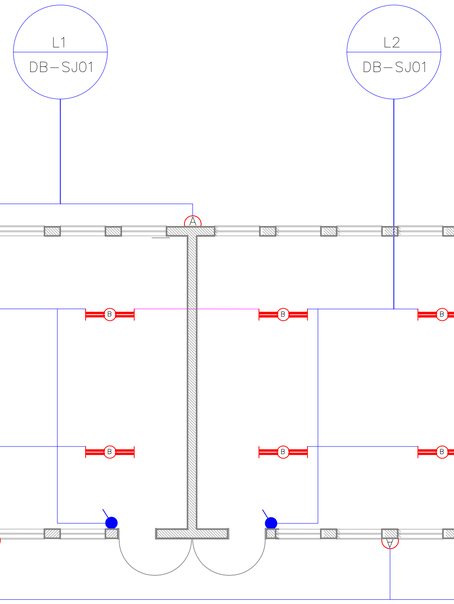
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.







POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK SJ - 01
LIGHTS AND PLUGS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/12

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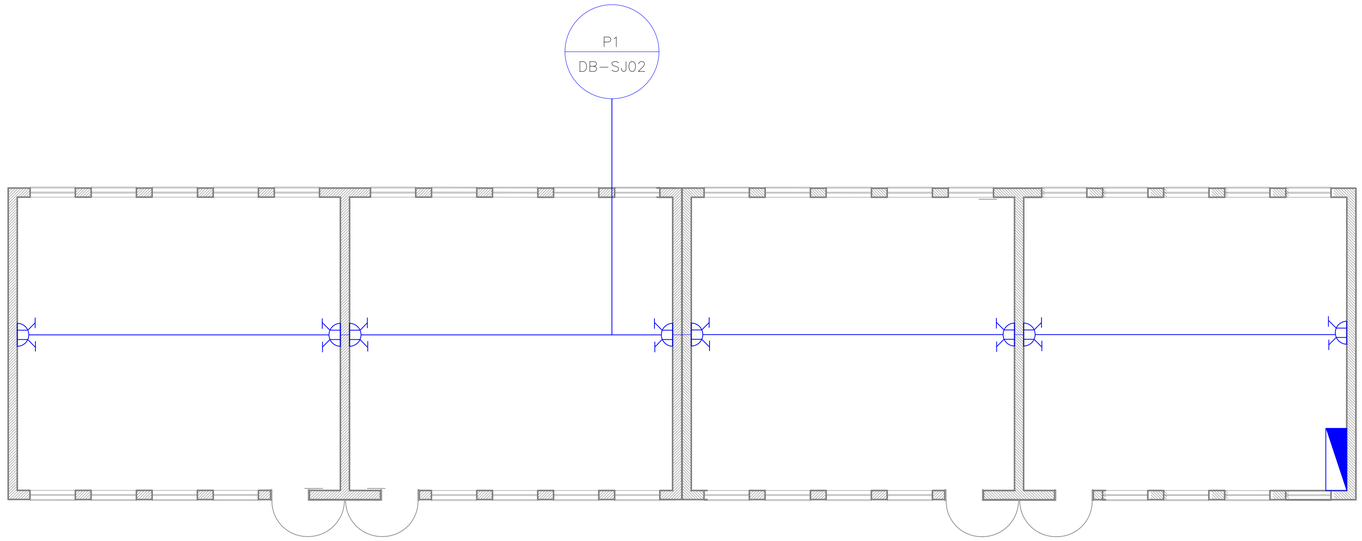

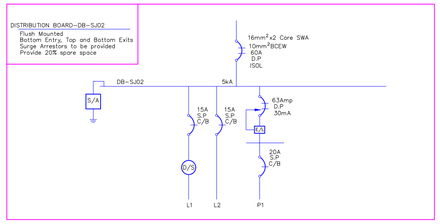

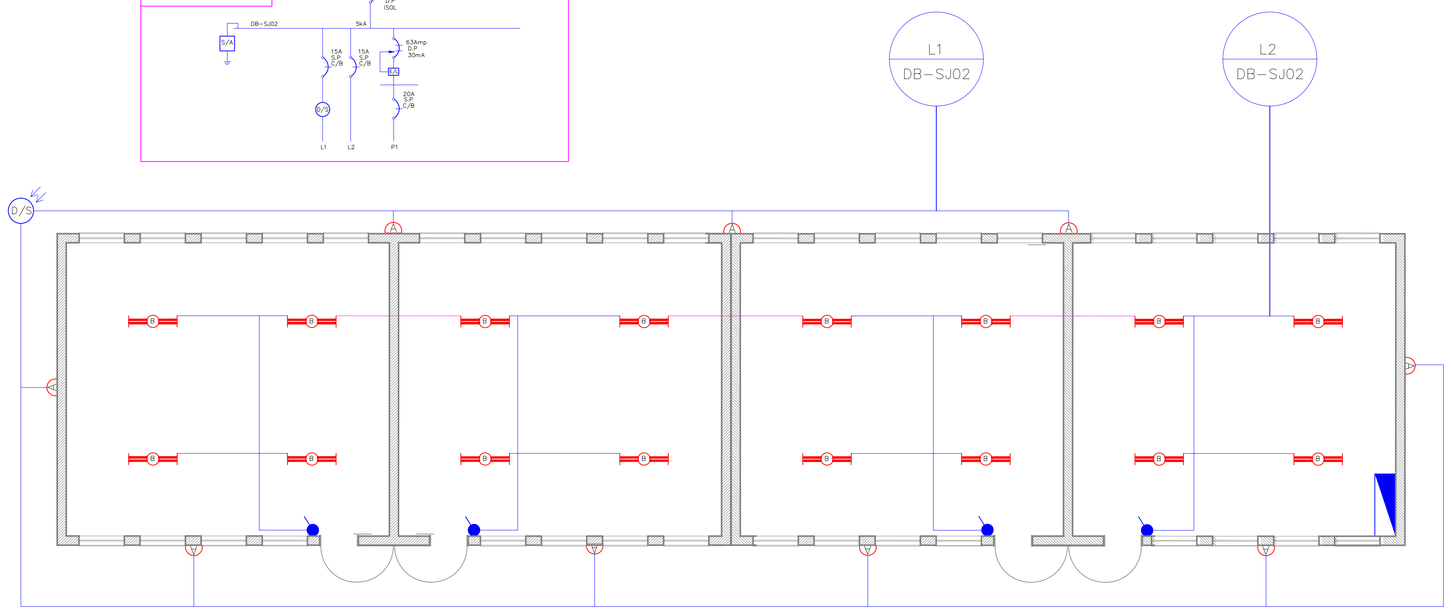

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
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-	-	-	-	-

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DRAWN	25/07/2019	E.KHUMALO	
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APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK SJ - 02
LIGHTS AND PLUGS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/13

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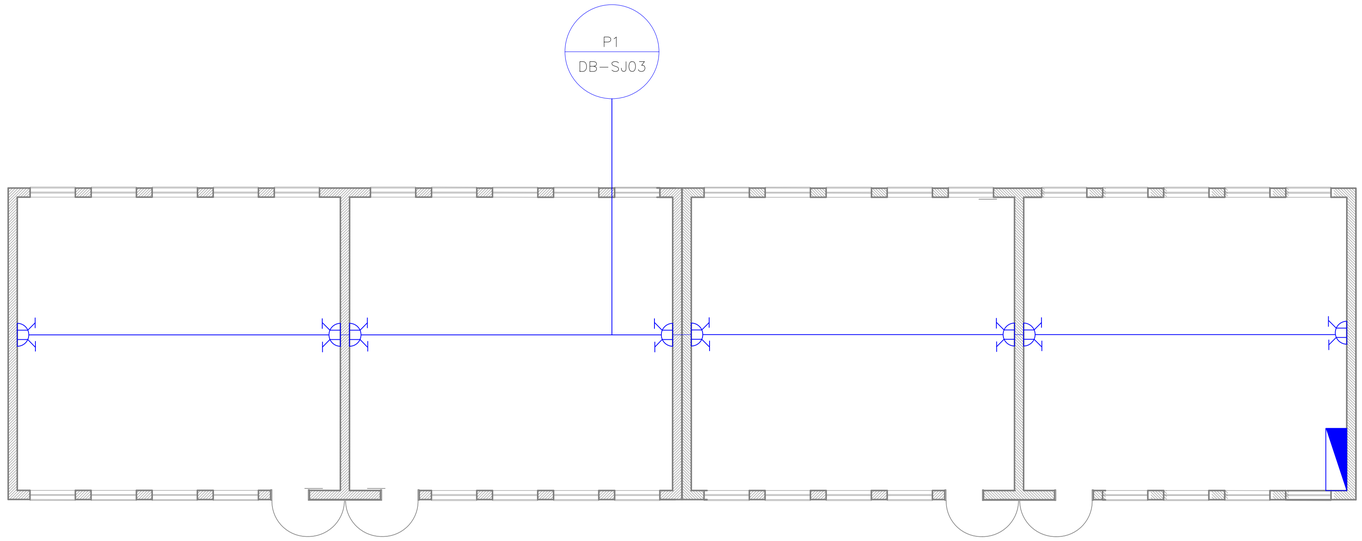

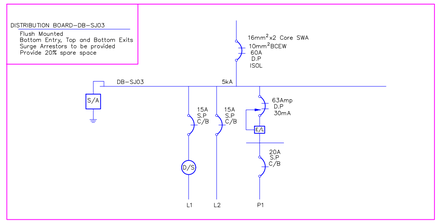

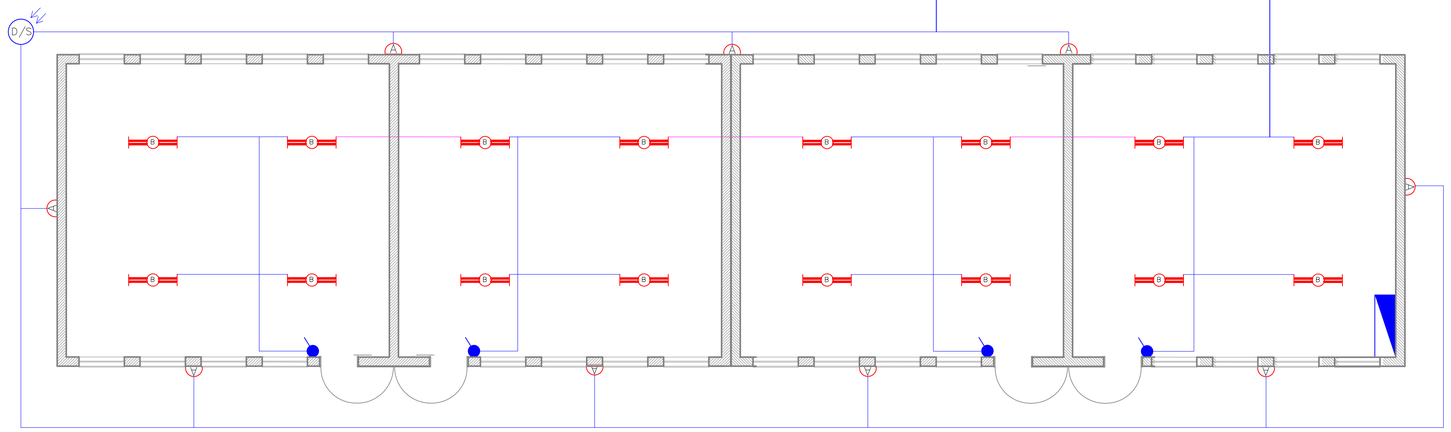

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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CHECKED	25/07/2019	V.FUNGHENI	
DRAWN	25/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK SJ - 03
LIGHTS AND PLUGS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/14

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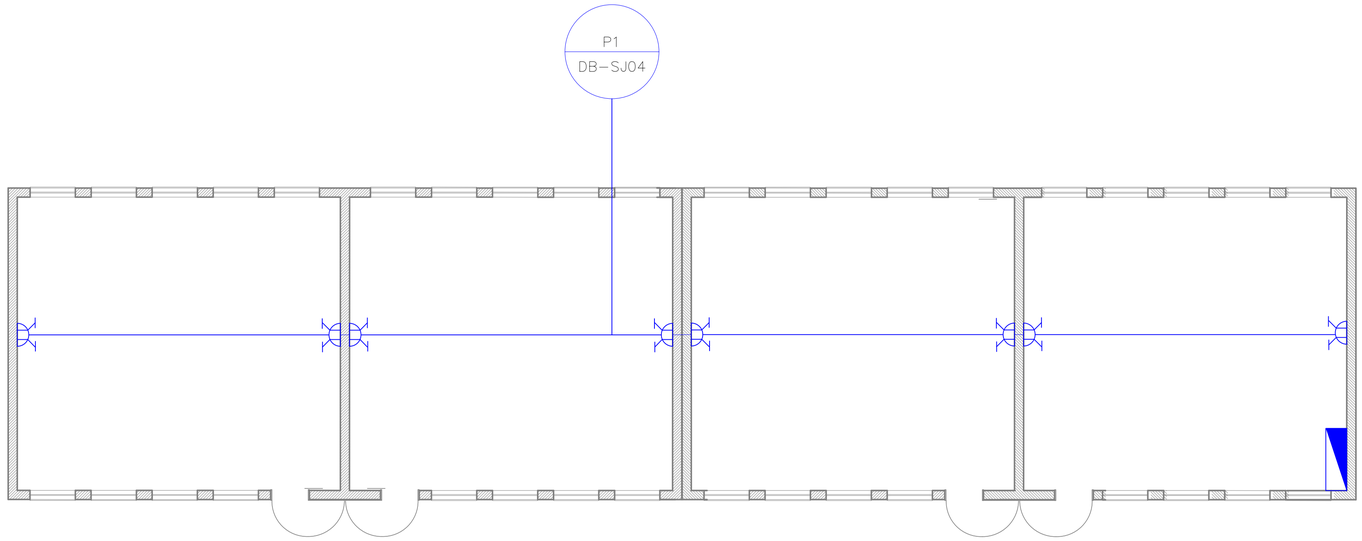

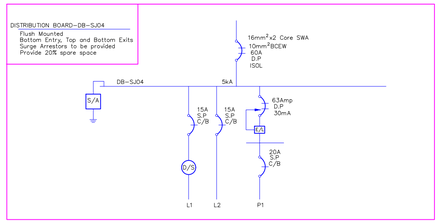

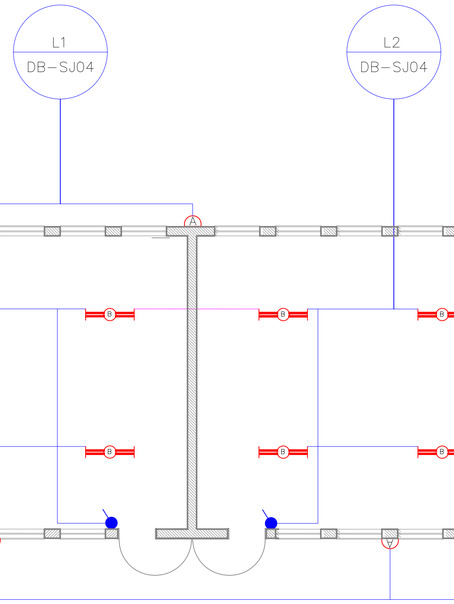

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
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APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK SJ - 04
LIGHTS AND PLUGS LAYOUT

PROJECT No.

DRG SIZE A1

DRAWING No. MC/LDPWRI/EE/15

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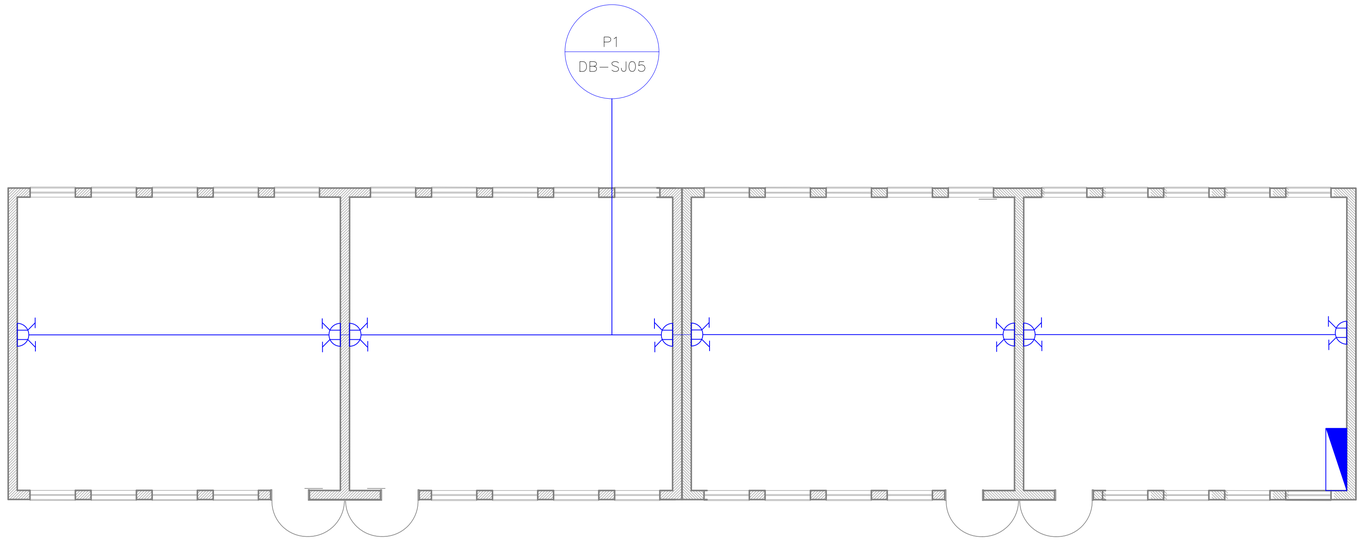

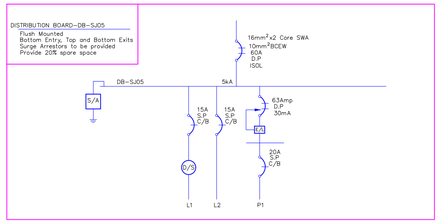

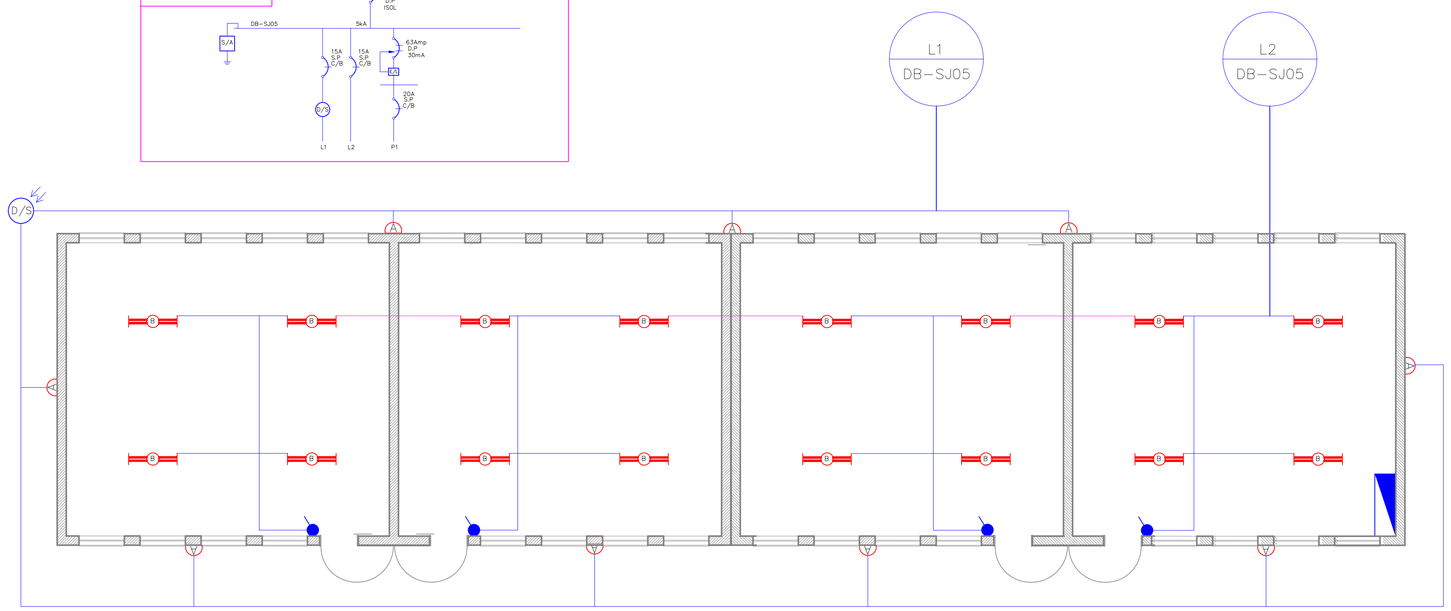

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
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	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
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	LIGHTNING PROTECTION
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TEL	TELEPHONE DB
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SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK SJ - 05
LIGHTS AND PLUGS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/16

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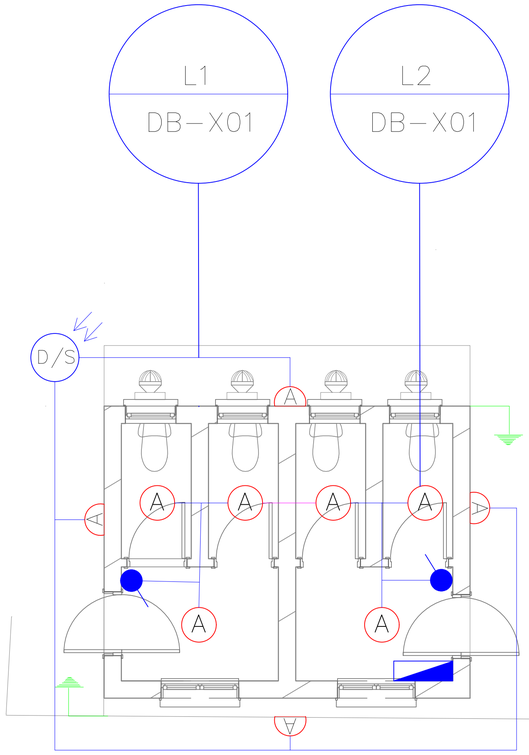
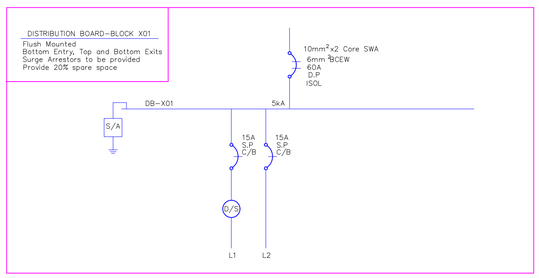


BLOCK X01



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
A	2x23W 1.2m T5 FLUORESCENT FITTING
B	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES

REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

CLIENT: LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA, Department of Public Works, Roads and Infrastructure

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PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	29/07/2019	E.KHUMALO	
CHECKED	29/07/2019	V.FUNGHENI	
DRAWN	29/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK X-01
LIGHTS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/17

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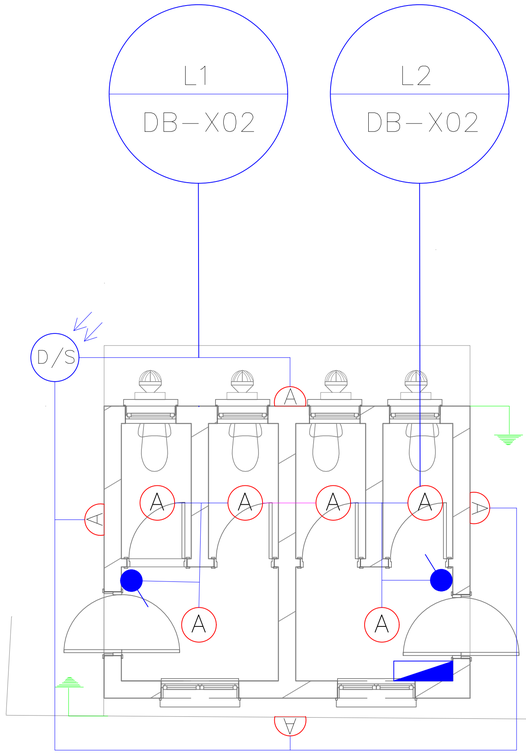
3. ALL EQUIPMENTS AND INSTALLATIONS TO COMPLY WITH SANS 10142.
4. INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS62305-1.
5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



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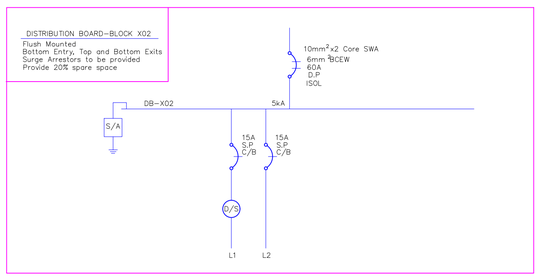

POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
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	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
2W	1 LEVER 2 WAY SWITCH
D/S	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
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	LOW VOLTAGE CABLE SWA
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REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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CHECKED	29/07/2019	V.FUNGHENI	
DRAWN	29/07/2019	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK X-02
LIGHTS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/18

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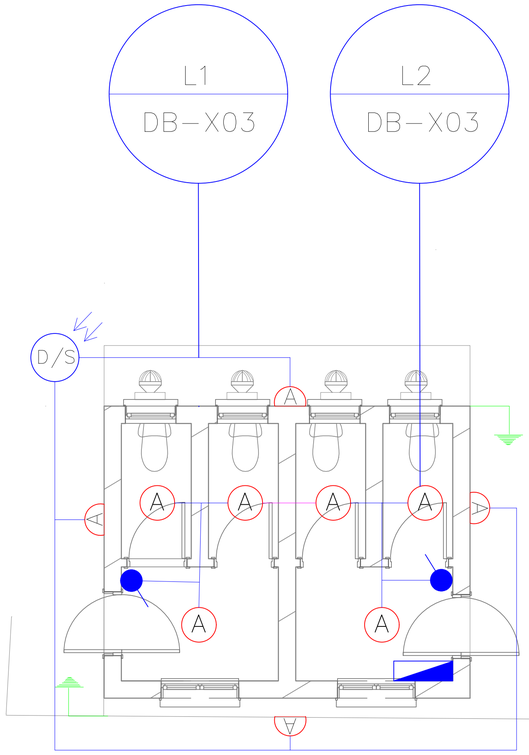

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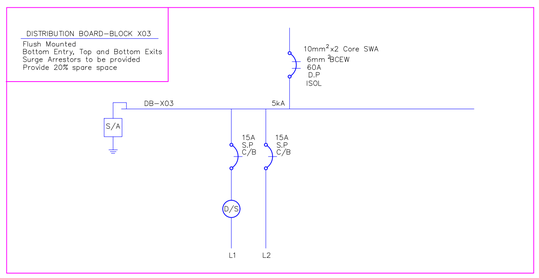

POWER LEGEND

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A	2x18W ROUND CEILING MOUNT BULKHEAD
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DATA	DATA DB
	DISTRIBUTION BOARD NORMAL
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REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK X-03
LIGHTS LAYOUT

PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/19

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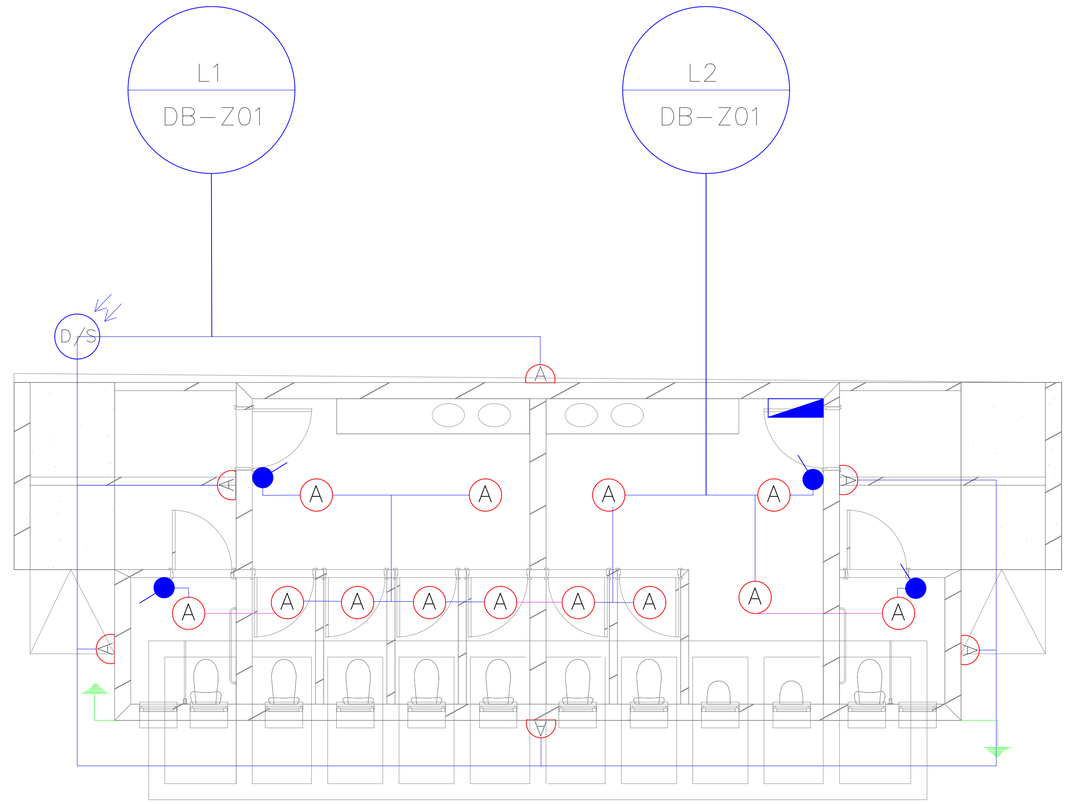

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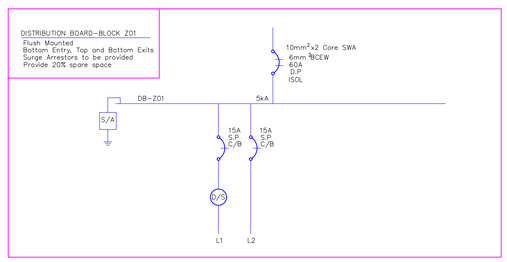

POWER LEGEND

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REV	DATE	CHK	APP	DESCRIPTION
-	-	-	-	-
-	-	-	-	-

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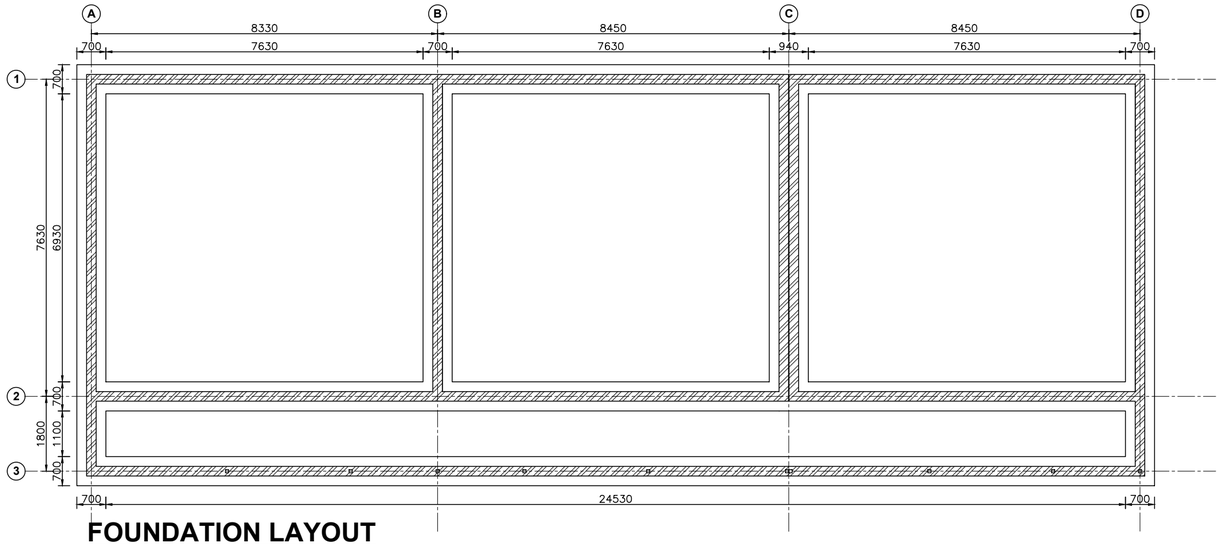
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE: DO NOT SCALE IF IN DOUBT ASK.

TITLE: REBONE SECONDARY SCHOOL
BLOCK Z-01
LIGHTS LAYOUT

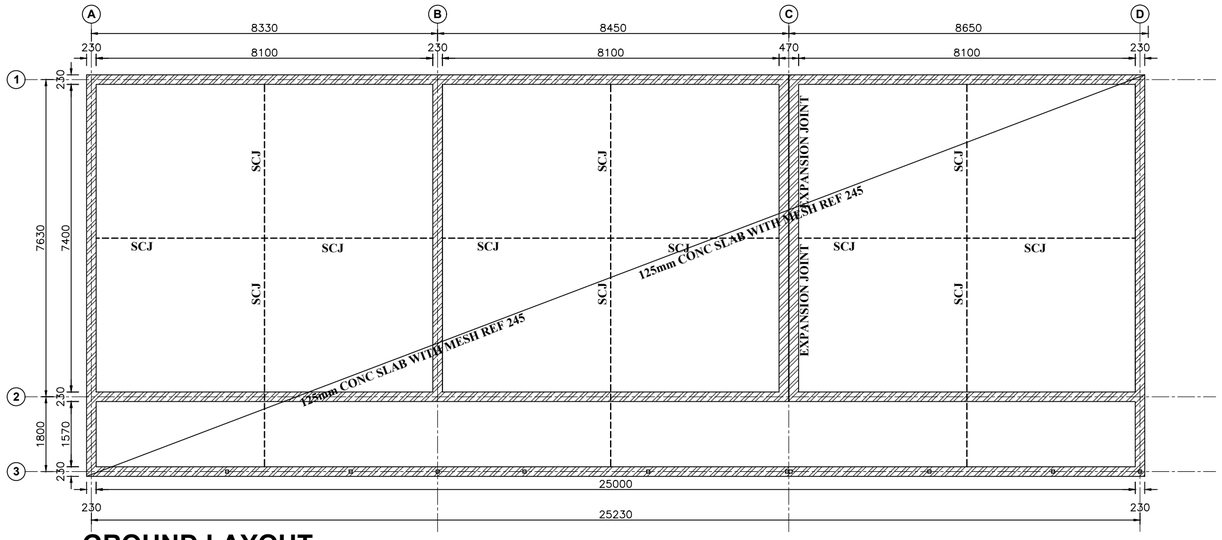
PROJECT No. | DRG SIZE A1 | DRAWING No. MC/LDPWRI/EE/20

STRUCTURAL DRAWINGS



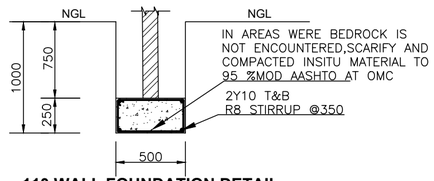
FOUNDATION LAYOUT

Scale 1:100



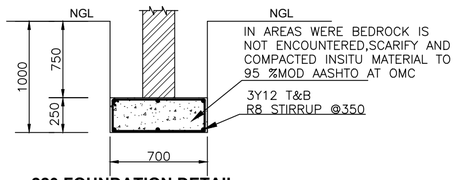
GROUND LAYOUT

Scale 1:100



110 WALL FOUNDATION DETAIL

Scale 1:20



220 FOUNDATION DETAIL

Scale 1:20

GENERAL NOTES.

1. THE ENGINEERING DRAWINGS MUST BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER.
2. ALL LEVELS AND DIMENSIONS TO BE VERIFIED ON SITE PRIOR COMMENCEMENT OF ANY WORK, AND THE ENGINEER TO BE NOTIFIED IN CASE OF DISCREPANCIES.
3. ALL CIVIL WORK TO BE DONE ACCORDING TO SABS 1200 STANDARDS.
4. ANY APPROVAL, CHECK, CERTIFICATE, CONSENT, EXAMINATION, REQUEST, TEST OF SIMILAR ACT BY THE ENGINEER (INCLUDING ABSENCE OF DISAPPROVAL) SHALL NOT RELIEVE THE CONTRACTOR FROM ANY RESPONSIBILITY HE HAS UNDER THE CONTRACT, INCLUDING RESPONSIBILITY FOR ERRORS, OMISSIONS, DISCREPANCIES AND NON-COMPLIANCY.
5. **CONCRETE:**
   - 5.1 ALL REINFORCED CONCRETE DESIGNED ACCORDING TO SABS 0100: PART 1-1980
   - 5.2 ALL CONCRETE WORK TO BE DONE ACCORDING TO SABS 0100: PART 2-1980
   - 5.3 CONCRETE STRENGTH @ 28 DAYS:
     - -STRIP FOUNDATION :-30mPA
     - -SURFACE BED :-25MPa
     - -SLABS AND BEAMS :-30mPA
     - -COLUMNS & BASES :-30mPA
   - 5.4 ALL REINFORCED CONCRETE WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST ISSUES OF SABS-0100 AND SABS-1200G WITH DEGREE OF ACCURACY II, WITH SPECIAL ATTENTION TO THE FOLLOWING:

I) A CONCRETE MIX DESIGN FOR EACH CLASS SHALL BE SUBMITTED TO THE ENGINEER BEFORE ANY CONCRETE IS CAST

II) CONCRETE TEST CUBES SHALL BE MADE IN SETS OF FOUR, WITH ONE CUBE TESTED AT THE AGE OF 7 DAYS FOR EARLY STRENGTH INDUCTION. THE OTHER THREE CUBES TESTED AT THE AGE OF 28 DAYS. ALL TEST RESULTS SHALL BE MADE AVAILABLE TO THE ENGINEER AS SOON AS THEY BECOME AVAILABLE.

- 5.5 PRIOR TO CONSTRUCTION OF EACH PHASE OF CONCRETE, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE AND OBSERVE THE ENGINEER TO OBSERVE THE ALIGNMENT AND LEVEL OF ALL FORMWORK, REINFORCING STEEL AND WORKS TO BE CAST IN.

6. **REINFORCEMENT:**
   - 6.1 ALL HIGH TENSILE STEEL TO BE TYPE C, CLASS 2, GRADE 1 ACCORDING TO SABS 920. WITH A CHARACTERISTIC STRENGTH OF 450 MPA.
   - 6.2 ALL REINFORCEMENT STEEL SHALL BE WIRE-BRUSHED AND KEPT CLEAN AND FREE OF ANY MILL-SCALE, RUST, OIL OR ANY OTHER DELETERIOUS COMPOUNDS.
   - 6.3 WELDING OF REINFORCEMENT STEEL WILL NOT BE PERMITTED OTHER THAN SPECIFIED MESH.
   - 6.4 LEGEND FOR POSITIONS OF REINFORCEMENT:
     - -T1 HIGHEST OF THE TOP LAYERS
     - -T2 SECOND HIGHEST OF THE TOP LAYERS
     - -B1 LOWEST OF THE BOTTOM LAYERS
     - -B2 SECOND LOWEST OF THE BOTTOM LAYER.
7. **FINISHES:**
   - 7.1 ALL VISIBLE CORNERS ON FLOORS, RINGBEAMS, ETC. TO BE CHAMFERED 20X20MM UNLESS OTHERWISE SPECIFIED.
   - 7.2 ALL VISIBLE CONCRETE SURFACES TO BE EXTRA SMOOTH AND SHUTTER JOINTS RUBBED WITH CARBORUNDUM BLOCKS.
8. **CONCRETE CURING:**
   - 8.1 ALL CONCRETE TO BE CURED BY KEEPING MOIST FOR AT LEAST 14 DAYS AFTER CASTING.
9. **FOUNDATION:**
   - 9.1 DEPTHS OF ALL BASES AND STRIP FOOTINGS SHALL BE DETERMINED AND OBSERVED ON SITE BY ENGINEER PRIOR CONCRETING.
   - 9.2 ALL COLUMN BASES SHALL BE CAST ON A BLINDING LAYER OF AT LEAST 50MM AND NOT MORE THAN 100MM THICK.
   - 9.3 TOP LEVEL OF BLINDING TO BE MADE AVAILABLE TO THE ENGINEER IN ORDER TO AMEND REINFORCEMENT TO ACTUAL LEVELS IF NECESSARY.
10. **STRUCTURAL STEELWORK:**
    - 10.1 ALL STRUCTURAL STEEL WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200 (1983)
    - 10.2 ALL DETAILING AND CONNECTIONS TO COMPLY WITH THE REQUIREMENTS OF SABS 0162 (1984 AS AMENDED 1986 & 1987)
    - 10.3 ALL STRUCTURAL STEEL TO BE 350W ACCORDING TO SABS 1431.
    - 10.4 ALL BOLTS, THREADED BAR AND HD BOLTS TO BE M16 GRADE 8.8 ACCORDING TO SABS 135.
    - 10.5 COMPLETE WORKSHOP DRAWINGS OF ALL STEEL ELEMENTS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE MANUFACTURING COMMENCES.
11. **CORROSION PROTECTION(STRUCTURAL STEEL)**
    - 11.1 ALL SURFACES TO BE PAINTED MUST BE FREE OF MILL SCHALE, CORROSION, GREASE, DUST ETC.
    - 11.2 ALL STRUCTURAL STEELWORK TO BE CLEANED TO SA2.5 ACCORDING TO SIS 055900.ALL CLEANED SURFACES OF STRUCTURAL STEEL TO BE COATED WITH TWO LAYERS OF RED OXIDE ACCORDING TO SABS 312.
12. **ASSEMBLY AND ALIGNMENT(STRUCTURAL STEEL)**
    - 12.1 ALL STRUCTURAL MEMBERS MUST BE TEMPORARILY BRACED OR PROPPED DURING ERECTION, SUFFICIENT TO ENSURE TO ENSURE THE STABILITY OF THE STRUCTURE AT ALL TIME.
    - 12.2 ALL STRUCTURAL MEMBERS MUST BE ALIGNED INTO FINAL POSITION BEFORE ANY BOLTS ARE TIGHTENED. NO STRUCTURAL ELEMENTS MUST BE HEATED, BEND OR DISTORTED TO ACCOMPLISH ASSEMBLY OR ALIGNMENT.
    - 12.3 ALL STEEL STRUCTURES MUST BE APPROVED IN WRITING BY ENGINEER BEFORE ANY CLADDING IS FIXED.

No	DATE	REVISION	CONSULT	DIR

DESIGNED BY	GJN
CHECKED BY	TM
DRAWN BY	GJN
CHECKED BY	TM
APPROVED & ADOPTED BY	GJN

DEPARTMENT OF PUBLIC WORKS

The Head of department
Limpopo Provincial Government
Department of Public Works
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E-mail: lowflowsa@gmail.com

Low Flow Construction and Engineering PTY Ltd.

CHIEF ENGINEER-LPG-DPWRI DATE

CONSULTING ENGINEER DATE

CONTRACT NO.:LDPWRI-PROF/16003D

REBONE SECONDARY SCHOOL

3 CLASSROOM BLOCK STRUCTURAL DETAIL

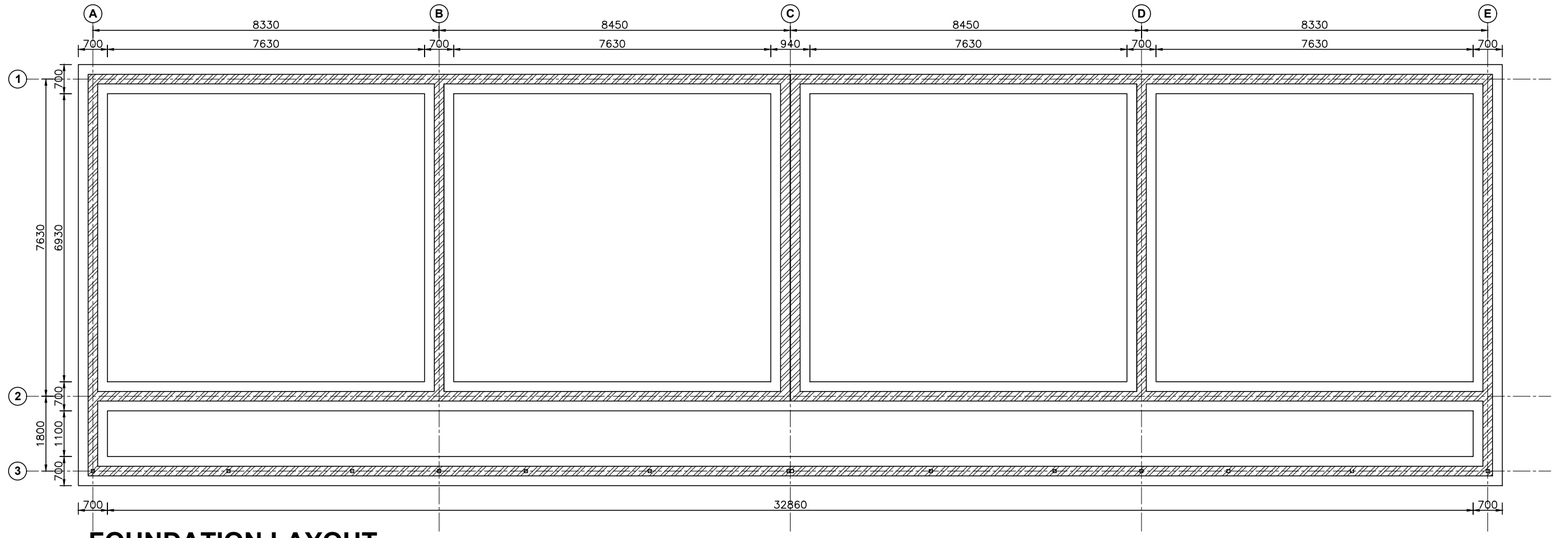
ISSUED FOR TENDER (Full Signature)
2021/ /
For: Department of Public Works
2021/ /
For: Consultant

SHEET 1 OF 1

SCALE: AS SHOWN

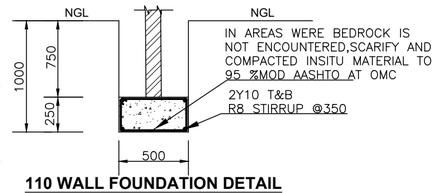
CONSULTANT DRAWING NUMBER: STR-002-BOS-201/1

DRAWING NUMBER: STR-005-BOS-201/1



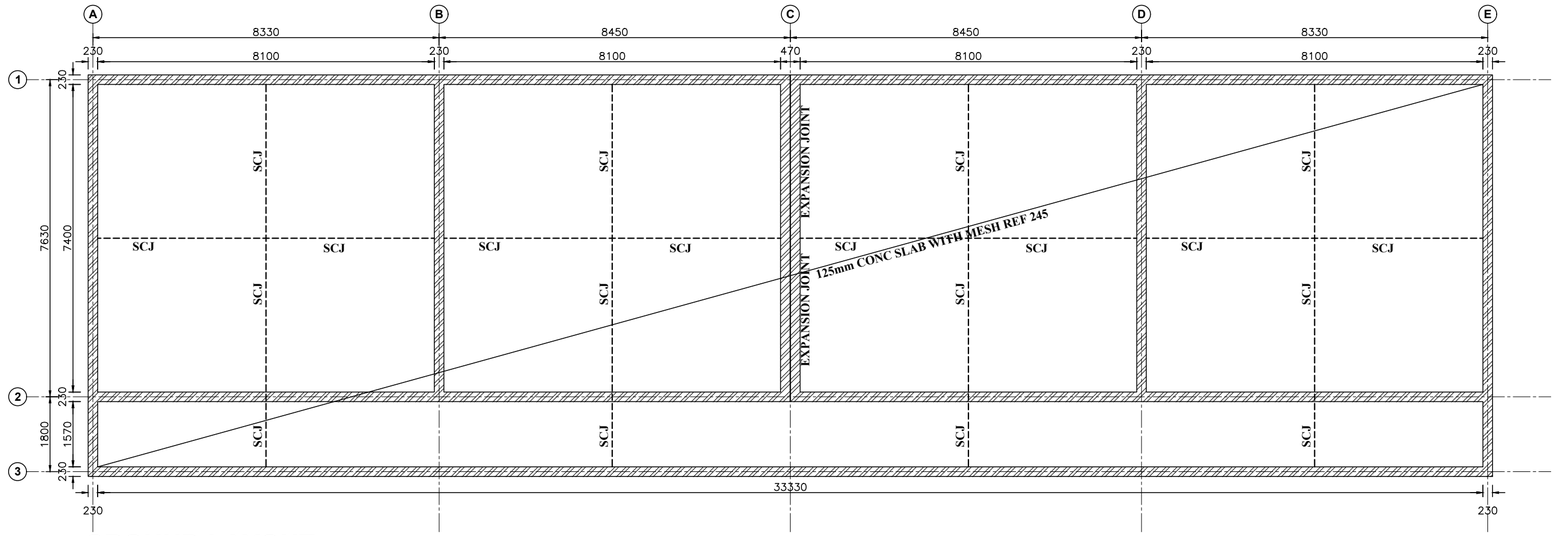
FOUNDATION LAYOUT

Scale 1:100



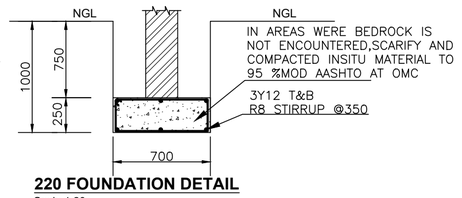
110 WALL FOUNDATION DETAIL

Scale 1:20



GROUND LAYOUT

Scale 1:100



220 FOUNDATION DETAIL

Scale 1:20

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   - 5.1 ALL REINFORCED CONCRETE DESIGNED ACCORDING TO SABS 0100: PART 1-1980
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   - 5.3 CONCRETE STRENGTH @ 28 DAYS:
     -STRIP FOUNDATION :-30mPA
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     -SLABS AND BEAMS :-30mPA
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6. **REINFORCEMENT:**
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   - 6.3 WELDING OF REINFORCEMENT STEEL WILL NOT BE PERMITTED OTHER THAN SPECIFIED MESH.
   - 6.4 LEGEND FOR POSITIONS OF REINFORCEMENT:
     -T1 HIGHEST OF THE TOP LAYERS
     -T2 SECOND HIGHEST OF THE TOP LAYERS
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   - 7.1 ALL VISIBLE CORNERS ON FLOORS, RINGBEAMS, ETC. TO BE CHAMFERED 20X20MM UNLESS OTHERWISE SPECIFIED.
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   - 9.1 DEPTHS OF ALL BASES AND STRIP FOOTINGS SHALL BE DETERMINED AND OBSERVED ON SITE BY ENGINEER PRIOR CONCRETING.
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No	DATE	REVISION	CONSULT	DIR

DESIGNED BY	GJN
CHECKED BY	TM
DRAWN BY	GJN
CHECKED BY	TM
APPROVED & ADOPTED BY	GJN

DEPARTMENT OF PUBLIC WORKS

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E-mail: lowflowsa@gmail.com

CHIEF ENGINEER-LPG-DPWR&I DATE

CONSULTING ENGINEER DATE

CONTRACT NO.:LDPWRI-PROF/16003D

REBONE SECONDARY SCHOOL

4 CLASSROOM BLOCK (1) STRUCTURAL DETAIL

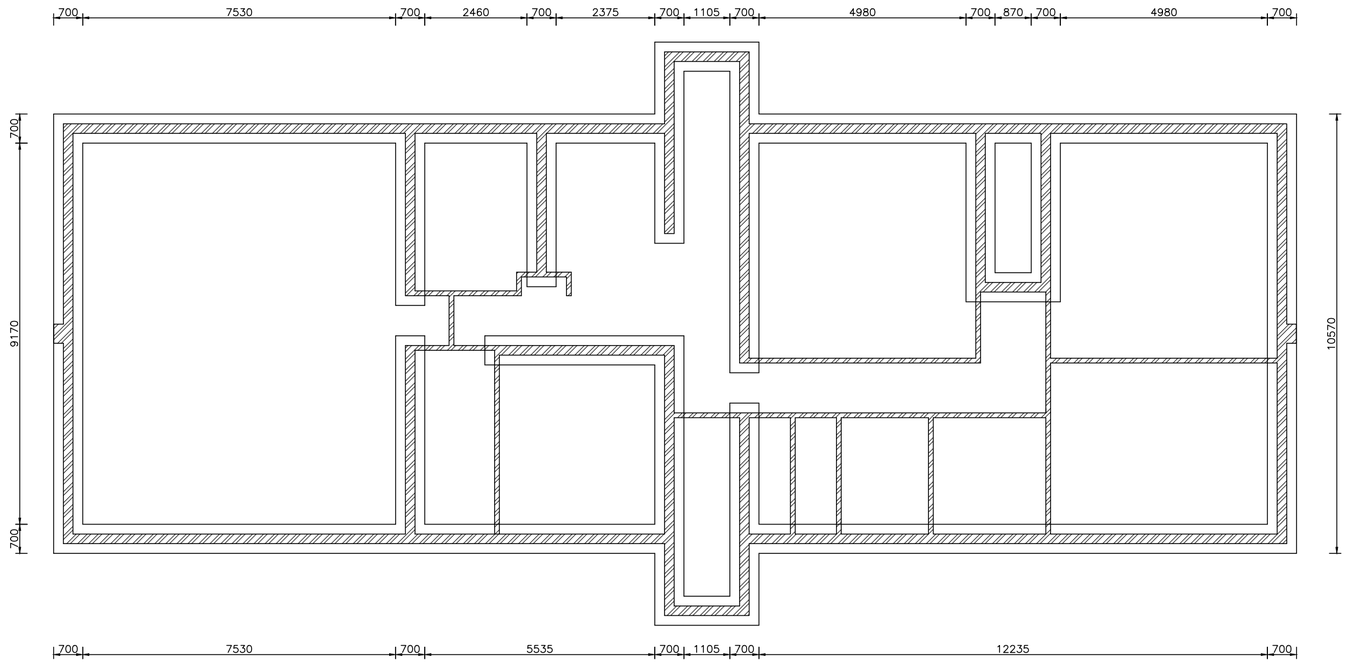
ISSUED FOR TENDER (Full Signature)
2021/ /
For: Department of Public Works
2021/ /
For: Consultant

SHEET 1 OF 1

SCALE: AS SHOWN

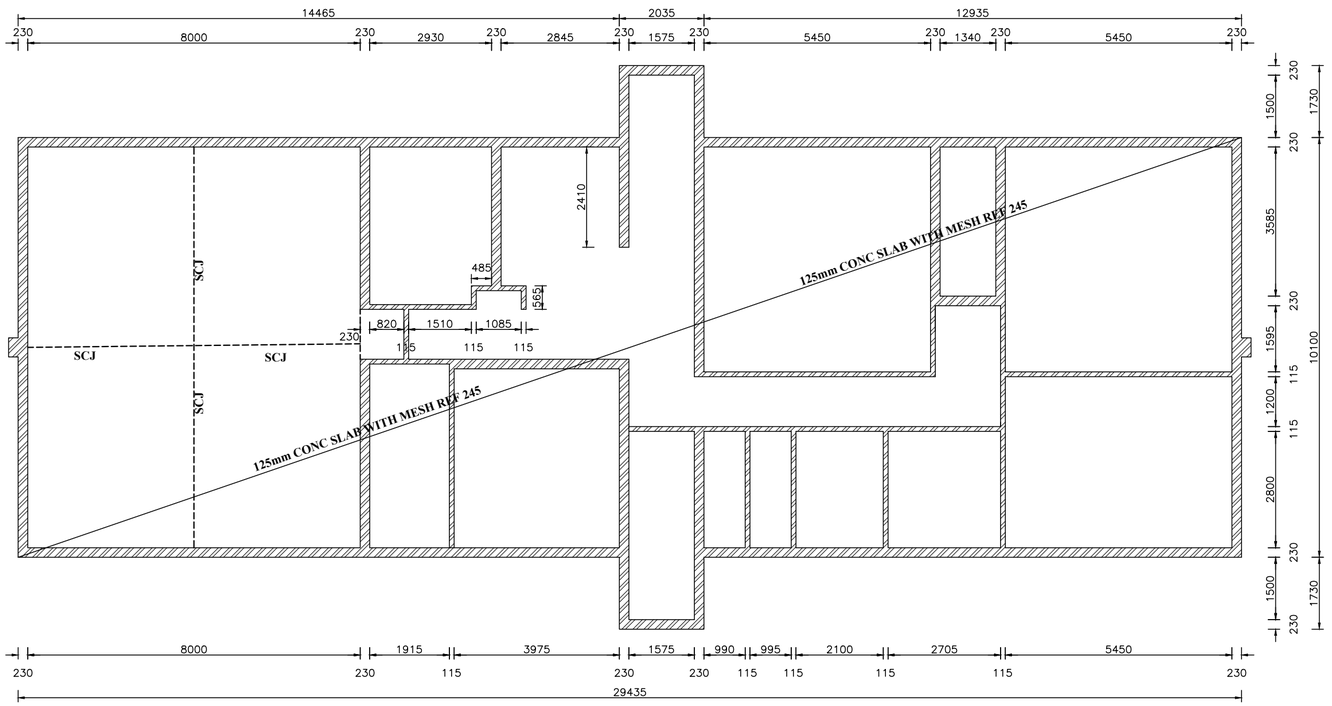
CONSULTANT DRAWING NUMBER: STR-002-BOS-201/1

DRAWING NUMBER: STR-005-BOS-201/1



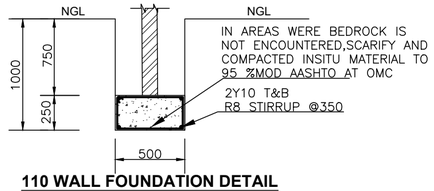
FOUNDATION LAYOUT

Scale 1:100



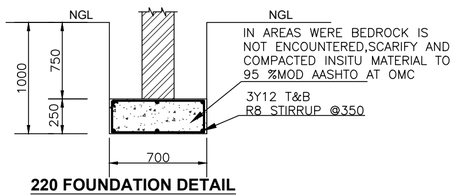
GROUND LAYOUT

Scale 1:100



110 WALL FOUNDATION DETAIL

Scale 1:20



220 FOUNDATION DETAIL

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DEPARTMENT OF PUBLIC WORKS

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Tel: 060 311 2170
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E-mail: lowflowsa@gmail.com

Low Flow Construction and Engineering PTY Ltd.

CHIEF ENGINEER-LPG-DPWR&I DATE

CONSULTING ENGINEER DATE

CONTRACT NO.:LDPWRI-PROF/16003D

REBONE SECONDARY SCHOOL

ADMINISTRATION BLOCK STRUCTURAL DETAIL

ISSUED FOR TENDER (Full Signature) 2021/ /

For: Department of Public Works 2021/ /

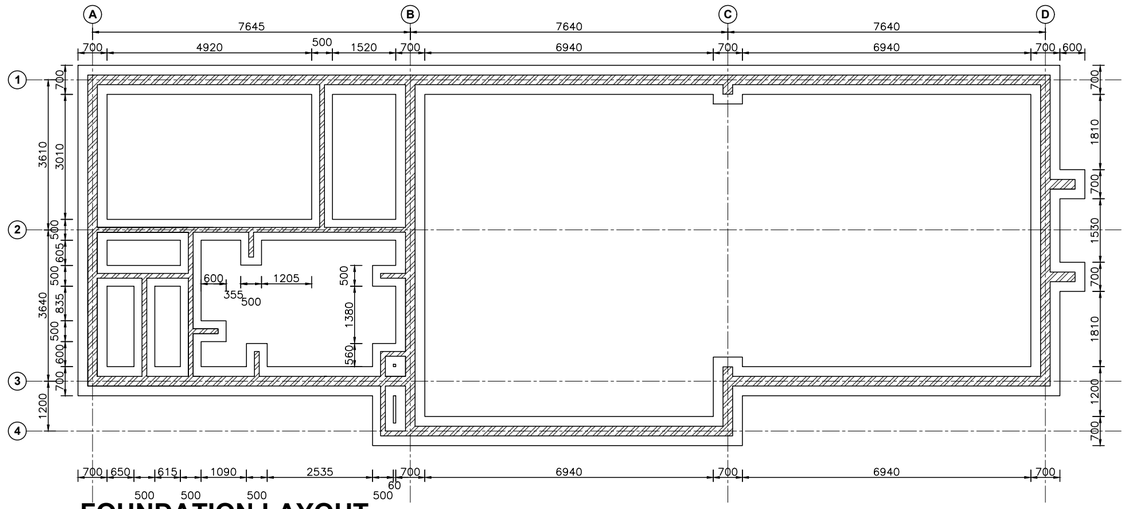
For: Consultant

SHEET 1 OF 1

SCALE: AS SHOWN

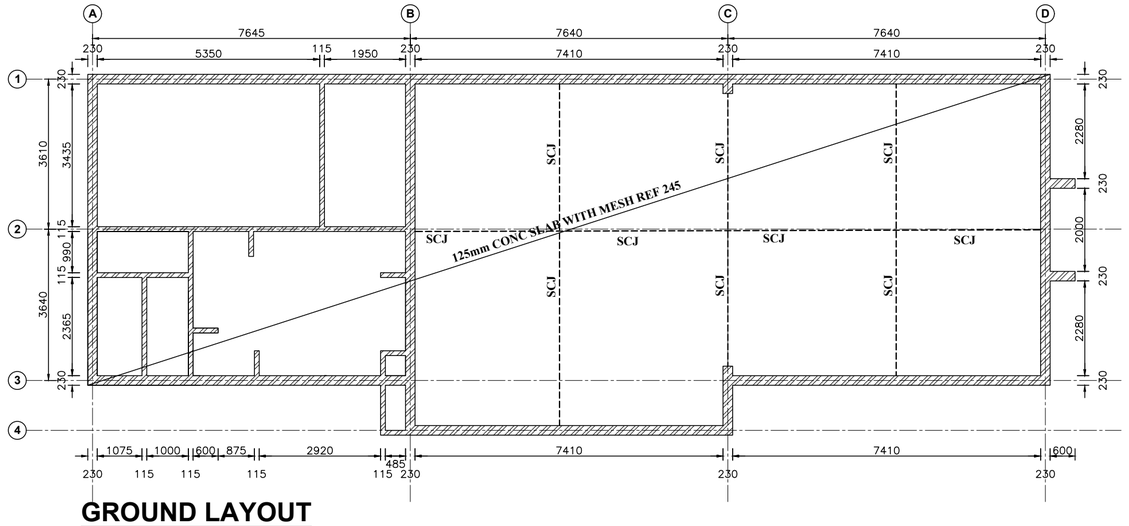
CONSULTANT DRAWING NUMBER: STR-001-BOS-201/1

DRAWING NUMBER: STR-005-BOS-201/1



FOUNDATION LAYOUT

Scale 1:100



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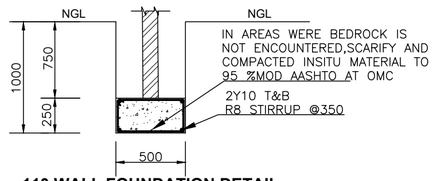
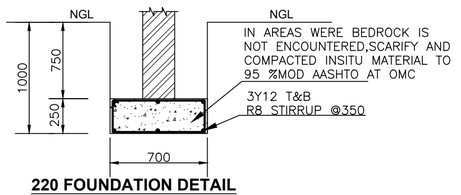


110 WALL FOUNDATION DETAIL

Scale 1:20



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CHIEF ENGINEER-LPG-DPWR&I DATE

CONSULTING ENGINEER DATE

CONTRACT NO.:LDPWRI-PROF/16003D

REBONE SECONDARY SCHOOL

NUTRITION CENTER STRUCTURAL DETAIL

ISSUED FOR TENDER (Full Signature)
2021/ /
For: Department of Public Works
2021/ /
For: Consultant

SHEET 1 OF 1

SCALE: AS SHOWN

CONSULTANT DRAWING NUMBER: STR-002-BOS-201/1

DRAWING NUMBER: STR-005-BOS-201/1