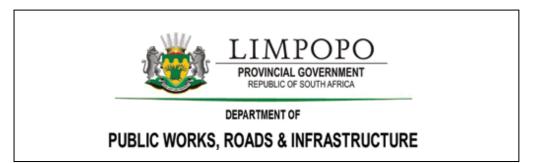
CONTRACT No. LDPWRI-B/20296



## **BID NUMBER: LDPWRI-B/20296**

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT

for

### LIMPOPO DEPARTMENT OF EDUCATION (LDOE),

LIMPOPO PROVINCE

## FRAMEWORK CATEGORY A (7GB AND ABOVE)

#### Issued by:

Limpopo Department of Public Works, Roads and Infrastructure Works Towers Building 43 Church Street Polokwane 0700

#### **Contact Person: General Queries**

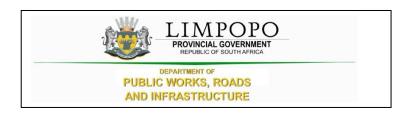
Name	: Mr NJ Motsopye,
Tel No.	: 015 284 7126
Email	: motsopyen@dpw.limpopo.gov.za

#### **Technical: Technical Queries**

Name	: Mr K Modjadji
Tel No.	: 083 673 5436
Email	: ModjadjiM@dpw.limpopo.gov.za

Name of the Bidder :....

#### CONTRACT No. LDPWRI-B/20296



### CONTENTS

#### 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

- A Mandatory Requirements
- B Non- Mandatory Requirements
- C Special Conditions and Departmental Rights
- T2.2 Returnable schedules

#### THE CONTRACT

#### Part C1: Agreements and Contract data

- C1.1 Form of offer and acceptance
- C1.2 Contract data

Joint Venture Agreement (If Applicable)

#### Part C2: Pricing data

- C2.1 Part 1 Pricing Instructions
- C2.2 Part 2 Bills of Quantities

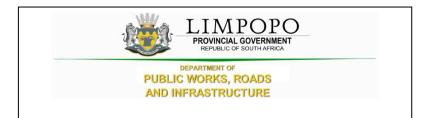
CONTRACT No. LDPWRI-B/20296

#### Part C3: Scope of Works

- C3.1 Special Notes to Bidders
- C3.2 OHS Specifications

#### Part C4 Drawings

CONTRACT No. LDPWRI-B/20296



# PART T1: TENDERING PROCEDURE

CONTRACT No. LDPWRI-B/20296

### **T1.1** Tender Notice and Invitation to Tender

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on category A for APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICTFOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) for a period of 20 months. It is estimated that tenderers must have a CIDB contractor grading designation of 7 GB or higher.

The conditions of the CIDB Standard for for Indirect Targeting for Enterprise Development through Construction Works Contracts **Gazette Notice No. 36190 of 25 February 2013** will be applicable on this project

Project Name	APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, REFURBISHMENT OF 23 CLASSROOMS, 12 ENVIROLOOS SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 6 SEATS WATERBORNE TOILET BLOCK, 4 SEATS ENVIROLOO TOILET BLOCK X 3 AND EXTERNAL WORKS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 20 MONTHS			
Tender Number	LDPWRI- B/20296			
Tender documents availability		f Public Works, Roads and Infrastructure website		
Address for submission	DEPARTMENT OF PU	IBLIC WORKS, ROADS & INFRASTRUCTURE.		
of tenders	Dhundaal addus say Oam	an Diversional Discurve and Otracta Ladamas (2000)		
Closing date of the	As per Tender invite	her River and Blaauwberg Streets, Ladanna, 0699.		
tender	As per render invite			
Closing time of the	As per Tender invite			
tender	-			
Compulsory briefing	Yes 🗆 🛛 N	lo 🖂		
meeting (Tenderers must	Meeting venue	As per Tender invite		
sign the attendance register in the name of the tendering	, J	•		
entity. Addenda (if any) will				
be issued only to those	Date	As per Tender invite		
tendering entities appearing	Time:	As per Tender invite		
on the attendance register)	1 Compliance wi	th mandatory or compulsory requirements		
		ent on current projects		
	3. Price			
	4. Preference			
Mandatory or		are appointed on category A registered with the		
Compulsory		Development Board (CIDB) with designation of 7 GB or		
<b>Requirements</b> (failure to submit or comply with these		or grading designation determined in accordance with		
requirements will lead to	the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations are			
automatic disqualification)	eligible to have their te			
	Completed and signed Form of Offer			
	Priced Bills of Quantities			
	Record of addenda to tender documents			
	Proposed amendments and qualifications			
		us of Administration compliance		
	<b>3 3</b>	CIDB grading certificate (Valid CIDB)		
	Declaration of current projects			

CONTRACT No. LDPWRI-B/20296



# T1.2 Tender Data

Clause number	Tender Data
	The conditions of tender are the Standard Conditions of Tender as contained in Annex C of Board Notice 423 of 2019 in Government Gazette No. 42622 of 08 August 2019, Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of tenderers as an Annexure to this Tender Data.
	The Standard Conditions of Tender make several references 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.
	The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice <b>No. 36190 of 25 February 2013.</b> In this case, contractor shall provide a <b>minimum Contract Participation Goal (CPG) of 5%</b> of the total project value and develop targeted enterprises stated under C3 of this document.
	The following variations, amendments and additions to the Standard Conditions of Tender as set out in the Tender Data below shall apply to this tender. Add the following to clauses in Standard Conditions of Tender:
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

CONTRACT No. LDPWRI-B/20296

	ACT NO. LDFWRI-B/20296	
C.1.2	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 Part C1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Joint Venture Agreement (If Applicable)	
	The Contract Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of Quantities	
	Part 3: Scope of work C3.1 Special Notes to Bidders C3.2 OHS Specifications	
	Part 4: Site information C4 Drawings	
C.1.4	The employer's representative is:	
	Name : Mr K Modjadji Tel No. : 083 673 5436 Email : <u>ModjadjiM@dpw.limpopo.gov.za</u>	
	However, all communications related to this bid should be directed to the persons indicated under Enquires on this tender document.	
	Attention is also drawn to the fact that verbal information, given by the Employer's agent during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the Employer. Only information issued formally by the Employer in writing to Tenderers will be regarded as amending the Tender Documents.	
C.1.5	The employer reserve to cancel the tender prior to the award of the tender.	
C1.6.2	A competitive negotiation procedure will not be followed.	
C1.6.3	A two-stage system will not be followed.	
C.2.1	Eligibility in respect of CIDB grading	
	Only tenderers who are appointed on framework agreement category A and registered with the Construction Industry Development Board (CIDB) with designation of 7 GB or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, are eligible to have their tenders evaluated.	
C2.2	Cost of tendering	
	The tenderer accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.	

CONTRACT No. LDPWRI-B/20296

C.2.7	Compulsory site briefing
	A compulsory briefing meeting will be held as per Tender invite
	Failure to attend the site briefing will result in the bidders not being considered for the project
	Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.
C.2.11	Alterations to the documents
	Bidders are required to not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations
C.2.12	Alternative tender offer
	No alternative tender offer is permitted in this tender.
C.2.13.2	<i>Replace sub-clause C.2.13.2 with the following;</i> Return all returnable documents to the employer after completing them in by writing in <b>non-</b> erasable black ink ( <i>Black pen</i> )
C.2.13.3	Parts of each tender offer communicated on paper shall be submitted as an original
C.2.13.4	The tender shall be signed by a person duly authorized to do so.
C.2.13.5	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 tender box: DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699 Identification details: Sealed Tender with Tender reference number, Title of Tender and the closing date and time of the tender.
C.2.15.1	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender. Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
C.2.16.1	The tender offer validity period is <b>120 days.</b>
C.2.16.2	The tender accepts that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16.1 lapses before the employer evaluating tender, the contractor reserves the right to review the price based on Consumer Price Index (CPI).
C.3.1	<ul> <li>The tenderer is required to indicate how they claim points for each preference point system and attached relevant supporting documents. The specific goals for claiming of preference points include the following: <ul> <li>Persons who had no franchise in national elections prior to 1983 and 1993</li> <li>Women</li> <li>Disabled persons</li> <li>Promotion of SMMEs</li> <li>Enterprises located in Limpopo Province</li> <li>Promotion of youth</li> <li>South African owned enterprises</li> </ul> </li> </ul>

CONTR	CONTRACT No. LDPWRI-B/20296		
	CIDB Grading Certificate		
	Tenders are required to provide proof of registration with the CIDB register of contractors indicating the category of registration, grading as well as the CRS number of the tenderer.		
	Letter of	Good Standing	
	Tenderer's are required to submit, bound with the tender submission, a letter of good standing from the compensation commissioner indicating that the bidder is in good standing.		
C3.2	Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.		
C.3.4.1	Tenders w	ill <b>not</b> be opened immediately after the closing time for tenders.	
C.3.11	The tende (i) (ii) (iii) (iv)	rers will be evaluated in four stages Stage 1: Compliance with mandatory requirements as stated in Part T1.1 Stage 2: Risk assessment on current projects Stage 3: Price Stage 4: Preference	
	The technical capacity (functionality) of the contractors will not be evaluated any further dur evaluation of the RFQ. However, the contractors will be required to declare the status of their k staff and any administrative compliance. In cases where there are changes in the key staff, contractor should provide CVs and qualifications of the new staff to LDPWR&I. The new staff sho have similar skills, qualifications and experience as the staff submitted during tender. Similarly, contractors will be expected to provide an update on any changes in their administrative compliance – and should submit the required SBD document/forms in such cases.		
	The award will only be issued to contractors with valid Tax Clearance certificates, active CIDB grading and the contractor who meets all the legislative requirement – this shall be verified by SCM in line with the departmental SCM Policy.		
	The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade. <sup>1</sup>		
	<ul> <li>a) Stage 1: Administrative Compliance: The Compliance or compulsory document returnables are detailed in Section T.2.1 of this tender document. Failure to complete or comply with these requirements will lead to automatic disqualification</li> </ul>		
	b)	Stage 2: Risk assessment on current projects	
		The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade. Should it exceed, the bidder will therefore not be appointed.	

CONTRACT No. LDPWRI-B/20296

#### Stage 3 and 4:

The procedure for final evaluation of responsive tenders is Method 2 (Financial offer and preference). The total number of tender evaluation points ( $T_{EV}$ ) shall be determined in accordance with the following formula.

$$T_{EV} = N_{FO} + N_P$$

a) *N<sub>FO</sub>* is the number of tender evaluation points awarded for the financial offer made. The score for financial offer is calculated using the following formula:

$$P = A * \left(1 - \frac{(P_o - P_m)}{P_m}\right)$$

Where:

A is 80 since the estimated financial value of works inclusive of VAT is equals or is less than R 50,000,000.00.

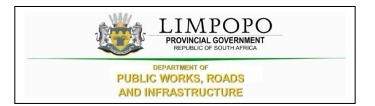
P is the points awarded to the bid under consideration

 $P_m$  is the lowest Comparative bid price

 $P_o$  is the comparative price under consideration

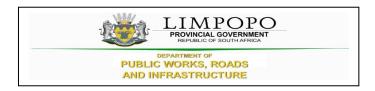
b) *N*<sub>P</sub> is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

CONTRACT No. LDPWRI-B/20296



# PART T2: RETURNABLE DOCUMENTS

CONTRACT No. LDPWRI-B/20296



## **T2.1 : LIST OF RETURNABLE DOCUMENTS**

The following documents will form part of the documents submitted to the Contractors as part of the Request for Proposals:

#### A -- MANDATORY REQUIREMENTS

2.1 Fully completed Form of Offer (Fully Completed and Signed Form of Offer)

2.2 Bills of Quantities (P&Gs are allowed to have a lump sum total in the P&Gs Summary Page and the rest of the Bill of Quantities trades must be completed in full (Rates and Amounts))

2.3 Record of Addenda to tender documents (Records of addendum must be captured in full, whether applicable of not)

2.5 Declaration on the status of Administration compliance (Fully completed, circled and signed)

2.6 CIDB grading certificate (Valid CIDB)

2.7 Declaration of current projects (Fully completed, circled and signed)

#### **B – NON- MANDATORY REQUIREMENTS**

2.8 SBD 1 (Fully Completed and Signed)

2.9 SBD 4 (Fully Completed and Signed). False declaration by the bidder will render the proposal non-responsive and will not be considered

2.9 SBD 6.1 (Failure on the part of a bidder to complete and submit proof or documentation required in terms of this tender to claim points for specific goals with tender, will be interpreted to mean that preference points for specific goals are not claimed)

SPECIFIC GOALS	REQUIRED ATTACHMENT
Persons who had no franchise in national elections prior to 1983 and 1993	Attach certified copy of South African ID as proof
Women	Attach Director's certified copy of South African ID as proof + company registration documents
Disabled Persons	Bidder with disability must attach medical certificate completed by registered medical practitioner which is registered with Health Professions Council of South Africa (HPCSA) as proof
Promotion of SMMEs	Attach latest financial statement as proof
Enterprises located in Limpopo Province	<ul> <li>N.B: The physical address given in the SBD 1 will be used and it should be consistent or the same as the preferred address in the Central Supplier Database Report</li> <li>a) A Title deed, Letter from a Traditional Authority or Municipal Statement which must not be older than three (3) months; or</li> <li>b) A Formal Lease Agreement together with Lessor's Municipal Account or Letter from Traditional Authority</li> </ul>
Promotion of Youth	Attach Director's certified copy of South African ID as proof
South African owned enterprises	Attach Director's certified copy of South African ID as proof + company registration documents

#### CONTRACT No. LDPWRI-B/20296

2.10 Attach full CSD Report (For verification of the required attachments above)

2.11 Proposed amendments and qualifications (Proposed amendments and qualifications must be captured in full, whether applicable of not)

Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.5, 2.6, and 2.7 will render their proposal not responsive and will not be considered.

The bidder should also not appear on the National Treasury's list of black listed entities.

#### **C -- SPECIAL NOTES TO BIDDERS AND DEPARTMENTAL RIGHTS**

The following special conditions are for compliance and attention to bidders:

I.1 LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.

1.2 LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.

I.3 LDPWR&I reserves the right to appoint the bidder that proves to be fully capable and qualifies to handle and execute the job.

I.4 The proposals submitted must be in line with the detailed specification.

I.5 LDPWR&I reserve the right to cancel or withdraw this bid if:

- i. Due to changed circumstances, there is no longer a need for these services; or
- ii. Funds are no longer available to cover the total envisaged expenditure; or
- iii. No acceptable bods are received; or
- iv. There is a material irregularity in the Bid process.

1.6 In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.

1.7 Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.

1.8 Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.

1.9 Successful bidder will be required to sign and enter into a formal contract upon the award.

1.10 Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.

1.11 Bid documents must be submitted physically to the closing address as reflected on the Request for Quotation/Tender.

1.12 Quotations/Tenders received after the closing date and time will not be accepted for consideration.

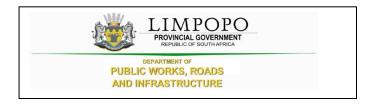
1.13 This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.

1.14 No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.

1.15 Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.

1.16 References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I

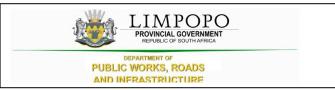
CONTRACT No. LDPWRI-B/20296



# T 2.2: RETURNABLE SCHEDULE

	Document Name		nable ment
1.	Fully completed Form of Offer	□Yes	🗆 No
2.	Priced Bills of Quantities	□Yes	🗆 No
3.	Record of Addenda to tender documents	□Yes	🗆 No
4.	Proposed amendments and qualifications	□Yes	🗆 No
5.	Proof of specific goals for award of the preference points	□Yes	🗆 No
6.	SBD 1. Invitation to Tender	□Yes	🗆 No
7.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2022 or amended	□Yes	🗆 No
8.	Declaration on the status of Administration compliance.	□Yes	🗆 No
9.	Proof of CIDB class grading: 7GB or higher.	□Yes	🗆 No
10.	Full CSD Report	□Yes	🗆 No
11.	Declaration of current projects	□Yes	🗆 No

CONTRACT No. LDPWRI-B/20296

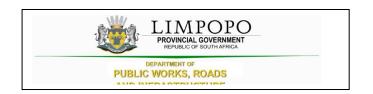


# Declaration on the status of administrative compliance

Please indicate, by circling either **Yes or No**, whether the administrative information submitted with the original framework tender documents have changed or not. If yes, kindly provide the particulars below with any supporting documents.

• •		 	
	Signed	 Date	
	Name	Position	
	Enterprise		

CONTRACT No. LDPWRI-B/20296



# **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	 	

#### CONTRACT No. LDPWRI-B/20296

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#### **Proposed amendments and qualifications**

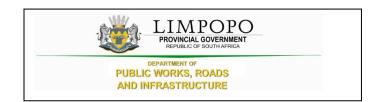
The Tenderer should record any deviations or qualifications he may wish to make to the tender documents in this Returnable Schedule. Alternatively, a tenderer may state such deviations and qualifications in a covering letter to his tender and reference such letter in this schedule.

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
Sign	ed	Date

olghed	Date	
Name	Position	
Tenderer		

CONTRACT No. LDPWRI-B/20296



SBD 1

PART A: INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE LIMPOPO DEPARTMENT OF PUBLIC WORKS, ROADS AND INFRASTRUCTURE								
			CLOSING D	ATE	As per Tondor			As per
BID NUMBER:	LDPWRI-B/20296				Tender Advert		NG TIME:	Tender Advert
DESCRIPTION	DEMOLITIONS, SCHOOL	REFURBISHME	INT AND A	DDITIONS	AT NKGONY	ELETSE	E SECONDAR	Y
	DOCUMENTS MAY B	E DEPOSITED IN 1	THE BID BOX	SITUATED A	T (STREET ADD	RESS)		
DEPARTMEN	T OF PUBLIC WO	RKS, ROADS &	INFRAST	RUCTURE.				
Physical addre	ess: Corner River a	and Blaauwberg	Streets, La	danna, 069	9.			
BIDDING PROCE	EDURE ENQUIRIES M	AY BE DIRECTED	то					
CONTACT PERS	ON	Mr. NJ Motsopye	Vr. NJ Motsopye					
TELEPHONE NU	MBER	0152847126	E-MAIL A	DDRESS		motsop	yen@dpw.limpop	o.gov.za
CONTACT PERS	ON (TECHNICAL)	Mr. K Modjadji						
TELEPHONE NU		083 673 5436	E-MAIL A	DDRESS		Modjad	jiM@dpw.limpopo	.gov.za
SUPPLIER INFO								
NAME OF BIDDE								
POSTAL ADDRE								
STREET ADDRE								
TELEPHONE NU		CODE	DE NUMBER					
CELLPHONE NU	MBER							
E-MAIL ADDRES								
	TON NUMBER PLIANCE STATUS	TAX			CENTRAL			
		COMPLIANCE		OR	SUPPLIER			
		SYSTEM PIN:			DATABASE No	: MAA	AA	
	ACCREDITED				A FOREIGN			
REPRESENT					UPPLIER FOR	THE	□Yes	□No
SOUTH AFRIC		□Yes	No		SERVICES /W		[IF YES, ANSW	ED THE
	VICES /WORKS	[IF YES ENCLOSI	E PROOF] OFFERED?			QUESTIONNAI		
OFFERED?								
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS								
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?						ES 🗌 NO		
DOES THE ENTITY HAVE A BRANCH IN THE RSA?					ES 🗌 NO			
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?								
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?					ES 🗌 NO			
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?					S 🗌 NO			
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.								

CONTRACT No. LDPWRI-B/20296

## 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 IN THE MANNER PRESCRIBED IN THE BID DOCUMENT. 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2022, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT. 1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM. TAX COMPLIANCE REQUIREMENTS 2. 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 VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS. APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE 2.3 WWW.SARS.GOV.ZA. BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID. 2.4 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER. WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD 2.6 NUMBER MUST BE PROVIDED. 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

#### NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:	
CAPACITY UNDER WHICH THIS BID IS SIGNED: (Proof of authority must be submitted e.g. company resolution)	
DATE:	

CONTRACT No. LDPWRI-B/20296

SBD 4

### **BIDDER'S DISCLOSURE**

#### 1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

#### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest2 in the enterprise,

employed by the state?

#### YES/NO

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of institution	State

- 2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**
- 2.2.1 If so, furnish particulars:

.....

<sup>&</sup>lt;sup>2</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

#### CONTRACT No. LDPWRI-B/20296

- 2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**
- 2.3.1 If so, furnish particulars:

.....

#### 3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 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 consortium3 will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 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

<sup>&</sup>lt;sup>3</sup> 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.

CONTRACT No. LDPWRI-B/20296

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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.


Signature

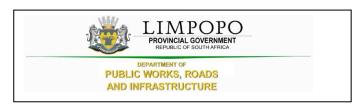
Date

.....

Position

Name of bidder

CONTRACT No. LDPWRI-B/20296



#### SBD 6.1

#### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

#### NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

#### 1. GENERAL CONDITIONS

- 1.1 The following preference point systems are applicable to invitations to tender:
  - 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 To be completed by the organ of state

(delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.
- 1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:
  - (a) Price; and
  - (b) Specific Goals.

CONTRACT No. LDPWRI-B/20296

#### 1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

- 1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.
- 1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

#### 2. **DEFINITIONS**

- (a) **"tender"** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) "**price**" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

CONTRACT No. LDPWRI-B/20296

#### 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

#### 3.1. POINTS AWARDED FOR PRICE

#### 3.1.1 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  $Ps = 80\left(1 - \frac{Pt - P\min}{P\min}\right)$  or  $Ps = 90\left(1 - \frac{Pt - P\min}{P\min}\right)$ Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

#### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

#### 3.2.1. POINTS AWARDED FOR PRICE

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

80/20 or 90/10  

$$Ps = 80\left(1 + \frac{Pt - P\max}{P\max}\right)$$
 or  $Ps = 90\left(1 + \frac{Pt - P\max}{P\max}\right)$ 

#### Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

#### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- 4.3.
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

CONTRACT No. LDPWRI-B/20296

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

#### Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Persons who had no franchise in national elections prior to 1983 and 1993	6	
Women	3	
Disabled persons	2	
Promotion of SMMEs	2	
Enterprises located in Limpopo Province	4	
Promotion of youth	1	
South African owned enterprises	2	

#### DECLARATION WITH REGARD TO COMPANY/FIRM

4.4. Name of company/firm.....

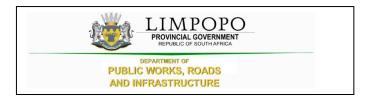
- 4.5. Company registration number: .....
- 4.6. TYPE OF COMPANY/ FIRM
  - Partnership/Joint Venture / Consortium
  - One-person business/sole propriety
  - Close corporation
  - Public Company
  - Personal Liability Company
  - (Pty) Limited
  - Non-Profit Company
  - State Owned Company

[TICK APPLICABLE BOX]

#### CONTRACT No. LDPWRI-B/20296

- 4.7. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I 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 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
  - iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have
    - (a) disqualify the person from the tendering 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 tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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, if deemed necessary.

	SIGNATURE(S) OF TENDERER(S)
SURNAME AND NAME:	
DATE:	
ADDRESS:	



### **DECLARATION OF CURRENT PROJECTS**

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 the table below.

If no projects at the moment the bidder must indicate/write on this table.

Misrepresentation of facts will render your bid non-responsive.

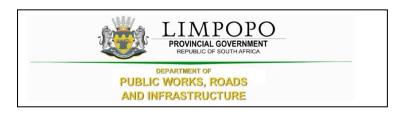
#### Table 1 List of current projects executed by the bidder

- 1. Do you have the current projects being executed Yes/No? (circle the correct answer)
- 2. Please note that it is compulsory to answer the question above and if the answer is yes, complete the table below. Failure by the service provider/bidder to answer the question above or complete the table below will render their proposal not responsive and will not be considered.

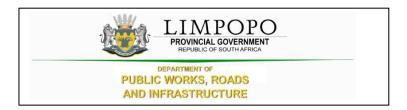
Project Description	Project Value	Start date	Planned end date	Client Name	Contact Person number

		1	

Signed	 Date	
Name	 Position	
Enterprise		



# THE CONTRACT



# PART C1: AGREEMENT AND CONTRACT DATA



# 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:

# DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT NKGONYELETSE SECONDARY SCHOOL IN MALEGASANE VILLAGE, SEKHUKHUNE DISTRICT.

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 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)


(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	(ڊ
---------	-------------------------------	---	----

- Part C2 Pricing Data
- Part C3 Scope of Work

and 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 organization

#### Signature and Name of Witness

Signature	
Name	
Capacity	

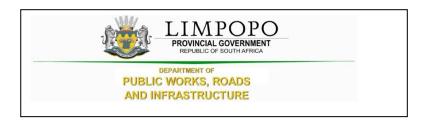
# **Schedule of Deviations**

1 Subject	
Details	
0 Outlinet	
2 Subject	
Details	
3 Subject	·····
Details	
4 Subject	·····
Details	

By the duly authorised 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.

.....



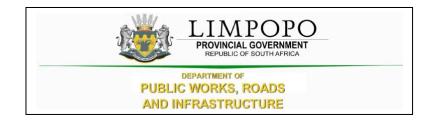
# C2.1 CONTRACT DATA

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.

The contractor shall achieve in the performance of the contract the Contract Participation Goals (CPG) relating to the engagement of targeted enterprises as established in the CIDB Standard for Indirect Targeting for Enterprise Development through Construction Works Contracts Gazette Notice No. 36190 of 25 February 2013."



# PART C2: PRICING DATA

# **C2.1 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 Work, 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 assessment of payment for additional work that may have to be carried out.
- 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.
- The bidder shall set aside a minimum of 5 % of the project value for sub-contractor/s and determine the amount to be paid for the Contract Participation Goal (CPG).



# PART C2.2: BILLS OF QUANTITIES

		Quantity	Rate	Amount
SE	CTION NO. 1			
BI	<u>LL NO. 1</u>			
PR	RELIMINARIES NOTES			
PR	EAMBLES			
in ti issu	TE : The tenderer is referred to the relevant clauses he Model Preambles for Trades (2008 Edition) as ued by the Association of South African Quantity rveyors before pricing this bill.			
NC	DTES			
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 <i>Principal Building Agreement: Contract</i> <i>Data</i> 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	
PRI Bill	ction No. 1 ELIMINARIES AND GENERAL No. 1			
Pre	liminaries and General			

	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			
	<ul> <li>Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</li> </ul>			
	<ul> <li>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.</li> </ul>			
	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)			
	<b>DEFINITIONS AND INTERPRETATION (A1)</b>			
1/1/1	Clause 1.0			
	F: V: T:	ltem		
	OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)			
1/1/2	Clause 2.0			
	F: T:	ltem		
	DOCUMENTS (A3)			
1/1/3	Clause 3.0			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	DESIGN RESPOSIBILITY (A4)			
1/1/4	Clause 4.0			
	F: T:	ltem		
	EMPLOYERS AGENTS (A5)			
1/1/5	Clause 5.0			
	F: T:	ltem		
	SITE REPRESENTATIVE (A6)			
1/1/6	Clause 6.0			
	F: V: T:	ltem		
	COMPLIANCE WITH LAWS AND REGULATIONS (A7)			
1/1/7	Clause 7.0			
	F: V: T:	ltem		
	INSURANCE AND SECURITY			
	WORKS RISK (A8)			
1/1/8	Clause 8.0			
	F: V: T:	ltem		
	INDEMNITIES (A9)			
1/1/9	Clause 9.0			
	F: T:	ltem		
	Carried Forward Section No. 1		R	
	PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	WORKS INSURANCES (A10)			
1/1/10	Clause 10.0			
	F: V:			
	T:	Item		
	LIABILITY INSURANCES (A11)			
1/1/11	Clause 11.0			
	F: T:	ltem		
	EFFECTING INSURANCES (A12)			
1/1/12	Clause 12.0			
	F: T:	ltem		
	NO CLAUSE (A13)			
1/1/13	Clause 13.0			
	F: T:	ltem		
	SECURITY (A14)			
1/1/14	Clause 14.0			
	F: V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	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: T:	Item		
	CONTRACT INSTRUCTION (A17)			
1/1/17	Clause 17.0			
	F: 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: T:	Item		
	NOMINATED SUBCONTRACTORS (A20)			
1/1/20	Clause 20.0			
	F: T:	Item		
	Carried Forward		R	
	PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	SELECTED SUBCONTRACTORS (A21)			
1/1/21	Clause 21.0			
	F: T:	ltem		
	EMPLOYERS DIRECT CONTRACTORS (A22)			
1/1/22	Clause 22.0			
	F: T:	ltem		
	CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)			
1/1/23	Clause 23.0			
	F: V: T:	ltem		
	COMPLETION			
	PRACTICAL COMPLETION (A24)			
1/1/24	Clause 24.0 Contract Period: The period commencing on actual <b>Site</b> hand over date to the <b>Contractor</b> and ending on the date of <b>Practical Completion</b> or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays.			
	F: V: T:	ltem		
	WORKS COMPLETION (A25)			
1/1/25	Clause 25.0			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	FINAL COMPLETION (A26)			
1/1/26	Clause 26.0			
	F: V:	Item		
	T:	liem		
44407	LATENT DEFECT'S LIABILITY PERIOD (A27)			
1/1/27	Clause 27.0			
	F: T:	Item		
	SECTIONAL COMPLETION (A28)			
1/1/28	Clause 28.0			
	F: T:	ltem		
	REVISION OF THE DATE FOR PRACTICAL COMPLETION (A29)			
1/1/29	Clause 29.0			
	F: T:	ltem		
	PENALTY FOR LATE OR NON-COMPLETION (A30)			
1/1/30	Clause 30.0			
	F: T:	ltem		
	PAYMENT			
	INTERIM PAYMENT TO THE CONTRACTOR (A31)			
1/1/31	Clause 31.0			
	F: T:	ltem		
	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL		R	
	Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	ADJUSTMENT OF THE CONTRACT VALUE (A32)			
1/1/32	Clause 32.0			
	F: T:	ltem		
		item		
	RECOVERY OF EXPENSE AND/OR LOSS (A33) Clause 33.0			
	F: V:			
	T:	ltem		
	FINAL ACCOUNT AND FINAL PAYMENT (A34)			
1/1/34	Clause 34.0			
	F: T:	ltem		
	PAYMENT TO OTHER PARTIES (A35)			
1/1/35	Clause 35.0			
	F: T:	ltem		
	CANCELLATION			
	CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)			
1/1/36	Clause 36.0			
	F: T:	ltem		
	CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)			
1/1/37	Clause 37.0			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT (A38)			
1/1/38	Clause 38.0			
	F: T:	ltem		
	CANCELLATION - CESSATION OF THE WORKS (A39)			
1/1/39	Clause 39.0			
	F: T:	ltem		
	CANCELLATION - CESSATION OF THE WORKS (A39)			
1/1/40	Clause 39.0			
	F: T:	ltem		
	<u>DISPUTE</u>			
	SETTLEMENT OF DISAGREEMENTS AND DISPUTES (A40)			
1/1/41	Clause 40.0			
	F: T:	ltem		
	SUBSTITUTE PROVISIONS			
	STATE CLAUSES (A41)			
1/1/42	Clause 41.0			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL BIII No. 1			
	Preliminaries and General			

	Brought Forward		R	-
	SCHEDULE OF VARIABLES (A42)			
1/1/43	Clause 42.0			
	F: T:	ltem		
	AGREEMENT			
	AGREEMENT			
1/1/44	Clause			
	F: T:	ltem		
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	CONTRACT DETAILS			
	Works Description:			
	Demolishing of administration block, Refurbishment of 23 classrooms & 12 enviro-loo toilets and Construction of medium administration, 6 seat waterborne and 12 seat enviro-loo toilets, as well as related external works			
	Site Description:			
	Nkgonyeletse Secondary School Ga-Mashabela, Malegasane, Limpopo Province			
	Work for installation by direct contractors: <b>TBC</b>			
	This agreement is for a government contract: Yes			
	Date on which possession of the site is intended to be given: <b>TBC</b>			
	Period for the commencement of the works after the contractor takes possession of the site: <b>10 days</b>			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	Completions in sections are required: <b>No</b>			
	Intended date of practical completion and the penalty per calender day for the works as a whole:			
	R 5 100.00			
	Contract duration : <b>20 months</b> including national builder's break			
	SPECIAL COMPLETION REQUIREMENTS			
	Beneficial occupation dates: <b>TBC</b>			
	Tenant Installations beneficial occupation			
	F V T			
1/1/45	Arbitration rules as recommended by the Association of Arbitrators (SA)			
	F V T	ltem		
1/1/46	The law applicable to this agreement shall be that of South Africa			
	F V T	Item		
	INSURANCES			
1/1/47	Contract works insurance to be effected by: Contractor			
	For the amount of: The <b>Contract Sum</b> plus 20% with deductible of R20 000.00			
	Notwithstanding the provisions of Clause 41.3.2, the first amount deductible will be for the <b>Contractor's</b> account			
	SASRIA insurance required:			
	F: V: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/48	Public liability insurance to be effected by <b>Contractor</b> For the amount of: R 10 000 000.00 With a deductible of: R 10 000.00 per claim			
	F: T:	ltem		
	DOCUMENT			
	Waivers of contractors lien is required: <b>Yes</b>			
	Number of construction document copies to be supplied free of charge: <b>3</b>			
	Number of days for submission of priced documents: <b>TBA</b>			
	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: <b>No</b>			
	Alternative if contract value is not adjusted using Contract Price Adjustment Provision: <b>N/A</b>			
	Tender Price is requested for Fixed Rates.			
	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	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	SECTION B: PRELIMINARIES			
	Definition and interpretation (B1)			
1/1/49	Definition and interpretation (B1.1 - B1.6.5)			
	F: T:	Item		
	Documents (B2)			
1/1/50	Checking of documents (B2.1)			
	F: 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: T:	Item		
1/1/52	Provisional bills of quantities (B2.2)			
	F: T:	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3)			
	F: T:	Item		
1/1/54	Interests of agents (B2.4)			
	F: T:	Item		
	<b>Carried Forward</b> Section No. 1 PRELIMINARIES AND GENERAL		R	
	PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/55	Priced documents (B2.5)			
	F: V:			
	Т:	ltem		
1/1/56	Tender submission (B2.6)			
	F: T:	ltem		
1/1/57	Notwithstanding anything contained in this clause			
., ., e	tenders shall be valid for a period of 90 days from the closing date of tenders			
	F: T:	ltem		
		nem		
	<u>The site (B3)</u>			
1/1/58	Defined works area (B3.1)			
	F: T:	ltem		
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: <b>TBC</b> The meeting will be held at: <b>TBC</b> 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: T:	ltem		
1/1/60	Inspection of the site (B3.3)			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1			
	PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	-
1/1/61	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 the Nkgonyeletse Secondary School			
	F: T:	ltem		
1/1/62	Existing premises occupied (B3.4)			
	F: V: T:	ltem		
1/1/63	Previous work - dimensional accuracy (B3.5)			
	F: T:	ltem		
1/1/64	Previous work - defects (B3.6)			
	F: T:	ltem		
1/1/65	Services - known (B3.7)			
	F: T:	ltem		
1/1/66	Services - unknown (B3.8)			
	F: T:	ltem		
1/1/67	Protection of trees etc (B3.9)			
	F: T:	ltem		
1/1/68	Articles of value (B3.10)			
	F: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/69	Inspection of adjoining properties etc (B3.11)			
	F: V:			
	T:	Item		
	Management of contract (B4)			
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:	ltem		
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:			
	Т:	ltem		
1/1/72	Progress meetings (B4.3)			
	F:			
	T:	Item		
1/1/73	Technical meetings (B4.4)			
	F: T:	ltem		
	Samples and shop drawings and manufacturer's instructions (B5)			
1/1/74	Samples of materials (B5.1)			
	F: V:			
	Т:	ltem		
1/1/75	Workmanship samples (B5.2)			
	F: V: T:	ltem		
		item		
				$\vdash$
	Carried Forward Section No. 1		R	
	PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			
				1

	Brought Forward		R	
1/1/76	Shop drawings (B5.3)			
	F: V:			
	Т:	Item		
	Temporary works and plant (B6)			
1/1/77	Deposits and fees (B6.1)			
	F: V:	ltere		
	Т:	Item		
1/1/78	Enclosure of the works (B6.2)			
	F: V:	Item		
1/1/79				
11113	Advertising (B6.3)			
	F: T:	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4)			
	F: V:			
	T:	Item		
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:	Itom		
	T:	Item		
1/1/82	Subcontractors notice board (B6.6)			
	F: V: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	<u>Temporary services (B7)</u>			
1/1/83	Location (B7.1)			
	F: V:			
	Т:	Item		
1/1/84	Water (B7.2)			
	Alternative A			
	F: T:	ltem		
1/1/05				
1/1/85	Electricity (B7.3)			
	Alternative A			
	F: T:	ltem		
1/1/86	Telecommunication equipment (B7.4)			
	Alternative A			
	F: V:			
	Т:	ltem		
1/1/87	Ablution facilities (B7.5)			
	Alternative A			
	<u>F</u> : V:			
	Т:	Item		
	Prime cost amounts (B8)			
1/1/88	Responsibility for prime cost amounts (B8.1)			
	F: T:	Item		
	Attendance on N/S Subcontractors (B9)			
1/1/89	General attendance (B9.1)			
1/ 1/09	F: V:			
	T:	ltem		
	Carried Forward		R	
	Section No. 1			
	PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/90	Special attendance (B9.2)			
	F: V:	14		
	Т:	Item		
1/1/91	Commissioning - Fuel, water and power (B9.3)			
	F: T:	Item		
	Financial aspects (B10)			
1/1/92	Statutory taxes, duties and levies (B10.1)			
	F: T:	ltem		
		nem		
1/1/93	Provision for Value Added Tax (VAT) is made in the Final Summary			
	F: T:	ltem		
4 14 10 4		item		
1/1/94	Payment of preliminaries (B10.2)			
	F: T:	Item		
1/1/95	Adjustment of preliminaries (B10.3)			
	F: T:	ltem		
1/1/96	Payment certificate cash flow (B10.4)			
1/1/90	F:			
	T:	Item		
1/1/97	Contractor information supply (B10.5)			
	F: V:	ltem		
	T:	item		
	Carried Forward		R	
	Section No. 1		K	
	PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

		Brought Forward		R	
	<u>General (B11)</u>				
1/1/98	Protection of works (B11.1)				
	F: V: T:		Item		
1/1/99	Protection/isolation of existing/sectiona works (B11.2)	lly occupied			
	F: V: T:		ltem		
1/1/100	Site security (B11.3) F:V:		ltem		
1/1/101	Notice before covering work (B11.4)				
1/1/102	T: Disturbance (B11.5)		ltem		
	F: V: T:		ltem		
1/1/103	Works cleaning and clearing (B11.6) F:V:		ltem		
1/1/104	Vermin (B11.7)		nem		
1/1/105	F:V: T: Overhand work (B11.8)		Item		
	F:V: T:		ltem		
	Section No. 1 PRELIMINARIES AND GENERAL	Carried Forward		R	
	Bill No. 1 Preliminaries and General				

		Brought Forward		R	
	Schedule of variables (B12)				
1/1/106	Pre-tender information (B12.1)				
	F: V: T:		ltem		
	Information necessary for elections and those clauses contained in the schedule necessary for tender purposes is given Where no information is given it shall m no details or specific requirements are a the clause is not relevant to this specific	e which are hereunder. ean that either available or that			
1/1/107	12.1.1 Provisional bills of quantities (B The quantities are provisional: `	res			
	F: V: T:		ltem		
1/1/108	12.1.2 Availability of construction docur Construction documentation is no	ot complete: Yes			
	F:V: T:		ltem		
1/1/109	12.1.3 Interest of agents (B2.4)				
	F: V: T:		ltem		
1/1/110	12.1.4 Defined works area (B3.1)				
	F: V: T:		ltem		
1/1/111	12.1.5 Geotechnical investigation (B3.	2)			
	F: V: T:		ltem		
1/1/112	12.1.6 Existing premises occupied (B3	.4)			
	F: V: T:				
			ltem		
	Section No. 1	Carried Forward		R	
	PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General				

	Brought Forward		R	
1/1/113	12.1.7 Services - known (B3.7)			
	F: V:			
	T:	Item		
1/1/114	12.1.8 Protection of trees (B3.9)			
	F: T:	ltem		
1/1/115	12.1.9 Inspection of adjoining properties (B3.11)			
	F: V: T:	ltem		
1/1/116	12.1.10 Enclosure of the works (B6.2)			
	F: T:	ltem		
1/1/117	12.1.11 Offices (B6.4.3)			
	F:	ltem		
1/1/118	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: T:	ltem		
4/4/440				
1/1/119	12.1.13 Subcontractors notice board (B6.6) A notice board is required: <b>No</b>			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

	Brought Forward		R	
1/1/120	12.1.14 Water (B7.2) Alternative Selected: <b>A</b>			
	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: T:	Item		
1/1/121	12.1.15 Electricity (B7.3) Alternative selected: <b>A</b>			
	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: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	[ [ ]	
1/1/122	12.1.16 Telecommunications (B7.4) Alternative selected: <b>A</b>				
	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: T:	ltem			
1/1/123	12.1.17 Ablution facilities (B7.5) Alternative selected: <b>A</b>				
	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: T:	ltem			
1/1/124	12.1.8 Special attendance (B9.2)				
	F: T:	ltem			
1/1/125	12.1.19 Protection of the works (B11.1)				
	F: T:	ltem			
	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R		

		Brought Forward		R	
1/1/126	12.1.20 Protection of existing/sectionall	-			
1/ 1/ 120	(B11.2) Protection is required: <b>Yes</b>	y occupied works			
	The contractor shall conduct an as b	uilt survey			
	(photographic and written) prior to c works. All damage caused by the Co the contract shall be rectified at the cost.	ommencing ontractor during			
	F: V: T:		Item		
1/1/127	12.1.21 Disturbance (B11.5)				
	F: V: T:		ltem		
1/1/128	Post tender information (B12.2)				
	F: V: T:		ltem		
1/1/129	12.2.1 Payment of preliminaries Alternative selected: (A or B)				
	F: V: T:		ltem		
1/1/130	12.2.2 Adjustment of preliminaries Alternative selected: (A or B)				
	F:V:		ltem		
	1		lieni		
1/1/131	12.2.3 Additional agreed preliminaries				
	F:V:				
			ltem		
		Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL				
	Bill No. 1				
	Preliminaries and General				

	Brought Forward		R	
	SECTION C: SPECIFIC PRELIMINARIES			
1/1/132	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: T:	ltem		
1/1/133	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: T:	Item		
	Carried Forward Section No. 1 PRELIMINARIES AND GENERAL		R	
	Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/134	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: T:	ltem		
1/1/135	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:	ltom		
		Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Braimparian and Canaral			
	Preliminaries and General			

	Brought Forward		R	
1/1/136	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: T:	ltem		
1/1/137	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: T:	ltem		
1/1/138	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: T:	ltem		
1/1/139	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: T:	ltem		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/140	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:	Item		
1/1/141	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		
1/1/142	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	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

ltem 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.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1			
	Earthworks			

	Brought Forward			R	_
	SITE CLEARANCE ETC				
	Site clearance				
2/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	165		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
2/1/2	Trenches	m3	54		
2/1/3	Holes	m3	60		
	Extra over excavations in earth to trenches and holes for				
2/1/4	Excavation in soft rock	m3	11		
2/1/5	Excavation in hard rock	m3	6		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
2/1/6	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	80		
	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.				
2/1/7	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	89		
	Carried Forward Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			R	
	Bill No. 1 Earthworks				

	Brought Forward			R		
	RISK OF COLLAPSE OF EXCAVATIONS					
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep					
2/1/8	Trenches and holes	m2	233			
	KEEPING EXCAVATIONS FREE FROM WATER					
2/1/9	Keeping excavations free of all water other than subterranean water		ltem			
	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					
2/1/10	Backfilling to trenches, holes, etc	m3	27			
2/1/11	Under floors, steps, pavings, etc	m3	68			
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick					
2/1/12	Backfilling to trenches, holes, etc	m3	8			
2/1/13	Under floors, steps, pavings, etc	m3	10			
	Filling supplied by the Contractor under floors, trenches, etc.					
2/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	12			
	COMPACTION OF SURFACES					
2/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	177			
	Carried Forward			R		
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks					

	Brought Forward			R		
	<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>					
	Protection against termites, ants, etc					
2/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	148			
2/1/17	To bottom and sides of excavated trenches, Holes, etc.	m2	317			
	Carried Forward to Summary of Section No. Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 1 Earthworks			R		
I		l			l	I

tem 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.			
	<u>Cost of tests</u>			
	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)			
	<u>Formwork</u>			
	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.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2 Concrete, Formwork and Reinforcement			

Brought Forward	R	-
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.		
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.     Papels shall be as large as practicable and		
<ul> <li>Panels shall be as large as practicable and arranged in a regular pattern as a feature of the</li> </ul>		
surface		
<ul> <li>Formwork tie holes: to the approval of the</li> </ul>		
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.		
Carried Forward	R	
Section No. 2		
4 SEATER ENVIROLOO TOILET BLOCK X 3		
Bill No. 2		
Concrete, Formwork and Reinforcement		

GENERAL NOTES TO TENDERERS       Image: Constrain totes, described in Bill No.1, shall equally apply to this Bill.         UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES       Image: Constraint of the second	
to this Bill.   UNREINFORCED CONCRETE CAST AGAINST   EXCAVATED SURFACES   15Mpa/19mm concrete   2/2/1   Blinding   REINFORCED CONCRETE CAST AGAINST   EXCAVATED SURFACE   2/2/2   Strip footings   m3   13   REINFORCED CONCRETE CAST AGAINST   EXCAVATED SURFACE   2/2/2   Strip footings   m3   13   REINFORCED CONCRETE CAST IN FORMWORK   20Mpa/19mm concrete   2/2/3   Concrete Apron cast to fall etc,   m3   2/2/4   Surface beds cast in panels   m3   12   2/2/5   Slabs including beams and inverted beams   m3   m3   m4   m3   m4   m4   m5   m5   m6   m7   m8   m8   m9	
EXCAVATED SURFACES15Mpa/19mm concrete2/2/1BindingBindingREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE25MPa/19mm Concrete25MPa/19mm ConcreteStrip footingsBinding20Mpa/19mm concrete20Mpa/19mm concr	
22/1Bindingm33BindingREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE	
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE       Image: Contract of the second s	
EXCAVATED SURFACE25MPa/19mm Concrete2/2/2Strip footingsREINFORCED CONCRETE CAST IN FORMWORK20Mpa/19mm concrete2/2/3Concrete Apron cast to fall etc,m3725MPa/19mm Concrete2/2/4Surface beds cast in panelsm3m3m4TEST BLOCKSNotes:	
2/2/2Strip footingsm313REINFORCED CONCRETE CAST IN FORMWORKIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
REINFORCED CONCRETE CAST IN FORMWORK       Image: Concrete Cast IN FORMWORK         2/2/3       20Mpa/19mm concrete         2/2/3       Concrete Apron cast to fall etc,         2/2/4       Surface beds cast in panels         2/2/5       Slabs including beams and inverted beams         7/2/5       Slabs including beams and inverted beams         7/2/4       Notes:	
FORMWORK20Mpa/19mm concrete2/2/3Concrete Apron cast to fall etc,m3725MPa/19mm Concrete2/2/4Surface beds cast in panelsm312Slabs including beams and inverted beamsm33TEST BLOCKSNotes:	
2/2/3Concrete Apron cast to fall etc,m3725MPa/19mm Concrete102/2/4Surface beds cast in panelsm3122/2/5Slabs including beams and inverted beamsm33TEST BLOCKS11Notes:11	
25MPa/19mm Concrete       12         2/2/4       Surface beds cast in panels       m3         2/2/5       Slabs including beams and inverted beams       m3         TEST BLOCKS       1         Notes:       1	
2/2/4Surface beds cast in panelsm3122/2/5Slabs including beams and inverted beamsm33TEST BLOCKSNotes:I	
2/2/5 Slabs including beams and inverted beams m3 3 TEST BLOCKS Notes:	
TEST BLOCKS       Notes:	
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)	
2/2/6Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)No16	
Carried Forward R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2 Concrete, Formwork and Reinforcement	

	Brought Forward			R	Τ
	SUNDRIES TO CONCRETE				
	Surface treatment				
2/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	179		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
2/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	208		
	Rough formwork to soffits				
2/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	31		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
2/2/10	10mm soft board or similar approved between concrete and brick wall	m	101		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
2/2/11	All diameter bars	t	1		
	Fabric reinforcement:				
2/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	81		
					+
	<b>Carried Forward to Summary of Section No.</b> Section No. 2			R	<u> </u>
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 2				
	Concrete, Formwork and Reinforcement				

ltem 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			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry			

	Brought Forward	[	[	R	
	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				
	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	58		
	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	312		
2/3/3	Half brick wall	m2	33		
2/3/4	Half brick wall, in beamfilling	m2	18		
	<u>Mass brickwork in regular piers of NFP brick in</u> <u>class II mortar laid in stretcher bond</u>				
2/3/5	340 x 230mm Brick Piers	m3	1		
2/3/6	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				
2/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	115		
	Carried Forward Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry			R	

	Brought Forward			R		
2/3/8	Extra over brickwork for face brickwork in superstructure	m2	257			
2/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	11			
2/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	6			
2/3/11	Extra over brickwork for face brickwork to piers	m2	40			
2/3/12	Extra over brickwork for face brickwork in beamfilling	m2	18			
	BRICKWORK SUNDRIES					
	Brickwork reinforcement					
2/3/13	75mm Wide reinforcement built in horizontally	m	98			
2/3/14	150mm Wide reinforcement built in horizontally.	m	1 267			
	<u>"Allied concrete" or similar approved prestressed</u> fabricated lintels					
2/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	10			
2/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	35			
	Turning pieces					
2/3/17	110mm Wide turning piece to flat brick lintels	m	32			
	<u>Air bricks etc</u>					
2/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	6			
	Roof ties					
2/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	58			
	Carried Forward			R		—
	Section No. 2					
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonry					

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
2/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m	2 11		
	Carried Forward to Summary of Section No.		R	
	Section No. 2			-
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 3 Masonny			
	Masonry C4 2/12			

ltem 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				
	<u>One layer of 375 micron "Consol Plastic Brikgrip</u> <u>DPC" embossed damp proof course</u>				
2/4/1	Under walls	m2	4		
2/4/2	Under cills, etc.	m2	1		
	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	148		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
2/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	101		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 4				
	Waterproofing				

ltem 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	121		
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	17		
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	30		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 5 Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	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	121		
	Carried Forward to Summary of Section No. Section No. 2		R	
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 5 Roof Coverings			
	C4 2/15			]

ltem 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			
	<u>Timber</u>			
	All softwood to be South African Pine			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6			
	Carpentry and Joinery			

Brought Forward	R	
Descriptions		
Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.		
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.		
Carried Forward	R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	
	ROOFS, ETC				
	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	101		
	Sawn softwood				
2/6/2	38 x 114mm Wall plates	m	70		
	<u>Sundries</u>				
2/6/3	Two coats creosote on sawn timbers	m2	26		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"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	69		
	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	12		
2/6/6	914 x 2032mm single door	No	6		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
2/6/7	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	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 6 Carpentry and Joinery				

m D		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.			
	<u>Fixing</u>			
	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			
			-	
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	Τ
	Proprietary suspended ceilings				
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				
	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				
	<u>6mm "Everite Nutec" Fibre-cement boards, jointed</u> 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	51		
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
2/7/2	75mm Coved cornice, plugged to brickwork	m	114		
	Carried Forward			R	$\top$
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3				
	Bill No. 7 Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	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	6		
	CEILING INSULATION				
	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	51		
	Carried Forward to Summary of Section No. Section No. 2			R	
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 7				
	Ceilings, Partitions and Access Flooring				

ltem 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 Section No. 2		R	
	4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery			

			T		<del></del>
	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 bronze AG 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.				
	DOOR FURNITURE				
	Similar Approved				
	Handles				
2/8/1	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	12		
	Locks				
2/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	12		
2/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	6		
2/8/4	SC 150mm Cabin hook (Code: CH 150)	No	6		
2/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	12.0		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery				

	Brought Forward	I		R	
	Kick and push plates				
2/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	36		
2/8/7	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	12		
	Panic hardware				
2/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
2/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	<u>Sundries</u>				
2/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	12.0		
2/8/11	SS Hat and coat hook with rubber buffer (Code: DHC- SS-031B)	No	12		
	SUNDRIES				
	Approved				
2/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	30		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 8 Ironmongery				

n		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.			
	<u>SPECIFICATIONS</u>			
	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.			
			-	
	Carried Forward Section No. 2		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork			

Brought Forward	R	
Actuators		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
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.		
Carried Forward	R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork		

Brought Forward	R	
After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.		
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.		
<u>Cleaning:</u>		
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		
Carried Forward	R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9		

	Brought Forward			R	
	WELDED SCREENS, GATES, ETC.				
	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	6		
	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				
2/9/2	813 x 2032mm single door	No	12		
	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				
2/9/3	914 x 2032mm single door	No	6		
	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				
2/9/4	Window size 533 x 950mm high	No	12		
	<b>Carried Forward to Summary of Section No.</b> Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 9 Metalwork			R	

ltem No			Quantity	Rate	Amount
	<u>BILL NO. 10</u>				
	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.				
	<u>SCREEDS</u>				
	<u>1:4 Cement sand screed on concrete, worked down</u> to a true and even surface with a steel trowel				
2/10/1	30mm Thick on floors and landings	m2	80		
2/10/2	30mm Thick to falls and currents	m2	8		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
2/10/3	On brick walls	m2	281		
2/10/4	On narrow widths	m2	28		
	<u>CORNER PROTECTORS, DIVIDING STRIPS,</u> <u>ETC</u>				
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	5		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 10 Plastering				

	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.			
<u>Fixing</u>			
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.			
<u>Wastage</u>			
Tile wastage in excess of 10% will be for the tenderer's account.			
Carried Forward		R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 11 Tiling			
		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.         Prices         Prices are to included for the following: Cutting, handling, labour, adhesive etc.         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 nereby 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 that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.         Matter Busiles       Earried Forward         Section No. 2       4 SEATE ENVIROLOO TOLLET BLOCK X 3	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.         Prices are to included for the following: Cutting, handling, labour, adhesive etc.         Film         Triding         Prices are to included for the following: Cutting, handling, labour, adhesive etc.         Extind         Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved liling 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 that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.         Matsage in excess of 10% will be for the tenderer's account.       R         Section No. 2       4 SEATER ENVIROLOO TOLET BLOCK X 3

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	<u>Note</u>				
	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				
2/11/1	Plastered walls	m2	167		
2/11/2	On narrow widths	m2	17		
2/11/3	Splash backs	m2	2		
	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				
2/11/4	On floors	m2	88		
2/11/5	75mm high skirting	m	219		
	ATTIC STOCK				
2/11/6	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	17		
2/11/7	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	9		
	Carried Forward Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 11			R	
	Tiling				

	Brought Forward		R		
	SUNDRIES				
	10mm aluminium straight edge trim				
2/11/8	Dividing strip between tiles and door frames m	5			
	Carried Forward to Summary of Section No.		R		
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3				
	Bill No. 11 Tiling				
	C4 2/33	I		I	

ltem No		Quantity	Rate	Amount
	BILL NO. 12			
	<u>PLUMBING AND DRAINAGE</u> (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.			
	Carried Forward		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12			
	Plumbing and Drainage			

	Brought Forward			R	
	Laying, backfilling, bedding, etc., of pipes:				
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<u>Gutters</u>				
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	69		
2/12/2	Extra over eaves gutter for stopped end	No	24		
2/12/3	Extra over eaves gutter for corner	No	52		
2/12/4	Extra over eaves gutter for outlet	No	12		
	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	42		
2/12/6	Extra over downpipe for offset	No	24		
2/12/7	Extra over downpipe for shoe	No	12		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage				

Brought Forward     R       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     No     6       2/12/8     WHB, installed complete     No     6       WATER CLOSET     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     12	
Similar ApprovedYaal 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 fixing2/12/8WHB, installed completeNo6WATER CLOSET Similar ApprovedSimilar ApprovedVaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixingNo2/12/9WC, installed completeNo12	
2/12/8WAI 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 fixingNo62/12/8WHB, installed completeNo6WATER CLOSET Similar ApprovedSimilar ApprovedVaal 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 fixingNo122/12/9WC, installed completeNo12	
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 fixing2/12/8WHB, installed completeNo6WATER CLOSET Similar ApprovedSimilar Approved4Vaal 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 fixing122/12/9WC, installed completeNo12	
WATER CLOSET         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         2/12/9         WC, installed complete	
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         2/12/9         WC, installed complete	
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 fixingNo122/12/9WC, installed completeNo12	
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 fixingNo122/12/9WC, installed completeNo12	
CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)	
2/12/1032mm Basin waste unionNo6	
TOILET ROLL HOLDER	
To be approved by Architect	
2/12/11 130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls No 12	
Carried Forward R	
Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 12 Plumbing and Drainage	

	Brought Forward			R	
	SOAP DISPENSER				
	To be approved by Architect				
2/12/12	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	2		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
2/12/13	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	2		
	TAPS, VALVES, ETC				
	Similar Approved				
2/12/14	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	6		
	TESTING				
2/12/15	Testing water pipe system		ltem		
	BUDGETARY ALLOWANCE				
2/12/16	Allow an amount of R322 200.00 (Three Hundred and Twenty Two Thousand Two Hundred) for the supply and installation of Sanitary Fitting Sundries		Item		322 200.00
2/12/17	Allow an amount of R200 000.00 (Two Hundred Thousand) for the supply and installation of Enviro-loo				
	complete		ltem		200 000.00
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3				
	Bill No. 12 Plumbing and Drainage				
		I		I	

ltem No			Quantity	Rate	Amount
	BILL NO. 13				
	<u>GLAZING</u>				
	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				
2/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	6		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
2/13/2	Mirror 400 x 600 mm high	No	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3				
	Bill No. 13 Glazing				

ltem 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	62		
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
2/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	6		
	Carried Forward			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 14				
	Paintwork				

	Brought Forward	Ī		R	—
	Brought Forward			N	
	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				
2/14/4	Plastered walls	m2	281		
	METAL SURFACES				
	<u>Prepare and apply one coat Duraphos, one coat</u> <u>universal under coat and two coats gloss enamel</u> paint, colour to be confirmed by architect				
2/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	23		
2/14/6	On window frames	m2	6		
2/14/7	On door frames	m2	38		
2/14/8	On gutters	m	69		
2/14/9	On downpipes	m	43		
	Prepare and apply one coat Merit universal undercoat and two coats gloss enamel paint, colour to be confirmed by architect				
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
2/14/10	On door	m2	84		
	Prepare and paint three coats clear varnish:				
2/14/11	On door	m2	20		
	Carried Forward to Summary of Section No.			R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3 Bill No. 14 Paintwork				-

	SECTION SUMMARY			
Bill No		Page No		Amount
2/1	Earthworks	2/4		
2/2	Concrete, Formwork and Reinforcement	2/8		
2/3	Masonry	2/12		
2/4	Waterproofing	2/13		
2/5	Roof Coverings	2/15		
2/6	Carpentry and Joinery	2/19		
2/7	Ceilings, Partitions and Access Flooring	2/22		
2/8	Ironmongery	2/25		
2/9	Metalwork	2/29		
2/10	Plastering	2/30		
2/11	Tiling	2/33		
2/12	Plumbing and Drainage	2/37		
2/13	Glazing	2/38		
2/14	Paintwork	2/40		
	Carried to Final Summary		R	
	Section No. 2 4 SEATER ENVIROLOO TOILET BLOCK X 3			
			I	

ltem No		Qu	uantity	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.				
	<u>NOTES</u>				
	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				
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	435		
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK			R	
	Bill No. 1 Earthworks				

		Brought Forward			R	
	EXCAVATIONS					
	Excavation in earth not exceeding 2m	n deep				
3/1/2	Trenches		m3	109		
	Extra over excavations in earth to tre holes for	nches and				
3/1/3	Excavation in soft rock		m3	11		
3/1/4	Excavation in hard rock		m3	5		
	CARTING AWAY OF EXCAVATED	MATERIAL				
	Note:					
	Description of carting away of excavated be deemed to include loading excavated trucks directly from the excavations or , from stock piles situated on the building	d material onto alternatively,				
3/1/5	Extra over all excavation for carting awa material from excavation and / or stockp dumping site to be located by the Contra	oile on site to a	m3	62		
	RISK OF COLLAPSE OF EXCAVA	TIONS				
	Risk of collapse to side of excavation exceeding 1,5m deep	<u>n in earth not</u>				
3/1/6	Trenches and holes		m2	335		
	KEEPING EXCAVATIONS FREE F	ROM WATER				
3/1/7	Keeping excavations free of all water ot subterranean water	her than		ltem		
	FILLING, ETC.					
	Earth filling obtained from the excava prescribed stock piles on site compa Mod AASHTO density in layers not ex 150mm thick	cted to 93%				
3/1/8	Backfilling to trenches, holes, etc		m3	53		
3/1/9	Under floors, steps, pavings, etc		m3	237		
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks	Carried Forward			R	

	Brought Forward			R	
	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	16		
3/1/11	Under floors, steps, pavings, etc	m3	46		
	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	46		
	COMPACTION OF SURFACES				
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	484		
	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	484		
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	444		
	Carried Forward to Summary of Section No. Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks			R	

n		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)			
	<u>Formwork</u>			
	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 Section No. 3		R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

				D	r	<b>—</b>
	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:-					
	<ul> <li>Degree of accuracy: I</li> <li>Finish: Smooth and even</li> <li>Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>Steel faced formwork. Joints grout-tight.</li> <li>Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>Formwork tie holes: to the approval of the architect</li> <li>Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> </ul>					
	<ul> <li>Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul>					
	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	5			
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 2			R		
	Concrete, Formwork and Reinforcement					

	Brought Forward			R	
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
3/2/2	Strip footings	m3	27		
	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	40		
3/2/5	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)				
3/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	42		
	SUNDRIES TO CONCRETE				
	Surface treatment				
3/2/7	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				
3/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	277		
	Rough formwork to soffits				
3/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	5		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
3/2/10	3 x 30mm In saw cut joints in floors	m	19		
	Expansion joints				
3/2/11	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				
3/2/12	All diameter bars	t	2		
	Fabric reinforcement:				
3/2/13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	305		
	Carried Forward to Summary of Section No.			R	
	Section No. 3				
	MEDIUM ADMINISTRATION BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				
	l	I		l	I I

ltem 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			
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 3		R	
	Masonry			

	Brought Forward			R	
	BRICKWORK IN FOUNDATION				1
	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	126		1
	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	377		
3/3/3	Half brick wall	m2	127		I
3/3/4	Half brick wall, in beamfilling	m2	14		I
	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	1		I
3/3/6	360 x 230mm Brick Piers	m3	1		1
	FACE BRICKWORK				1
	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	252		
3/3/8	Extra over brickwork for face brickwork in superstructure	m2	256		I
3/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	41		
3/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	32		
3/3/11	Extra over brickwork for face brickwork to piers	m2	27		1
3/3/12	Extra over brickwork for face brickwork in beamfilling	m2	14		1
					1
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			R	

	Brought Forward			R	
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
3/3/13	75mm Wide reinforcement built in horizontally	m	374		
3/3/14	150mm Wide reinforcement built in horizontally.	m	1 857		
	"Allied concrete" or similar approved prestressed fabricated lintels				
3/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	43		
3/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	33		
	Turning pieces				
3/3/17	110mm Wide turning piece to flat brick lintels	m	57		
	<u>Air bricks etc</u>				
3/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	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	76		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
3/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	18		
	Carried Forward to Summary of Section No. Section No. 3			R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 3				
	Masonry				

tem 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				
	<u>One layer of 375 micron "Consol Plastic Brikgrip</u> <u>DPC" embossed damp proof course</u>				
3/4/1	Under walls	m2	3		
3/4/2	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				
3/4/3	Under surface beds.	m2	484		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
3/4/4	3 x 30mm In saw cut joints in floors	m	19		
3/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No. Section No. 3 MEDIUM ADMINISTRATION BLOCK			R	
	Bill No. 4 Waterproofing				

ltem 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				
	<u>0.6mm thick "Brownbuilt Klip-lok light Industrial"</u> 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	441		
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	25		
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	39		
3/5/4	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	9		
	Carried Forward Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 5 Roof Coverings			R	

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
3/5/5	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	
	Carried Forward to Summary of Section No. Section No. 3 MEDIUM ADMINISTRATION BLOCK		K	
	Bill No. 5 Roof Coverings			
	C4 3/13			

ltem 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	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery			

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.		
Carried Forward	R	
Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	Ι
	ROOFS, ETC				
	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	367		
	Sawn softwood				
3/6/2	38 x 114mm Wall plates	m	92		
	<u>Sundries</u>				
3/6/3	Two coats creosote on sawn timbers	m2	34		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6				
	Carpentry and Joinery				

	Brought Forward			R	<u>г</u>	
	Brought Forward					
	Similar Approved					
	"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	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					
3/6/5	914 x 2032mm single door	No	11			
3/6/6	1500 x 2400mm double door	No	2			
	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	32			
	Conviod Economic to Comparison of Continue No.			5		
	Carried Forward to Summary of Section No. Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery			R		

ltem No		Quantity	Rate	Amount
110	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	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	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				
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	284		
	CORNICES				
	"Rhino" plasterboard cornice				
3/7/2	75mm Coved cornice, plugged to brickwork	m	254		
	<u>SUNDRIES</u>				
	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	2		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring				

Brought Forward			R	
CEILING INSULATION				
Insulation				
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. 3 MEDIUM ADMINISTRATION BLOCK				
Bill No. 7 Ceilings, Partitions and Access Flooring				
C4.3/20	I			l

ı		G	Quantity	Rate	Amount
	BILL NO. 8				
	IRONMONGERY				
	PREAMBLES				
	NOTE : The tenderer is referred to the releva in the Model Preambles for Trades (2008 Edi issued by the Association of South African Qu Surveyors before pricing this bill.	tion) as			
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in I shall equally apply to this bill.	Bill No. 1,			
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall ec to this Bill.	qually apply			
	Where ironmongery is described as plugged, to include for screwing to and including appro- plugs in concrete or brickwork with plaster or etc.	ved patent			
	Proprietary items				
	Where applicable the manufacturers' names of catalogue titles are given in sub-headings pre- items				
	Prices are to be based on the specific product specified. If tenderers wish to offer alternative products/articles for certain items, these items clearly marked and the alternative specification with supporting brochures etc clarifying the fer the products/articles offered	e s are to be on given			
	On request returnable samples are to be prov principal agent for consideration	rided to the			
	Carr	ied Forward		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 8				
	Ironmongery				

	Draught Farmand		[]	R	<b>I</b> 1
	Brought Forward			ĸ	
	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.				
	DOOR FURNITURE				
	Similar Approved				
	Handles				
3/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)				
		Sets	2.0		
3/8/2	SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300)	No	11		
	Locks				
3/8/3	SS Cylinder sash lock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset and 61mm centre (Code: D036S SS)	No	2		
3/8/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	11		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	
3/8/5	SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)	No	2		
3/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	11		
3/8/7	NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)	No	2		
3/8/8	SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)	No	2		
3/8/9	SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)	No	2		
3/8/10	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
3/8/11	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	30		
3/8/12	SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300)	No	11		
	Door closers				
3/8/13	Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B)	No	11		
	Sundries				
3/8/14	Male / Female fixing screws (Qty 4 per pack)	Sets	11.0		
3/8/15	NP floor mounted Door stop (Code: DDS-NP-018)	No	11		
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	Approved				
3/8/16	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	5		
	Carried Forward			R	
	MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

	Brought Forward		R		
	SUNDRIES				1
	Approved				1
3/8/17	"CZ8730SC" Door stop or similarly approved to wall or floors No	26			
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	Carried Forward to Summary of Section No.		R		
	Section No. 3 MEDIUM ADMINISTRATION BLOCK				
	Bill No. 8 Ironmongery				1
	C4.3/24	I			

n		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.			
	<u>Ironmongery</u>			
	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	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			

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 MEDIUM ADMINISTRATION BLOCK Bill No. 9		

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.		
<u>Cleaning:</u>		
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		
Carried Forward	R	
Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork		

	Brought Forward		I	R	
	, C				
	WELDED SCREENS, GATES, ETC.				
	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				
	<u>two 50 x 50 x 2.5mm horizontal sections, with 12 x</u> 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 1500mm x 2400mm high	No	2		
	PRESSED STEEL DOOR FRAMES				
	<u>1.2mm thick Single rebated frame suitable for half</u> brick walls, complete with lugs and base ties, with				
	red oxide primer factory finish by manufacturer				
3/9/2	914 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				
3/9/3	914 x 2032mm single door	No	1		
3/9/4	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,				
	<u>2x7- lever security keylock, non-deteriorating</u> insulation material, rust proof undercoat for final				
	painting by contractors, weight- 630 kg				
3/9/5	Door size 813 x 2032mm	No	1		
	WINDOWS EDAMES ato	NO	1		
	WINDOWS FRAMES, etc.				
	Carried Forward				
	Section No. 3			R	
	MEDIUM ADMINISTRATION BLOCK				
	Bill No. 9 Metalwork				

			I		
	Brought Forward			R	
	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				
3/9/6	Window size 1022 x 900mm high	No	3		
3/9/7	Window size 1022 x 949mm high	No	3		
3/9/8	Window size 2000 x 1170mm high	No	1		
3/9/9	Window size 533 x 950mm high	No	5		
3/9/10	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				
3/9/11	Size 1500mm x 2100mm	No	2		
	MESH IN CEILING VOIDS				
	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.				
3/9/12	In Ceiling voids	m2	284		
	FLAG POST				
3/9/13	2 x 15m high flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases		Item		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork				

ltem 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.				
	<u>SCREEDS</u>				
	<u>1:4 Cement sand screed on concrete, worked down</u> to a true and even surface with a steel trowel				
3/10/1	30mm Thick on floors and landings	m2	581		
3/10/2	30mm Thick to falls and currents	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
3/10/3	On brick walls	m2	692		
3/10/4	On narrow widths	m2	69		
	<u>CORNER PROTECTORS, DIVIDING STRIPS,</u> <u>ETC</u>				
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	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 10 Plastering				

n		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	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling			

	Brought Forward			R	
	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	162		
3/11/2	On narrow widths	m2	16		
3/11/3	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				
3/11/4	On floors	m2	408		
3/11/5	75mm high skirting	m	372		
	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	16		
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	41		
	SUNDRIES				
	10mm aluminium straight edge trim				
3/11/8	Dividing strip between tiles and door frames	m	9		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling				
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ltem No		Quantity	Rate	Amount
	SECTION NO. 3			
	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	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			

	Brou	ught Forward		R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall e to this Bill.	equally apply			
	RAINWATER GOODS				
	Similar Approved				
	<u>Gutters</u>				
3/12/1	100 x 100 x 0.6mm thick Ogee profile eaves aluminium box gutter, fixed with and includin clips to fascia boards		94		
3/12/2	Extra over eaves gutter for stopped end	No	22		
3/12/3	Extra over eaves gutter for corner	No	48		
3/12/4	Extra over eaves gutter for outlet	No	11		
	Rainwater downpipes				
3/12/5	100mm diameter x 0.6mm thick rainwater do Chromadek finish (Colour: TBC), fixed with a including brackets to wall face, with brackets per manufacturer's recommendations, and w downpipes spaced as per engineer's specific	and spaced as vith	38		
3/12/6	Extra over downpipe for offset	No	22		
3/12/7	Extra over downpipe for shoe	No	11		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full de abbreviations	escription of			
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreous ch with three semi-punched holes tap holes, integrated overflow, including chain stay through the centre semi-punched tap hole with plug and chain, hung to walls (PC all R450.00/no excludes V.A.T. but includes site), includes waste, supply and fixing	<u>including</u> <u>hole</u> e, supplied lowance of			
3/12/8	WHB, installed complete	No	3		
	Car Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage	ried Forward		R	

	Brought Forward			R	
	WATER CLOSET				
	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	2		
	<u>SINKS, etc.</u>				
	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				
3/12/10	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				
3/12/11	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				
3/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	3		
3/12/13	15mm Cobra Watertech chrome plated single tap hole				
	Sink mixer with overarm swivel sprout (Code: 3396ST)	No	1		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			ĸ	

	Brought Forward			R	
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
3/12/14	9kg dry chemical powder fire extinguisher	No	4		
3/12/15	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2		
	TESTING				
3/12/16	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
3/12/17	Allow an amount of R72 500.00 (Seventy Two Thousand Five Hundred) for the supply and installation of Sanitary Fitting Sundries		ltem		72 500.00
	Carried Forward to Summary of Section No.			R	
	Section No. 3			N	
	MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage				
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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         Smm clear floated glass fixed glazing putty         3/13/1         Panes not exceeding 0.1m2       m2         Grin obscure floated glass fixed glazing putty         3/13/2         Panes exceeding 0.5m2 and not exceeding 2.0m2       m2         TOPS, SHELVES, DOORS, MIRROR ETC         6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved         3/13/3       Mirror 400 x 600 mm high       No	em No		Quantity	Rate	Amount
PREAMBLESNOTE : 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 PREAMBLESSupplementary preamble items described in Bill No. 1, shall equally apply to this Bill.GENERAL NOTES TO TENDERERSGeneral 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 0400GLASS TO STEEL WITH PUTTY Smm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2mm obscure floated glass fixed glazing putty3/13/2Panes not exceeding 0.5m2 and not exceeding 2.0m2mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	E	BILL NO. 13			
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 0400GLASS TO STEEL WITH PUTTY Smm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2m23/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Panes exceeding 0.5m2 a	<u>c</u>	<u>GLAZING</u>			
in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.SUPPLEMENTARY PREAMBLESSupplementary preamble items described in Bill No. 1, shall equally apply to this Bill.GENERAL NOTES TO TENDERERSGeneral 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 0400GLASS TO STEEL WITH PUTTY Smm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2mobscure floated glass fixed glazing putty3/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m2Simm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	<u> </u>	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.       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       Smm clear floated glass fixed glazing putty         3/13/1       Panes not exceeding 0.1m2       m2       33         Smm obscure floated glass fixed glazing putty       m2       3         3/13/2       Panes exceeding 0.5m2 and not exceeding 2.0m2       m2       3         TOPS, SHELVES, DOORS, MIRROR ETC       Smm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved       m2       3	ir is	in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity			
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 3/13/1 Panes not exceeding 0.1m2 m2 33 6mm obscure floated glass fixed glazing putty 3/13/2 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	<u>s</u>	SUPPLEMENTARY PREAMBLES			
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 3/13/1 Panes not exceeding 0.1m2 m2 33 6mm obscure floated glass fixed glazing putty 3/13/2 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					
apply to this Bill.Note:Note:All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400GLASS TO STEEL WITH PUTTY Smm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2mm obscure floated glass fixed glazing putty3/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	G	GENERAL NOTES TO TENDERERS			
All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400GLASS TO STEEL WITH PUTTY 5mm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2m23/13/2Panes not exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2TOPS, SHELVES, DOORS, MIRROR ETC 6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approvedm2					
and ventilation to comply with Part O if NBR 0400GLASS TO STEEL WITH PUTTY5mm clear floated glass fixed glazing putty3/13/1Panes not exceeding 0.1m2m233/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Gmm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	<u>N</u>	Note:			
Simm clear floated glass fixed glazing puttym23/13/1Panes not exceeding 0.1m2m26mm obscure floated glass fixed glazing putty339anes exceeding 0.5m2 and not exceeding 2.0m2m23/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m2TOPS, SHELVES, DOORS, MIRROR ETC5mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved4					
3/13/1Panes not exceeding 0.1m2m2336mm obscure floated glass fixed glazing puttym2333/13/2Panes exceeding 0.5m2 and not exceeding 2.0m2m23TOPS, SHELVES, DOORS, MIRROR ETC5mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved1	<u>G</u>	GLASS TO STEEL WITH PUTTY			
3/13/2       Gmm obscure floated glass fixed glazing putty         3/13/2       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       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glass mirrors with square plate float glass or similarly approved       Image: Comparison of the square plate float glass mirrors with square plate float glate float glass mirrors	5	5mm clear floated glass fixed glazing putty			
3/13/2       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	/13/1 P	Panes not exceeding 0.1m2 n	12 33	;	
TOPS, SHELVES, DOORS, MIRROR ETC 6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	<u>6</u>	6mm obscure floated glass fixed glazing putty			
6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved	/13/2 P	Panes exceeding 0.5m2 and not exceeding 2.0m2	12 3		
polished edges plugged with chrome plated detachable screws or similarly approved	Ī	TOPS, SHELVES, DOORS, MIRROR ETC			
3/13/3       Mirror 400 x 600 mm high       No       3	p	polished edges plugged with chrome plated			
	/13/3 N	Mirror 400 x 600 mm high	lo 3		
Carried Forward to Summary of Section No. R Section No. 3		-		R	
MEDIUM ADMINISTRATION BLOCK Bill No. 13 Glazing	M B	MEDIUM ADMINISTRATION BLOCK Bill No. 13			

ltem 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	305		
3/14/2	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				
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	32		
	Carried Forward			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK BIII No. 14				
	Paintwork				

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	Brought Forward			R	
	FLOATED PLASTER INTERNAL WALLS				
	<u>Prepare and apply one coat merit universal</u> <u>undercoat and two coats Super Acrylic PVA paint or</u> <u>similar approved, colour to be confirmed by</u> <u>architect</u>				
3/14/4	Plastered walls	m2	692		
	METAL SURFACES				
	<u>Prepare and apply one coat Duraphos, one coat</u> <u>universal under coat and two coats gloss enamel</u> <u>paint, colour to be confirmed by architect</u>				
3/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	29		
3/14/6	On window frames	m2	35		
3/14/7	On door frames	m2	34		
3/14/8	On gutters	m	94		
3/14/9	On downpipes	m	39		
	WOOD				
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>				
3/14/10	On door	m2	76		
	Prepare and paint three coats clear varnish:				
3/14/11	On door	m2	27		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK Bill No. 14 Paintwork				

	SECTION SUMMARY			
Bill No		Page No		Amount
3/1	Earthworks	3/3		
3/2	Concrete, Formwork and Reinforcement	3/7		
3/3	Masonry	3/10		
3/4	Waterproofing	3/11		
3/5	Roof Coverings	3/13		
3/6	Carpentry and Joinery	3/17		
3/7	Ceilings, Partitions and Access Flooring	3/20		
3/8	Ironmongery	3/24		
3/9	Metalwork	3/29		
3/10	Plastering	3/30		
3/11	Tiling	3/32		
3/12	Plumbing and Drainage	3/36		
3/13	Glazing	3/37		
3/14	Paintwork	3/39		
	Carried to Final Summary		R	
	Section No. 3 MEDIUM ADMINISTRATION BLOCK			
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ltem No		Qı	antity	Rate	Amount
	SECTION NO. 4				
	<u>BILL NO. 1</u>				
	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.				
	<u>NOTES</u>				
	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				
	<u>Filling</u>				
	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	27		
	Extra over excavations in earth to trenches and holes for				
4/1/2	Excavation in soft rock	m3	3		
	Carried Forward Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks			R	

	Brought Forward			R	
4/1/3	Excavation in hard rock	m3	1		
	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	16		
	<b>RISK OF COLLAPSE OF EXCAVATIONS</b>				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
4/1/5	Trenches and holes	m2	94		
	KEEPING EXCAVATIONS FREE FROM WATER				
4/1/6	Keeping excavations free of all water other than subterranean water		Item		
	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				
4/1/7	Backfilling to trenches, holes, etc	m3	12		
4/1/8	Under floors, steps, pavings, etc	m3	30		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/9	Backfilling to trenches, holes, etc	m3	4		
4/1/10	Under floors, steps, pavings, etc	m3	5		
	Filling supplied by the Contractor under floors, trenches, etc.				
4/1/11	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	5		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	COMPACTION OF SURFACES				
4/1/12	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	66		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
4/1/13	Under floors etc including forming and poisoning shallow				
1/1/10	furrows against foundation walls etc, filling in furrows and ramming	m2	66		
4/1/14	To bottom and sides of excavated trenches, Holes, etc.	m2	122		
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	Carried Forward to Summary of Section No.			R	 
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 1 Earthworks				1

ı		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)			
	<u>Formwork</u>			
	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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement			

	Brought Forward			R	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:-				
	<ul> <li>Degree of accuracy: I</li> <li>Finish: Smooth and even</li> <li>Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>Steel faced formwork. Joints grout-tight.</li> <li>Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>Formwork tie holes: to the approval of the architect</li> <li>Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance</li> </ul>				
	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	1		
	Carried Forward			R	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
4/2/2	Strip footings	m3	7		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
4/2/3	Concrete Apron cast to fall etc,	m3	3		
	25MPa/19mm Concrete				
4/2/4	Surface beds cast in panels	m3	4		
	TEST BLOCKS				
	<u>Notes:</u>				
	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)				
4/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	7		
	SUNDRIES TO CONCRETE				
	Surface treatment				
4/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	66		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
4/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	67		
	Rough formwork to soffits				
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/2/8	10mm soft board or similar approved between concrete and brick wall	m	33		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
4/2/9	All diameter bars	t	1		
	Fabric reinforcement:				
4/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	33		
					L
	Carried Forward to Summary of Section No.			R	 
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

em O		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			
			-	
	Carried Forward		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry			

	Brought Forward			R	
				-	
	BRICKWORK IN FOUNDATION 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	35		
	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	112		
4/3/3	Half brick wall	m2	34		
4/3/4	Half brick wall, in beamfilling	m2	5		
	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				
4/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	71		
4/3/6	Extra over brickwork for face brickwork in superstructure	m2	95		
4/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	6		
4/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	6		
4/3/9	Extra over brickwork for face brickwork in beamfilling	m2	5		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
4/3/10	75mm Wide reinforcement built in horizontally	m	98		
4/3/11	150mm Wide reinforcement built in horizontally.	m	536		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 3 Masonry				

	Brought Forward	[		R	
	<u>"Allied concrete" or similar approved prestressed</u>				
4/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	8		
4/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	7		
	Turning pieces				
4/3/14	110mm Wide turning piece to flat brick lintels	m	12		
	<u>Air bricks etc</u>				
4/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	3		
	Fair cutting to face brickwork				
4/3/16	Fair raking cutting at gables	m	35		
	Roof ties				
4/3/17	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	28		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/3/18	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 3 Masonry				
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ltem 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	1		
4/4/2	Under cills, etc.	m2	1		
	<u>One layer of 250 micron "USB Green" or similar</u> approved dampproof membrane sealed at laps with PVC self -adhesive tape				
4/4/3	Under surface beds.	m2	66		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
4/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	33		
	Carried Forward to Summary of Section No.			R	
	Section No. 4				
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 4				
	Waterproofing				

em 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				
	<u>0.6mm thick "Brownbuilt Klip-lok light Industrial"</u> 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	55		
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	9		
4/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	15		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 5 Roof Coverings				

	Brought Forward		R	
	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			
4/5/4	Steel triangular louvre, 1600 x 600mm high overall No	3		
	ROOF AND WALL INSULATION			
	Similar Approved			
	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	55		
	Carried Forward to Summary of Section No.		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 5 Boof Coverings			
	Roof Coverings			

ltem 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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6 Carpentry and Joinery			

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.		
Carried Forward	R	
Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	
	ROOFS, ETC				
	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				
6/1	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	46		
	Sawn softwood				
6/2	38 x 114mm Wall plates	m	33		
	<u>Sundries</u>				
6/3	Two coats creosote on sawn timbers	m2	12		
	Operated Forward				
	Carried Forward Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6			R	
	Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"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	35		
4/6/5	15 x 80 x 300mm fibre cement barge board	m	35		
1,0,0	DOORS ETC		00		
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
4/6/6	813 x 2032mm single door	No	6		
4/6/7	914 x 2032mm single 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	6		
	Carried Forward to Summary of Section No. Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 6			R	
	Carpentry and Joinery				

1		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.			
	<u>Fixing</u>			
	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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

Brought Forward			R	1	
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					
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	21			
CORNICES					
"Rhino" plasterboard cornice					
75mm Coved cornice, plugged to brickwork	m	23			
<u>SUNDRIES</u>					
Extra over for Trap Doors					
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			
Carried Forward Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R		
	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 Mith and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications 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 CORNICES Thino" plasterboard cornice 75mm Coved cornice, plugged to brickwork SUNDRIES Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood cross brander covered with ceiling board and fitted flush in opening Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 7	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 (celling panels have not been deducted and pricing is to take cognisance thereof)         Suspension systems         Where suspensions of cellings 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         Mm "Everite Nutec" Fibre-coment boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications         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         CORNICES         "Rhino" plasterboard cornice       75mm Coved cornice, plugged to brickwork       m         SUNDRIES       Extra over for Trap Doors       No         Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood cross brander covered with ceiling board and fitted flush in opening       No         Carried Forward	Where electrical light fittings, diffusers, panels et 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 3x 38nm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails         2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 3x 38nm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails         251         CORNICES         "Rhino" plasterboard cornice         75mm Coved comice, plugged to brickwork       m       23         SUNDRIES         Extra over for Trap Doors       Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood ross brander covered with ceiling board and fitted flush in opening       No       2          Carried Forward       Sect	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 thereor)         Suspension systems         Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for 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.         NALED UP CEILINGS         FIBRE - CEMENT BOARDS         Similar Approved         Smm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications         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       21         CORNICES       "Rhino" plasterboard cornice       m2       21         Type: Summ Softwood rebated framing, with one 38 x 38mm sawn softwood rebated framing, with one 38 x 38mm	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 (celling panels have not been deducted and pricing is to take cognisance thereof).         Suspension systems       Where suspensions of cellings require a sub-grid. The design of the sub-grid support is not specified, the tenderer is to totain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacture to the satisfaction of the structural engineer.         NALED UP CELINOSS       FIREL - CEMENT BOARDS         Similar Approved       Similar Approved         @mm "Everite Nutee": Fibre-cement boards, jointed with and including advanised H-type primed pressed steel jointing strings, including brandering as per architect's specifications       m2         2400 x 1200mm x fmm Horizontal cellings, fixed to and including 38 x 38mm sawn softwood brandering a maximum 400mm centres using 38mm long galvanised nais       m2       21         CORNICES       "Thino" plasterboard cornice       m2       21         Summ Coved cornice, plugged to brickwork       m       23         Summ sawn softwood cross brander covered with celling for 600 x 600mm trap door of 38 x 38mm sawn softwood cross brander covered with celling board and fitted flush in opening       No       2         Stra over celling for 600 x 600mm trap door of 38 x 38mm sawn softwood cross brander covered with celling board and fitted flush in opening       No       <

	Brought Forward			R	Γ
	CEILING INSULATION				
	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	21		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 7 Ceilings, Partitions and Access Flooring				
	C4 4/20				

ו		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 Section No. 4 6 SEATS WATERBORNE TOILET BLOCK		R	
	Bill No. 8 Ironmongery			

	Draught Eamward		<u> </u>	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 <u>Rates</u>				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	Handles				
4/8/1	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	6		
	Locks				
4/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	6		
4/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	3		
4/8/4	SC 150mm Cabin hook (Code: CH 150)	No	3		
4/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	6.0		
	Carried Forward Section No. 4			R	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 8				
	Ironmongery				ł

	Brought Forward			R	
	Kick and push plates				
4/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	18		
4/8/7	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	6		
	Panic hardware				
4/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	3.0		
4/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	3		
	<u>Sundries</u>				
4/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	6.0		
4/8/11	SS Hat and coat hook with rubber buffer (Code: DHC- SS-031B)	No	6		
	SUNDRIES				
	Approved				
4/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	6		
	Carried Forward to Summary of Section No.			R	—
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 8 Ironmongery				=

ו		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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9 Metalwork			

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. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 9		

	Brought Forward			R	
Fixing:					
of all aluminium elements properly securing the alun with and including all nece timber grounds and sub-fr holing and bolting, etc. Th spaced and securely fixed door frames, windows, etc	pecial note of all fixing details and must allow in his price for inium sections to the structure ssary steel brackets, rails, ames, including all necessary s fixing is to be adequately to ensure total stiffness of the . as no sagging causing windows and doors will be				
Deflection of structure:					
The contractor is advised for the design deflection o	to make adequate provision f the structure.				
<u>Tolerances:</u>					
	y and measurements on site cation. Due allowance must accordance with the				
Protection:					
the course of construction	ired to protect his work during which protection shall be and to the full approval of the				
Such protection shall only instruction from the Archite	be removed after a written ect.				
<u>Cleaning:</u>					
	t be accepted as clean glass low for polishing glass as and				
Note: All windows and do conjunction with window a					
PRESSED STEEL DOC	OR FRAMES				
	ted frame suitable for half th lugs and base ties, with finish by manufacturer				
1 813 x 2032mm single doo	r	No	6		
	Carried Forward			R	
Section No. 4 6 SEATS WATERBORNE Bill No. 9 Metalwork	TOILET BLOCK				

	Brought Forward	[		R	
	<u>1.2mm thick Single rebated frame suitable for one</u> <u>brick walls, complete with lugs and base ties, with</u> <u>red oxide primer factory finish by manufacturer</u>				
4/9/2	914 x 2032mm single door	No	2		
	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				
4/9/3	Window size 1022 x 949mm high	No	6		
	Carried Forward to Summary of Section No. 4			R	
	6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 9 Metalwork				

ltem 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				
	<u>1:4 Cement sand screed on concrete, worked down</u> to a true and even surface with a steel trowel				
4/10/1	30mm Thick on floors and landings	m2	50		
4/10/2	30mm Thick to falls and currents	m2	5		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4/10/3	On brick walls	m2	173		
4/10/4	On narrow widths	m2	17		
	Carried Forward to Summary of Section No. Section No. 4			R	
	6 SEATS WATERBORNE TOILET BLOCK				
	Bill No. 10 Plastering				
		l			1

n >		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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling			

	Brought Forward			R	
	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	92		
4/11/2	On narrow widths	m2	9		
4/11/3	Splash backs	m2	2		
	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	55		
4/11/5	75mm high skirting	m	121		
	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	9		
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	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 4				<b> </b>
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 11 Tiling				
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า		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	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	
	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	35		
4/12/2	Extra over eaves gutter for stopped end	No	12		
4/12/3	Extra over eaves gutter for corner	No	26		
4/12/4	Extra over eaves gutter for outlet	No	6		
	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	21		
4/12/6	Extra over downpipe for offset	No	12		
4/12/7	Extra over downpipe for shoe	No	6		
	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	6		
	<b>Carried Forward</b> Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage			R	

	Brought Forward			R	[ [ ]
	WATER CLOSET				
	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	6		
	TOILET ROLL HOLDER				
	To be approved by Architect				
4/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls				
		No	6		
	SOAP DISPENSER				
	To be approved by Architect				
4/12/11	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	2		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
4/12/12	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	1		
	TAPS, VALVES, ETC				
	Similar Approved				
4/12/13	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	6		
	TESTING				
4/12/14	Testing water pipe system		Item		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward		R		
	BUDGETARY ALLOWANCE				
4/12/15	Allow an amount of R161 071.20 (One Hundred and Sixty One Thousand and Seventy One and Twenty) for the supply and installation of Sanitary Fitting Sundries	Item		161 071.2	20
	Carried Forward to Summary of Section No. Section No. 4		R		
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 12 Plumbing and Drainage				

ltem 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	24		
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69		
	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	6		
	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	173		
	Carried Forward			R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK Bill No. 14 Paintwork				

	Brought Forward			R	
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat				
	<u>universal under coat and two coats gloss enamel</u> paint, colour to be confirmed by architect				
4/14/5	On window frames	m2	6		
4/14/6	On door frames	m2	8		
4/14/7	On gutters	m	35		
4/14/8	On downpipes	m	21		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
4/14/9	On door	m2	22		
	Carried Forward to Summary of Section No.			R	
	Section No. 4			1	
	6 SEATS WATERBORNE TOILET BLOCK Bill No. 14				
	Paintwork				

	SECTION SUMMARY			
Bill No		Page No		Amount
4/1	Earthworks	4/3		
4/2	Concrete, Formwork and Reinforcement	4/7		
4/3	Masonry	4/10		
4/4	Waterproofing	4/11		
4/5	Roof Coverings	4/13		
4/6	Carpentry and Joinery	4/17		
4/7	Ceilings, Partitions and Access Flooring	4/20		
4/8	Ironmongery	4/23		
4/9	Metalwork	4/27		
4/10	Plastering	4/28		
4/11	Tiling	4/30		
4/12	Plumbing and Drainage	4/34		
4/13	Glazing	4/35		
4/14	Paintwork	4/37		
	Carried to Final Summary		R	
	Section No. 4 6 SEATS WATERBORNE TOILET BLOCK			
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1		Quantity	Rate	Amount
	SECTION NO. 5			
	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	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations			

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	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations		

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	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1		
Demolitions and Alterations		

	Brought Forward			R	
	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				
5/1/1	Single storey brick and mortar admin 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	243		
	Breaking up/demolishing and removal of walls, slabs, surface beds etc				
5/1/2	100mm thick concrete aprons	m2	528		
5/1/3	25mm thick concrete screed	m2	422		
	Taking down and removing panelling, ceilings, partitions, etc				
5/1/4	Ceiling trap door	No	23		
	Taking out and removing glass and mirrors				
5/1/5	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	354		
	Taking up and removing floor coverings carpeting, tiles etc				
5/1/6	Vinyl tile floor covering including preparing screed for new tile flooring	m2	1 461		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
5/1/7	813mm x 2032mm high timber door including metal frame, ironmongery etc.	No	55		
	Taking out and removing ironmongery				
5/1/8	Remove all ironmongery to a single door	No	55		
5/1/9	Remove pinning board and make good wall finishes	No	46		
5/1/10	Remove green chalk board and make good wall finishes	No	23		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)				
	Bill No. 1 Demolitions and Alterations				

	Brought Forward			R	
5/1/11	Remove brass sliding stays, peg stay, handles window ironmongery	No	884		
	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)				
5/1/12	Remove wash trough including all fittings and make good wall and floor finishes	No	4		
5/1/13	Remove water closet with cistern and make good wall and floor finishes	No	12		
5/1/14	Remove wash hand basin and make good wall finishes	No	8		
	Taking out and removing sundry joinery work				
5/1/15	Timber skirting from brickwork	m	958		
	Taking out and removing metalwork				
5/1/16	Security gate including framing bolted to brickwork and making good mortar joints between face brickwork	No	27		
	Taking out and removing roof coverings, roof accessories and rainwater disposal fittings, keeping roof structure intact				
5/1/17	Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.	m2	2 397		
5/1/18	Remove steel gutters, keeping barge boards intact	m	534		
5/1/19	Remove barge board	m	96		
5/1/20	Remove fascia board	m	534		
5/1/21	Remove ridge capping, keeping roof covering intact	m	184		
	Repairing cracks				
5/1/22	On plastered brick walls	m2	119		
	MAKING GOOD OF FINISHES ETC				
	Making good screed				
5/1/23	Floors in patches	m2	1 461		
	Making good plaster				
5/1/24	Wall plaster in patches	m2	13		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1 Demolitions and Alterations				

	Brought Forward		R	
	Face bricks			
5/1/25	Clean and treat face bricks with approved oxidation preventative solution m2	3 446		
	<b>REPAIR/MAINTAIN OF EXISTING WORK</b>			
	Enviro-loos			
5/1/26	Clean Enviro-loo septic tank and replace ventilation system	Item		
				 _
	Carried Forward to Summary of Section No.		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 1			 
	Demolitions and Alterations			

ltem 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.				
	<u>NOTES</u>				
	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				
	EXCAVATION OTHER THAN BULK, ETC				
	Excavation in earth not exceeding 2m deep				
5/2/1	Trenches	m3	36		
5/2/2	Holes	m3	83		
	Extra over trench and hole excavations in earth for excavation in				
5/2/3	Soft rock	m3	12		
5/2/4	Hard rock	m3	7		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 2 Earthworks				

	Brought Forward			R	
	Extra over all excavations for carting away				
5/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	119		
	Risk of collapse of excavations				
5/2/6	Sides of trench excavations not exceeding 1.5m deep	m2	131		
	Keeping excavations free of water				
5/2/7	Keeping excavations free of water		Item		
	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				
5/2/8	Under floors, steps, pavings, etc	m3	12		
	Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density				
5/2/9	Under floors, steps, pavings, etc	m3	40		
	COMPACTION OF SURFACES				
	Prepare ground surface by scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and re- compacting to 90% modified AASHTO density				
5/2/10	Under floors, steps, paving, etc	m2	696		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
5/2/11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	696		
5/2/12	Weedkiller: To bottoms and sides of trenches etc.	m2	176		
	Carried Forward to Summary of Section No. Section No. 5			R	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 2 Earthworks				
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ו		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)			
	<u>Formwork</u>			
	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	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement			

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	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:-					
	<ul> <li>Degree of accuracy: I</li> <li>Finish: Smooth and even</li> <li>Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>Steel faced formwork. Joints grout-tight.</li> <li>Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>Formwork tie holes: to the approval of the architect</li> <li>Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul>					
	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					
	10MPa/19mm concrete					
5/3/1	Surface blinding under bases	m3	8			
	Carried Forward Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3			R		
	Concrete, Formwork and Reinforcement					

	Brought Forward			R	Τ
	20MPa/19mm concrete				
5/3/2	Footings	m3	66		
5/3/3	Concrete apron, cast to falls	m3	53		
	REINFORCED CONCRETE CAST AGAINST				
	EXCAVATED SURFACES				
	25MPa/19mm Concrete				
5/3/4	Ramps	m3	23		
	30MPa/19mm concrete				
5/3/5	Surface beds	m3	8		
5/3/6	Staircases and landings	m3	9		
	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)				
5/3/7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	80		
	SUNDRIES TO CONCRETE				
	Surface treatment				
5/3/8	Power float top surface of concrete surface bed to a true and even level finish	m2	621		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
5/3/9	Sloping sides of ramps not exceeding 600mm high extreme	m2	62		
5/3/10	Sloping and stepped sides of staircase	m2	9		
5/3/11	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	580		
					+
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement				

	Brought Forward			R		
	REINFORCEMENT					
	High tensile steel reinforcement					
5/3/12	All diameter bars	t	0.61			
	Fabric reinforcement					
5/3/13	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	75			
	Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 3 Concrete, Formwork and Reinforcement			R		
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		Quantity	Rate	Amoun
BI	ILL NO. 4		<b> </b>	
<u>M</u>	ASONRY			
PF	REAMBLES			
in t iss	DTE : The tenderer is referred to the relevant clauses the Model Preambles for Trades (2008 Edition) as sued by the Association of South African Quantity irveyors before pricing this bill.			
<u>s</u>	JPPLEMENTARY PREAMBLES			
	upplementary preamble items described in Bill No. 1, all equally apply to this Bill.			
GE	ENERAL NOTES TO TENDERERS			
	eneral notes, described in Bill No.1, shall equally apply this Bill.			
<u>Siz</u>	zes in descriptions			
bri	here sizes in descriptions are given in brick units, "one ck" shall represent the length and "half brick" the dth of a brick			
<u>Ho</u>	bliow walls etc			
lea ext dea inc wit coa	escriptions of hollow walls shall be deemed to include aving every fifth perpend of the bottom course of the ternal skin open as a weep hole. Walls in two skins scribed as "bagged and sealed" shall be deemed to clude having the outer face of the inner skin bagged th 1:6 cement and sand mixture and sealed with two ats "Brickseal" bitumen emulsion waterproofing ating.			
<u>Fa</u>	ice bricks			
	icks shall be ordered timeously to obtain uniformity in e and colour			
<u>Po</u>	binting			
an	escriptions of recessed pointing to fair face brickwork d face brickwork shall be deemed to include square cessed, hollow recessed, weathered pointing, etc			
	Carried Forward		R	
RE Bill	ection No. 5 ENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) I No. 4 asonry			

	Brought Forward	T		R	
	BRICKWORK IN FOUNDATION				
	Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar				
5/4/1	One brick wall	m2	104		
	SUPERSTRUCTURE BRICKWORK				
	<u>Brickwork of NFP brick in class II mortar laid in</u> stretcher bond with 10mm flush joints				
5/4/2	Rectangular piers	m3	1		
5/4/3	One brick wall	m2	494		
5/4/4	Half brick wall	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				
5/4/5	Extra over brickwork for face brickwork in superstructure	m2	582		
5/4/6	Extra over brickwork for face brickwork to piers	m2	8		
5/4/7	Extra over brickwork for face brickwork in brick-on-edge header coping	m	103		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
5/4/8	75mm wide reinforcement built in horizontally	m	22		
5/4/9	150mm wide reinforcement built in horizontally.	m	1 819		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 4				
	Masonry				

ltem 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 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course			
5/5/1	Under walls r	n2 20		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 5 Waterproofing			

ltem No			Quantity	Rate	Amount
	BILL NO. 6				
	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 pre-painted 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				
5/6/1	Roof sheeting pitch not exceeding 25 degrees	m2	3 116		
5/6/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	184		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 6 Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
5/6/3	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	2 3 116		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 6			
	Roof Coverings			

em No		Quantity	Rate	Amount
	BILL NO. 7			
	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	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7 Carpentry and Joinery			

	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				
	Similar Approved				
	Roof trusses				
5/7/1	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	2 397		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 7				
	Carpentry and Joinery				

	Brought Forward			R	
	"Everite FC77" fascia and barge boards				
5/7/2	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	534		
5/7/3	15 x 225mm pressed fibre cement barge 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	96		
	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				
5/7/4	813 x 2032mm single door	No	12		
5/7/5	914 x 2032mm single door	No	43		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)				
	Bill No. 7 Carpentry and Joinery				

	Quantity	Rate	Amount
BILL NO. 8			
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.			
<u>Fixing</u>			
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	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 8 Ceilings, Partitions and Access Flooring			

Brought Forward here electrical light fittings, diffusers, panels etc are his of the same dimensions as the suspension grid escribed and allowance must be made in the rates coordingly for their support inclusive of any flexibility in titing out that may be required (ceiling panels have not een deducted and pricing is to take cognisance ereof) <b>Uspension systems</b> here suspensions of ceilings require a sub-grid, the nderer should include in his rates for the sub-grid. The esign of the sub-grid support is not specified, the nderer is to obtain the necessary requirements and commendations for a safe installation from the board of suspension system manufacturer to the satisfaction the structural engineer. AILED UP CEILINGS BRE - CEMENT BOARDS milar Approved			R	
<ul> <li>bits of the same dimensions as the suspension grid escribed and allowance must be made in the rates accordingly for their support inclusive of any flexibility in titing out that may be required (ceiling panels have not een deducted and pricing is to take cognisance ereof)</li> <li><b>uspension systems</b></li> <li>here suspensions of ceilings require a sub-grid, the nderer should include in his rates for the sub-grid. The esign of the sub-grid support is not specified, the nderer is to obtain the necessary requirements and commendations for a safe installation from the board ad suspension system manufacturer to the satisfaction the structural engineer.</li> <li><b>AILED UP CEILINGS</b></li> <li><b>BRE - CEMENT BOARDS</b></li> <li><b>milar Approved</b></li> </ul>				
here suspensions of ceilings require a sub-grid, the nderer should include in his rates for the sub-grid. The esign of the sub-grid support is not specified, the nderer is to obtain the necessary requirements and commendations for a safe installation from the board of suspension system manufacturer to the satisfaction the structural engineer. AILED UP CEILINGS BRE - CEMENT BOARDS milar Approved				
nderer should include in his rates for the sub-grid. The esign of the sub-grid support is not specified, the inderer is to obtain the necessary requirements and commendations for a safe installation from the board ad suspension system manufacturer to the satisfaction the structural engineer. AILED UP CEILINGS BRE - CEMENT BOARDS milar Approved				
BRE - CEMENT BOARDS milar Approved				
milar Approved				
nm "Everite Nutec" Fibre-cement boards, jointed ith and including galvanised H-type primed essed steel jointing strips, including brandering per architect's specifications				
00 x 1200mm x 6mm Horizontal ceilings, fixed to and cluding 38 x 38mm sawn softwood brandering at aximum 400mm centres using 38mm long galvanised ils	m2	2 397		
tra over ceiling for 600 x 600mm trap door of 38 x mm wrought softwood rebated framing, with one 38 x mm sawn softwood cross brander covered with wiling board and fitted flush in opening	No	23		
<u>ORNICES</u>				
milar Approved				
Rhino" plasterboard cornice				
imm Coved cornice, plugged to brickwork	m	1 265		
Carried Forward			R	
ection No. 5 ENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) II No. 8 eilings, Partitions and Access Flooring				
	Assed steel jointing strips, including brandering per architect's specifications 200 x 1200mm x 6mm Horizontal ceilings, fixed to and luding 38 x 38mm sawn softwood brandering at ximum 400mm centres using 38mm long galvanised ls tra over ceiling for 600 x 600mm trap door of 38 x mm wrought softwood rebated framing, with one 38 x mm sawn softwood cross brander covered with ling board and fitted flush in opening <b>DRNICES</b> <b>milar Approved</b> <b>hino" plasterboard cornice</b> mm Coved cornice, plugged to brickwork <b>Carried Forward</b> ction No. 5 NOVATION (12 ENVIROLOOS & 23 CLASSROOMS) No. 8	essed steel jointing strips, including brandering per architect's specifications         00 x 1200mm x 6mm Horizontal ceilings, fixed to and luding 38 x 38mm sawn softwood brandering at ximum 400mm centres using 38mm long galvanised ls m2         tra over ceiling for 600 x 600mm trap door of 38 x mm wrought softwood rebated framing, with one 38 x mm sawn softwood cross brander covered with ling board and fitted flush in opening No         DRNICES         nilar Approved         hino" plasterboard cornice         mm Coved cornice, plugged to brickwork         mm coved         ction No. 5         NOVATION (12 ENVIROLOOS & 23 CLASSROOMS) No. 8	essed steel jointing strips, including brandering per architect's specifications       Image: Specification specificatis specification specificatis specification specificat	essed steel jointing strips, including brandering per architect's specifications       Image: Specification specific

	Brought Forward		R	
	CEILING INSULATION			
	Insulation			
5/8/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	2 2 397		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)			
	Bill No. 8 Ceilings, Partitions and Access Flooring			
	C4 5/23			

	Quantity	Rate	Amount
BILL NO. 9			
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.			
<b>GENERAL NOTES TO TENDERERS</b>			
General notes, described in Bill No.1, shall equally apply to this Bill.	y		
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.	t		
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	9		
Carried Forwa	rd	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS Bill No. 9			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
	AB Anodised bronze ABL Anodised black AG Anodised gold AN Anodised natural AS Anodised silver BS Satin bronze lacquered CH Chromium plated GE Grey enamelled NP Nickel plated PB Polished brass PL Polished and lacquered PT Epoxy coated SC Satin chromium plated SD Sanded SE Silver enamelled SN Satin nickel SS Stainless steel				
	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.				
	Pinning board consisting of pinning material/carpet surface laminated to a soft board core, complete with beading all around with a natural anodised aluminium channel surround, and surround mitred at the corners				
5/9/1	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	46		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
5/9/2	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	46		
	Carried Forward Section No. 5			R	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery				

	Brought Forward			R	
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
5/9/3	SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170)	No	12		
5/9/4	SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300)	No	16		
	Locks				
5/9/5	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	12		
5/9/6	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	16		
5/9/7	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	43		
5/9/8	SC 150mm Cabin hook (Code: CH 150)	No	27		
5/9/9	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	12		
	Kick and push plates				
5/9/10	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	110		
5/9/11	SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)	No	12		
5/9/12	SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300)	No	16		
	Panic hardware				
5/9/13	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	27		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery				

	Brought Forward			R	
5/9/14	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	27		
	<u>Door closers</u>				
5/9/15	Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B)	No	16		
	<u>Sundries</u>				
5/9/16	Male / Female fixing screws (Qty 4 per pack)	Sets	28		
5/9/17	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	12		
5/9/18	NP floor mounted Door stop (Code: DDS-NP-018)	No	16		
	WINDOW FURNITURE				
	Similar Approved				
5/9/19	Brass spring catch	No	68		
5/9/20	Brass peg stay	No	408		
5/9/21	Brass handle	No	408		
	<b>Carried Forward to Summary of Section No.</b> Section No. 5			R	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 9 Ironmongery				

า		Quantity	Rate	Amount
	BILL NO. 10			
	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	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork			

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		
RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 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.		
<u>Cleaning:</u>		
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		
Carried Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10		

			n	
Brought Forward			R	
WELDED SCREENS, GATES, ETC.				
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				
Steel gate to door, size 813mm x 2032mm high	No	27		
Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications				
Steel screen to window, size 1200 x 1300mm high	No	160		
Steel screen to window, size 1000 x 600mm high	No	4		
Steel screen to window, size 500 x 600mm high	No	12		
PRESSED STEEL DOOR FRAMES				
<u>1.2mm thick Single rebated frame suitable for one</u> brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
813 x 2032mm single door	No	12		
914 x 2032mm single door	No	43		
Carried Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10 Metalwork			R	
	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) rawiboits 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           Steel gate to door, size 813mm x 2032mm high           Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications           Steel screen to window, size 1200 x 1300mm high Steel screen to window, size 1000 x 600mm high Steel screen to window, size 500 x 600mm high Steel screen to window, size 500 x 600mm high Steel screen to window, size 500 x 600mm high Steel screen to window, size 600 x 600mm high 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           813 x 2032mm single door           914 x 2032mm single door           914 x 2032mm single door           Steried Forward to Summary of Section No.           Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10	WELDED SCREENS, GATES, ETC.         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)         rawibolts and welded with 50 x 50 x 5 mm 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         Steel gate to door, size 813mm x 2032mm high       No         Welded MS screen consisting of 10mm diameter         bars, all complete as per the architect's         specifications       Steel screen to window, size 1200 x 1300mm high       No         Steel screen to window, size 1000 x 600mm high       No         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       813 x 2032mm single door       No         914 x 2032mm single door       No	Welded S gate consisting of 50 × 50 × 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawibolts and welded with 50 × 50 × 50 × 50 × 50 × 10m mild steel to walls, with 50 × 50 × 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 × 50 × 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 bleshok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications       27         Steel gate to door, size 813mm x 2032mm high specifications       No       27         Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications       No       160         Steel screen to window, size 1200 x 1300mm high to size screen to window, size 500 x 600mm high to size screen to window, size 500 x 600mm high to all screen to window, size 500 x 600mm high ted oxide primer factory finish by manufacturer       No       12         813 x 2032mm single door       No       12         914 x 2032mm single door       No       43         Vertice Forward to Summary of Section No. Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10       12	WELDED SCREENS, GATES, ETC.         Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mire at corners, bolted to reveals with 10mm (10M) raviboits and welded with 50 x 50 x 2.5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mire 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 pullet-hings per pate, with "Solid bleshok" 460/2131 four lever lockset with rebate set, including welding, botting, holes, bolts etc., all complete as per the architect's specifications       27         Steel gate to door, size 813mm x 2032mm high posting, holes, bolts etc., all complete as per the architect's specifications       No       27         Steel screen to window, size 1200 x 1300mm high Steel screen to window, size 1000 x 600mm high No       160       12         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 813 x 2032mm single door       No       12         914 x 2032mm single door       No       43         Section No. 5 REINOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 10       R       R

ltem No			Quantity	Rate	Amount
	BILL NO. 11				
	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.				
	<u>SCREEDS</u>				
	<u>1:4 Cement sand screed on concrete, worked down</u> to a true and even surface with a steel trowel				
5/11/1	30mm thick on floors and landings	m2	1 883		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
5/11/2	On brick walls	m2	402		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 11 Plastering				

	Quantity	Rate	Amount
BILL NO. 12			
TILING			
PREAMBLES			
NOTE : The tenderer is referred to the relevant of in the Model Preambles for Trades (2008 Edition issued by the Association of South African Quar Surveyors before pricing this bill.	ı) as		
SUPPLEMENTARY PREAMBLES			
Supplementary preamble items described in Bill shall equally apply to this Bill.	No. 1,		
Pricing			
Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
Fixing			
Tiling described as "fixed with adhesive on powe floated concrete" shall be deemed to include for approved tiling key-coat.	er		
Ceramic, porcelain, marble and granite tiles are fixed, grouted and pointed with suitable adhesive grouts, as recommended by the Architect. Costs hereby deemed to include the cost of this require	es and are		
Payment for work that is deemed measurable, ir of the conditions of contract, and which comprise cutting, leaving, or forming, rectangular holes an notches through tiling is hereby deemed to apply holes and notches that do not exceed 600mm g Those exceeding 600mm in girth are hereby dee be "square cutting", which is hereby deemed to of the work description for that type of tiling and measurable as a separate item of work.	es d / only to irth. emed to be part		
<u>Wastage</u>			
Tile wastage in excess of 10% will be for the ter account.	iderer's		
GENERAL NOTES TO TENDERERS			
General notes, described in Bill No. 1, shall equa apply to this Bill.	ally		
Carried	I Forward	R	
Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASS Bill No. 12 Tiling	ROOMS)		

	Brought Forward			R	—
	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				
5/12/1	On floors	m2	1 504		
5/12/2	75mm high skirting	m	1 048		
	ATTIC STOCK				
5/12/3	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) SUNDRIES	m2	150		
	<u>10mm aluminium straight edge trim</u>				
5/12/4		m	25		
5/12/4	Dividing strip between tiles and door frames 25 x 25mm aluminium angle		20		
5/12/5			21		
5/12/5	Trim to edge of concrete, to be secured with screws	m			
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 12 Tiling				-

		Quantity	Rate	Amoun
BILL NO. 13				
<u>PLUMBING AND DE</u> (PROVISIONAL)	RAINAGE			
PREAMBLES				
in the Model Preambles	eferred to the relevant clauses for Trades (2008 Edition) as n of South African Quantity this bill.			
SUPPLEMENTARY P	REAMBLES			
Supplementary preamble shall equally apply to this	e items described in Bill No. 1, bill.			
uPVC pipes and fittings:				
Sewer and drainage pipe and sealed with butyl rub	es and fittings shall be jointed ber rings			
<u>uPVC pressure pipes an</u>	<u>d fittings:</u>			
Pipes for water supply sh	all be of the class stated			
Excavations:				
be entertained unless the notified the quantity surv	n material other than "earth" will e contractor has timeously eyor thereof prior to backfilling, ng , authorised classification			
"Intermediate material" a defined in "Earthworks".	nd " hard rock" shall be as			
material and backfilling a to be formed, or filled, in	ons, carting away excavated re calculated on the nett extent accordance with drawings and ontractor is to allow in his			
Classes of excavation sh 3.1.2.	all be as S.A.B.S 1200D clause			
Laying, backfilling, beddi	ng, etc., of pipes:			
	edded, and trenches shall be cordance with the specific			
	Carried Forward		R	
Section No. 5 RENOVATION (12 ENVI Bill No. 13 Plumbing and Drainage	ROLOOS & 23 CLASSROOMS)			

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	Gutters				
5/13/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	534		
5/13/2	Extra over eaves gutter for outlet	No	28		
	Rainwater downpipes				
5/13/3	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	120		
5/13/4	Extra over rainwater pipe for offset	No	52		
5/13/5	Extra over rainwater pipe for shoe	No	28		
5/13/6	Extra over rainwater pipe for bend	No	40		
	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				
5/13/7	WHB, installed complete	No	8		
	Carried Forward Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13			R	
	Plumbing and Drainage				

	Brought Forward			R	Τ
	WATER CLOSET				
	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				
5/13/8	WC, installed complete	No	12		
	SINKS, etc.				
	<u>Concrete double wash trough 1400 x 530 x 340mm</u> <u>deep with outlets and three pedestals (PC allowance</u> <u>of R780.00/no excludes V.A.T. but includes delivery</u> <u>to site), includes waste, supply and fixing</u>				
5/13/9	Wash trough, installed complete	No	4		
	TOILET ROLL HOLDER				
	To be approved by Architect				
5/13/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	12		
	TAPS, VALVES, ETC				
	Similar Approved				
5/13/11	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	20		
	TANKS				
	Similar Approved				
5/13/12	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	12		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
5/13/13	9kg dry chemical powder fire extinguisher	No	23		
	Carried Forward Section No. 5			R	
	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13 Plumbing and Drainage				

	Brought Forward			R		
5/13/14	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	6			
	TESTING					
5/13/15	Testing water pipe system		ltem			
	BUDGETARY ALLOWANCE					
5/13/16	Allow an amount of R150 456.96 (One Hundred and Fifty Thousand Four Hundred and Fifty Six and Ninety Six) for the supply and installation of Sanitary Fitting Sundries		ltem		150 456.	.96
						-
	Carried Forward to Summary of Section No.			R		
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 13					
	Plumbing and Drainage					

No			Quantity	Rate	Amount
	BILL NO. 14				
	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				
5/14/1	Panes not exceeding 0.1m2	m2	348		
5/14/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	6		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
5/14/3	Mirror 400 x 600 mm high	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 14 Glazing				

ltem No			Quantity	Rate	Amount
	BILL NO. 15				
	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				
5/15/1	On walls	m2	2 630		
	METAL SURFACES				
	Similar Approved				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect				
5/15/2	On window frames	m2	709		
5/15/3	On roof ridge	m2	101		
5/15/4	On steel columns	m2	77		
	Carried Forward			R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS) Bill No. 15 Paintwork				

ORK AL WALLS t universal Acrylic PVA paint or onfirmed by ersal undercoat and nt or similar d by Architect phos, one coat ats gloss enamel Architect palustrades, etc (both	m2 m2 m2 m2	402 2 506 332 600		
AL WALLS t universal Acrylic PVA paint or onfirmed by ersal undercoat and nt or similar d by Architect ats gloss enamel Architect	m2 m2 m2	2 506 332		
t universal Acrylic PVA paint or onfirmed by ersal undercoat and nt or similar d by Architect d by Architect	m2 m2 m2	2 506 332		
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nt or similar d by Architect uphos, one coat ats gloss enamel Architect	m2 m2	332		
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	m			
	m	534		
	m2	166		
	m	28		
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	m2	211		
	m2	3 446		
mmary of Section No.			R	
& 23 CLASSROOMS)				
	mmary of Section No. & 23 CLASSROOMS)	mmary of Section No.	mmary of Section No.	mmary of Section No.

	SECTION SUMMARY			
Bill No		Page No		Amount
5/1	Demolitions and Alterations	5/6		
5/2	Earthworks	5/8		
5/3	Concrete, Formwork and Reinforcement	5/12		
5/4	Masonry	5/14		
5/5	Waterproofing	5/15		
5/6	Roof Coverings	5/17		
5/7	Carpentry and Joinery	5/20		
5/8	Ceilings, Partitions and Access Flooring	5/23		
5/9	Ironmongery	5/27		
5/10	Metalwork	5/31		
5/11	Plastering	5/32		
5/12	Tiling	5/34		
5/13	Plumbing and Drainage	5/38		
5/14	Glazing	5/39		
5/15	Paintwork	5/41		
	Carried to Final Summary		R	
	Section No. 5 RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)			
	I I		I	II I

ltem No		Quantity	Rate	Amount
	SECTION NO. 6			
	BILL NO. 1			
	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			
	Carried Forward Section No. 6 PROVISIONAL SUMS Bill No. 1		R	
	Budgetary Allowance			

	Brought Forward		R	
	Profit			
	Where stated, the contractor may allow for profit if required			
	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			
6/1/1	Provide the sum of R35 000.00 (Thirty Five Thousand) for sewer, water and electrical connections, etc to the local authority	ltem		35 000.00
	Relocation of mobiles			
6/1/2	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles	ltem		250 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 6 PROVISIONAL SUMS			
	Bill No. 1 Budgetary Allowance			
		I I	I	i l

ltem No		Quantity	Rate	Amount
	BILL NO. 2			
	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			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	Carried Forward		R	
	Section No. 6 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

Brought Forward		R	
<u>General attendance on nominated/selected</u> 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			
Allow an amount of R113 050.00 (One Hundred and Thirteen Thousand and Fifty) for the supply and installation of Signage	Item		113 050.00
Attendance		%	
Profit		%	
Joinery Fittings			
Allow an amount of R83 310.00 (Eighty Three Thousand Three Hundred and Ten) for the supply and installation of Joinery Fittings	Item		83 310.00
Attendance		%	
Profit		%	
School Furniture and Fittings			
Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings	Item		20 000.00
Attendance		%	
Profit		%	
Carried Forward Section No. 6 PROVISIONAL SUMS Bill No. 2 Provisional Sums		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         Allow an amount of R113 050.00 (One Hundred and Thirteen Thousand and Fifty) for the supply and installation of Signage         Attendance         Profit         Joinery Fittings         Allow an amount of R83 310.00 (Eighty Three Thousand Three Hundred and Three) for the supply and installation of Joinery Fittings         Attendance         Profit         School Furniture and Fittings         Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings         Attendance         Profit         School Furniture and Fittings         Attendance         Profit         Section No. 6         PROVISIONAL SUMS         Bill No. 2	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         Allow an amount of R113 050.00 (One Hundred and Thriteen Thousand and Fifty) for the supply and installation of Signage         Item         Attendance         Profit         Joinery Fittings         Allow an amount of R83 310.00 (Eighty Three Thousand Three Hundred and Thritee Hundred and Tenty for the supply and installation of Joinery Fittings         Allow an amount of R00 000.00 (Eighty Three Thousand Three Hundred and Tenty for the supply and installation of Joinery Fittings         Altendance         Profit         School Furniture and Fittings         Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings         Altendance         Profit         Carried Forward         Section No. 6         PROVISIONAL SUMS	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         Allow an amount of R113 050.00 (One Hundred and Thriteen Thousand and Fifty) for the supply and installation of Signage         Attendance       %         Profit       %         Joinery Fittings       Item         Allow an amount of R83 310.00 (Eighty Three Thousand Three Hundred and Ten) for the supply and installation of Joinery Fittings       Item         Altendance       %         Profit       %         School Furniture and Fittings       Item         Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings       Item         Attendance       %         Profit       %         School Furniture and Fittings       Item         Allow an amount of R20 000.00 (Twenty Thousand) for the supply and installation of School Furniture and Fittings       %         P

	Brought Forward		R	
	Community Liaison Officer			
6/2/10	Allow an amount of R200 000.00 (Two Hundred Thousand) for provision of Community Liaison Officer	Item		200 000.00
6/2/11	Attendance		%	
6/2/12	Profit		%	
	Project Steering Committee			
6/2/13	Allow an amount of R40 000.00 (Forty Thousand) for provision of Project Steering Committee	ltem		40 000.00
6/2/14	Attendance		%	
6/2/15	Profit		%	
	WORK EXECUTED BY SEPARATE DIRECT SERVICE PROVIDERS			
	The following work will be executed by Service Providers under direct agreement with the Employer. The Contractor is to accommodate these Service Providers and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these Service Providers to work completed by the principal Contractor is to be recorded in detail to enable the Employer to counter- charge the direct Service Providers the cost of making good such damages.			
	Occupational Health and Safety Consultant			
6/2/16	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of an Occupational Health and Safety Consultant	ltem		500 000.00
6/2/17	Attendance		%	
6/2/18	Profit		%	
	Social Facilitator			
6/2/19	Allow an amount of R340 000.00 (Three Hundred and Forty Thousand) for provision of a Social Facilitator	ltem		340 000.00
	Carried Forward Section No. 6 PROVISIONAL SUMS Bill No. 2 Provisional Sums		R	

			0	—
	Brought Forward	R		
6/2/20	Attendance	%		
6/2/21	Profit	%		
	Carried Forward to Summary of Section No. Section No. 6	R		╞
	PROVISIONAL SUMS			
	Bill No. 2 Provisional Sums			
	C4.6/6			I
	04.0/0			

	SECTION SUMMARY					-
Bill No			Page No		Amount	
6/1	Budgetary Allowance		6/2			_
6/2	Provisional Sums		6/6			
						-
		Carried to Final Summary		R		
	Section No. 6 PROVISIONAL SUMS	-				=

### ELECTRICAL INSTALLATION

MV Reticulation

ltem	Description	Unit	Quantity	Rate	Amount
1	Provide the sum of R 235 545,80 for Installation of MV RETICULATION	ltem	1		
	Contractors Markup	Item	0,1		
	Contractors Attendance	ltem	0,05		
otal for	installation Carried to Summary of Cost (Excl.VAT)				

### ELECTRICAL INSTALLATION

### Internal Installation

Description	Unit	Quantity	Rate	Amount
enching				
vorkfor sleeves along the routes as after co-ordination with other	5			
made for the sifting of soil when nd carting away of all stones and aping off site. Backfilling and a carried out as specified for overa	11			
skfilling in soft soil	m³	180		
kfilling in hard rock-supply cable	m³	90		
eeves				
tion of PVC Sleeves through floor er distribution board and rd complete with standard radius				
or power cable	m	200		
	No	20		
Forward		NU	110 20	

ltem	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
3	<b>Kiosk</b> 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				
4,1	16mm <sup>2</sup> 4 core PVC SWA Cable	m	300		
4,2	16mm <sup>2</sup> 2 core PVC SWA Cable	m	1200		
4,3	16mm <sup>2</sup> BCEW	m	1500		
5	Treminations:				
5,1	16mm <sup>2</sup> 4 core PVC SWA Cable	No	2		
5,2	16mm <sup>2</sup> 2 core PVC SWA Cable	No	10		
5,3	16mm <sup>2</sup> 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	<u>Others</u>				
7,1	Conctrete cable markers	each	60		
7,2	Danger Tape	m	1500		
Total fo	or internal installation Carried to Summary of Cost (Exc	:I.VAT)			

#### LIMPOPO: DEPARTMENT OF EDUCATION

### ELECTRICAL INSTALLATION

Internal Installation

### Block A - Administration Block

ltem	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				

ltem	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward		1		
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		

ltem	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	2.5mm <sup>2</sup> for lights circuits	m	2000		
7,2	4mm <sup>2</sup> 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	2.5mm <sup>2</sup>	m	1000		
8,2	4mm²	m	500		
8,3	6mm²	m	250		
	Sub Total Carried Forward				

ltem	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward		I		
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	1x18W CFL circular downlighters	No	8		
	Sub Total Carried Forward				

ltem	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	<u>Others</u>							
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					
	Overhead, charges and profit on item 15.1.1	%	0					
15.1.2	Public Address	Prov Sum	1					
	Overhead, charges and profit on item 15.1.2	%	0					
Total for in	ternal installation Carried to Summary of Cost (Excl.VAT)							

### LIMPOPO: DEPARTMENT OF EDUCATION

### ELECTRICAL INSTALLATION

### Internal Installation

### Block Ex-C1 - 3 Classoom 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				

ltem	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	2.5mm <sup>2</sup> for lights circuits	m	500		
6,2	4mm <sup>2</sup> 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	4mm <sup>2</sup>	m	125		
	Sub Total Carried Forward				

ltem	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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	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	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		

### LIMPOPO: DEPARTMENT OF EDUCATION

### ELECTRICAL INSTALLATION

### Internal Installation

# Block Ex-C2 - 4 Classroom Block with Stores

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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> for lights circuits	m	600		
6,2	4mm <sup>2</sup> 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				

ltem	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	10		
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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

ltem	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	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	4			
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40			
12,3	Testing and installation of installation	Sum	1			
Total for ir	otal for internal installation Carried to Summary of Cost (Excl.VAT)					

### ELECTRICAL INSTALLATION

#### Internal Installation

# Block Ex-C3 - 4 Classroom Block with Stores

ltem	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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> for lights circuits	m	600		
6,2	4mm <sup>2</sup> 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				

ltem	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	10		
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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

ltem	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	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	4			
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40			
12,3	Testing and installation of installation	Sum	1			
Total for ir	otal for internal installation Carried to Summary of Cost (Excl.VAT)					

### ELECTRICAL INSTALLATION

#### Internal Installation

# Block Ex-C4 - 4 Classroom Block with Stores

ltem	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				

ltem	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	2.5mm <sup>2</sup> for lights circuits	m	600		
6,2	4mm <sup>2</sup> 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	4mm <sup>2</sup>	m	150		
	Sub Total Carried Forward				

ltem	Description	Unit	Quantity	Rate	Amount
0	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	10		
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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	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	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		

### 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 Ferryard				
	Sub Total Carried Forward				<u> </u>

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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> for lights circuits	m	600		
6,2	4mm <sup>2</sup> 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				

ltem	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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	20		
	Sub Total Carried Forward				

ltem	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	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for ir	Internal installation Carried to Summary of Cost (Ex	(cl.VAT)			

### ELECTRICAL INSTALLATION

#### Internal Installation

# Block Ex-C6 - 4 Classroom Block with Stores

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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> for lights circuits	m	600		
6,2	4mm <sup>2</sup> 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				

ltem	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	10		
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				
	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.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	24		
	Sub Total Carried Forward				

ltem	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	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		

### ELECTRICAL INSTALLATION

#### Internal Installation

# Block Ex-T1 - 4 Seater Toilets

ltem	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				

ltem	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				

ltem	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	<u>Conduit Boxes</u>				
	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	2.5mm <sup>2</sup> 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	4mm <sup>2</sup>	m	0		
	Sub Total Carried Forward				

ltem	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		
	Wall mounted Bulkhead 2 x 18W PL CFL	No	6		

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	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	2			
12,2	35mm <sup>2</sup> Bare copper earth wire	m	20			
12,3	Testing and installation of installation	Sum	1			
Total for in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)					

### ELECTRICAL INSTALLATION

#### Internal Installation

# Block Ex-T2 - 8 Seater Toilets

ltem	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	40		
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	100		
3,3	25mm PVC Conduit	m	100		
	Sub Total Carried Forward				

ltem	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	In Ceiling space and Timber work:				
3,4	20mm PVC Conduit	m	40		
3,5	25mm PVC Conduit	m	40		
4	<u>Conduit Boxes</u>				
	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	24		
5	<u>Wall Boxes</u>				
	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	4		
6	PVC Wiring				
	PVC Wiring in conduits:				
6,1	2.5mm <sup>2</sup> for lights 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	100		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

ltem	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	4		
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	16		
9,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	12		

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	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	2			
12,2	35mm <sup>2</sup> Bare copper earth wire	m	20			
12,3	Testing and installation of installation	Sum	1			
Total for in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)					

### ELECTRICAL INSTALLATION

#### Internal Installation

## Block X1- 4 Seater Toilets

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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> 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	2.5mm <sup>2</sup>	m	50		
7,2	4mm²	m	0		
	Sub Total Carried Forward				

ltem	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		

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	<u>Other</u>					
12,1	1,5m earth spike complete with clamps	No	2			
12,2	35mm <sup>2</sup> Bare copper earth wire	m	20			
12,3	Testing and installation of installation	Sum	1			
Total for in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)					

### ELECTRICAL INSTALLATION

#### Internal Installation

## Block X2- 4 Seater Toilets

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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> 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	4mm <sup>2</sup>	m	0		
	Sub Total Carried Forward				

ltem	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		

ltem	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	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	2		
12,2	35mm <sup>2</sup> Bare copper earth wire	m	20		
12,3	Testing and installation of installation	Sum	1		
Total for in	ternal installation Carried to Summary of Cost (Ex	cl.VAT)			

## LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

#### ELECTRICAL INSTALLATION

#### Internal Installation

#### Block X3- 4 Seater Toilets

ltem	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	T			
	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	2.5mm <sup>2</sup> 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				

ltem	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		

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	<u>Other</u>					
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 in	Fotal for internal installation Carried to Summary of Cost (Excl.VAT)					

## LIMPOPO : PUBLIC WORKS, ROAD AND INFRASTRUCTURE

#### ELECTRICAL INSTALLATION

#### Internal Installation

#### Block Z - 10 Seat Enviroloo

ltem	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				

ltem	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	<u>Conduit Boxes</u>				
	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	<u>Wall Boxes</u>				
	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	2.5mm <sup>2</sup> 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	4mm <sup>2</sup>	m	0		
	Sub Total Carried Forward				

Brought Forward thes installation of SABS approved type 16A inface type light switches. Final paint II be confirmed at a later stage, hall however be made as specified in specification. All boxes for flush easured elsewhere.				
installation of SABS approved type 16A Irface type light switches. Final paint Il be confirmed at a later stage, hall however be made as specified in specification. All boxes for flush				
Iface type light switches. Final paint Il be confirmed at a later stage, hall however be made as specified in specification. All boxes for flush				
ау	No	2		
gs				
very to site, storage and installation of becified light fittings complete with ubes. Allowance must be made in the the required fixing materials and				
e equal and similar approved to the d manufacture.				
nted fitting 2x18W CFL - Interior	No	14		
	No	6		
n		ted fitting 2x18W CFL - Interior No d Bulkhead 2 x 18W PL CFL No	ted fitting 2x18W CFL - Interior No 14 d Bulkhead 2 x 18W PL CFL No 6	ted fitting 2x18W CFL - Interior No 14

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	<u>Other</u>										
12,1	1,5m earth spike complete with clamps	No	2								
12,2	35mm <sup>2</sup> Bare copper earth wire	m	20								
12,3	Testing and installation of installation	Sum	1								
Total for in	otal for internal installation Carried to Summary of Cost (Excl.VAT)										

#### ELECTRICAL INSTALLATION

#### PUBLIC ADDRESS

ternal li	nstallation		PUBLIC AI	DRESS	
ltem	Description	Unit	Quantity	Rate	Amount
	PUBLIC ADDRESS				
1	Provide the sum of R35,000-00 for Installation of Access Control and related accessories	ltem	1		
	Control and related accessories				
	Contractors Markup	Item			
	Contractors Attendance	ltem			
tal for	installation Carried to Summary of Cost (Excl.VAT)				

Area Lighting

#### ELECTRICAL INSTALLATION

tem	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.	25		
1,2	3m galvanised steel poles	No.	25		
1,3	Excavation and backfilling in soft soil	m³	3,6		
1,4	Excavation and backfilling in hard rock	m³	18		
1,5	6mm <sup>2</sup> 4 core PVC SWA Cable	m	500		
1,6	6mm <sup>2</sup> BCEW	m	500		
	Treminations:				
1,8	6mm <sup>2</sup> 4 core PVC SWA Cable	No	20		
1,9	6mm <sup>2</sup> BCEW	No	20		
1,10	Electrical Danger tape	m	500		

#### 71

HVAC

#### ELECTRICAL INSTALLATION

Internal Installation

ltem Description Unit Quantity Rate Amount HVAC Provide the sum of R 305 790 for Installation of HVAC 1 Item 1 Contractors Markup Item Contractors Attendance Item Total for installation Carried to Summary of Cost (Excl.VAT)

ІСТ

#### ELECTRICAL INSTALLATION

Internal Installation

ltem	nstallation Description	Unit	Quantity	Rate	Amount
	ІСТ				
1	Provide the sum of R288968,40 for Installation of ICT and related accessories in the administration block	ltem	1		
	Contractors Markup	Item			
	Contractors Attendance	ltem			
tal for	installation Carried to Summary of Cost (Excl.VAT)				

ITEM	DESCRIPTION	AMOUNT
1	MV Reticulation	
2	LV Reticulation	
3	Block A - Administration Block	
4	Block Ex-C1 - 3 Classroom Block	
5	Block Ex-C2 - 4 Classroom Block with Stores	
6	Block Ex-C3 - 4 Classroom Block with Stores	
7	Block Ex-C4 - 4 Classroom Block with Stores	
8	Block Ex-C5 - 4 Classroom Block	
9	Block Ex-C6 - 4 Classroom Block with Stores	
10	Block Ex-T1 - 4 Seater Toilets	
11	Block Ex-T2 - 8 Seater Toilets	
12	Block X01 - 4 Seater Toilets	
13	Block X02 - 4 Seater Toilets	
14	Block X03 - 4 Seater Toilets	
15	Block Z01- 10 Seater Mixed Toilets	
13	Public Address	
17	Area Lighting	
18	HVAC	
19	ICT	
	TOTAL CARRIED TO FINAL SUMMARY	

## NKGONYELETSE SECONDARY SCHOOL ELECTRICAL WORKS

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	1	70		SECTION NO. 3				
3 3	1 1	70 70		BILL NO.1 BULK EARTHWORKS				
					114			
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	35 895		
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	7 179		
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	1 795		
3	1	70		Extra-over for	H3			
3	1	70	5	Intermediate for excavation	m3	449		
3	1	70	6	Hard rock excavation	m3	90		
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	1 795		
3	1	71	9	Overhaul	m.km	8 974		
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	276		
				BULK EARTHWORKS	ST			

1 1		I				
3	2 2	73 73	SECTION NO. 3 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			
	2	74	Doducing fittings			
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	m	1 050	
			wide			

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	1 050	
3	2	74		Extra-over item (a) above for:	H3		
3	2	74	3	Intermidiate excavation	m3	189	
3	2	74	4	Hard rock excavation	m3	28	
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	58	
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	58	
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	630	
3	2	74	15	90mm diameter uPVC Class 12 pipes	m	420	
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	378	
3	2	74	19	Selected fill material	m3	630	
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	m3	5	
3	2	75	22	anchor blocks, filling where ordered by the engineer Supply, deliver to site and erect 100KL Prestressed steel tank	No	1	
				complete with 6m stand,			
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 x 90 mm T piece section	No	25	
3	2	75	26	90mm diam. Gate valve	No	2	
3	2	75	27	75 mm diam. Gate valve	No	2	

					•		•	•
3	2	75	28	Supply and install 75mm X 32mm dia Saddles	No	28		
3	2	75	29	32 mm diam. Gate valve	No	0		
3	2	75	30	Ref. 617 welded mesh in floor/walls/footing/	m2	60		
				slab				
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	ltem	1		
3	2	75		FIRE BOOSTER PUMP	НЗ			
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 50 mm valves (90 mm and 90mm), Brass Non Return valve (90 mm), Brass In-line Strainer (90 mm), fittings and pipings	No	1		
				WATER SUPPLY	ST			
3	3	77		SECTION NO. 3				
3 3	3 3	77 77		BILL NO.3 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		<u>Vitrified clay pipes, etc.</u>	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	77		uPVC Pipes and fittings	H4			
3	Ŭ		1					
3 3	3	77		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				

				1	1		
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			
		70					
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	320	
	-		-				
3	3	78		EXCAVATION	H2		
3	3	78		Excavate in all materials for trenches, backfill, compact	H3		
Ū	Ū	70		and dispose of surplus material for sewers up to 160mm in			
				diameter for depths:			
3	3	78	2	Up to 1.5m	m3	336	
3	3	78	3	Over 1.5m up to 2.5m	m3	0	
3	3	78	4	Over 2.5m up to 3.5m	m3		
3	3	78		Extra-over item (a) above for:	НЗ		
3	3	78	5	Intermidiate excavation	m3	224	
2	2	70	0			47	
3	3	78	6	Hard rock excavation	m3	17	
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		
			0			044	
3	3	78	8	From other necessary excavations on site	m3	241	
3	3	78	9	By importation from designated borrow pits	m3		
	1		I	'	1	ı	

3	3	78		WORK GROUP 146	H4		
3	3	78		<u>SEWERS</u>	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	320	
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	3	
3	3	79		110mm 45 degree plain bend	m	2	
3	3	79	14	110mm 45 degree plain junction	m	1	
3	3	79	15	160mm 90 degree plain bend	m	0	
3	3	79	16	160mm 45 degree plain bend	m	0	
3	3	79	17	160mm 45 degree plain junction	m	0	
3	3	79		MANHOLES	H2		
3	3	79		Supply and construct pre-cast concrete manholes,	H3		
				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)			
3	3	79		1000mm dia. Manholes	H3		
3	3	79	18	up to 1.5m	No	6	
3	3	79	19	over 1.5m up to 2.0m	No	0	
3	3	79	20	over 2.0m up to 2.5m	No	0	
3	3	79	21	over 2.5m up to 3.0m	No	0	
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	115	
3	3	79	23	Selected fill material	m3	192	
3	3	79		SEWER TREATMENT PLANT	H2		
3	3	79		<u>Concrete</u>	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	m3		
				concrete plus anchor blocks, filling where ordered by the engineer			
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	ltem	1	

3	3	79		Grease Trap	H3		
3	3	79	30	Construct grease trap as per specification	ltem	0	
3	3	79		<u>1-4 Cement plaster finished with a wooden trowel on</u> 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	ltem	1	
				SEWER RETICULATION	ST		
3	4	81		SECTION NO. 3			
3	4 4	81 81		BILL NO.4 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			
5	4	01		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	877	
3	4	81	7	Intermidiate excavation	m3	22	
3	4	81	8	Hard excavation	m3	3	
3	4	81	9	Overhaul	m .km	903	

## PROVISONAL BILLS OF QUANTITIES

3	4	81		<u>SUBBASE</u>	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	1 536		
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	1 536		
3	4	82		Stabilizing agent	H3			
3	4	82	13	Ordinary Portland cement	t	44		
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	1 035		
3	4	82		Process base material by the following processes, as relevant and use in base	H3			
3	4	82	18	Stabilization	m3	1 035	R 45.00	R 46 575.00
3	4	82		Stabilizing agent	H3			
3	4	82	19	Ordinary Portland cement	t	75		
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	450		
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	2 780		
3	4	82	23	Supply and lay 80mm thick segmented paving blocks with 20mm sand	m2	670		
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	3 450		
3	4	82		KERBING AND CHANNELING	H2			
3	4	82	26	Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7	m	420		
3	4	82	27	Precast concrete kerbs Figure 5	m	338		
3	4	82		TESTING OF FILLING MATERIAL AND COMPACTION	H2			
3	4	82		<u>GENERAL</u>	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	ltem	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)	ltem	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:			
		02		(b) Compared material	m <sup>3</sup>		
3	4	83		(b) Cemented material Excavating material from an existing pavement and /or underlying fill in restricted areas	m <sup>3</sup>	0	
3	4	83	32				
3	4	83		(a) Extra over item 38.01 for bituminous material excavated separately	m2	Rate Only	
3	4	83	33	(b)Extra over item 38.04 for other existing pavement			
	_			(ii) Cemented material	m <sup>3</sup>	Rate Only	
3	4	<b>83</b>	24	Sawing or cutting asphalt or cemented pavement layers			
3	4	83 83	34 35	(a) Sawing asphalt	m2	0	
5	4	00	55	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	m³	0	
				(ii)Exceeding 5m2 but not 100m2	m <sup>3</sup>	0	
3 3	5 5	85 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	m³	0	
				Chemical stabilizing agent: (a) Ordinary portland cement	t	0	
3	5	85		(b) Slaked road lime	t	Rate	
3	5	85				Only	
3	5	85		Provision and application of water for curing	kl	0	
				PRIME COAT Prime coat:			
				(a) MC-30 cut back bitumen	litre	0	
3	5	85		(b) MSP1	litre	Rate	
3	5	85				Only	
				Aggregate for blinding	m²	Rate Only	
3	5	85		Extra over item 41.01 for applying the prime coat in areas accessible only to hand held			
3	5	85		equipment	litre	0	
3	5	85		ASPHALT PAVEMENTS AND SEALS			
3	5	85		Asphalt surfacing ( 60/70 penetration grade bitumen)			
				(a) Medium continously graded asphalt			
				(i)Thickness -30mm	m²	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		
3	5	85	1	ROADS AND PARKING	ST			
3	4	81		SECTION NO. 3				
3	4	81 81		BILL NO.5 STORMWATER DRAINAGE				
		•		Preambles_	H4			
3	5	85		Model Preambles for Trades 2008 as published by the				
3	5	85	2	Association of South African Quantity Surveyors shall apply.				
3	5	85	3	SUPPLEMENTARY PREAMBLES	H4			
	5	00	5	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				
3	5	85	5	that prior approval is obtained from the architect.	H4			
2	5	95			Π4			
3	5 5	85 85		Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings				
			6	Wire gratings	H4			
3	5	85	6	Descriptions of gutter outlets, etc shall be deemed to include				
3	5	85	7	wire balloon gratings				
				Exposed concrete surfaces	H4			
	_			Exposed surfaces of concrete stormwater channels, cover slabs, inspection eve marker slabs, gulley tops, cleaning eye				
3	5	85		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			
3	5	86			НЗ	0.05		
3	5	86		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for stormwater channel	m3	365		
3	5	86	11					
3	5	86	12	Extra-over item (a) above for:	H3			
		_		Intermidiate excavation	m3	164		
3	5	86		Hard rock excavation	m3	55		
				BEDDING AND BACKFILLING	H2			
3	5	86		Provision of Bedding from Trench Excavation	НЗ			
3	5	86	14	Selected granular material for bedding	m3			
3	5	86	15	Selected fill material and backfilling	m3			
3	5	86						
3	5	86		WORK GROUP 146	H4			
				CONCRETE AND REINFORCEMENT	H4			
				Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced	m2	325		
				Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm	m3	33		
3	5	86	16	concrete plus anchor blocks, filling where ordered by the engineer				
I				I	l		l	

				High-Tensile Welded mesh	H3		
3	5	86	17	Ref. 245 welded mesh in floor slab	m2	325	
-				Ref. 617 welded mesh in floor slab	m2		
3	5	86		Mild steel bars	kg		
-			10				
3	5	86	18	CONCRETE PIPES	H4		
				Supply, lay and bed pipes complete with couplings	H3		
				450mm Diameter C50	m	60	
				600mm Diameter C50	m	20	
3 3	5 5	86 86		Supply and lay RS40 Grating Unbanded and Banded Rectagrid or similar approved Grid for	НЗ		
				Storm water drainage			
3	5	86	19	2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen	No	2	
				1 000 x 500 x 50 x 4.5mm RS40 Grating Banded Bitumen	No	1	
				Supply and install 60 x 60 x 6mm Angle Iron cast into concrete	m	6	
3 3	6 6	88 88		SURFACE V-CHANNELS	H2		
3	6	88		In-situ 20 MPa/19mm Concrete open stormwater channels	НЗ		
3	6	88		finished on all exposed surfaces with woodfloat finish and with angles rounded, cast in approximately 2m lengths			
3	6	88		with angles rounded, cast in approximately 211 rengins 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			
3	6	88		excavations and filling and laying to falls			
3	6	88		V-shaped channel 1200mm wide, 105mm (average) thick and 50 mm deep (concrete = $0,10 \text{ m}/\text{m}$ ) next to existing wall and	m	280	
				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.	НЗ		
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			
3	6	88		surface under, top soil filling and planted with grass		400	
				150mm Thick lining to open ends of outfall spreaders, ditches, etc.	m2	120	
3	6	88		STORMWATER DRAINAGE	ST		
3	6	88	2	SECTION NO. 3 BILL NO.6 FENCING AND LANDSCAPING			
3	6	89			H4		
3	6	89		Preambles Model Breambles for Trades 2009 as published by the			
~			_	Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.			
3	6	89	3				
3	6	89	4	SUPPLEMENTARY PREAMBLES	H4		
				Items, materials or methods	H4		
3	6	89	5	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			
3	6	89		that prior approval is obtained from the architect.			
3	6	89	6				

TOTAL

				WORK GROUP 124	H4		
3	7	92	1				
3	7	92	2	GALVANIZED STEEL PALISADE FENCING	H2		
				Palisade fencing, consisting of 75 x 75 x 4mm posts with	H3		
3	7	92	3	230 x 230mm foot plate welded on, 50 x 50 x 5mm angle section top and bottom rail, filled in with 40 x 40 x 4mm			
3	7	92	4	spear pales at 125mm centres. Posts to be spaced at 3.0m			
3	7	92	5	and cast in 600 x 600 x 800mm class C concrete bases on 600 x 600 x 150mm selected fill and with 200 x 200mm			
_				Class C concrete ground beam along full length of fence			
3	7	92	6	Supply and install 2400mm high fencing	m		
				Supply and install 2100mm high fencing	m		
				Supply and install 1800mm high fencing	m	1 340	
				Gates formed of 50 x 75mm rectangular hollow section frame with two horizontal braces and filled in with 10mm	H3		
				diameter solid vertical bars at 92mm centres complete with			
				two 254 x 40 x 5mm hook and band hinges with flange built into wall, barrel bolt to receive padlock, and vertical			
				extension 600mm long with 6 tying holes for and including			
				barbed wire, all as detailed on drawing 107 attached as annexure.			
				Double pedestrian gate 1780mm wide x 2400mm high with 254	No	1	
				x 40 x 5mm hook and band hinges with flange built into walls, barrel bolt, and 600mm vertical extensions for razor wire coil			
				(Gate type G6)			
				Double gate 2890mm wide x 1915mm high with 254 x 40 x	No		
				5mm hook and band hinges with flange built into walls and barrel bolt (Gate type G7)			
				Sliding gate 6000m wide x 2454mm high complete with rollers	No	1	
				and v-track including 600mm extension on top for razor wire			
				coil (Gate type G8)			
				FENCING AND LANDSCAPING	ST		
				SUMMARY			
				Bulk Earthworks	Page	-72-	
				Water Supply	Page	-76-	
				Sewer Reticulation	Page	-80-	
				Roads and Parking	Page	-84-	
				Stormwater Drainage	Page	-87-	
				Fencing	Page	-91-	
				7074	<u>0</u>		 

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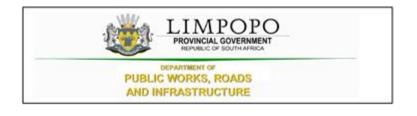
## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT NKGONYELETSE SECONDARY SCHOOL

	FINAL SUMMARY				
Section No		Page No		Amount	
1	PRELIMINARIES AND GENERAL	1/29			L
2	4 SEATER ENVIROLOO TOILET BLOCK X 3	2/41			
3	MEDIUM ADMINISTRATION BLOCK	3/40			
4	6 SEATS WATERBORNE TOILET BLOCK	4/38			
5	RENOVATION (12 ENVIROLOOS & 23 CLASSROOMS)	5/42			
6	PROVISIONAL SUMS	6/7			 
	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 R1 600 000.00 ( One Million Six Hundred Thousand ) 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.	ltem			
	Carried Forward		R		

### LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT NKGONYELETSE SECONDARY SCHOOL

	FINAL SUMMARY				
Section		Page		Amount	
No		No			
	Brought Forward		R		
	Inflation:				
	Allow an amount of R1 600 000.00 ( One Million Six				
	Hundred Thousand ) for price adjustment for inflation.				
		Item			
	Sub- Total Excluding VAT		R		
	Тах				
			R		
	Carried to Form of Tender		R		

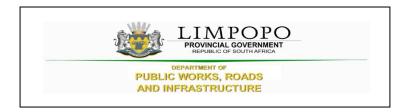
## PART C3 SCOPE OF WORKS



## PART C3.1: SPECIAL NOTES TO BIDDERS

The following special conditions are for compliance and attention to bidders:

- 1.1. LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2. LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right to appoint the bidder that proves to be fully capable and qualified to handle and execute the job.
- 1.4. The proposals submitted must be in line with the detailed specification.
- 1.5. LDPWR&I reserve the right to cancel or withdraw this bid if:
  - i. Due to changed circumstances, there is no longer a need for this services; or
  - ii. Funds are no longer available to cover the total envisaged expenditure; or
  - iii. No acceptable bids are received; or
  - iv. There is a material irregularity in the Bid process.
- 1.6. In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.
- 1.7. Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.
- 1.8. Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.
- 1.9. Successful bidder will be required to sign and enter into a formal contract upon the award.
- 1.10. Notwithstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.
- 1.11. Bid documents must be submitted physically to the closing address as reflected on the Request for Quotations/Tender.
- 1.12. Quotations received after the closing date and time will not be accepted for consideration.
- 1.13. This request for bid document contains confidential information about LDPWR&I, which has been provided to supply potential bidders with the data necessary to provide a holistic response.
- 1.14. No part of the contents may be used, copied, disclosed or conveyed in whole or in part to any party, in any manner whatsoever without the prior written permission of LDPWR&I.
- 1.15. Any reproduction or transmission of information contained in this document except for the sole purpose of responding to this bid is strictly prohibited.
- 1.16. References to LDPWR&I must not be made in any literature, promotional material, and brochures or sales presentations without the express written consent of LDPWR&I.



# PART C3.2: OHS SPECIFICATIONS



# **PART C4 SITE INFORMATION**



# C4.1 DRAWINGS

TABLE 1: SUMMARY FOR HUMAN CAPITAL									
	BOYS	GIRLS	TOTAL						
GRADE 08	45	26	71						
GRADE 09	38	39	77						
GRADE 10	41	32	73						
GRADE 11	32	47	79						
GRADE 12	47	36	83						
TOTAL NO. LEAR	TOTAL NO. LEARNERS 383								
TOTAL OF EDUCATORS									

TABLE 2A: DEMOLITION WORKS	AREA
BLOCK EX-A : EXISTING ADMINISTRATION BLOCK	243.00 m <sup>2</sup>
TOTAL AREA OF BUILDINGS TO BE DEMOLISHED	243.00 m <sup>2</sup>

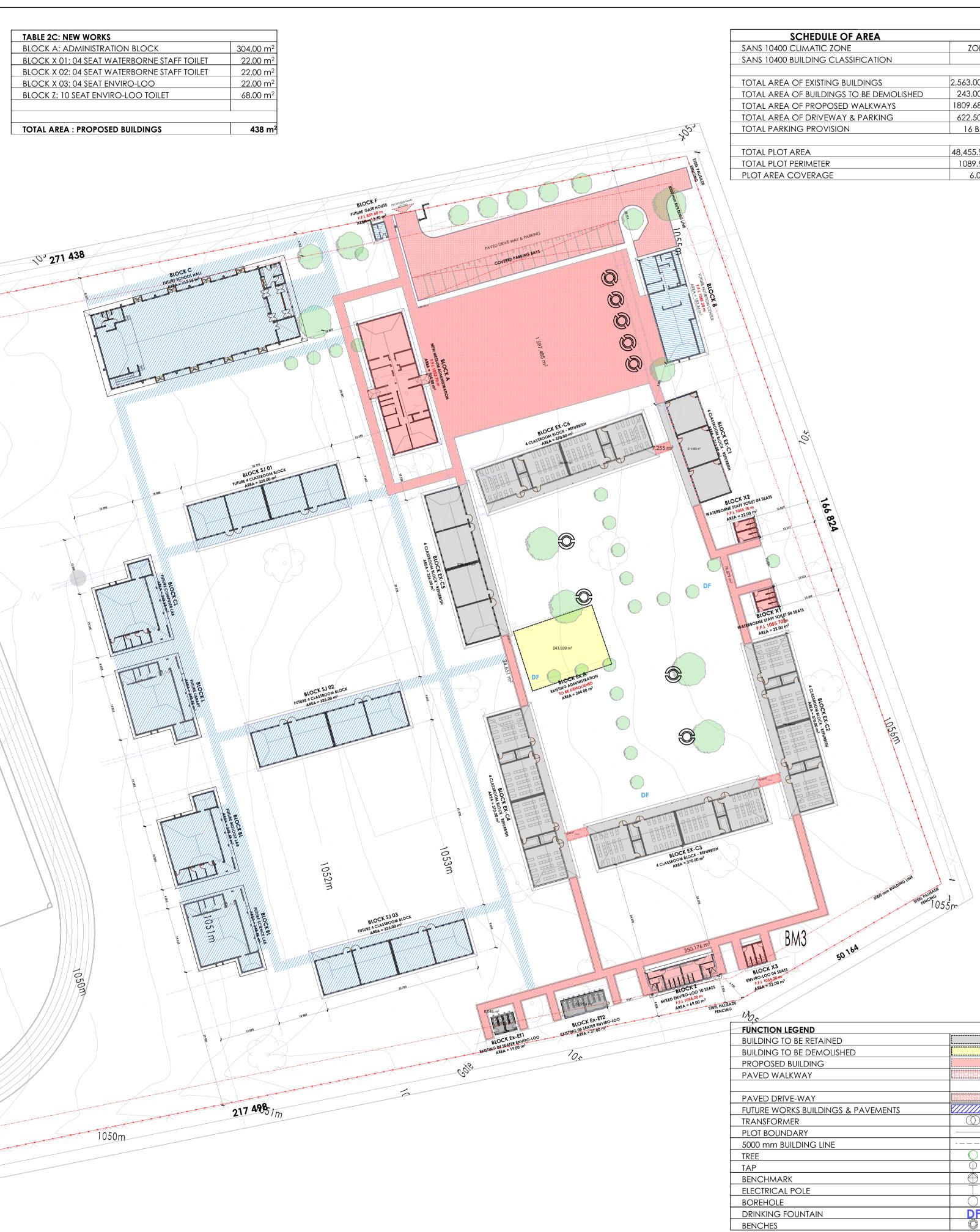
TABLE 2D: CLASSROOMS SUMMARY	
TOTAL NUMBER FOR ALL CURRENTLY PROVIDED CLASSROOMS	22
TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS	22
TOTAL NUMBER FOR ALL NEW CLASSROOMS	0

TABLE 2B: RENOVATION   REFURBISHMENT	AREA
BLOCK EX-C1: 3 CLASSROOM BLOCK	213.00 m <sup>2</sup>
BLOCK EX-C2: 4 CLASSROOM BLOCK	370.00 m <sup>2</sup>
BLOCK EX-C3: 4 CLASSROOM BLOCK	370.00 m <sup>2</sup>
BLOCK EX-C4: 4 CLASSROOM BLOCK	370.00 m <sup>2</sup>
BLOCK EX-C5: 4 CLASSROOM BLOCK	370.00 m <sup>2</sup>
BLOCK EX-C6: 4 CLASSROOM BLOCK	326.00 m <sup>2</sup>
BLOCK EX-T1: 4 SEAT ENVIRO-LOO	22.00 m <sup>2</sup>
BLOCK EX-T2: 8 SEAT ENVIRO-LOO	46.00 m <sup>2</sup>

TABLE 2C: NEW W
BLOCK A: ADMIN
BLOCK X 01: 04 S
BLOCK X 02: 04 S
BLOCK X 03: 04 S
BLOCK Z: 10 SEA
TOTAL AREA · PRO

TOTAL AREA : EXISTING BUILDINGS FOR REFURB 2 087.00m<sup>2</sup>

TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS TOTAL NUMBER FOR ALL NEW CLASSROOMS	0				10° 271 4
				N M	
		bin	× * * * *		
3		****			
3	***				
STEEL PAUSADE					
5000 mm BUILDING LINE					
1046m					
					$2^{1}$
	A.		aveline		
			POWERLINE		
183 921					
ξ					
1047m					
				1049m	
				3	
			1048m		
TABLE 2D: FUTURE WORKS           BLOCK C: MULTI-PURPOSE LARGE HALL	717.17 m <sup>2</sup>				
BLOCK L: LIBRARY BLOCK CL: COMPUTER LAB	248.58 m <sup>2</sup> 248.58 m <sup>2</sup>				
BLOCK SL: SCIENCE LAB BLOCK BL: BIOLOGY LAB	248.58 m <sup>2</sup> 248.58 m <sup>2</sup>	5000 mm Bi			
BLOCK B: NUTRITION CENTER BLOCK F: GATE HOUSE	184.00 m <sup>2</sup> 13.17 m <sup>2</sup>	S000 mm suitenike ture		****	X
BLOCK SJ01: 04 CLASSROOM BLOCK SJ02: 04 CLASSROOM	325.00 m <sup>2</sup> 325.00 m <sup>2</sup>	STREE PALISADE		10	49.
		<u>िं</u> ट्रे.			



DULE OF AREA	
TIC ZONE	ZONE 2
IG CLASSIFICATION	A3
STING BUILDINGS	2,563.00 m <sup>2</sup>
ldings to be demolished	243.00 m <sup>2</sup>
OPOSED WALKWAYS	1809.68 m <sup>2</sup>
IVEWAY & PARKING	622.50 m <sup>2</sup>
ovision	16 BAYS
	48,455.9 m <sup>2</sup>
TER	1089.9 m
AGE	6.05 %

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## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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

#### 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.

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

### 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

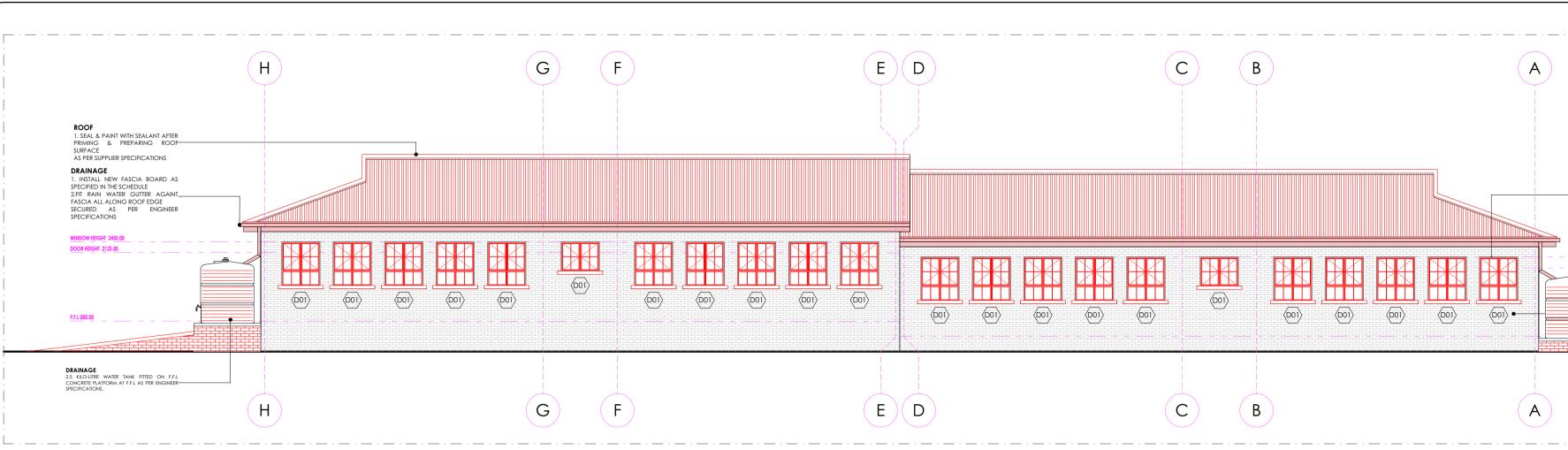
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

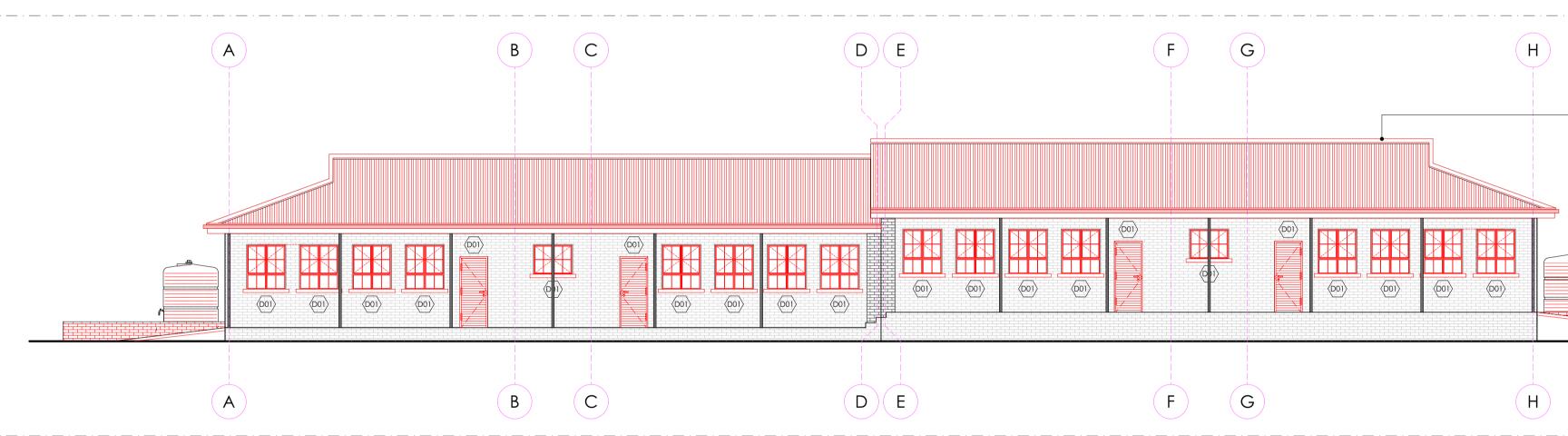
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

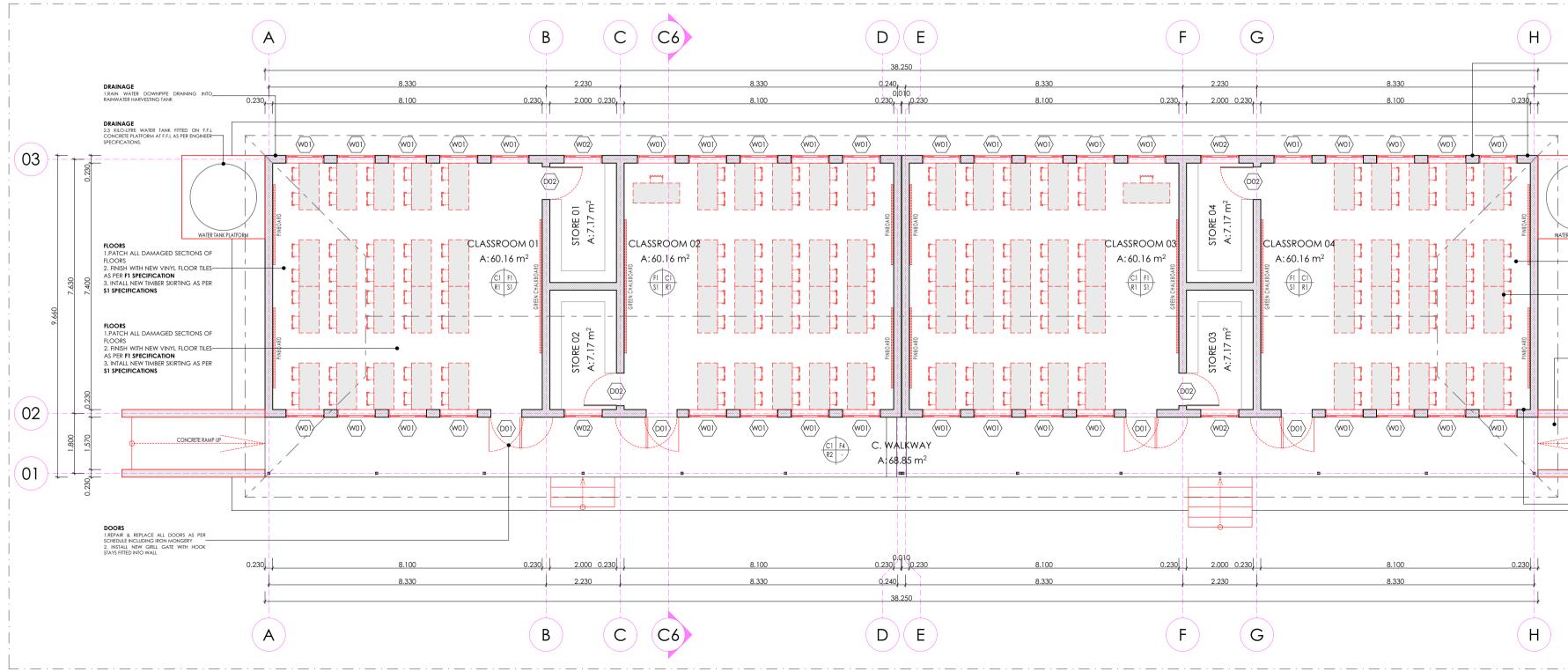
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

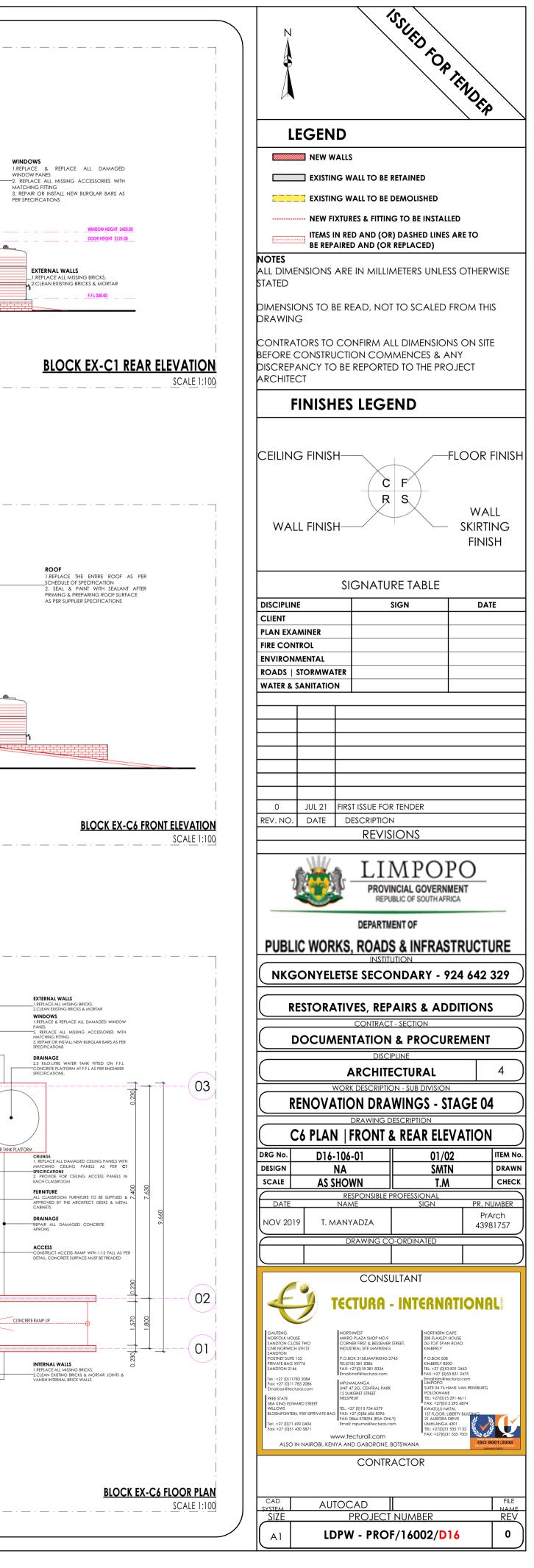
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

<u>Fascia board:</u> 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.









## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 ratina, 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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 SAB\$ 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**

5 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 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 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 veight 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.

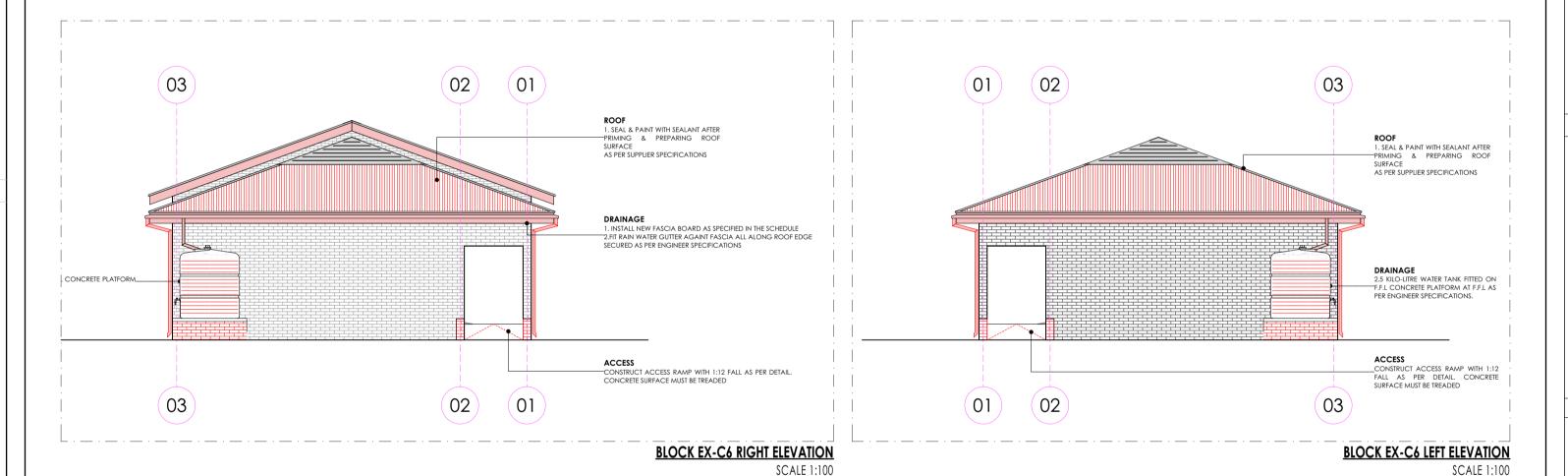
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

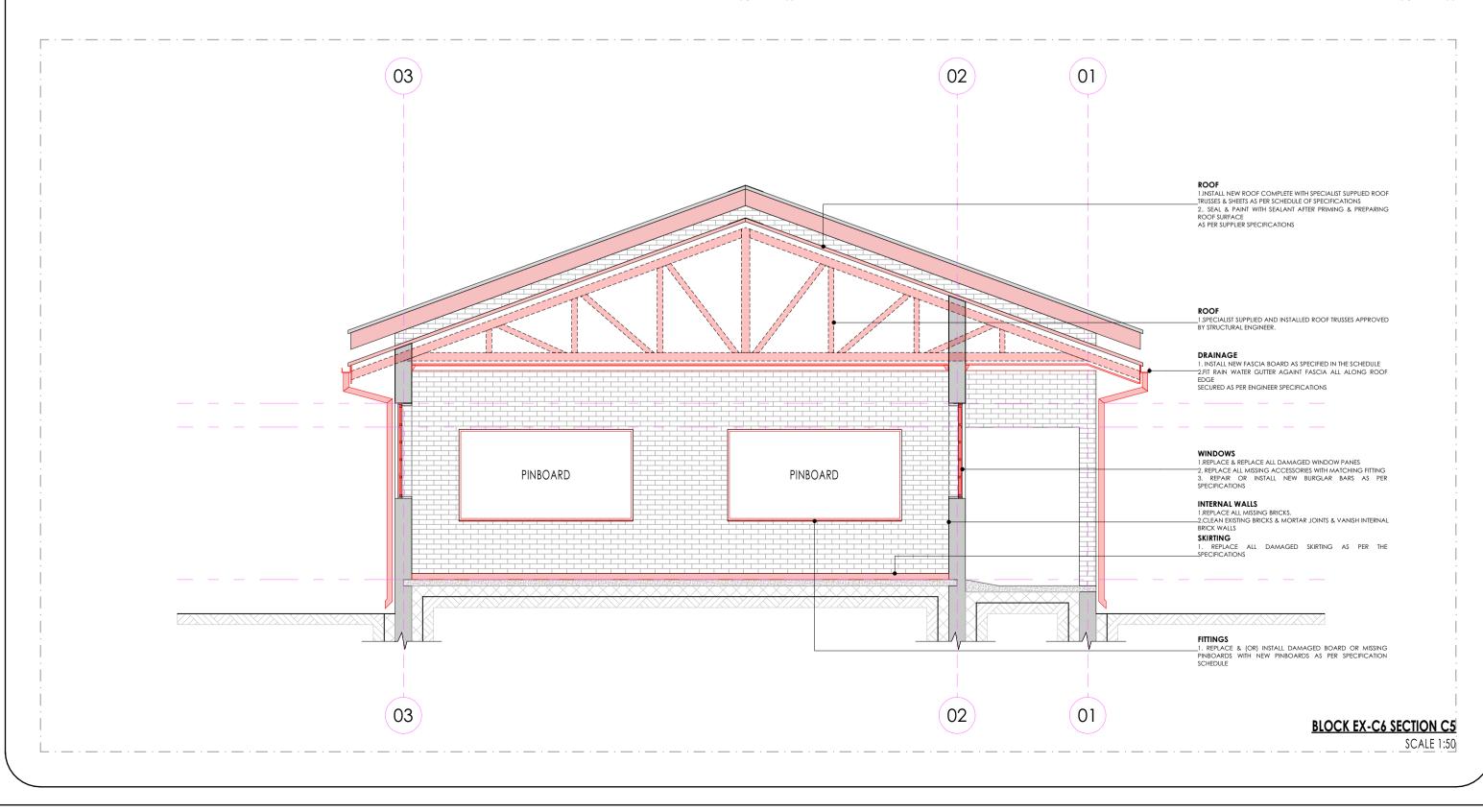
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.

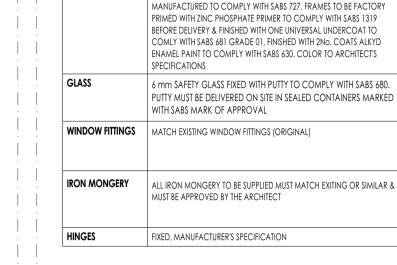
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

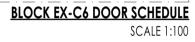
	<u>0.813</u>		<u>, 0.8</u>		
	+ 2125 A-F.F.I		+ 21/25 A-F.F.1		
EXTERIOR DOOR		BURGLAR DOOR (SING	GLE)		
QUANTITY	04	QUANTITY	04		
DOOR DESCRIPTION	813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALIY HORIZONTALLY SLATTED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.	DOOR DESCRIPTION	PAINTED GALVANISED MILD STEE STEEL BARS PLACED AT 100 mm ( SECURITY MESH. COLOR TO ARC SABS 681, GRADE 01 AND FINISH PAINT TO COMPLY WITH SABS 63		
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 STEE		
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 PRIME 2 x COATS GLOSS ENAMEL ( EXTER		
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 CONSISTII PLACED AT 100 mm AT CENTRES AT MESH, TO COMPLY WITH SABS 681, C ALKYDE EGG-SHELL PAINT TO COMF 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 SUPPLIE DOOR STOP - POLISHED BRASS FLOC APPROVED ALUMINIUM ENGRAVING ROOMS		
HINGES	3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES	HINGES	3 No. STAINLESS STEEL MEDIUM DUTT		

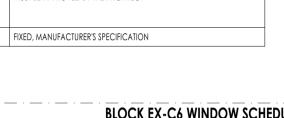




	25
	+
	+
	<u>-</u>
INTERIOR DOOR WINDOW	
QUANTITY 20	
GATE CONSISTING OF 10 x 10 mm MILD INTRES AT A 90° ANGLE, INCLUDING TECT'S SPECIFICATION TO COMPLY WITH ITH TWO COATS ALKYDE EGG-SHELL ITH TWO COATS ALKYDE EGG-SHELL ITH TWO COATS ALKYDE EGG-SHELL ITH TWO COATS ALKYDE EGG-SHELL	ELIVERED COMPLETE WITH NGES, PIVOTING
EL SQUARE WELDED TO FORM FRAME EL SQUARE WELDED TO FORM FRAME STANDARD 1.6 mm GALVANISED MILD STEEL DOUBLE REBATE PRESSED METAL TO COMPLY WITH SABS 1129 COMPLETED WITH LUGS & FIXTURES. FRAME PROFILES TO SUITE WALL THICKNESS (115 mm 230 mm OR 345 mm AS PER FLOOR PLANS FRAME STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL DOUBLE REBATE PRESSED MANUFACTURED TO COMPLY WITH SABS 727. PRIMED WITH ZINC PHOSPHATE PRIMERT OC BEFORE DELIVERY & FINISHED WITH ONE UNIVER COMPLY WITH SABS 727. PRIMED WITH ZINC PHOSPHATE PRIMERT OC BEFORE DELIVERY & FINISHED WITH ONE UNIVER COMPLY AND COMPLY	FRAMES TO BE FACTORY OMPLY WITH SABS 1319 ERSAL UNDERCOAT TO
AER FINISH WASHABLE ENAMEL PAINT FINISH IN COMPLIANCE WITH SABS 723 FOR PRIMER. SABS 681 GRADE 01, FINISHED W ERIOR QUALITY) COAT, COLORS TO ARCHITECT APPROVAL.	
TING OF 10 x 10 mm MILD STEEL BARS DOOR FINISH PRIME WITH WOOD PRIMER IN COMPLIANCE WITH SABS TYPE 02, PAINT 01 UNIVERSAL UNDER COAT TO COMPLY WITH SABS 630 TYPE 0. COLOR UIT WITH SABS MARK OF APPROVAL	
GRADE 01 & FINISH WITH 2 COATS       TO ARCHITECT'S APPROVAL         APLY WITH SABS 630 COLOR TO       .	L)
IER DOR MOUNTED NG SIGN PLATEE FOR APPROPRIATE IN APPROVED LOCKSET AS PER SUPPLIER. DOOR STOPE - POLISHED BRASS FLOOR MOUNTED ARCHITECT APPROVED ALUMINIUM SIGN PLATE FOR APPROPRIATE ROOMS	
TY BUTT HINGES HINGES 3 No. STAINLESS STEEL MEDIUM DUTTY BUTT HINGES HINGES FIXED, MANUFACTURER'S SPECIFICATION	







**BLOCK EX-C6 WINDOW SCHEDULE** SCALE 1:100

# **SANITARY SCHEDULE**

WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN blank flush plate.

## Z2: CERAMIC PARAPLEGIC WC

**Z3: CERAMIC PARAPLEGIC WC** (CC)- CONCEALED CISTERN suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 900 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 900 outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with guality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Z4: CERAMIC WALL HUNG URINAL 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

# <u>SO1: SHOWER</u>

fittina 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 yous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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. Bring BASIN 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 1/4 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 t

B3: WHITE GLAZED PORCELAIN WHB (VANITY) eramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with INo. 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 stric accordance to manufacture's specifications.

# B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) Ceramic fire day SobAustin 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 Be: MEDIC BASIN & FITTINGS (SICK BAY) Wireous china Stu x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action with the second study a study a study of the second s

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 t 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

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 overam swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFI X3: CERAMIC SINK Ceramic firectay 435 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealer

## brackets supplied with all necessary accessories (all to be acid resistant X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

## piece at height of 915mm AFFL SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa 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 dom

## 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, includina Screws, dowels and all necessa accessories in accordance to manufacturer's specifications. K4: SANITARY BIN (PLASTIC) n 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

and plastic wall plugs. Installed as per manufacturer's instructions **K8: PAPER TOWEL DISPENSER** 

# 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 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 Comple

## with Screws K11: HAND DRYER (Hands free)

As per Electrical Engineers specification K12: TOWEL RAIL

# 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 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 \$C0400 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 surrour 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 surrour 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) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut 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 enclose 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 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 Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir

accordance with the manufacturer's instructions

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valv Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewi measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

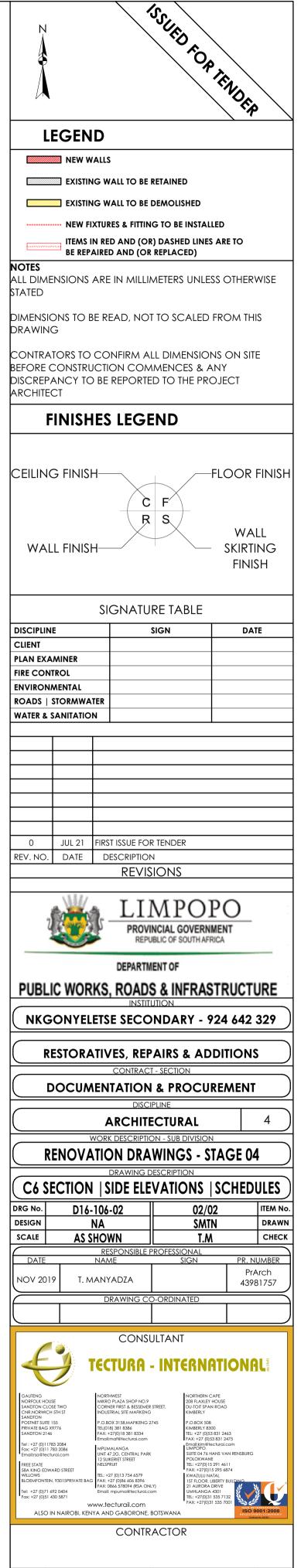
x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

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 bac 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 fo

stainless steel 1018 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with \$\$ fixing screw

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per



AUTOCAD

PRO JECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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

5 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 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 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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 he 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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

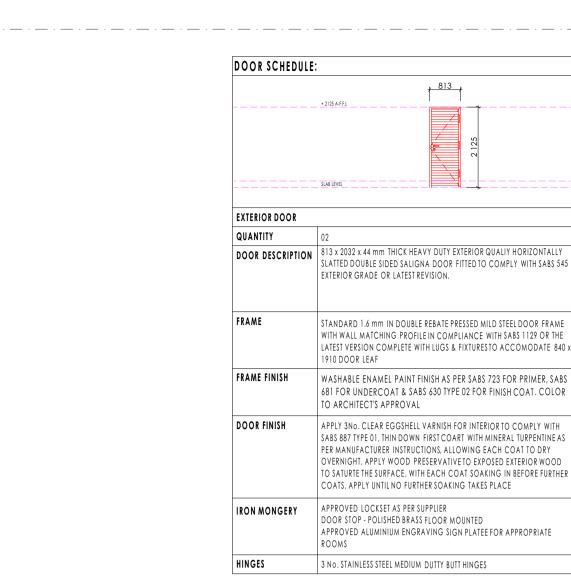
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

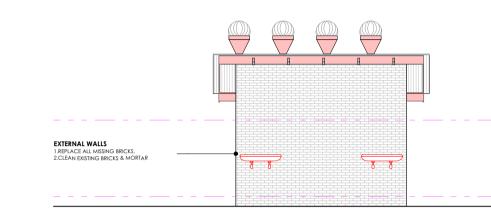
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm 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.

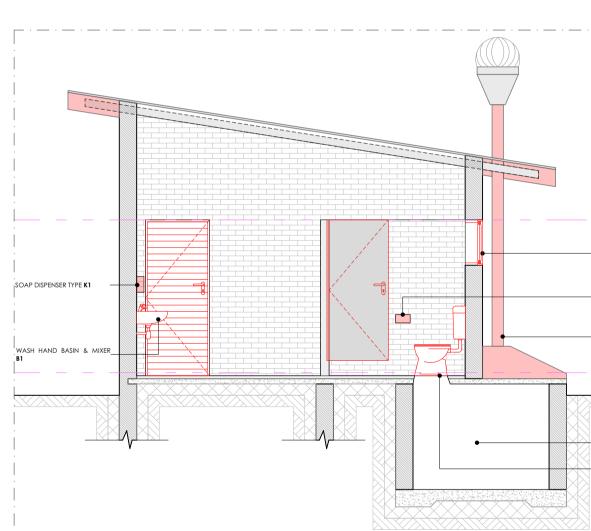
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

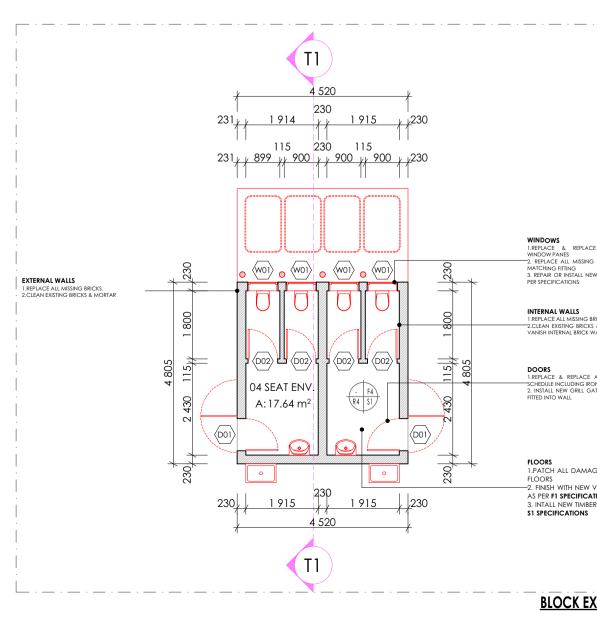
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





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													WC'S U	Y SCHEDUL RINALS & S C STANDARD WC	IOWER	) CISTERN			
													Vitreous chi Thermoset P Installed with	na 90° outlet WC o lastic Seat". Fitted n dual flush ability &	r equal and appr vith Concealed Fl	oved top inlet o Ushing Cistern fo	r WC 6-7 litres adju	-wall pan, Floor Mo ustable with small d specification and ap	discharge valve acc
		+ 2125 A-F.F.L					813		_			     	Vitreous chir necessary fit	C PARAPLEGIC W	al and approved, er's specification ar	nd applicable SA	m back-to-wall pa 3S standards. Flush	in to comply with SA valve to be fitted wi	ABS 497. Fitted with ( th suitable extension
		SLAB LEVEL	2 O						-				Vitreous chi Thermoset P Installed with	na 900 outlet WC lastic Seat". Fitted	r equal and appr vith Concealed Fli complete with all r	oved top inlet o ushing Cistern for necessary fittings	r WC 6-7 litres adju to manufacturer's s	-wall pan, Floor Mo ustable with small d pecification and ap	lischarge valve acc
	BURGLAR DOOR (SING QUANTITY	GLE)			INTERIOR DOOR	04	70		-			 	Z4: CERAMI Vitreous chir	<b>C STANDARD WC</b> a 900 outlet, back	BACK INLET)	with SABS 497. Fi	tted complete with	Back inlet exposed vith suitable extension	
LLY 5 545	DOOR DESCRIPTION	PAINTED GALVANISED MI STEEL BARS PLACED AT 10 SECURITY MESH. COLOR T	0 mm CENTRES AT A 90° A O ARCHITECT'S SPECIFICA	NGLE, INCLUDING TION TO COMPLY WITH		813 x 2032 x 44 mm THICK TIMBER DOOR WITH 3 mm EDGES FITTED TO COMPLY PAINTED TO ARCHITECT'S C	PLY ON BOTH SIDES WITH WITH SABS 545 IN PRESSE	2 CONSOLIDATED	_				Vitreous chin approved h	eavy duty thermose	inlet pan to comp lid, seat and comp	plete with all nec	essary fittings as per	vith matching 7 litre r manufacturer's spe	cifications and appl
.ME THE	FRAME	SABS 681, GRADE 01 AND PAINT TO COMPLY WITH S 50 x 50 mm GALVANISED	ABS 630		FRAME	STANDARD 1.6 mm IN DOU	IBLE REBATE PRESSED MIL		_				76: CERAM Witeous chil two hanger standards. S01: SHOW	brackets and title	wall hang bow with exposed flus	l urinal to comply h-valve, and suit	with SABS 497. Sup able bottle trap c	oplied with suitable 3 hrome finish as per	38mmCP domical g manufacturer's spe
840 x	FRAME FINISH	1 x COAT ZINC CHROM.	ATE PRIMER		FRAME FINISH	LATEST VERSION COMPLETE 1910 DOOR LEAF	E WITH LUGS & FIXTUREST	IO ACCOMODATE 840	_				2mm thick E fitting in corr • Glazed Sh	namelled steel show her position fitted wi	h Shower set and c ccess door as per s	omplying with SA	BS 226 comprising	slip pattern, with rou of approved: and sized to fit space	
-OR TH	FRAME FINISH	2 × COATS GLOSS ENAN	AEL (EXTERIOR QUALITY)		DOOR FINISH	681 FOR UNDERCOAT & TO ARCHITECT'S APPROV APPLY 3No. CLEAR EGGSH	SABS 630 TYPE 02 FOR F AL	FINISH COAT. COLOR	_			   	Chrome Pl     Chrome Pl	ated Shower Head	vith ball jointed con verter mixer-wall ty	pe with sliding w		cealed connections tiled.	s adjustable from 178
E AS OD THER		PLACED AT 100 mm AT C MESH, TO COMPLY WITH S ALKYDE EGG-SHELL PAINT ARCHITECT'S SPECIFICATI	SABS 681, GRADE 01 & FIN TO COMPLY WITH SABS 6 ON	SH WITH 2 COATS		SABS 887 TYPE 01, THIN DO PER MANUFACTURER INSTR OVERNIGHT, APPLY WOOD TO SATURTE THE SURFACE, COATS, APPLY UNTIL NO FU	RUCTIONS, ALLOWING EA PRESERVATIVETO EXPO WITH EACH COAT SOAKI JRTHER SOAKING TAKES	CH COAT TO DRY ISED EXTERIOR WOOD NG IN BEFORE FURTHER	_				B1: WHB & / Vaal Sanita configuratio 'Cobra Wat	yware' vitreous ch n supplied with inte ertech' 15mm chror	na size 560 x 415 grated overflow ar ne pushbutton den	nd chainstay hole nand pillar tap wi	through the centr	AL AND APPROVE t re semi-punched sup t (code KM2.102) me	oplied with a 'Tusco
	IRON MONGERY	APPROVED LOCKSET AS P DOOR STOP - POLISHED B APPROVED ALUMINIUM E ROOMS	RASS FLOOR MOUNTED	OR APPROPRIATE	IRON MONGERY	APPROVED LOCKSET AS PE DOOR STOP - POLISHED BR APPROVED ALUMINIUM EN ROOMS	ASS FLOOR MOUNTED	FOR APPROPRIATE					<b><u>B2: DISABLE</u></b> pillar-tap, w	th 1/4 turn ceramic	hi rounded lavator disc head and blu	y basin to compl e & Red indicato	ors water application	two tap hole config ons and flanged ba	icknut, chrome plat
	HINGES 	3 No. STAINLESS STEEL MED	DIUM DUTTY BUTT HINGES	· · ·	HINGES	3 No. STAINLESS STEEL MED	IUM DUTTY BUTT HINGES	· ·			DOR SCHEDU		manufacture <u>B3: WHITE G</u> Ceramic fire 1No. chromo bottle trap	er's specifications. <b>LAZED PORCELAIN</b> clay size 450x350mm plated tap with f	WHB (VANITY) a oval self-rimming anged backnut (c accessary pipe cor	vanity basin to c ode KM2.102) me	omply with SABS 49 etering tap, mounti	27 in one tap hole co ing kit and angle vo net or vanity slab v	onfiguration supplied alves 400mm long
										ROOF SURFACE			B4: SMALL E Vitreous chir pillar taps, c	ASIN & 2 TAPSTRA a size 455x290mm hrome plated anti-	A SHOWER SET (I wash basin to comp heft plug with spir	oly with SABS 497 Idle plug, slotted	in 2-tap hole confi basin waste, chro	iguration supplied w me plated Bottle Tr	ap, mounting kit an
	WINDOW & DOOR HEIGHT 2125	5.00							MATCHING FITTING 3. REPAIR OR INSTALL PER SPECIFICATIONS	ING ACCESSORIES WITH NEW BURGLAR BARS AS			<b><u>B5: H/DUTY</u></b> ceramic fire pillar tap, C	BASIN & 1No. TAP clay 560x405mm hrome Plated anti-	(FOR LABS) changolar heavy c heft plug with spin	duty basin in one dle plug, slotted	taphole configurat basin waste, chroi	ssories in strict accor tion to comply with me plated Bottle Tra	SABS 497 and RHS h ap, mounting kit an
	F.F.1.000	<u>1.00</u>		1.REPL/ BRICKS	N EXISTING BRICKS				ENVIRO-SPECIALIS 1. CLEAN ALL DEBRI IN 2. REPLACE ALL EN SYSTEM AS SUPPLIED B	SEPTIC TANK VIRO-LOO VENTILATION			specification <b>B<u>6</u>: MEDIC</b> Vitreous chir pillar-tap, w standing ov manufacture	is. <b>EASIN &amp; FITTINGS (</b> Ia 510 x 420mm set th . turn ceramic c erflow tube, chrom er's specifications.	ICK BAY) In rounded lavator isc head and blue plated Bottle Tra	y basin to comply & Red indicate p supplied with	y with SABS 497, in ors water application all necessary pipe	two tap hole config ons and flanged ba connections. Fixed	juration fitted with; 2 acknut, chrome plat
	BLOCK EX-T1 FI		 」 ∟ <u>\</u>	· _ · _ · _	· · · ·	· · ·	· · · ·		BLO	CK EX-T1 RE	AR ELEVATIO	<u>DN</u>	<ul> <li>Mirror type</li> <li>Paper tow</li> <li>Soap dispersion</li> </ul>	n of sanitaryware, a K2. el dispenser K8 and enser type K9. k comprising 2no. ro	pin type K3.	0	Ū		
	_ · · ·	SCALE 1:10				· · ·			· ·		SCALE 1:	100	and grout in SINKS:	compliance to ma	ufacturer's specific	cations and gove	nment standard sp	pecifications. Installa	ition heights as indic
									1. C 2. F	VIRO-SPECIALIST EAN ALL DEBRI IN SEPTIC EPLACE ALL ENVIRO-LC EM AS SUPPLIED BY SPECIA	O VENTILATION		Stainless stee measured), and supplied	el 1000 x 457mm inse Grade 304 (18/10) s with suitable asses	tainless Steel sink t	o comply with SA	BS 906 fitted with:	olded edges. Bowl to Approved Sink mixe ink installation heigh	er- wall type, chrome
										WINDOW & DOO	<u>r</u> he <u>ig</u> ht <u>2125.00</u>	   	Stainless ste elsewhere m	easured), Grade 3	4 (18/10) Stainless	Steel sink to com	iply with SABS 906 f	and folded edges. fitted with: Approve ce to manufacturer's	d Sink mixer- wall to
				SCHEDULE INCLUE	PLACE ALL DOORS AS PER JING IRON MONGERY — GRILL GATE WITH HOOK STAYS								brackets sup		ary accessories (al			ith a centre end wo	aste outlet, fitted to
	WINDOWS 1.REPLACE & WINDOW PAN		_, . . L	· · ·	· _ · _ · _ ·	·			BL(	DCK EX-T1 S			600mm x 50 with Approv and stay. CF	Omm Inset washtrou ed 2No. CP bibtaps , 'P' trap, with deep	gh, manufactured – plain extended o seal and cleaning	chrome plated, c	omplete with sliding	with radiused interno g wall flanges, Un-slo leight = 900mm AFFL	otted sink waste with
	WITH MATCHIN	INSTALL NEW BURGLAR BARS		· · ·		· · ·	· · · ·	· · ·			SCALE 1:		1200 x 553 x fitted with: A nut and plug	pproved 2no wall t with stirrup. CP, Da	vl wall hung washt pe bibtaps, with Sv	vivel Outlet, adju	stable wall flanges	18/10) SS, radiused i and exposed adjust ed on 2no. 25mm sq	able connections. C
	2. REPLACE AL	<b>CIALIST</b> DEBRI IN SEPTIC TANK LL ENVIRO-LOO VENTILATION PLIED BY SPECIALIST.	ENVIRO-SPECI	LIST									SANITA	ght of 915mm AFFL. RY ACCESS T ROLL HOLDER- 2					
		F.F.L 000.00	. 1. CLEAN ALL DEBP	IN SEPTIC TANK ENVIRO-LOO VENTILATION-									Standard sto finish, includ <b>K2: GLASS</b> /	inless steel toilet rol ng screws and dow <u>AIRROR</u>	holder (2 roll) 153m els and all other ne	cessary accessor	ies in accordance t	th Toilet Roll Holder r to manufacturer's sp pevelled edges 4 tim	pecifications.
	2. REPLACE ALL	DEBRI IN SEPTIC TANK L ENVIRO-LOO VENTILATION	EXTERNAL WAL					DOOR	WINDOW & DOOR	HE <u>IG</u> HT <u>2125.00</u>		 	headed min <u>K3: SS WAS</u> 328W x 826H	or screws ' <mark>E BIN</mark> x 203D Waste bin n	anufactured From	18/10 Stainless st		inish, Material Thickn	
	SYSTEM AS SUP	PLIED BY SPECIALIST. .ET PAN TYPE Z1	1.REPLACE ALL MIS 2.CLEAN EXISTING					1.REPLA SCHEDU 2. INSTA	CE & REPLACE ALL D LE INCLUDING IRON MOP LL NEW GRILL GATE WIT ITO WALL	IGERY		 	K4: SANITA 190mm x 32	n accordance to m <b><u>RY BIN (PLASTIC)</u></b> Dmm x 600mm Plasti pr's specifications.			100 Liners per pac	k Complete with all	necessary accessori
												 	K5: SOAP H Single semi-r	OLDER		with all necessary	accessories and ir	nstalled in accordan	ce to manufacturer
	BLOCK E	EX-T1 SECTION T SCALE 1:5		· · ·		· · ·		· · ·	<u></u>	DCK EX-T1 S	IDE ELEVATIO		Stainless ste manufacture <b>K7: GRAB R</b>	el 914 x 90 x 32mm er's instructions. <b>AILS (RIGHT/LEFT H</b>	diameter wall (re	C		n complete with SS	
	_ · _ · _ · _ ·	] · _ · _ · _	· · · ·	· · ·	· · · _					· ·	- · · · _		and plastic v K8: PAPER T	vall plugs. Installed OWEL DISPENSER	s per manufacture	r's instructions.		n high centre flange el. Complete with sc	
		      	+ 2425 A-F.F.L	ILE:	<u>,500                                   </u>					0			installed in a <u>K9: SOAP D</u> 115W x 270H	ccordance to man ISPENSER/DISH- W x 110D Stailess stee	facturer's specifice	ations.		ocking key, and all r	
						2						 	<b>K10:</b> ALUN	er's specifications. INIUM COAT HOC e x 220mm High x 9		m Multi-rack Hat	and Coat Hook in	multi-track two Hool	ks Configuration Wit
		  				× 			1 222			 		<u>DRYER (Hands fre</u> ical Engineers speci <u>LRAIL</u>					
			W01 QUANTITY	05			W02 QUANTITY	02					architect's c <u>K13: SHOW</u>	rawing. <u>ER CURTAIN RAIL (</u>	<u>straight)</u>		·	n accordance to m	·
SING A	ALL DAMAGED CCESSORIES WITH URGLAR BARS AS	· · · · · · · · · · · · · · · · · · ·	WINDOW DESCRIPTION	WINDOWS. MANUFA IRON MONGERY CO	CTURED, ASSEMBLED & D MPRISING APPROVED HI	D STEEL DOUBLE SIDE HUNG ELIVERED COMPLETE WITH NGES, PIVOTING BARS TO OENABLE PANELS:	WINDOW DESCRIPTION	STANDARD "SCHOO WINDOWS, MANUF/ IRON MONGERY CO MECHANISMS, STAY	ACTURED, ASSEMBL	ED & DELIVERED CO /ED HINGES, PIVOTII	MPLETE WITH NG		GENER	AL FIXTURES				ds and screws CP fix	ang heigin as per FA
NG BRIC RICKS &	MORTAR JOINTS &		FRAME	PLUGGED & SCREWE STANDARD "STANDA	ED/BUILT IN WALLING RD TYPE" GALVANISED M	ILD STEEL WINDOW FRAME. FRAMES TO BE FACTORY	FRAME	PLUGGED & SCREW STANDARD "STAND/ MANUFACTURED TC	ED/BUILT IN WALLIN ARD TYPE" GALVAN	G SED MILD STEEL WIN	DOW FRAME.		accordance		or manufactured ir becifications. Insta	high impact res llation height 900	stant rigid uPVC (C nm above FFL, or c	Colour Grey) and cur as specified.	t to suit door width f
ACE ALI	. Doors as per	· · · · · · · · · · · · · · · · · · ·		BEFORE DELIVERY & COMLY WITH SABS 6 ENAMEL PAINT TO C	HOSPHATE PRIMER TO CC FINISHED WITH ONE UNIVI 81 GRADE 01, FINISHED W OMPLY WITH SABS 630. C	ERSAL UNDERCOAT TO 'ITH 2No. COATS ALKYD		PRIMED WITH ZINC F BEFORE DELIVERY & COMLY WITH SABS ENAMEL PAINT TO C	FINISHED WITH ONE 881 GRADE 01, FINIS	UNIVERSAL UNDER	COAT TO ATS ALKYD		Pull down PV be supplied o <u>G3:</u> PINBOA	C screen size 2440 complete with all act RD 1500W X 1000	cessories, and fitte	d in strict accordo	ance with manufac		
			GLASS	SPECIFICATIONS 6 mm SAFETY GLAS PUTTY MUST BE DELI	S FIXED WITH PUTTY TO VERED ON SITE IN SEAL	COMPLY WITH SABS 680. ED CONTAINERS MARKED	GLASS	SPECIFICATIONS 6 mm SAFETY GLA PUTTY MUST BE DEL	SS FIXED WITH PUT IVERED ON SITE IN	IY TO COMPLY WI	TH SABS 680.		mitred at the G4: PINBOA	corners. To be fitted	complete with fixin	ng brackets, screv	ws and wall plugs a	g material beaded t 900mm above floc a material beaded	or level.
MAGE	D SECTIONS OF	      	WINDOW FITTINGS	WITH SABS MARK C	F APPROVAL	.L)	WINDOW FITTINGS	WITH SABS MARK (		RIGINAL)			mitred at the G5: WINDO 127 mm vert	corners. To be fitted W NORMAL BLIND cal deco blinds wit	complete with fixin (vertical fabric) anodised alumin	ng brackets, screv um headrail fitte	ws and wall plugs a d with colour coor	it 900mm above floc dinated insert. All ru	or level Inners o be wheeled
ICATIC	YL FLOOR TILES <b>N</b> KIRTING AS PER	      	IRON MONGERY	ALL IRON MONGERY MUST BE APPROVED		ATCH EXITING OR SIMILAR &	IRON MONGERY	ALL IRON MONGER' MUST BE APPROVED		UST MATCH EXITING	OR SIMILAR &		mechanism. cap. Blinds to <u>G6: FLOOR</u>	All runners to be co be face fixed (fixe <b>DRAIN</b>	nected by stainles over the window o	s steel links. Tilt m opening) by mea	echanism to be op ns of concealed typ	erated by a nylon b	all chain with a red
		· · · · · · · · · · · · · · · · · · ·	HINGES	FIXED, MANUFACTUR			HINGES	FIXED, MANUFACTU		N		 	G7: SS FLOC Co-extruded joints, in acco	DR EXPANSION JO heavy-duty stainles ordance to the man	NT COVER steel movement ju ufacturer's specific	pint strip, with pol		lour grey). To be inst	
EX-	T1 FLOOR PLAN	-							BLOCK	EX-T1 WIND	OW SCHEDU	— /	Vitrex system manufacture	d in accordance w	EBOARD or EQUAL th SABS Standard (	CKS 36/2004 Editio	on 4 and suitable fo	teel utility school cho or Class 1: Heavy Dut olour Reference - Ch	ty applications, as d
	SCALE 1:100	,									SCALE 1:	.100	integral ano		alk rail (ACR), fixing			tion to brickwork. Th	

let closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Ja n for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge val ings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

ed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with c e SABS standards. Flush valve to be fitted with suitable extension lever

let closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jaz n for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve ings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with r paraplegic access

7. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per lush valve to be fitted with suitable extension lever.

497.Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality necessary fittings as per manufacturer's specifications and applicable SABS standards. mply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an

I suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS anufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste th SABS 226 comprising of approved:

ng wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Showe ith exposed plinth face tiled.

d 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N p with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308

mply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action cators water applications and flanaed backnut, chrome plated waste, chrome plated 32 m vith all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with ) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated asin mounted on cabinet or vanity slab with silicon sealant between contact areas in stric

HOPS) § 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No tted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor ackets and fixing accessories in strict accordance to the manufacturer's specifications. one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with; IN

tted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long ed to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacture mply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action

cators water applications and flanged backnut, chrome plated waste, chrome plated 32mn vith all necessary pipe connections. Fixed with concealed wall bracket in accordance to th omprising of

er finishes schedule povernment standard specifications. Installation heights as indicated in the drawings.

drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsew th SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab sturer's specifications. Sink installation height = 900mm AFFL.

essed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overarm acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFI ink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed esistant

18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitte d, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

ured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet idjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac eal 'P'-Trap. Sink mounted on 2no. 25mm square SS gallow brackets, front leg and adjustable fo

70mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa essories in accordance to manufacturer's specifications.

n height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome

ss steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessa

ity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to

ssary accessories and installed in accordance to manufacturer's specifications.

in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per

let grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws

ispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and

omplete with screws, locking key, and all necessary accessories and installed in accordance

Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Complete

ecessary accessories in accordance to manufacturer's specifications. Installation height as pe

m long with flanged ends and screws CP fixing height as per PA's drawing.

t resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly 900mm above FFL, or as specified.

1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To ordance with manufactures instructions.

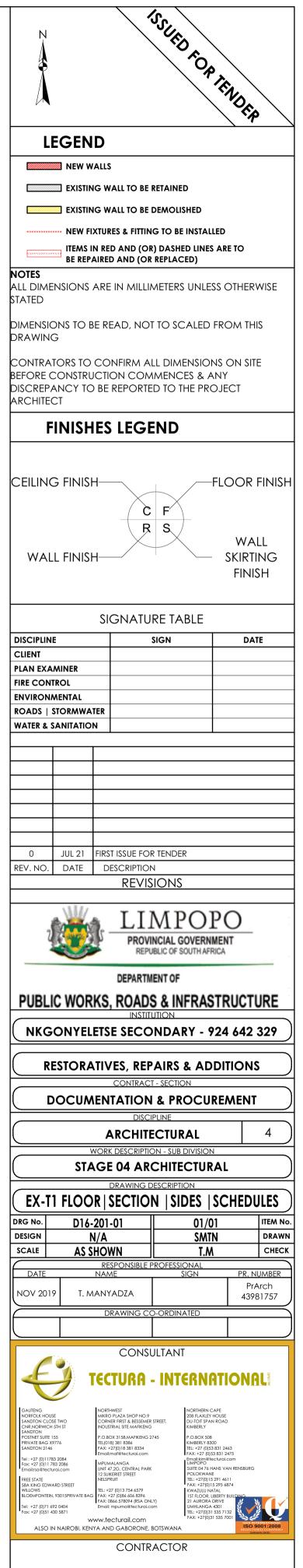
soft board core pinning material beaded all round with anodised aluminium channel surrour screws and wall plugs at 900mm above floor level.

soft board core pinning material beaded all round with anodised aluminium channel surrour screws and wall plugs at 900mm above floor level

fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clute ilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose means of concealed type fixing brackets.

polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion

) vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm higt Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util een in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wit ts and secured in position to brickwork. The Chalk boards are to be fixed in position strictly



AUTOCAD PROJECT NUMBER LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 creeds 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.

4: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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

5 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

### arade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade1, in accordance to manufacturer's instructions.

no, coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no, coat undercoat to SABS 68

## R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight 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

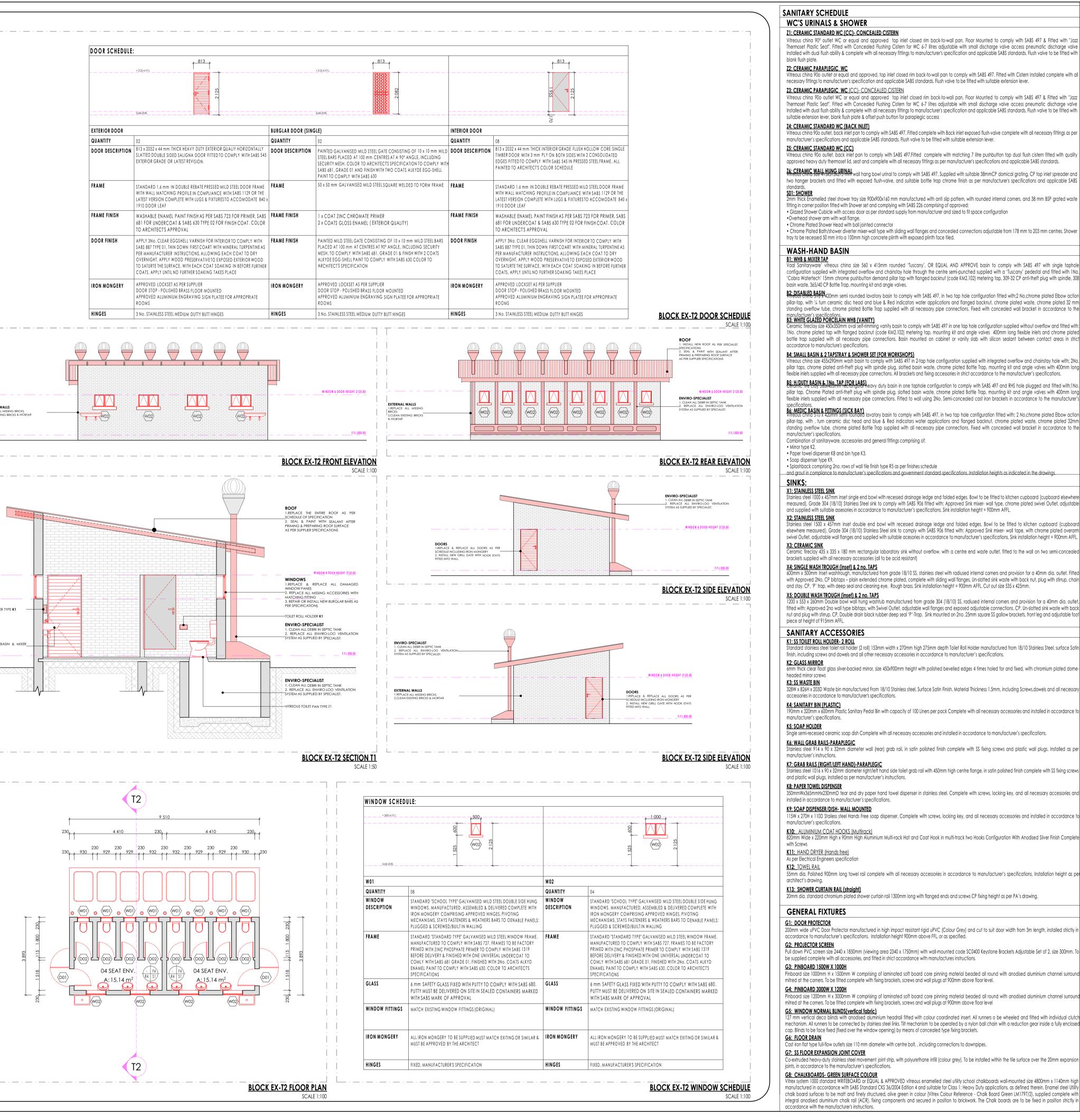
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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

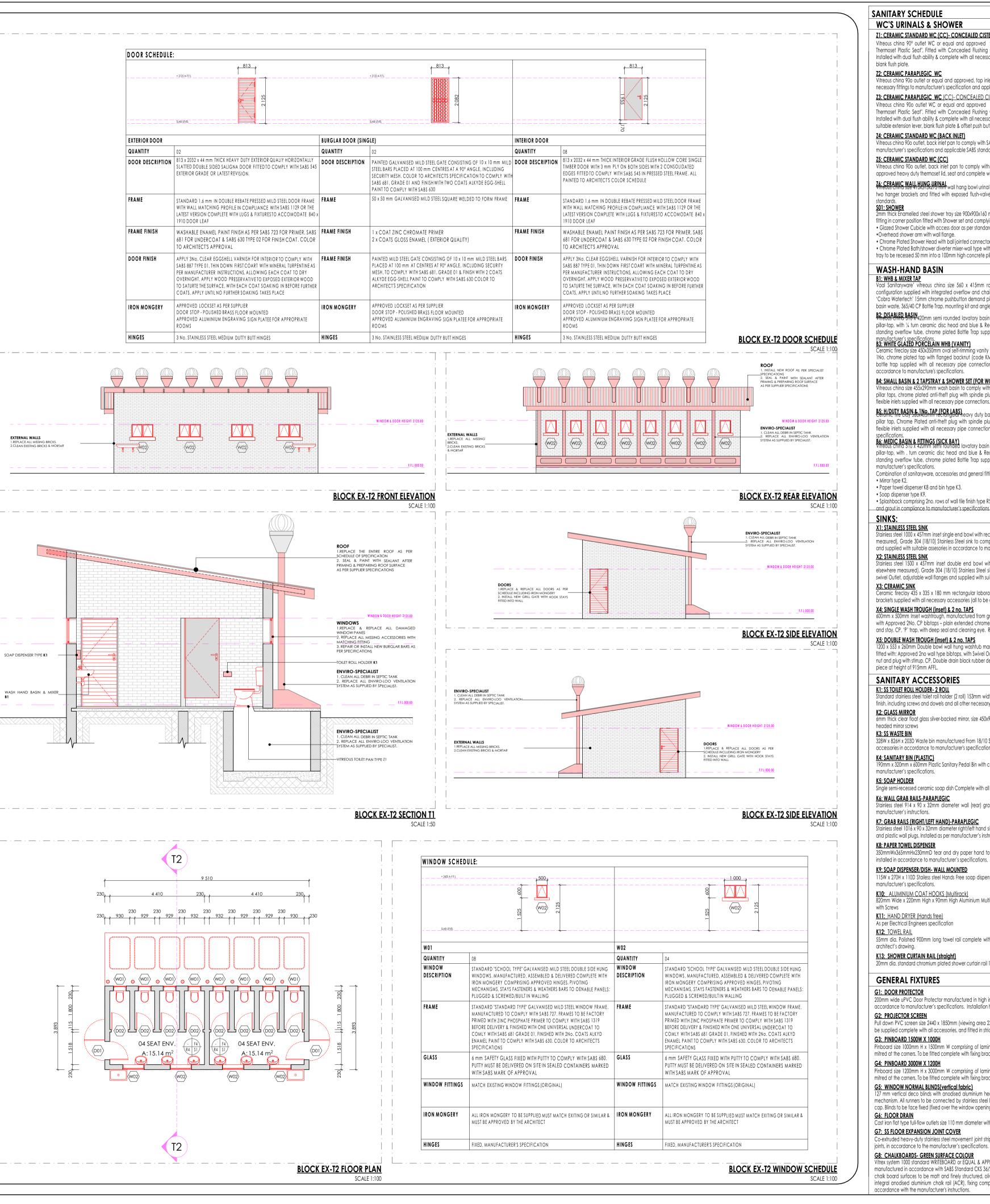
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

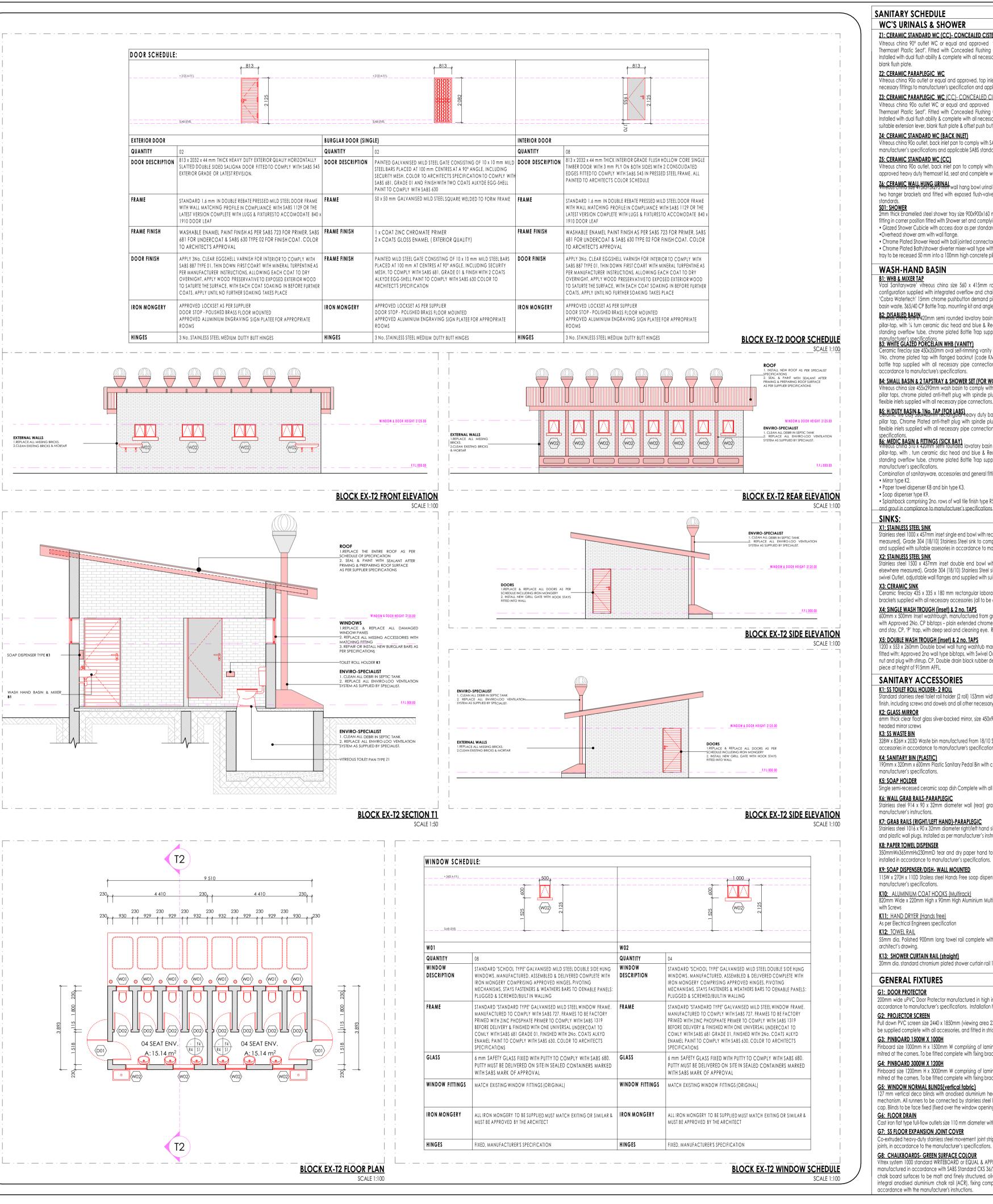
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

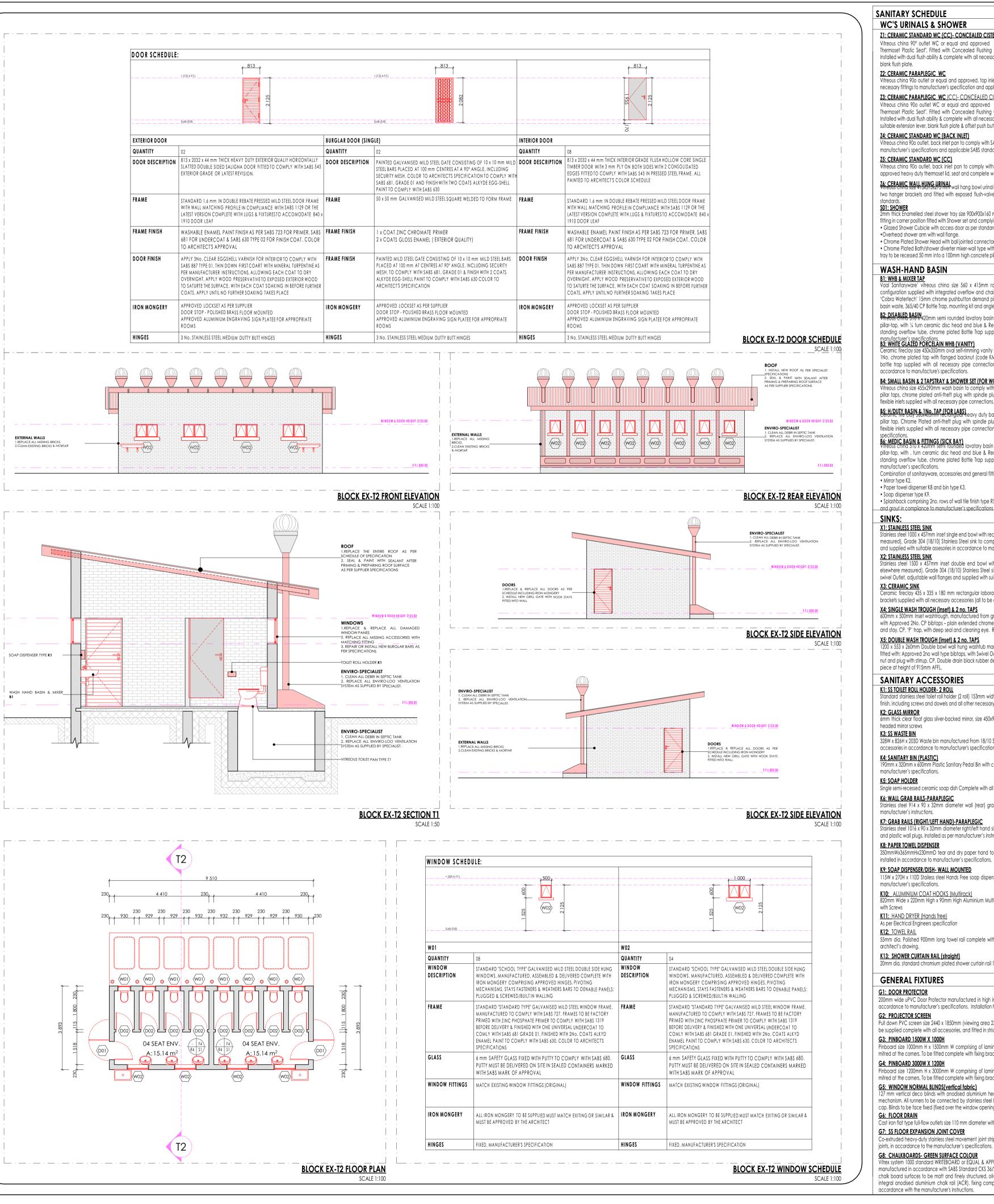
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

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.









Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Ir Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access oneumatic discharae valv Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with c necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous ching 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo 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

Vitreous china 900 outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittings as per

Vitreous china 900 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.

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste

Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shows

ous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 30

82: DISABLED BASIN 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 1/4 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 t

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 stric

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2N pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

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

pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

Stainless steel 1000 x 457mm inset sinale end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsew measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab

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. 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-concealer

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fith with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cho and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

0 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. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with bac 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 fo

tard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa

5mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom

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 necessor

0mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

stainless steel 1018 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

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per

20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

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

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

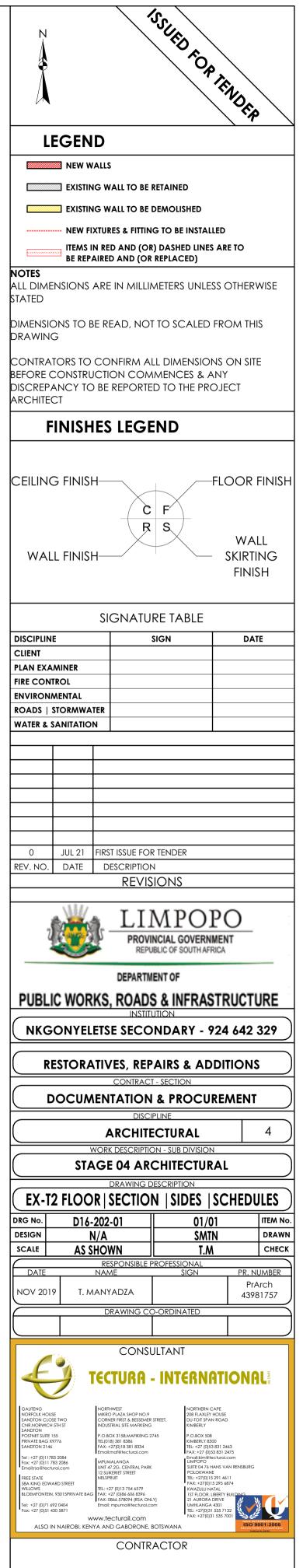
Vinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour

27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut 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 enclose

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

n 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig nanufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wi integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly



AUTOCAD PRO JECT NUMBER LDPW - PROF/16002/D1

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 \$AB\$ 1586 applied on plastered surface primed and with 1 no. coat undercoat to \$AB\$ 681

## $\mathsf{gradel}$ , 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

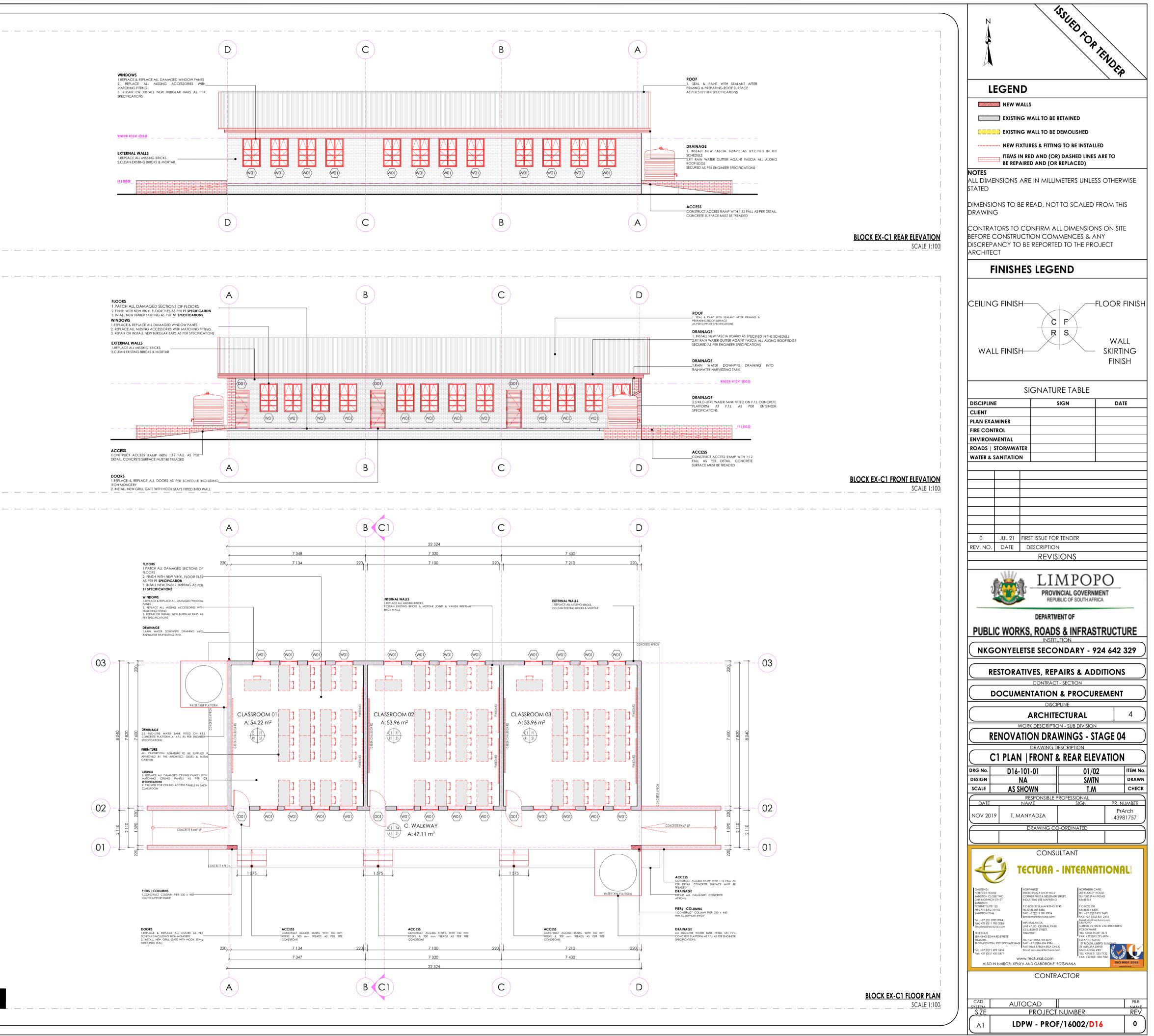
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural 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.





## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with \$AB\$ 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.

## 4: 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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 nick 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

5 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

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

no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard pecifications 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 arout in compliance to manufacturer's specifications and aovernment 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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight 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

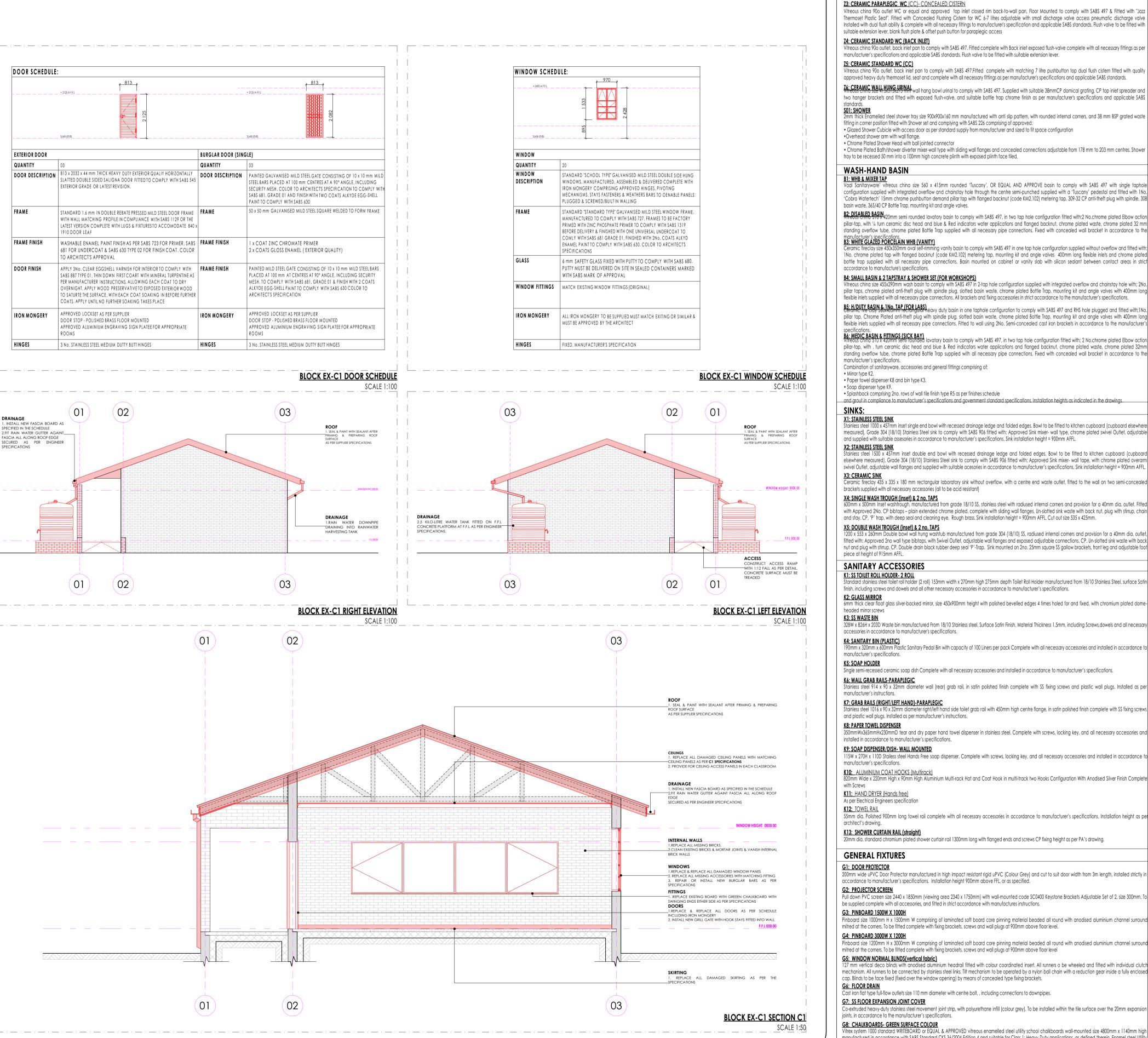
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

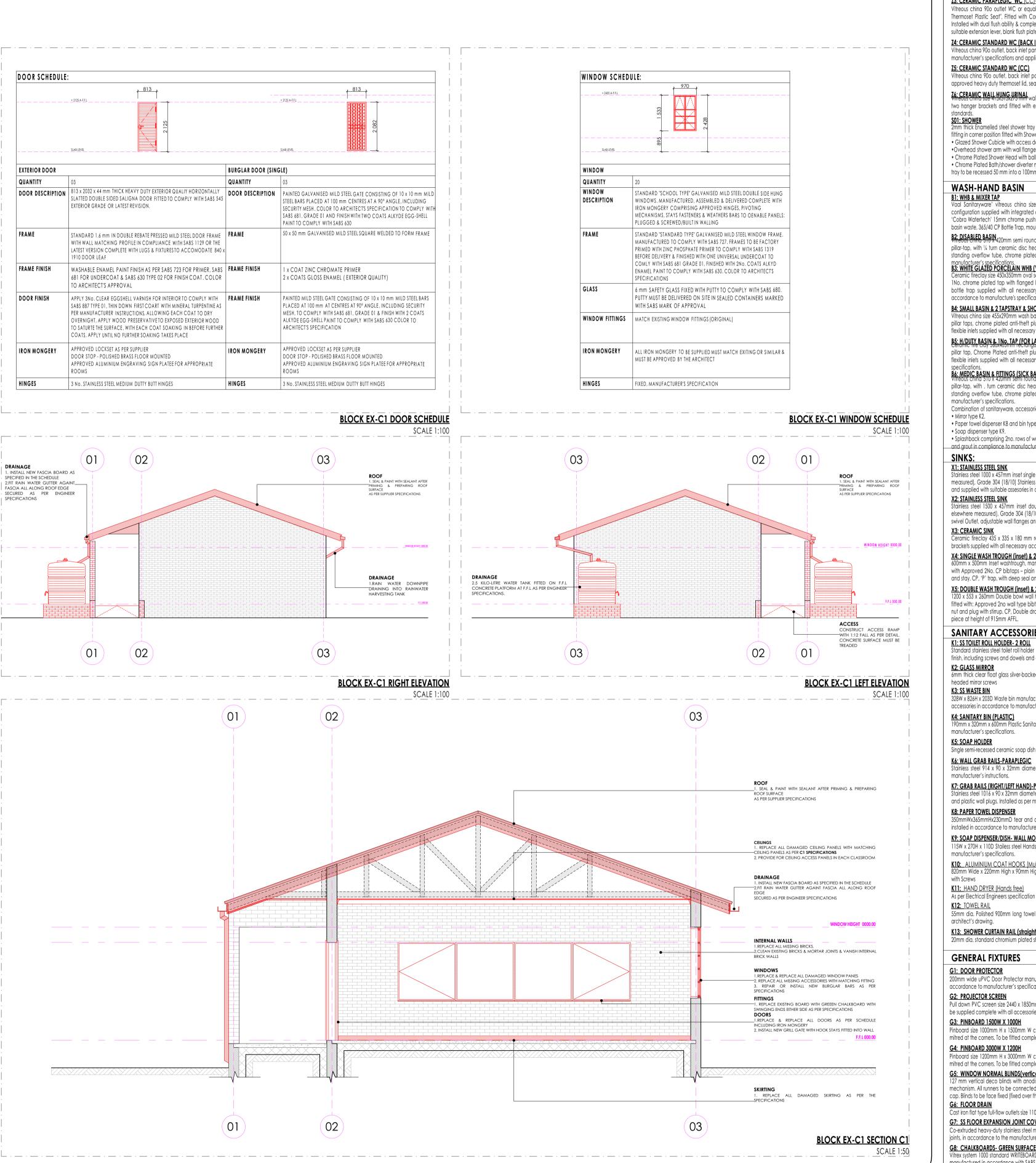
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

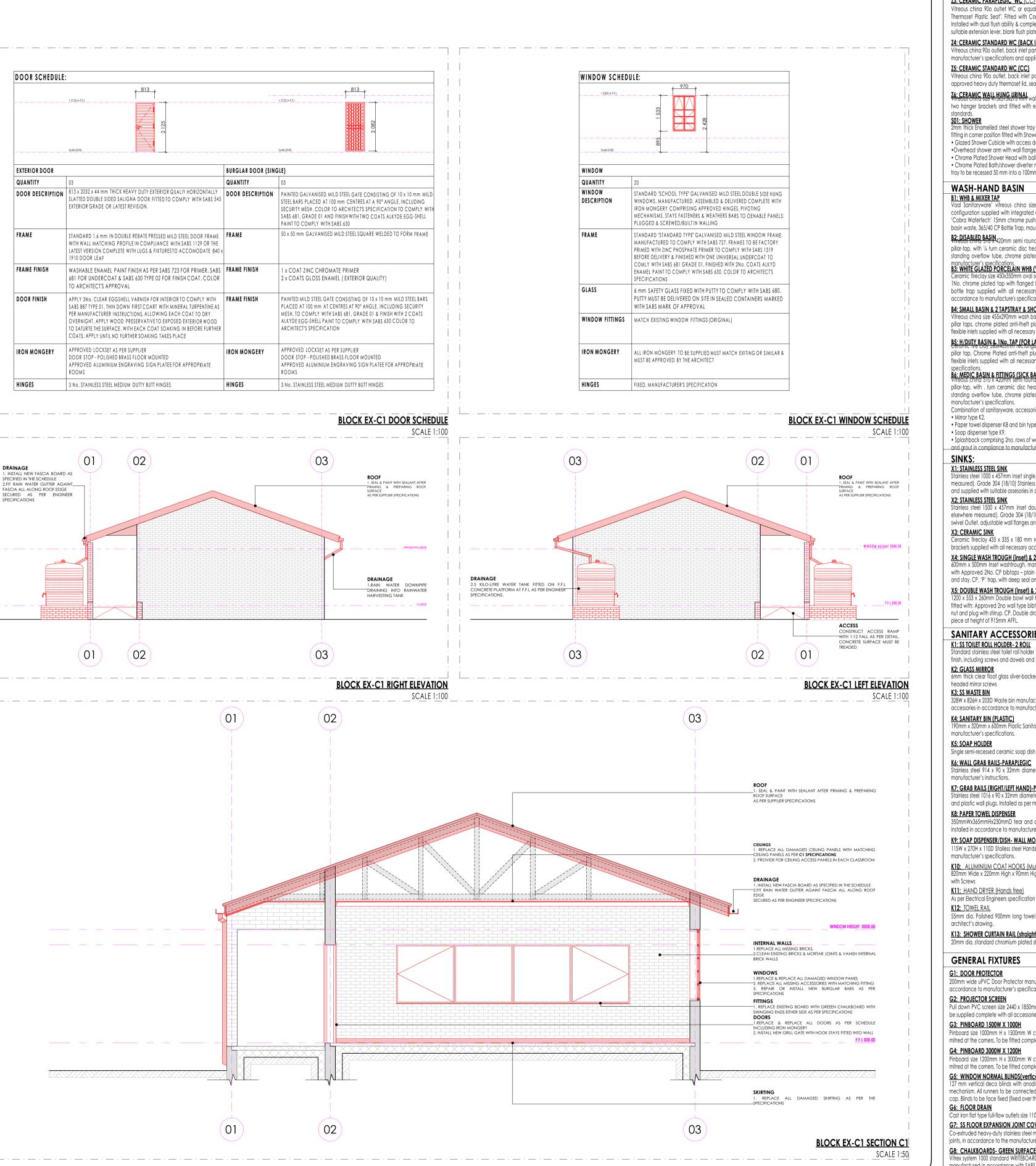
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







### **SANITARY SCHEDULE** WC'S URINALS & SHOWER

**<u>Z2: CERAMIC PARAPLEGIC WC</u>** 

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN blank flush plate.

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset Plastic Seat", Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

Vitreous china 900 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.

Vitreous china 900 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. Z4: CERAMIC Wall Hung URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower

eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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

Bring BASIN 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 1/4 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 th

mic 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 stric

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor 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 day SobAustin 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 Be: MEDIC BASIN & FILTINGS (SICK BAY) Vireous china SIU x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action Vireous china SIU 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 32m standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsew measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 AFFI 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-concealer

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cho and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

0 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 bac 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 fo

ndard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

smm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom

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 necessa

n 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

Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

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 pe

stainless steel 1018 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with \$\$ fixing screw

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories a

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance t

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per

20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code \$C0400 Keystone Brackets Adjustable Set of 2, size 300mm. To

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut 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 enclos

Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

accordance with the manufacturer's instructions

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

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 Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir



PROJECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 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

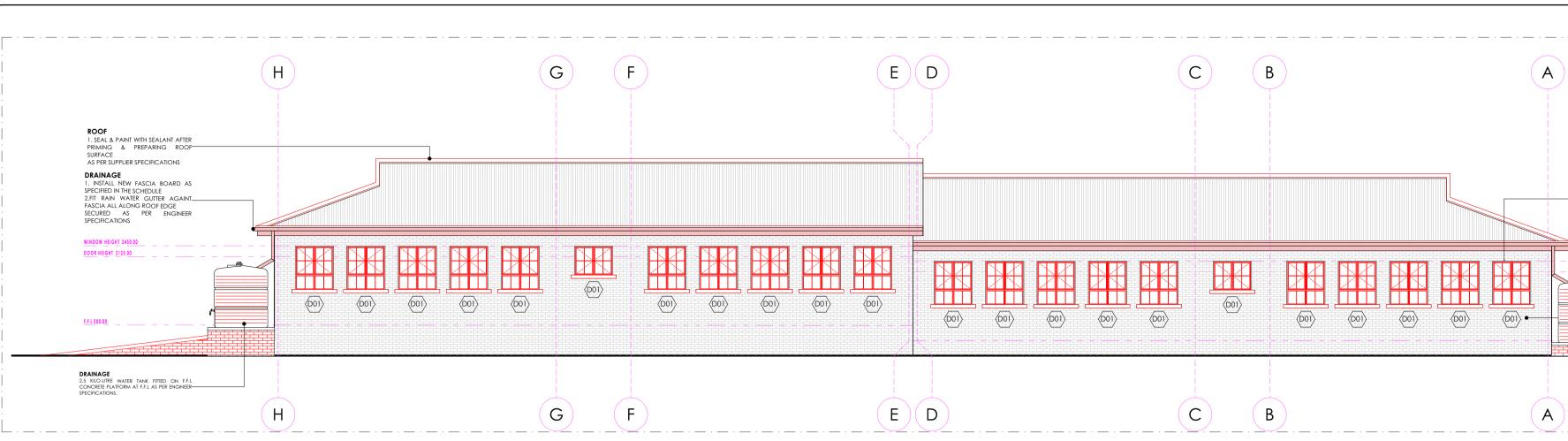
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

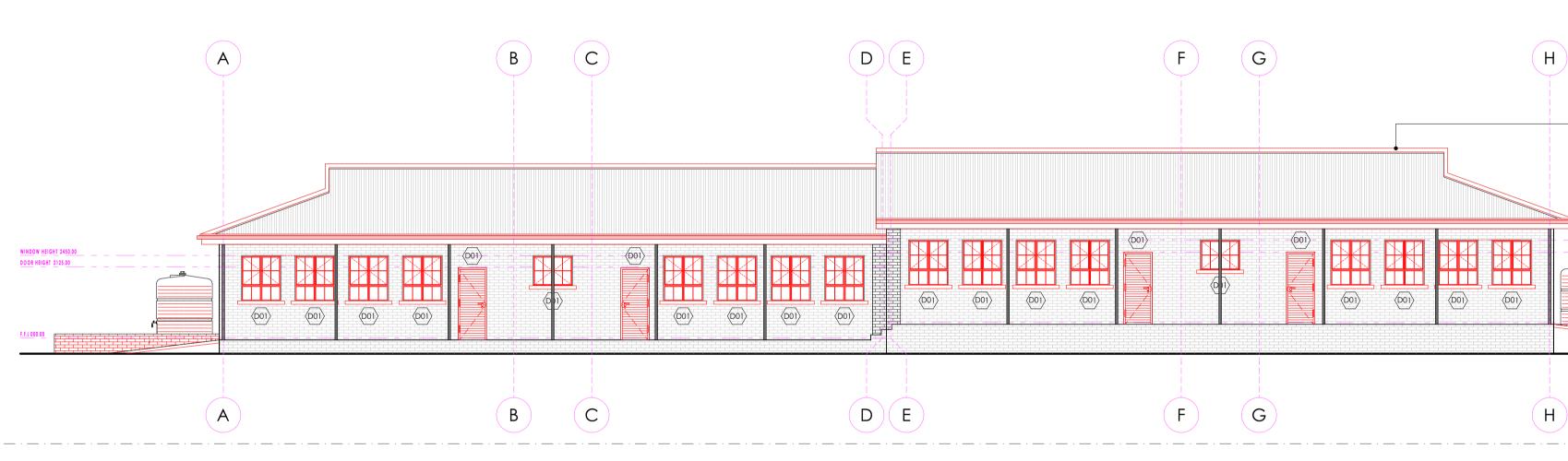
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

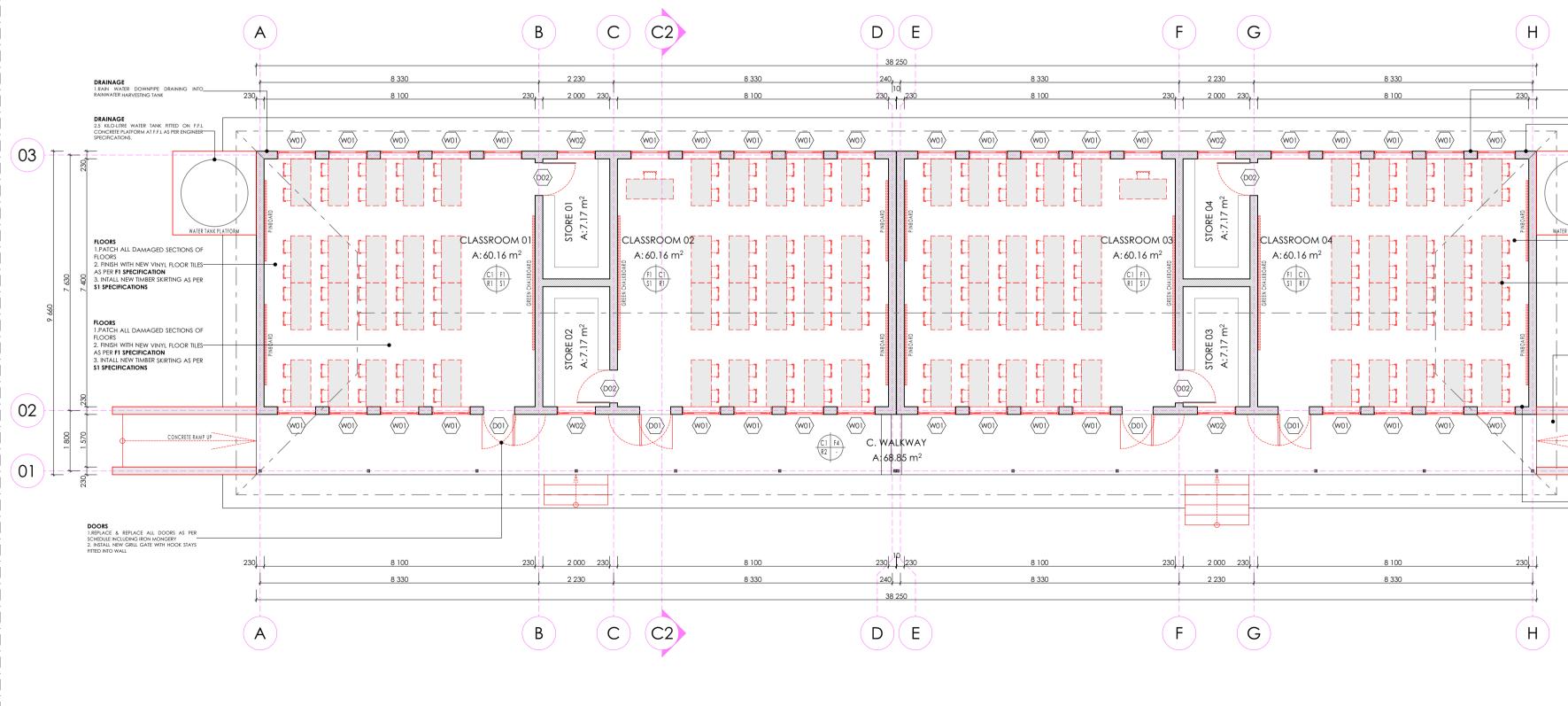
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

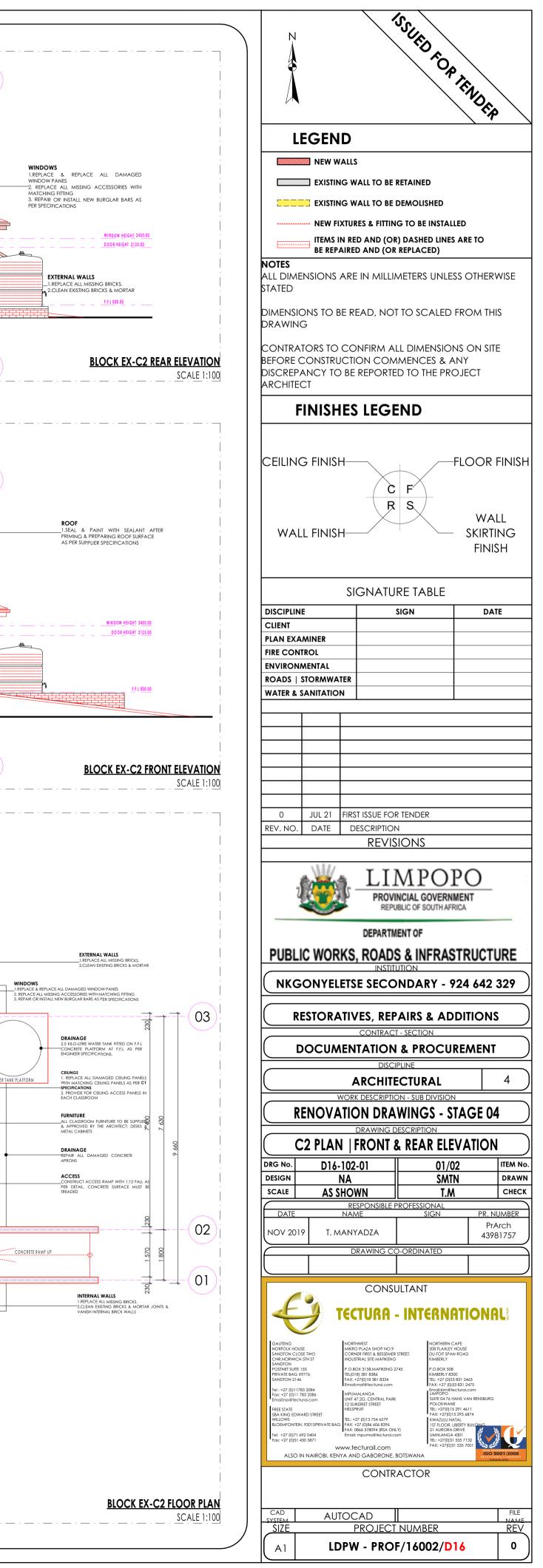
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

<u>Fascia board:</u> 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.









## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with \$AB\$ 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 files 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 creeds 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.

## 4: 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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

5 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 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 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster 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

ombination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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 arout in compliance to manufacturer's specifications and aovernment 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, 30 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 he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 veight 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

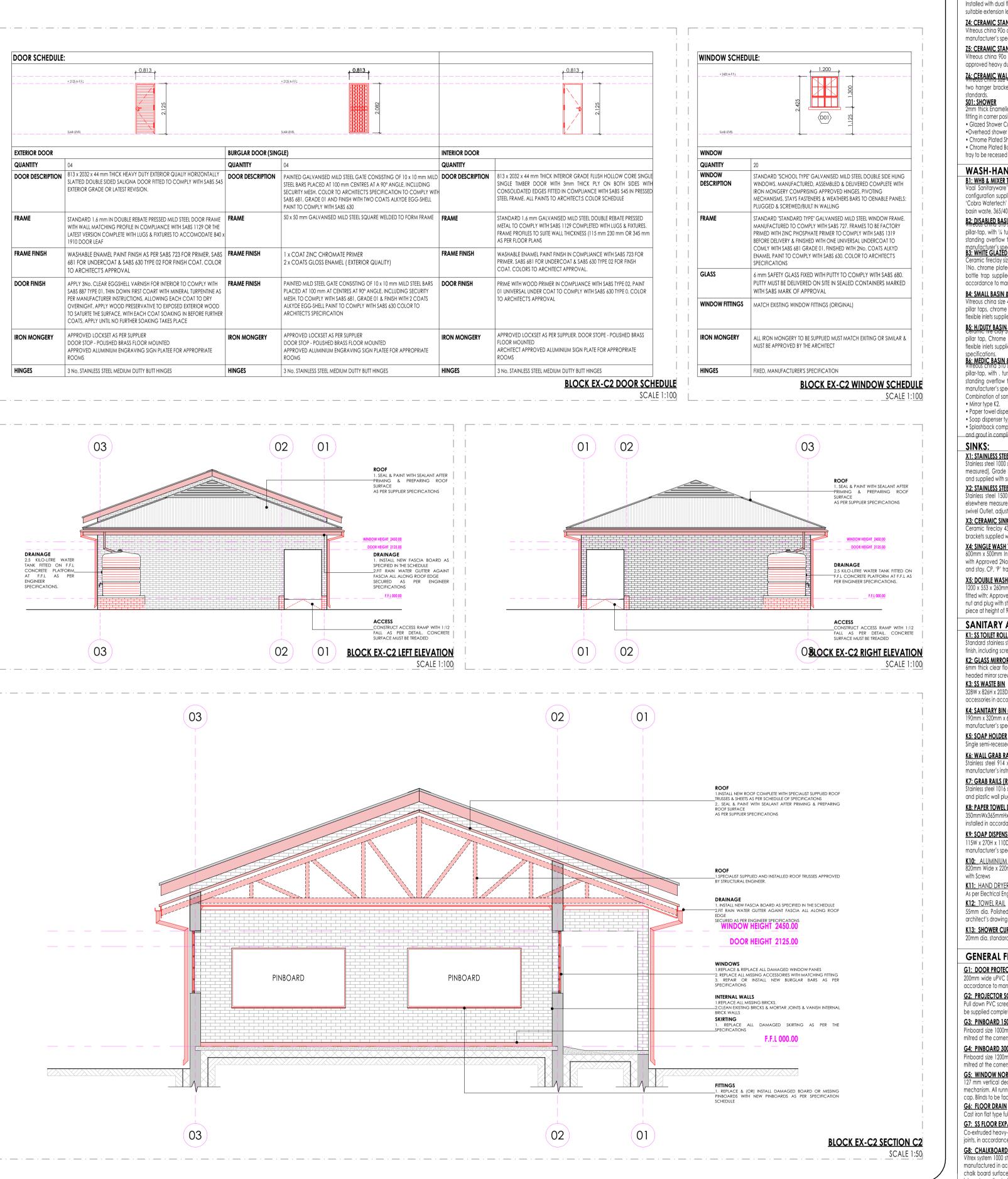
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

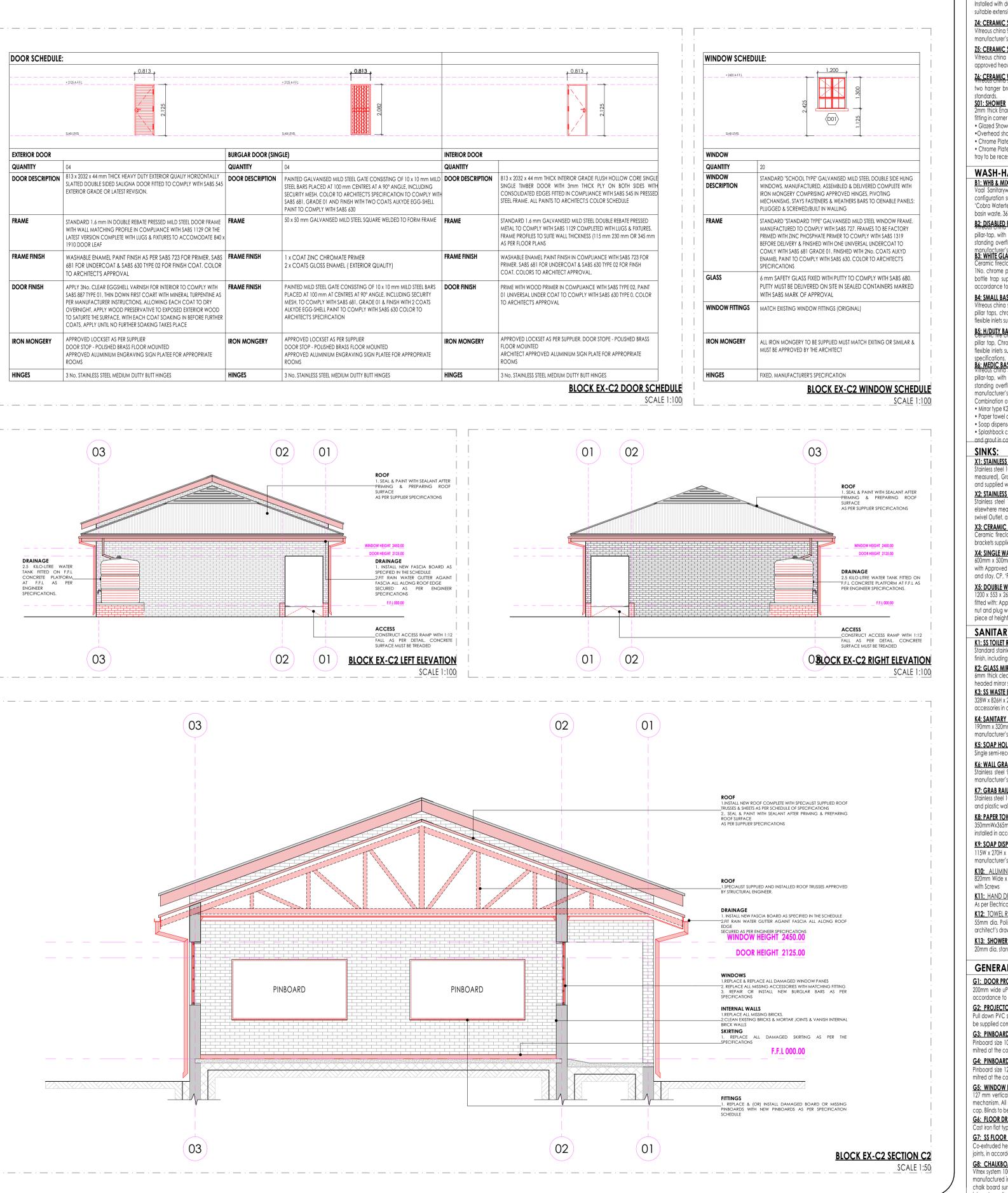
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

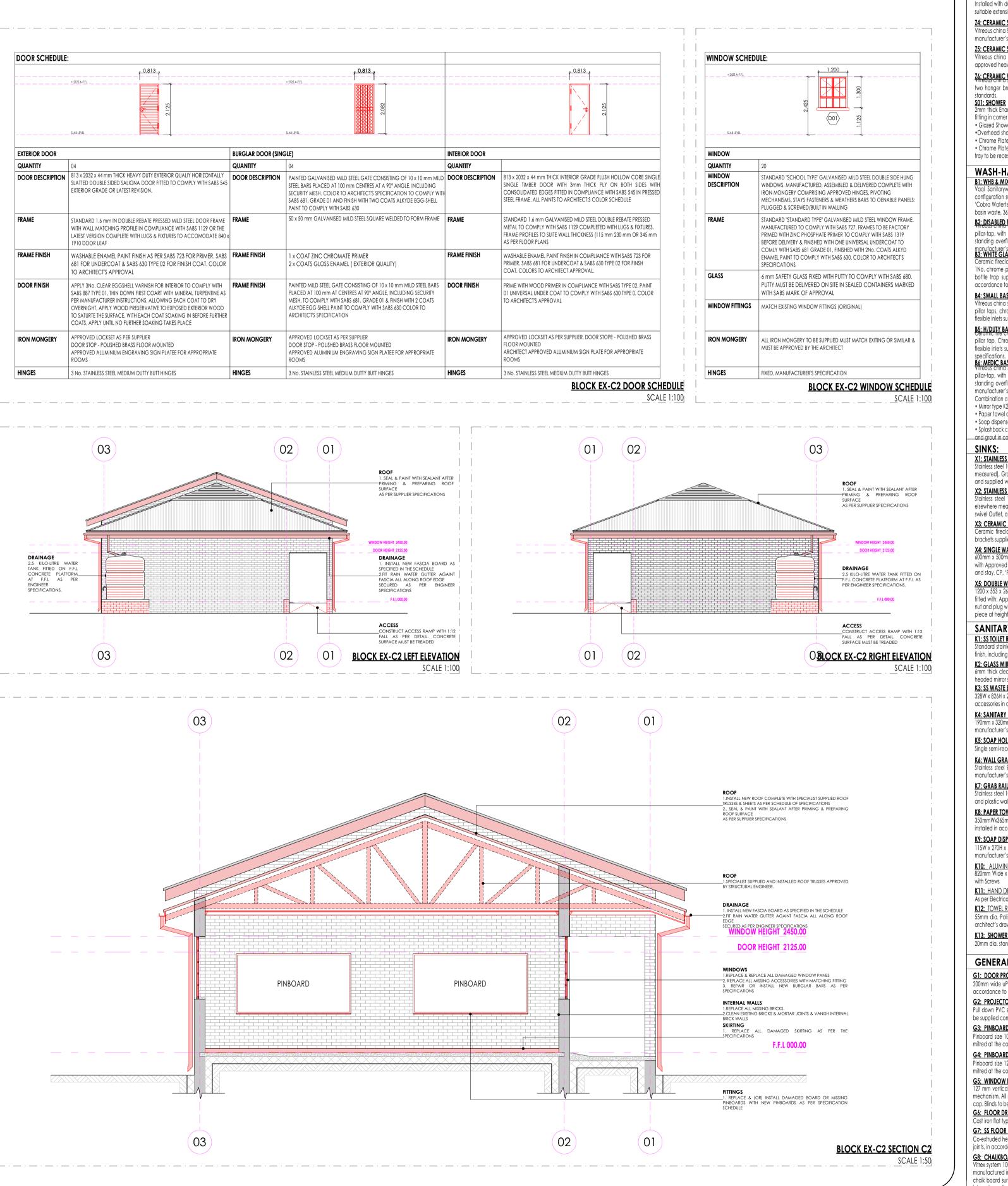
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







### **SANITARY SCHEDULE** WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN blank flush plate. **<u>Z2: CERAMIC PARAPLEGIC WC</u>** 

**Z3: CERAMIC PARAPLEGIC WC** (CC)- CONCEALED CISTERN suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET)

**Z5: CERAMIC STANDARD WC (CC)** 

74: CERAMIC WALL HUNG URINAL 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

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fittina 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 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B3: WHITE GLAZED PORCELAIN WHB (VANITY) eramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with INo. 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 stric

# accordance to manufacture's specifications. B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) Ceramic fire day SobAustin 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

Be: MEDIC BASIN & FILTINGS (SICK BAY) Vireous china SIU x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action Vireous china SIU 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 t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

## • 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.

X1: STAINLESS STEEL SINK Stainless steel 1000 x 457mm inset sinale end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewi 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 assessories 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

# X3: CERAMIC SINK

brackets supplied with all necessary accessories (all to be acid resistant X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

# X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

piece at height of 915mm AFFL

# SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications. K2: GLASS MIRROR form thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws

## K3: SS WASTE BIN accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC) 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

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 ar

## installed in accordance to manufacturer's specification K9: SOAP DISPENSER/DISH- WALL MOUNTED

manufacturer's specifications. K10: ALUMINIUM COAT HOOKS (Multirack

K11: HAND DRYER (Hands free) As per Electrical Engineers specification

# 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 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 \$C0400 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 surrour 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 surrour 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) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction agar inside a fully enclose 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

joints, in accordance to the manufacturer's specifications. G8: CHALKBOARDS- GREEN SURFACE COLOUR

accordance with the manufacturer's instructions

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

Vitreous china 900 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.

Vitreous china 900 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.

eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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

Bring BASIN 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 1/4 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 th

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFI Ceramic fireclay 435 x 335 x 180 mm rectanaular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealer

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

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 bac 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 fo

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 necessa

1m x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

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 screw

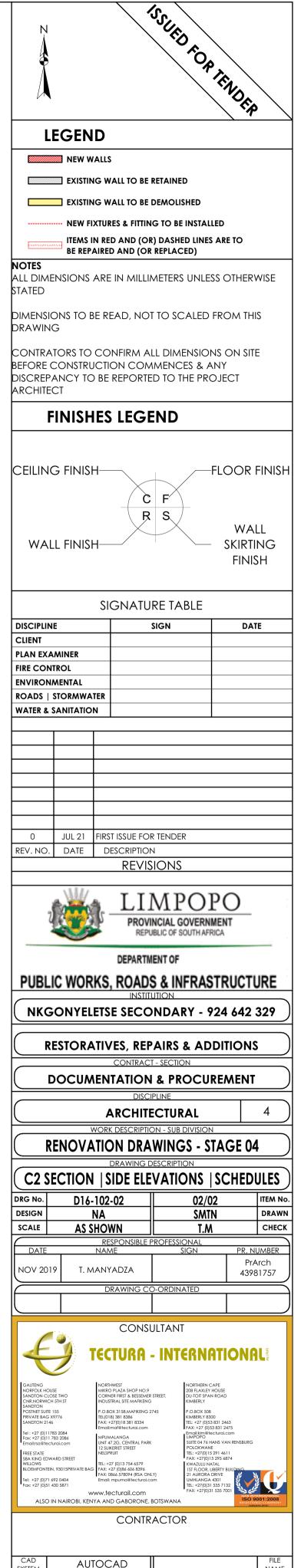
115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per

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

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 Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir



PROJECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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

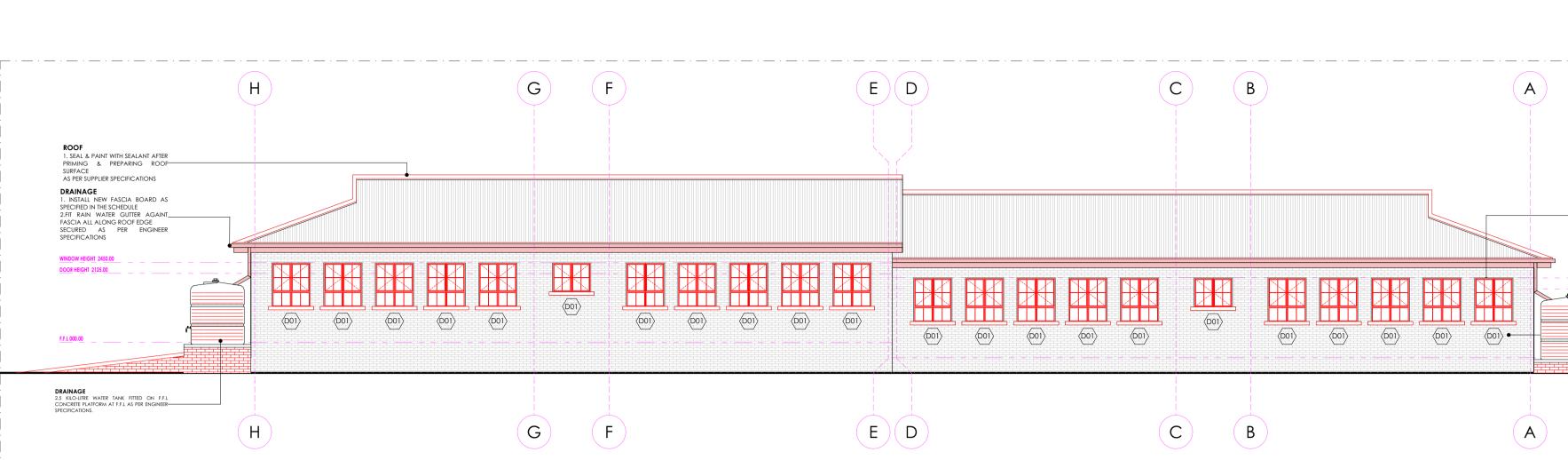
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

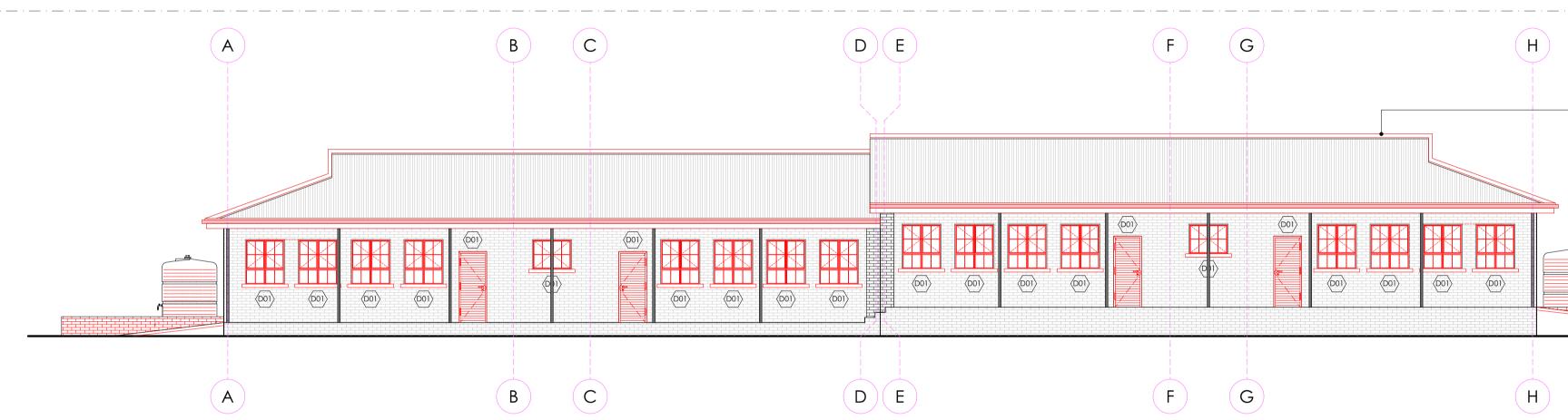
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

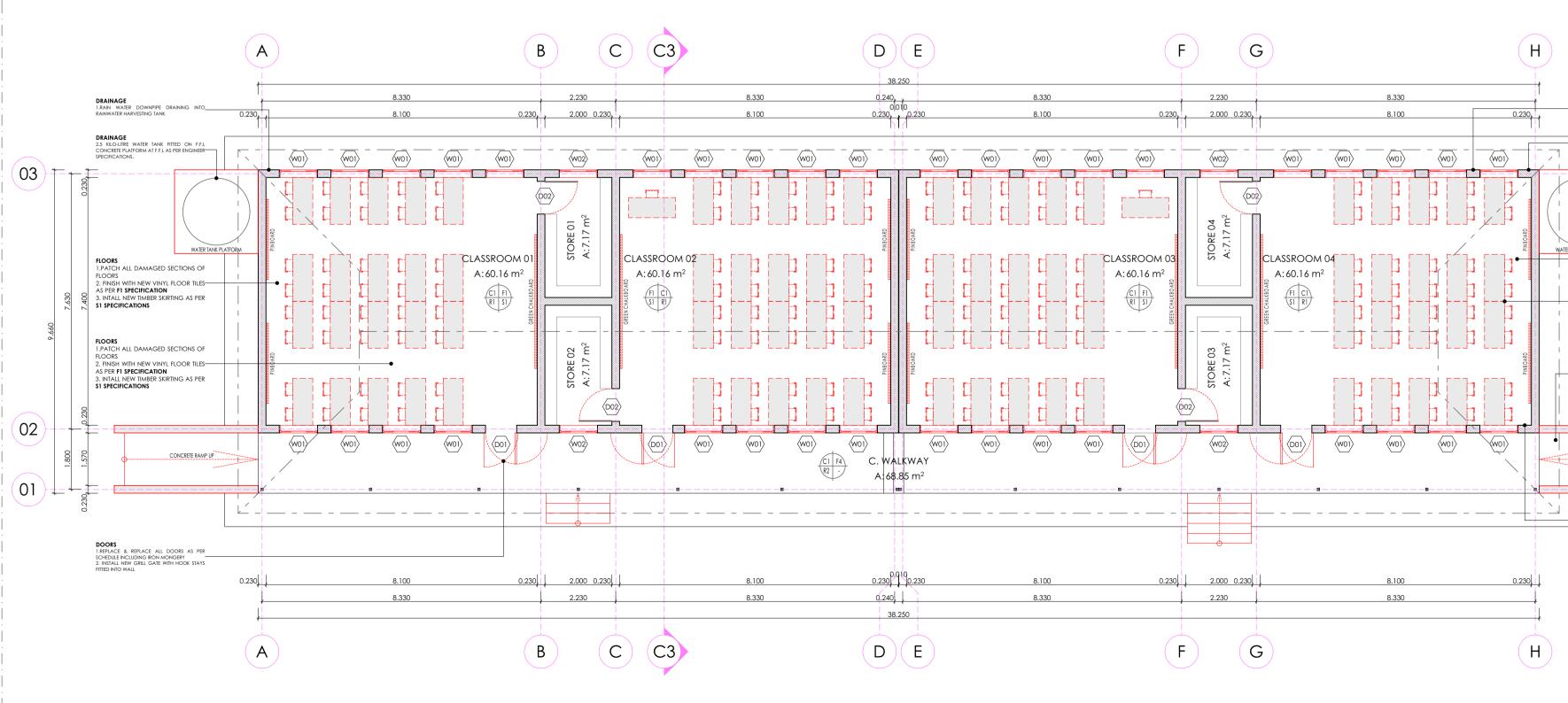
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

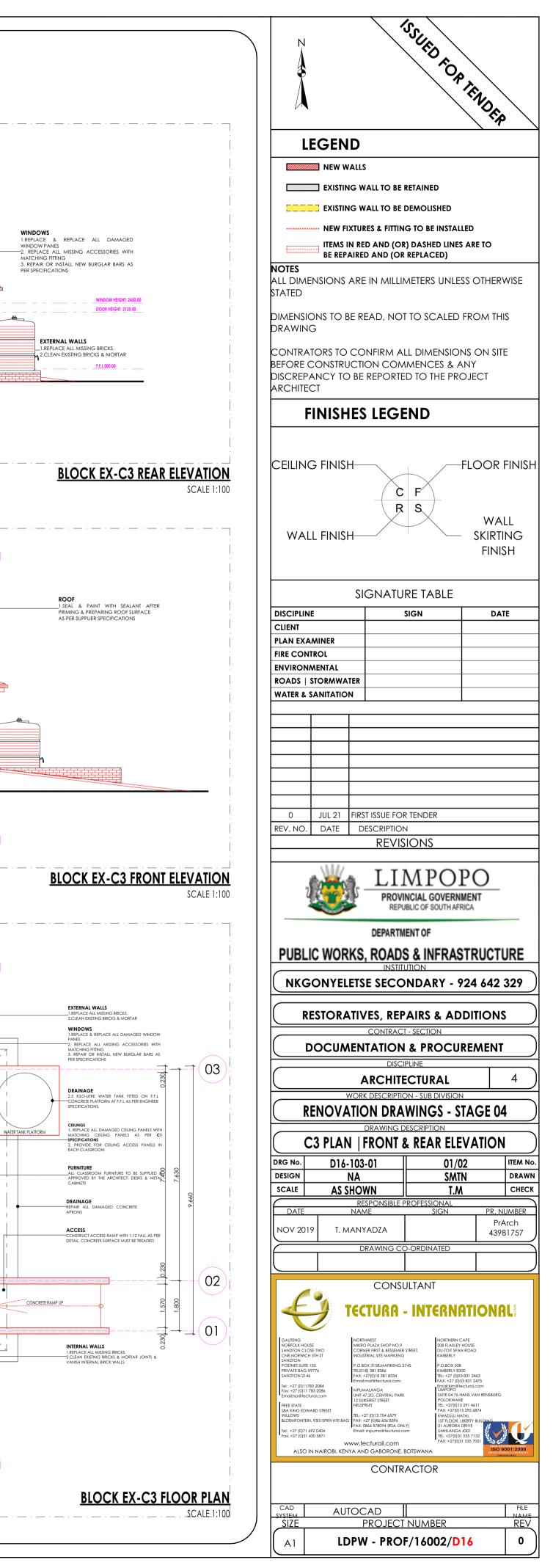
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

<u>Fascia board:</u> 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.









## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with \$AB\$ 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 creeds 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.

4: 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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 nick 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

5 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 no, coats of PVA matt finish emulsion paint to SABS 1586 applied on plastered surface primed and with 1 no, coat undercoat to SABS 68

### grade1, in accordance to manufacturer's instructions.

R3:ALKYD (ENAMEL) PAINT no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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 arout in compliance to manufacturer's specifications and aovernment 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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 veight 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

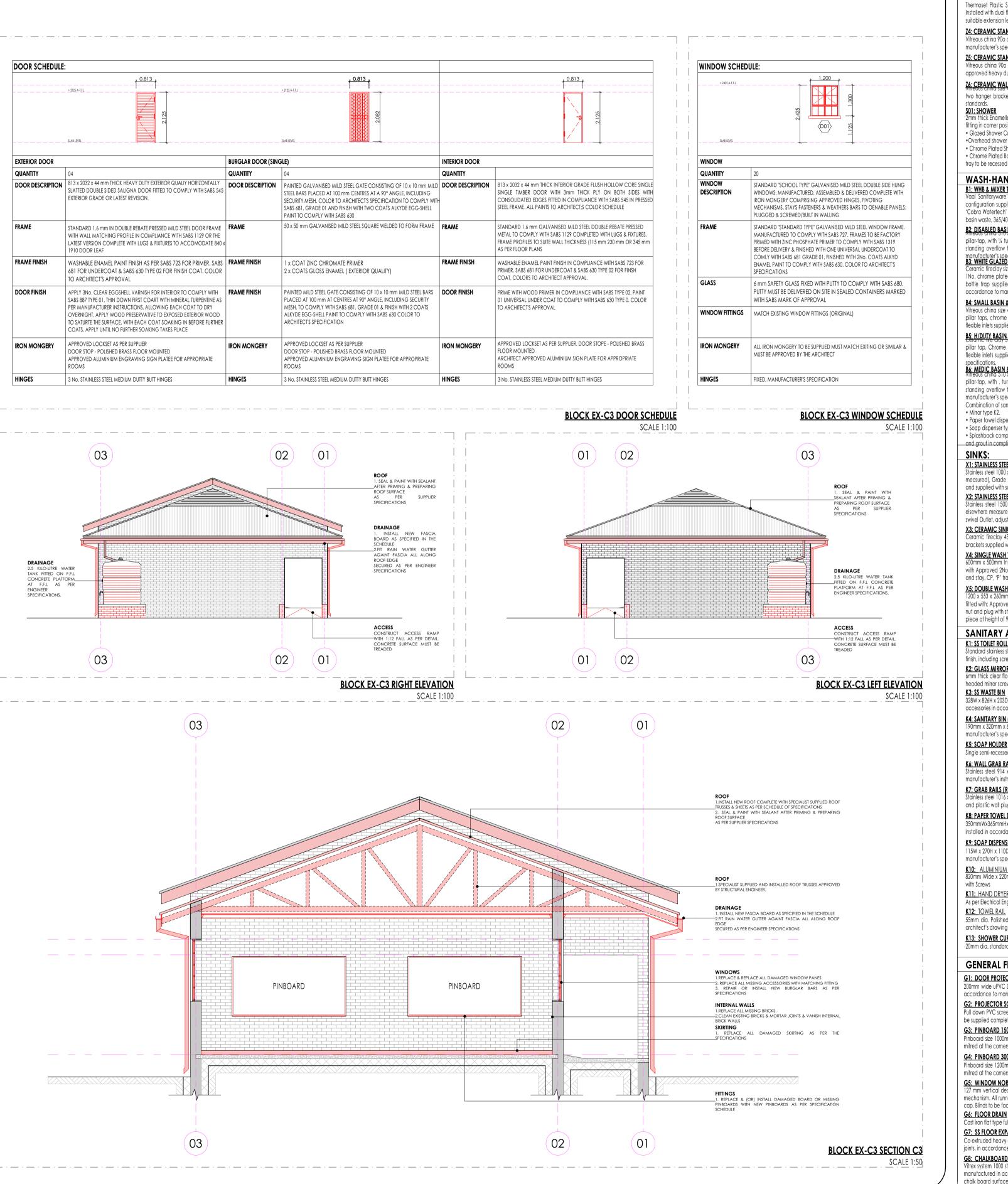
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

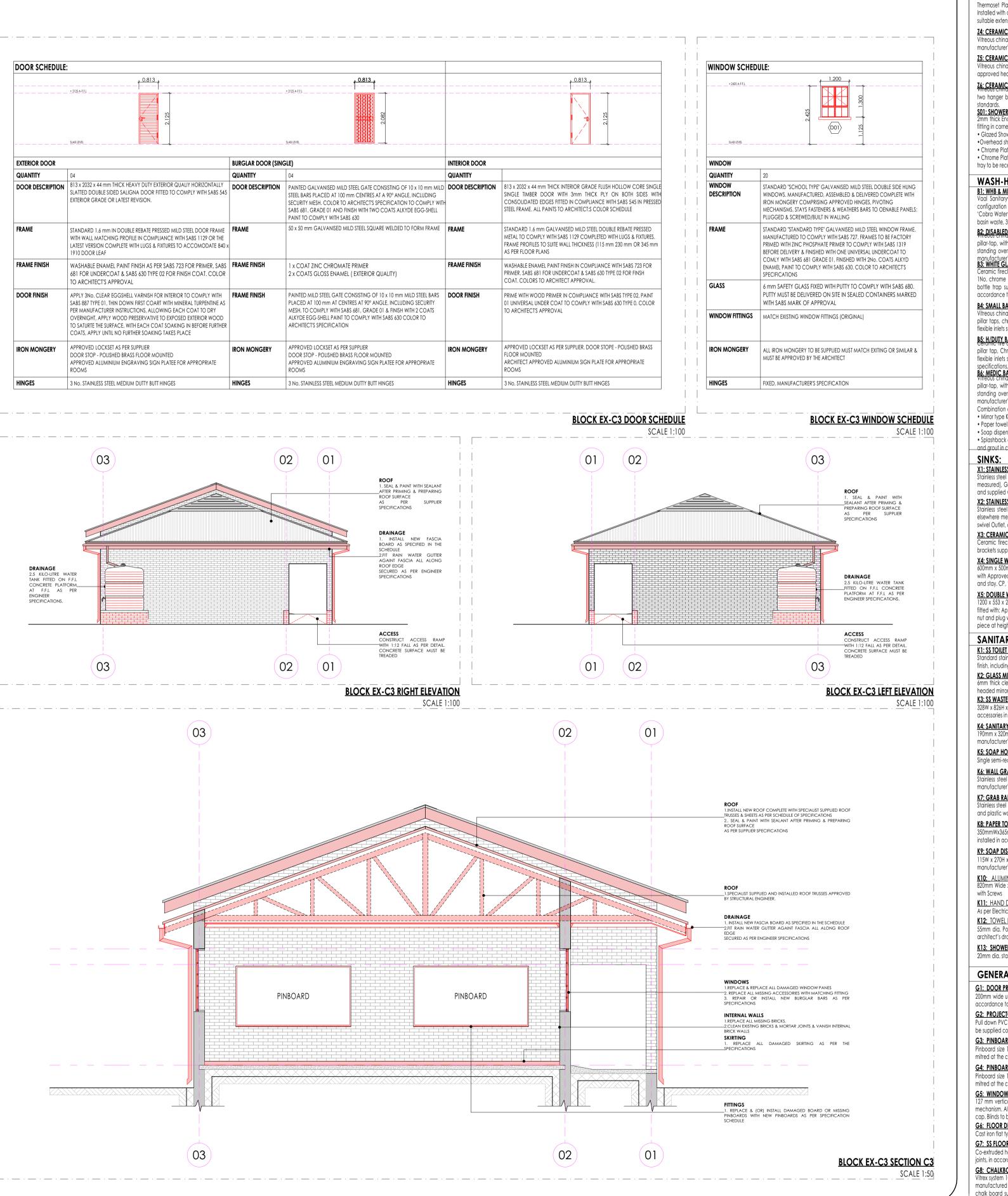
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

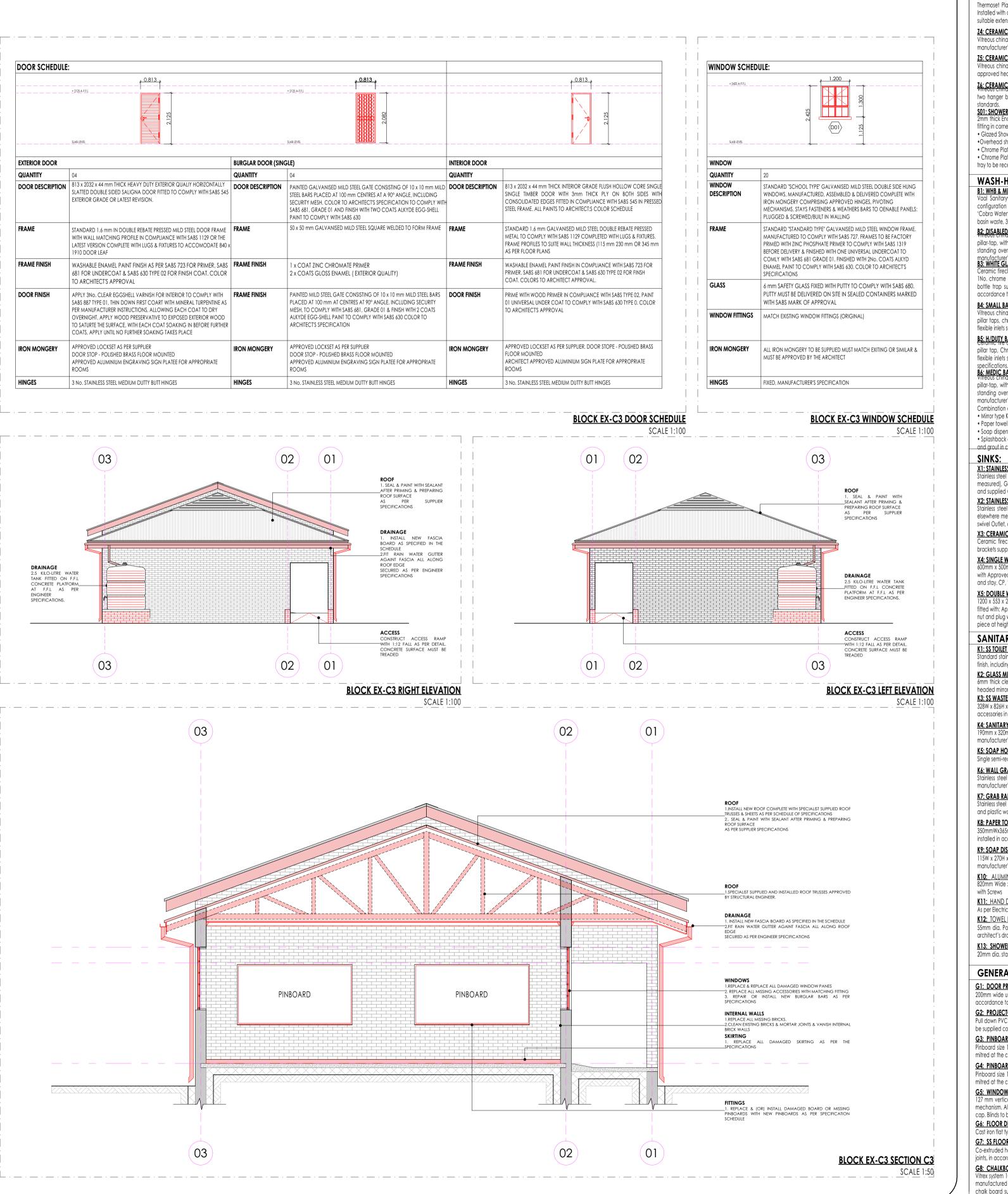
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







### **SANITARY SCHEDULE** WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN blank flush plate.

## **<u>Z2: CERAMIC PARAPLEGIC WC</u>**

**Z3: CERAMIC PARAPLEGIC WC** (CC)- CONCEALED CISTERN suitable extension lever, blank flush plate & offset push button for parapleaic access

Z4: CERAMIC STANDARD WC (BACK INLET)

**Z5: CERAMIC STANDARD WC (CC)** 

74: CERAMIC WALL HUNG URINAL 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

fittina 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

## WASH-HAND BASIN

B1: WHB & MIXER TAP basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B3: WHITE GLAZED PORCELAIN WHB (VANITY) eramic firectory size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with INo. 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 stric accordance to manufacture's specifications.

# B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)

B5: H/DUTY BASIN & INO. TAP (FOR LABS) Ceramic file city States and RHS hole plugged and fitted with; INO 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 Be: MEDIC BASIN & FITTINGS (SICK BAY) Wireous china Stu x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action with the second study a study a study of the second s

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 t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of: • 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.

## 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 elsew measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assessories 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

# X3: CERAMIC SINK

brackets supplied with all necessary accessories (all to be acid resistant X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS

# X5: DOUBLE WASH TROUGH (inset) & 2 no. TAPS

0 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 bac 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 fo piece at height of 915mm AFFL

## SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL indard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications. K2: GLASS MIRROR smm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws

## K3: SS WASTE BIN accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC) 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

and plastic wall plugs. Installed as per manufacturer's instructions **K8: PAPER TOWEL DISPENSER** 

## installed in accordance to manufacturer's specification 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 manufacturer's specifications. K10: ALUMINIUM COAT HOOKS (Multirack

K11: HAND DRYER (Hands free) As per Electrical Engineers specification

# 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 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 \$C0400 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 surrour 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 surrour 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) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut 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 enclose

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

accordance with the manufacturer's instructions

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with "Ic Thermoset Plastic Seat", Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

Vitreous china 900 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.

Vitreous china 900 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.

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste

• 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.

eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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

Bring BASIN 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 1/4 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 th

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

swivel Outlet, adjustable wall flanges and supplied with suitable acesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFI 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-concealer

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

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 necessa

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

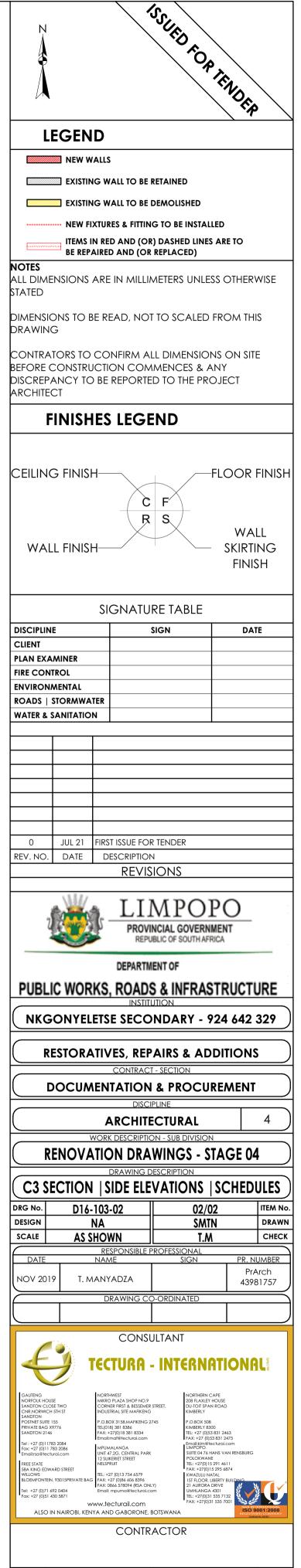
stainless steel 1018 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with \$\$ fixing screw

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per

system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm higt manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir



AUTOCAD

PROJECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### F2: PORCELAIN TILES -MATT

600 x 600 x 10mm 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<sup>n</sup> 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

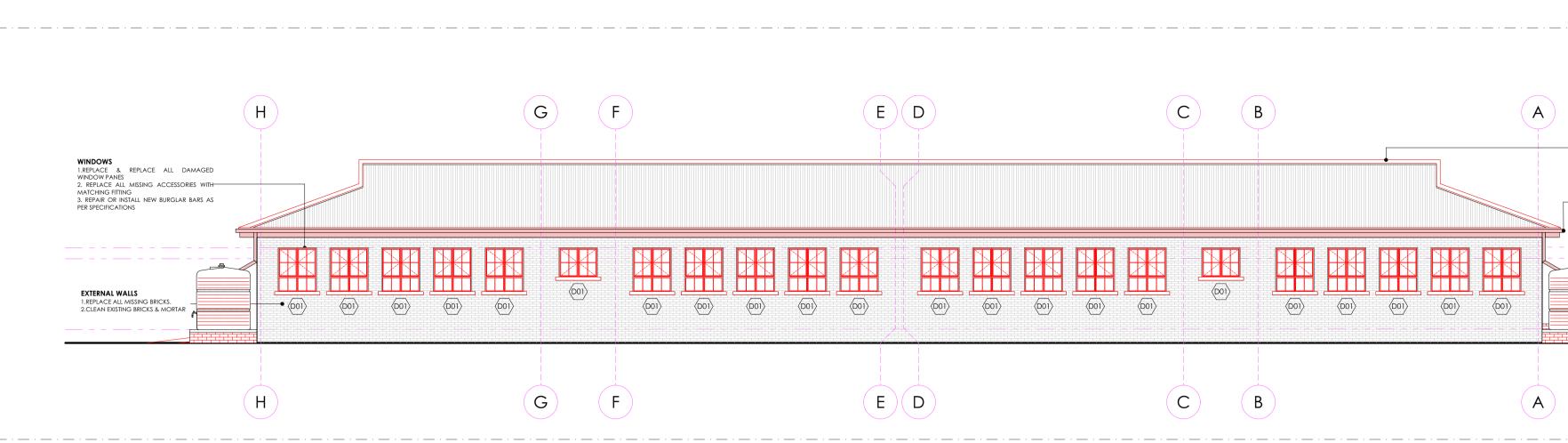
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions.

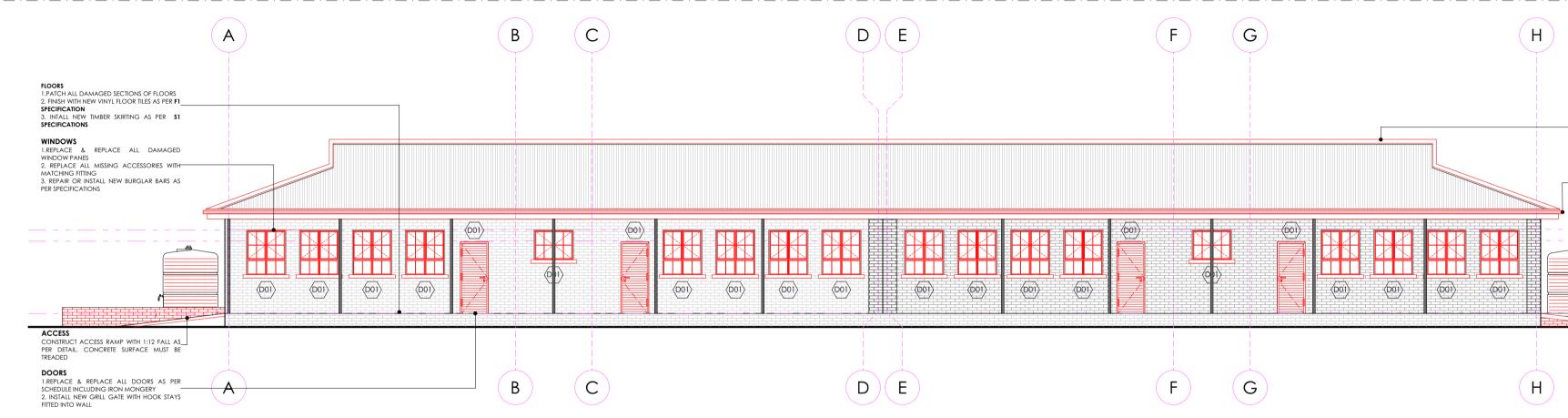
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

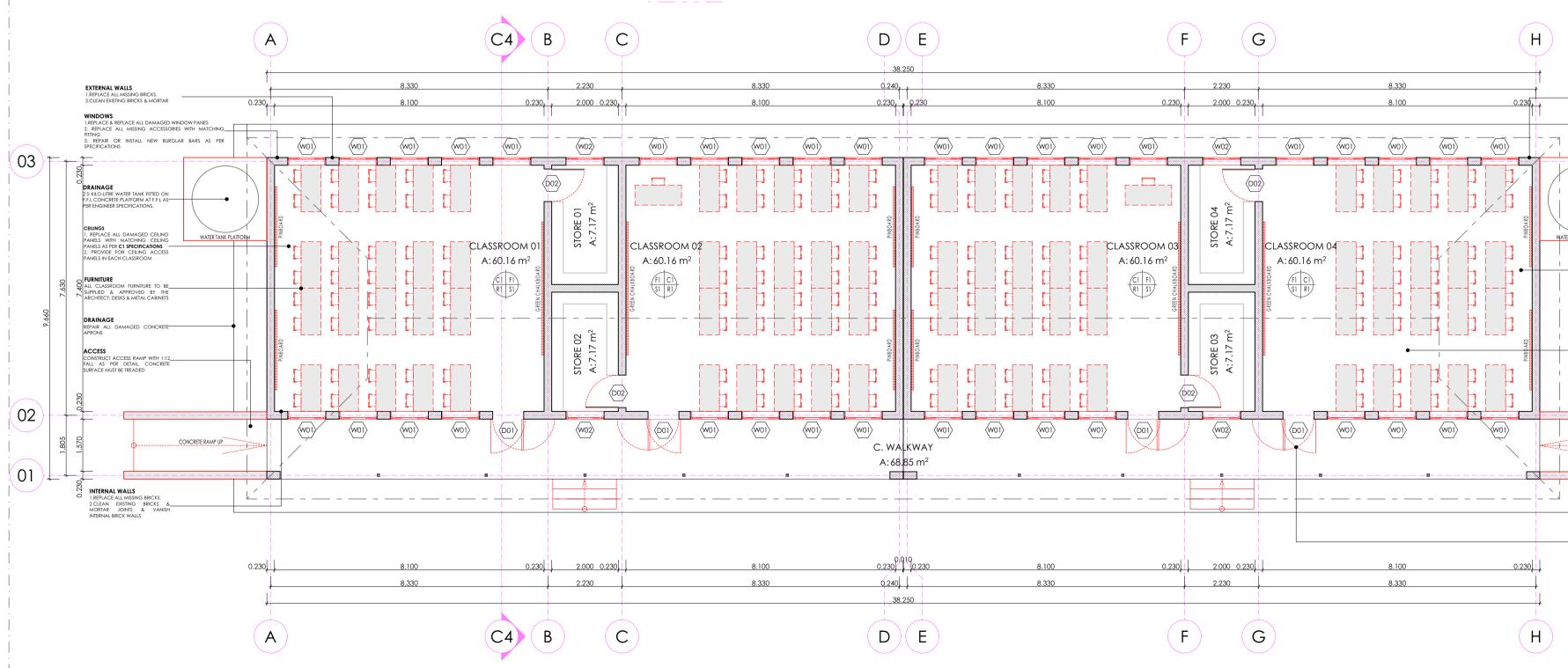
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

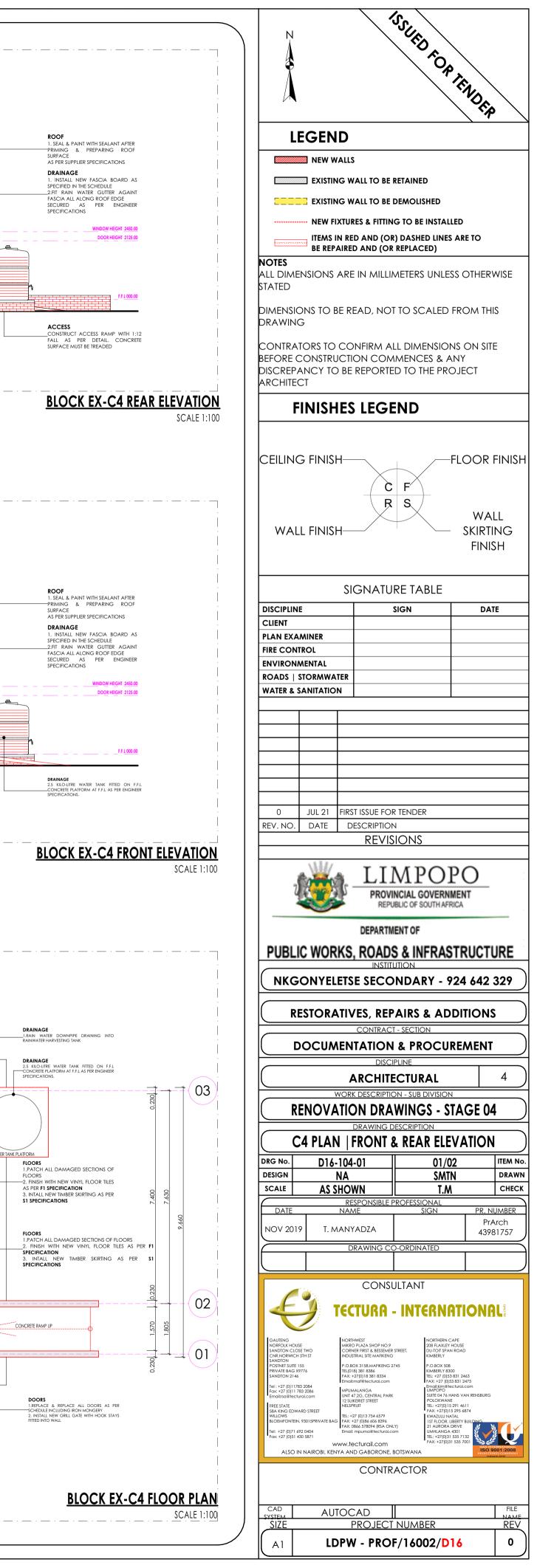
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

<u>Fascia board:</u> 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.









## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with \$AB\$ 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 files 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 creeds 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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 nick 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

5 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 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 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard pecifications 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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 nanufacturer'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 veight 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

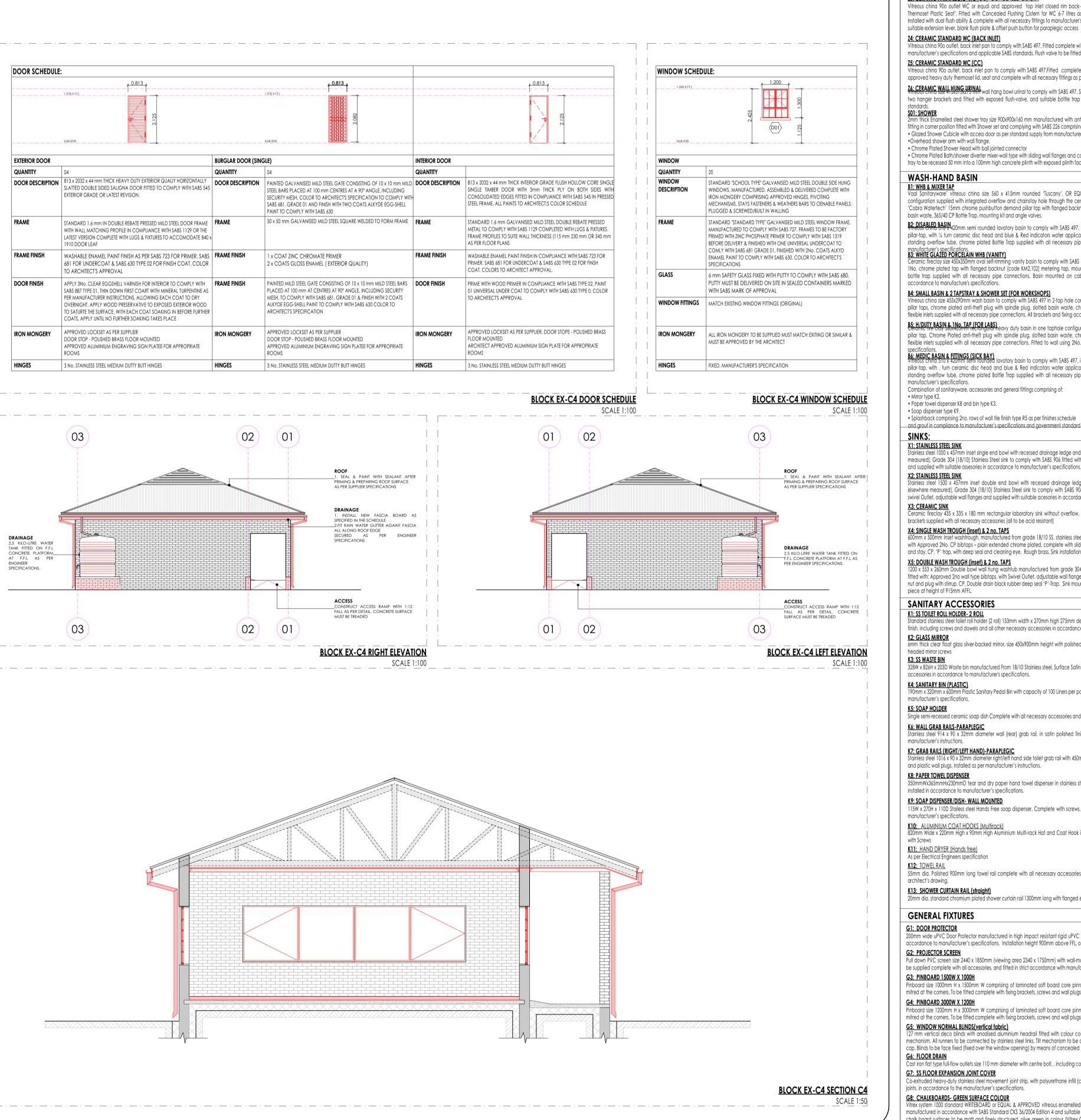
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

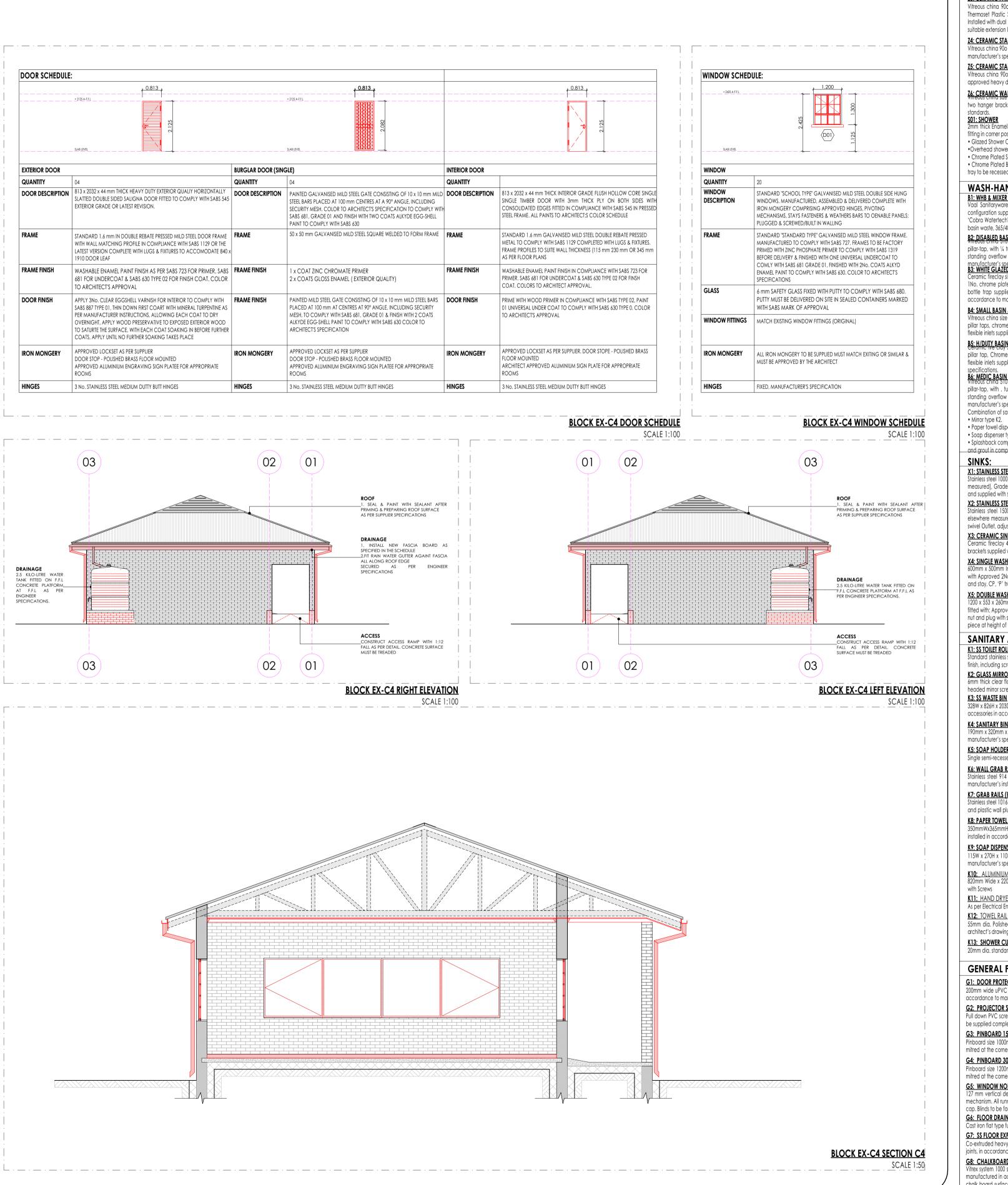
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

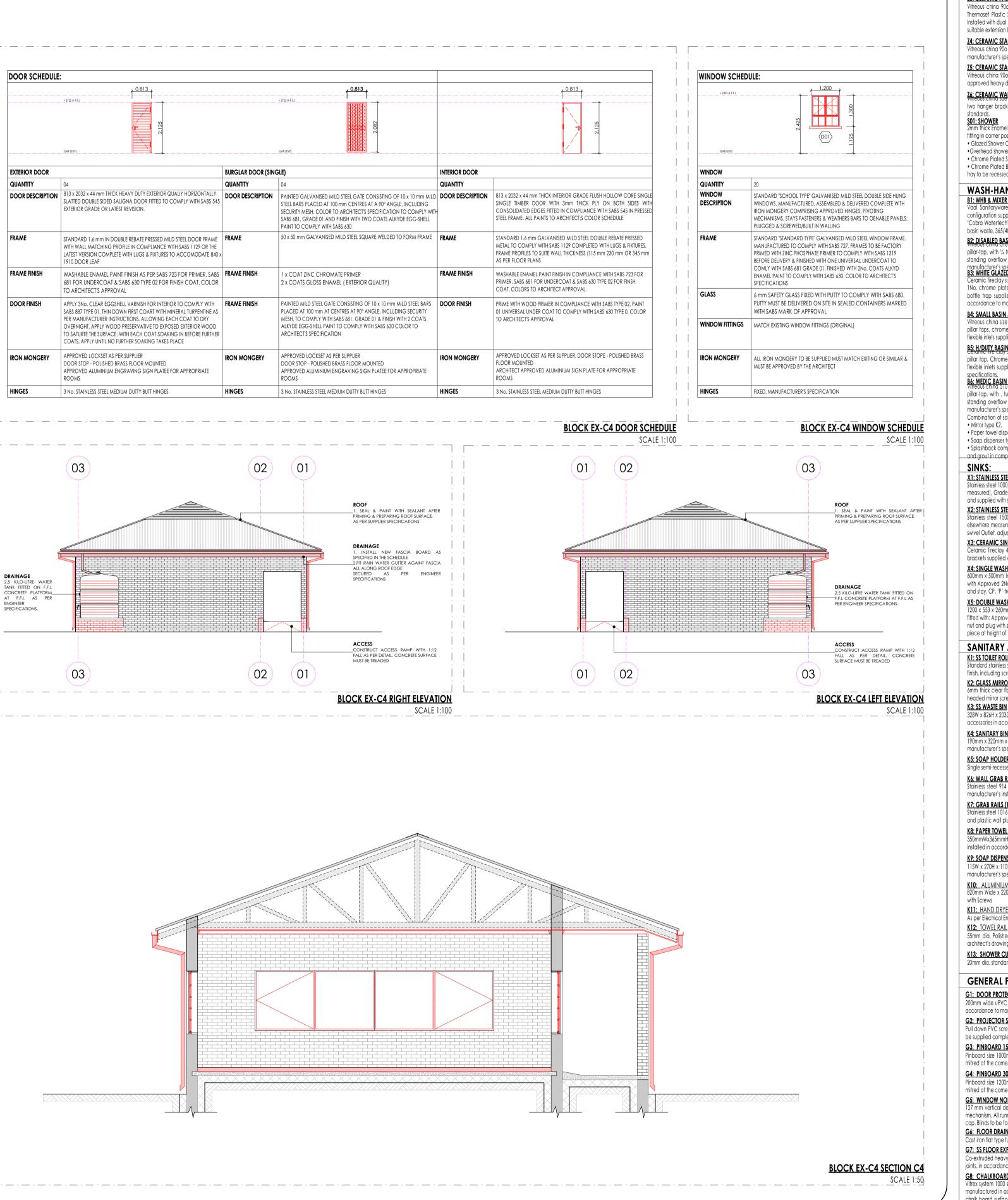
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







### **SANITARY SCHEDULE** WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN blank flush plate.

## **<u>Z2: CERAMIC PARAPLEGIC WC</u>**

**Z3: CERAMIC PARAPLEGIC WC** (CC)- CONCEALED CISTERN

Z4: CERAMIC STANDARD WC (BACK INLET)

**Z5: CERAMIC STANDARD WC (CC)** 

Z4: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader an two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fittina 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 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B3: WHITE GLAZED PORCELAIN WHB (VANITY) amic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with INo. 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 stric accordance to manufacture's specifications.

# B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) Ceramic fire day SobAustin 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 Be: MEDIC BASIN & FITTINGS (SICK BAY) Wireous china Stu x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action with the second study a study a study of the second s

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 t manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of: • Paper towel dispenser K8 and bin type K3.

• 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.

X1: STAINLESS STEEL SINK Stainless steel 1000 x 457mm inset sinale end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewi measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFEL. 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 AFFI

# brackets supplied with all necessary accessories (all to be acid resistant

X4: SINGLE WASH TROUGH (inset) & 2 no. TAPS x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cho 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

piece at height of 915mm AFFL SANITARY ACCESSORIES

## K1: SS TOILET ROLL HOLDER- 2 ROLL

dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications. K2: GLASS MIRROR smm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom headed mirror screws

## K3: SS WASTE BIN accessories in accordance to manufacturer's specifications.

K4: SANITARY BIN (PLASTIC) manufacturer's specifications.

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 pe

# K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC

and plastic wall plugs. Installed as per manufacturer's instructions K8: PAPER TOWEL DISPENSE

# installed in accordance to manufacturer's specification

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 manufacturer's specifications.

K11: HAND DRYER (Hands free) As per Electrical Engineers specification

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 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 \$C0400 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 surrour 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 surrour 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) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut 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 enclose cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

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 n 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm higt

accordance with the manufacturer's instructions

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset Plastic Seat", Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae val Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

Vitreous china 900 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.

Vitreous china 900 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.

eous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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

Bring BASIN 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 1/4 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 th

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

Ceramic fireclay 435 x 335 x 180 mm rectanaular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealer

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 bac 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 fo

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel. Surface Satin Finish, Material Thickness 1,5mm, includina Screws,dowels and all necessa

x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

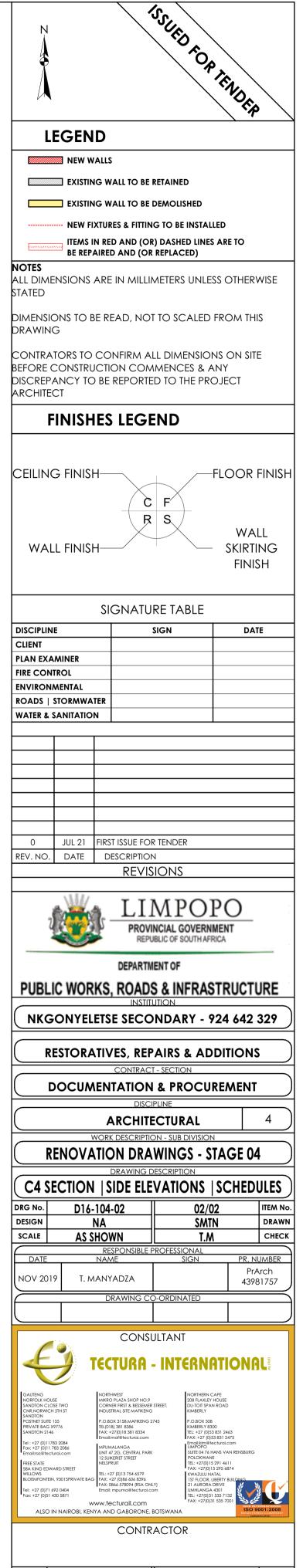
stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screv

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories a

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as p

manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wil ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly



AUTOCAD

PROJECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 creeds 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 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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 he 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

200mm 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

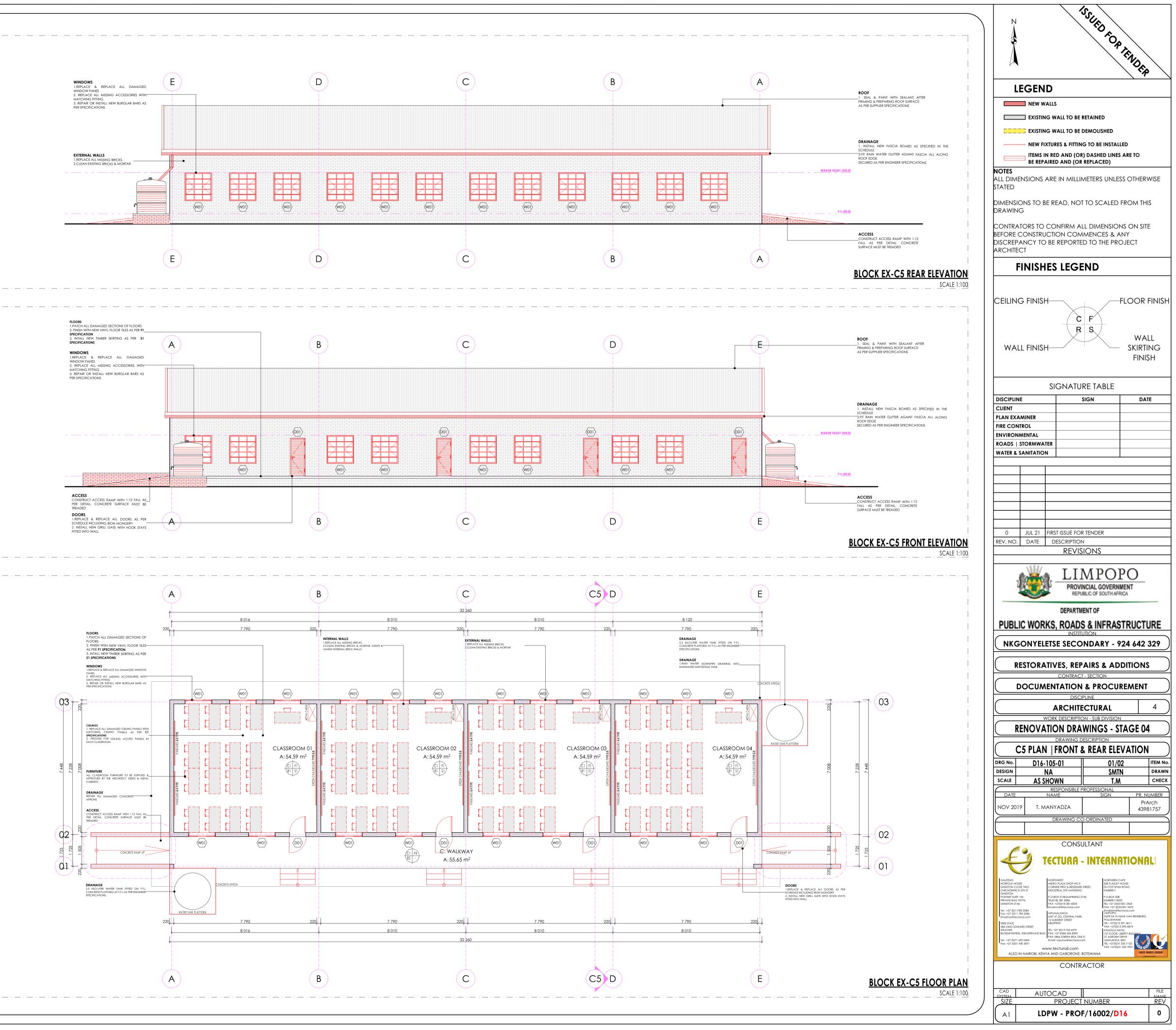
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

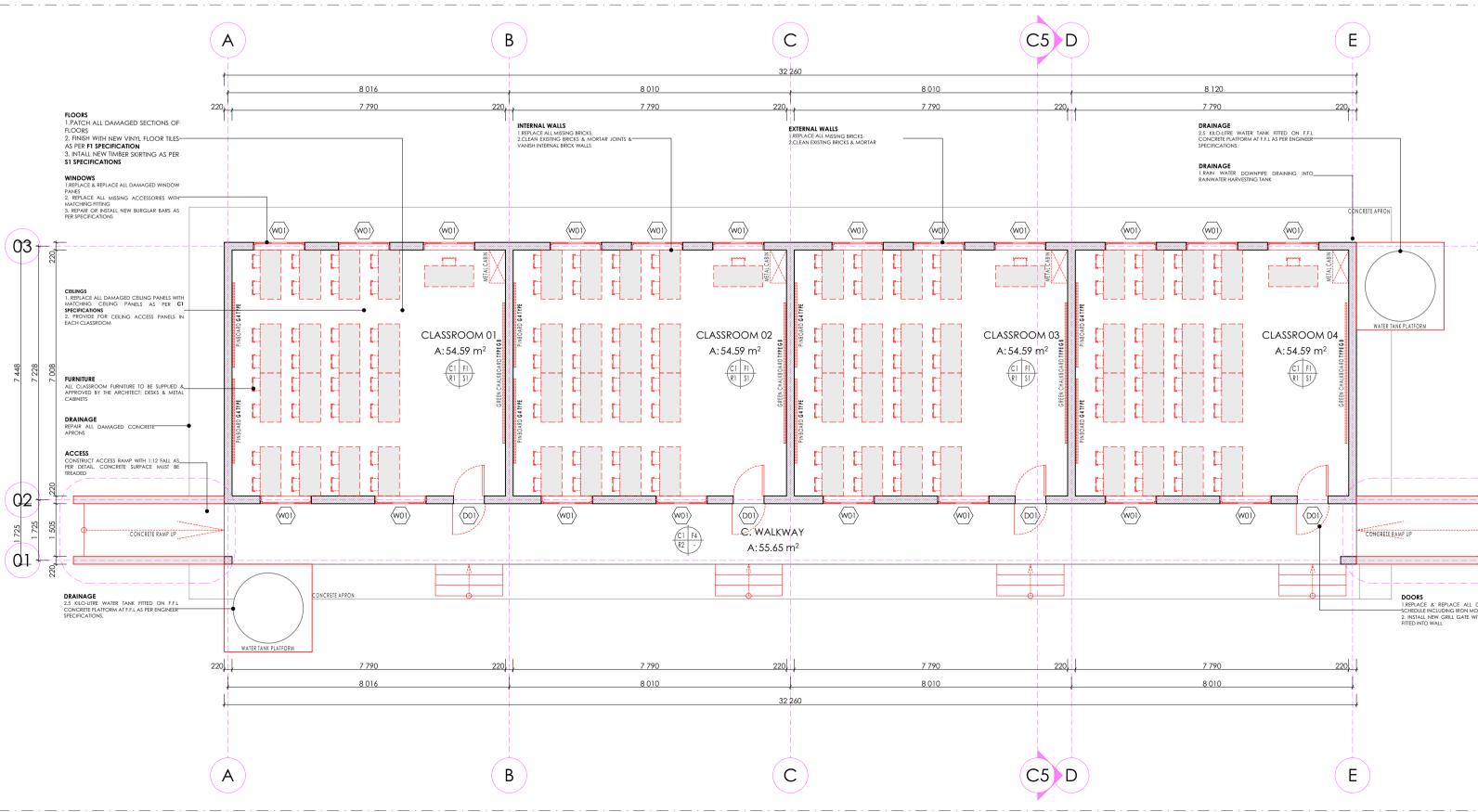
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm 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/Barae Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 vaterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement creeds 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.

4: 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.

#### 7: 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 nitred coners with screws and plugs at centres not exceeding 600mm , and fixed with a 19mm x 19mm quadrant beading. The skirting to be anished 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 SAB\$ 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

5 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 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 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant laster 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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.

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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, 30 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers sing Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he 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 nanufactured, 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 naximum 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

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured to 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 entres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o 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 veight 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.

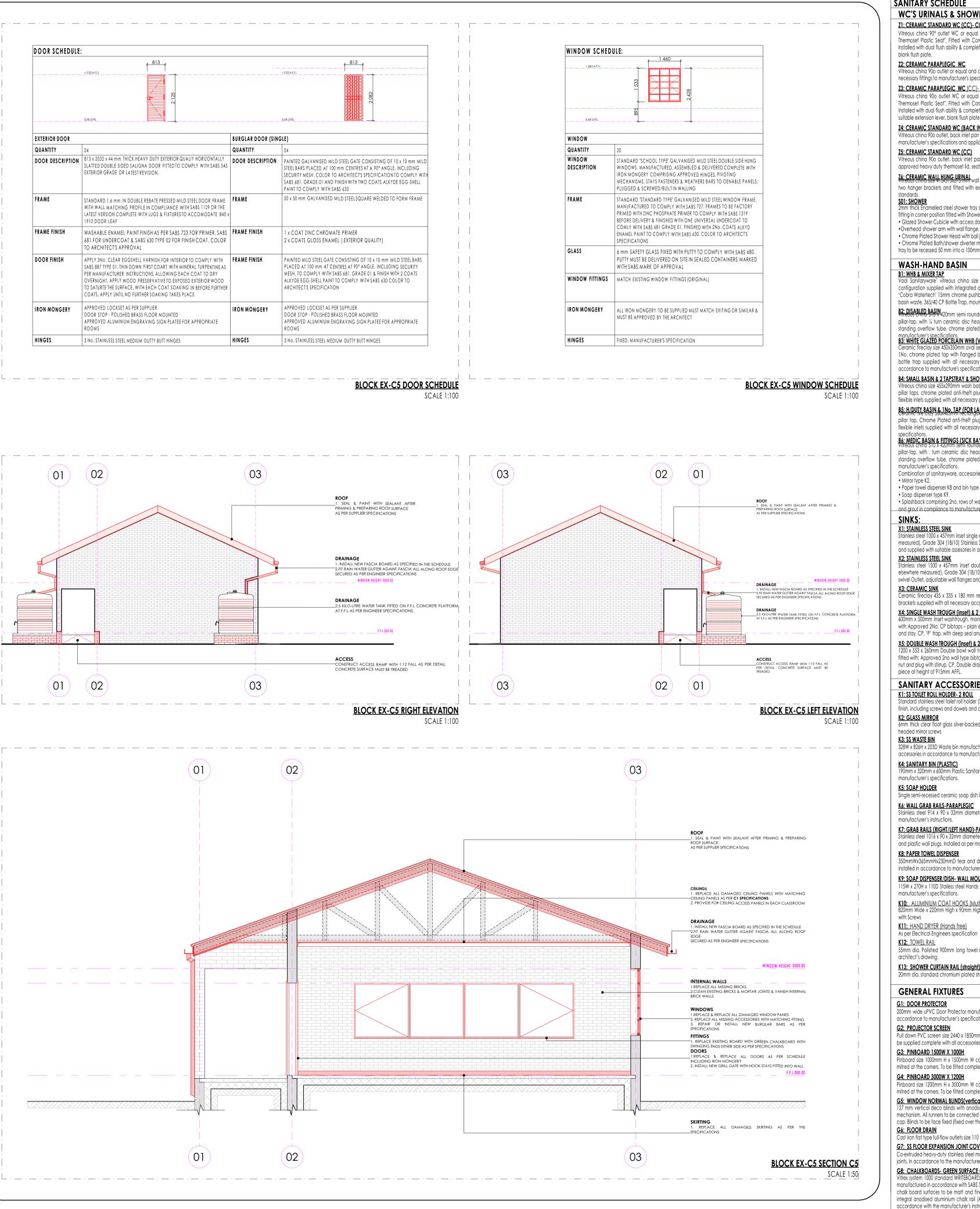
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

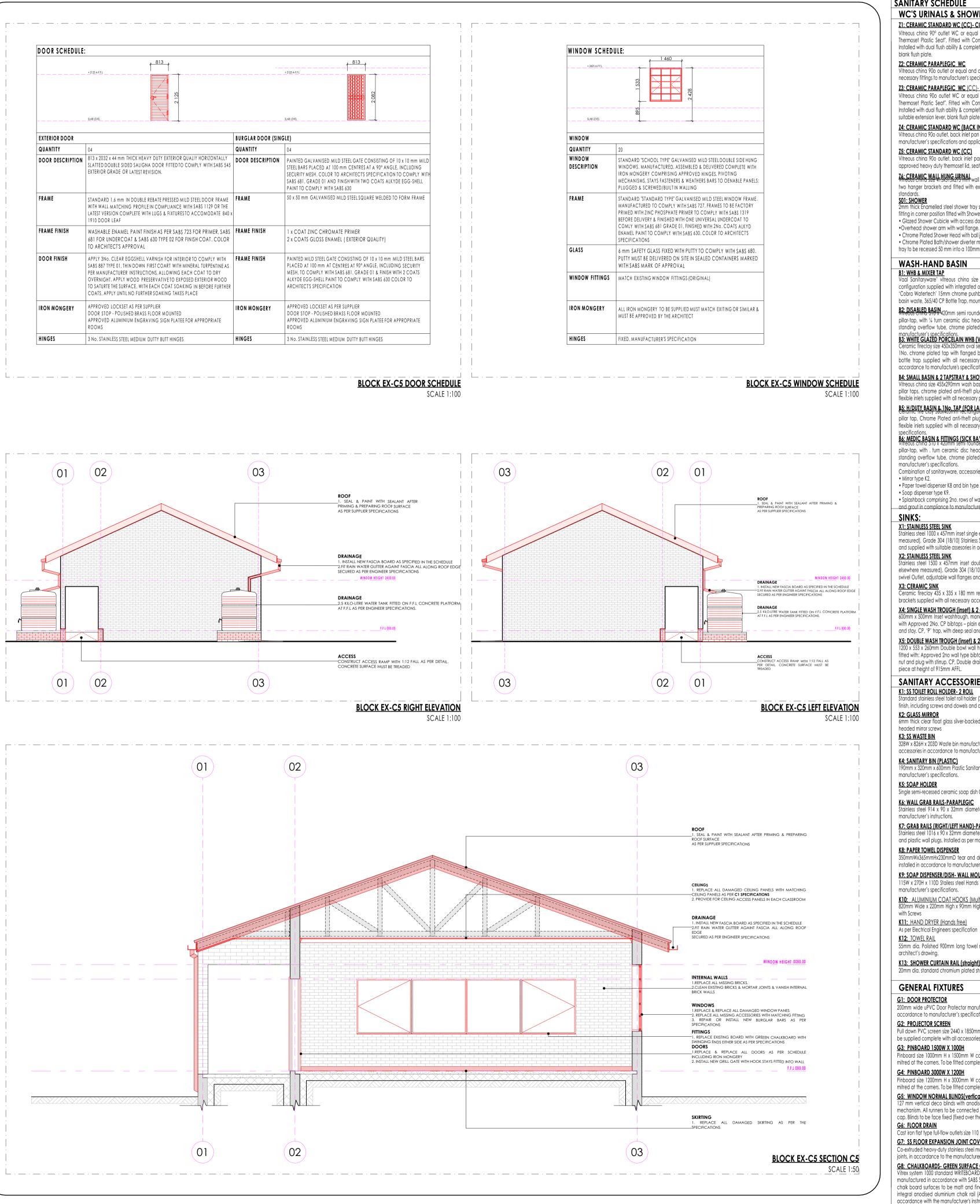
Galvanised Steel (G) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jo Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharae valve access pneumatic discharae 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

/itreous china 900 outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with al necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jac 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

Vitreous china 900 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.

Vitreous china 900 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. 76: CERAMIC WALL HUNG URINAL wall hang bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and

mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower

ous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with sinale tapho configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1N '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

B2: DISABLED BASIN 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 1/4 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 th

Ceramic firectay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with INo. 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 stric

itreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2Nc pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm lor 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 day 300x400mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1Nc

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 Be: MEDIC BASIN & FITTINGS (SICK BAY) Wireous china Stu x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action with the second study a study a study of the second s

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 t

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewh 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 assessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 AFFI 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

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitter with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, cha and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.

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 bac nut and plug with stirrup. CP, Double drain black rubber deep seal 'P'-Irap. Sink mounted on 2no. 25mm square \$\$ gallow brackets, front leg and adjustable fc

dard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sa finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

omm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dom

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 necessa

m x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance

Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

stainless steel 1018 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with \$\$ fixing screw

350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories ar

115W x 270H x 110D Stailess steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance

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 Comple

55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per

20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

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

Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code \$C0400 Keystone Brackets Adjustable Set of 2, size 300mm. To

Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

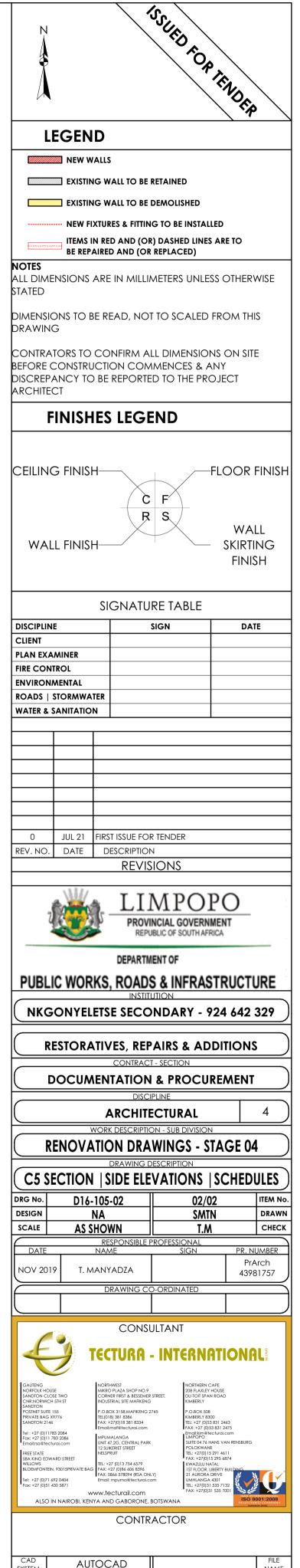
Pinboard size 1200mm H x 3000mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction agar inside a fully enclose

Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

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

system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm higt manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel Utili chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete with ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly ir



PROJECT NUMBER

LDPW - PROF/16002/D16

## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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.

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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.

#### <u>R3:ALKYD (ENAMEL) PAINT</u>

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

200mm 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

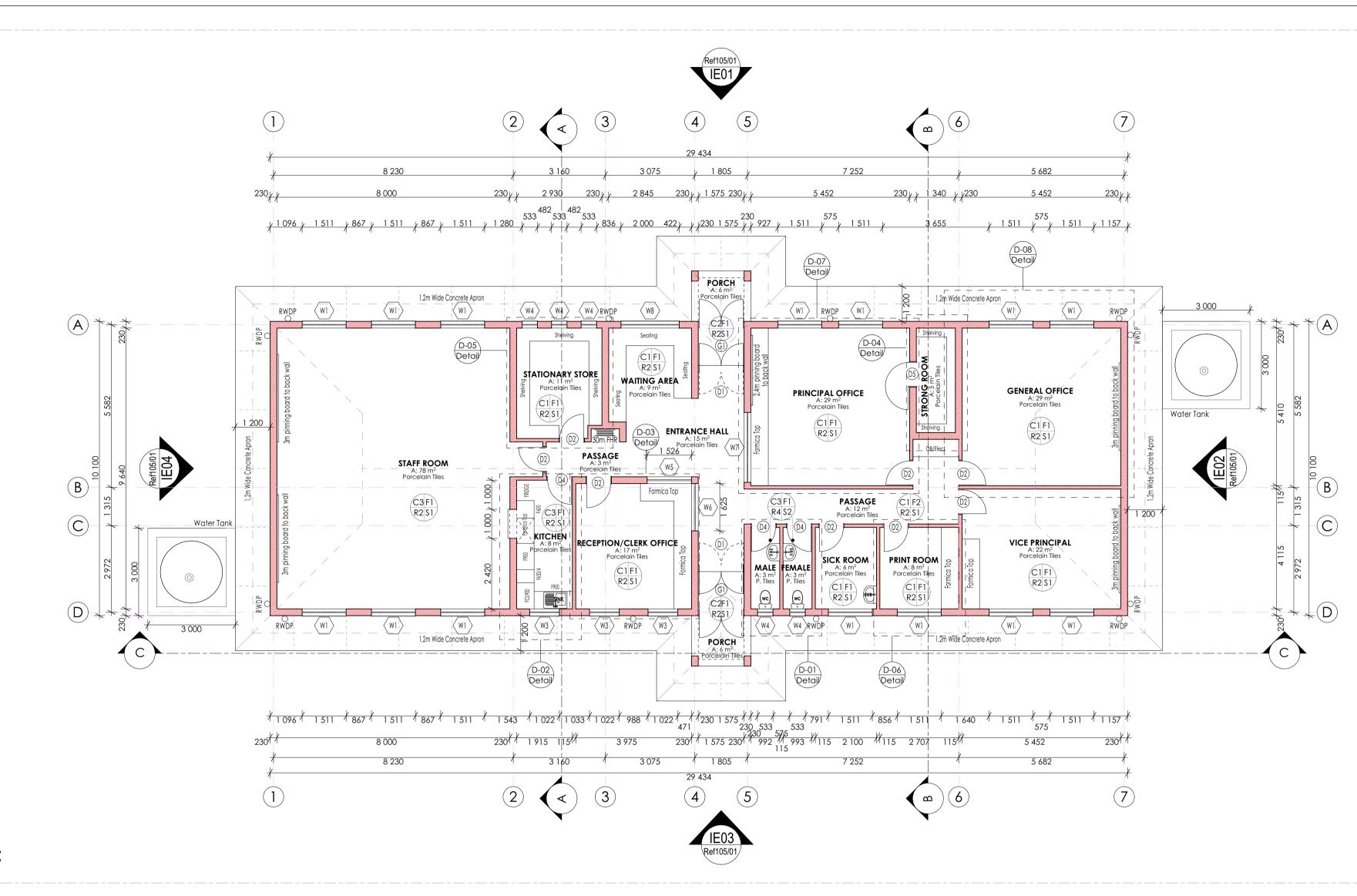
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

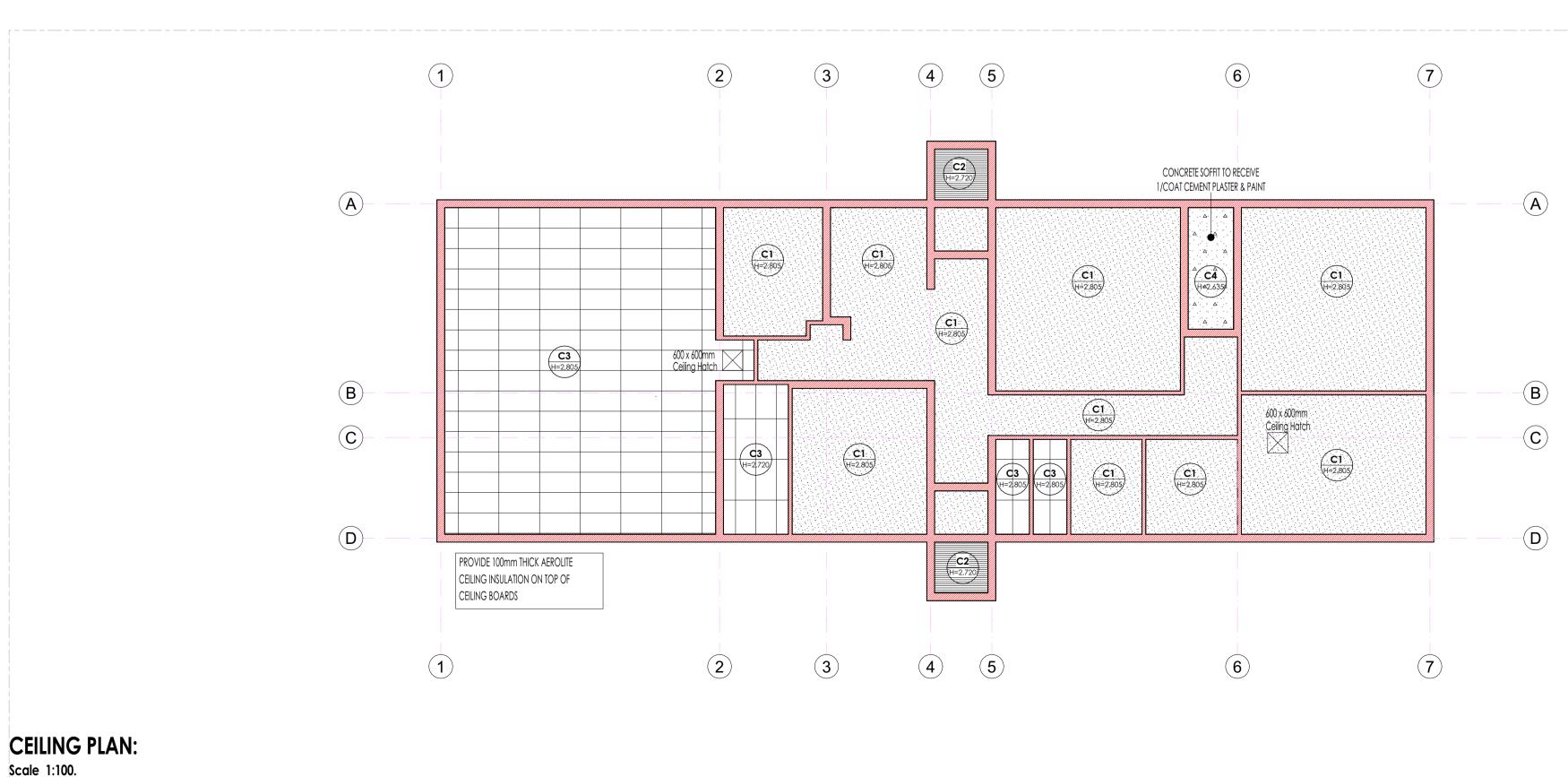
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.



# FLOOR PLAN:





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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

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## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 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

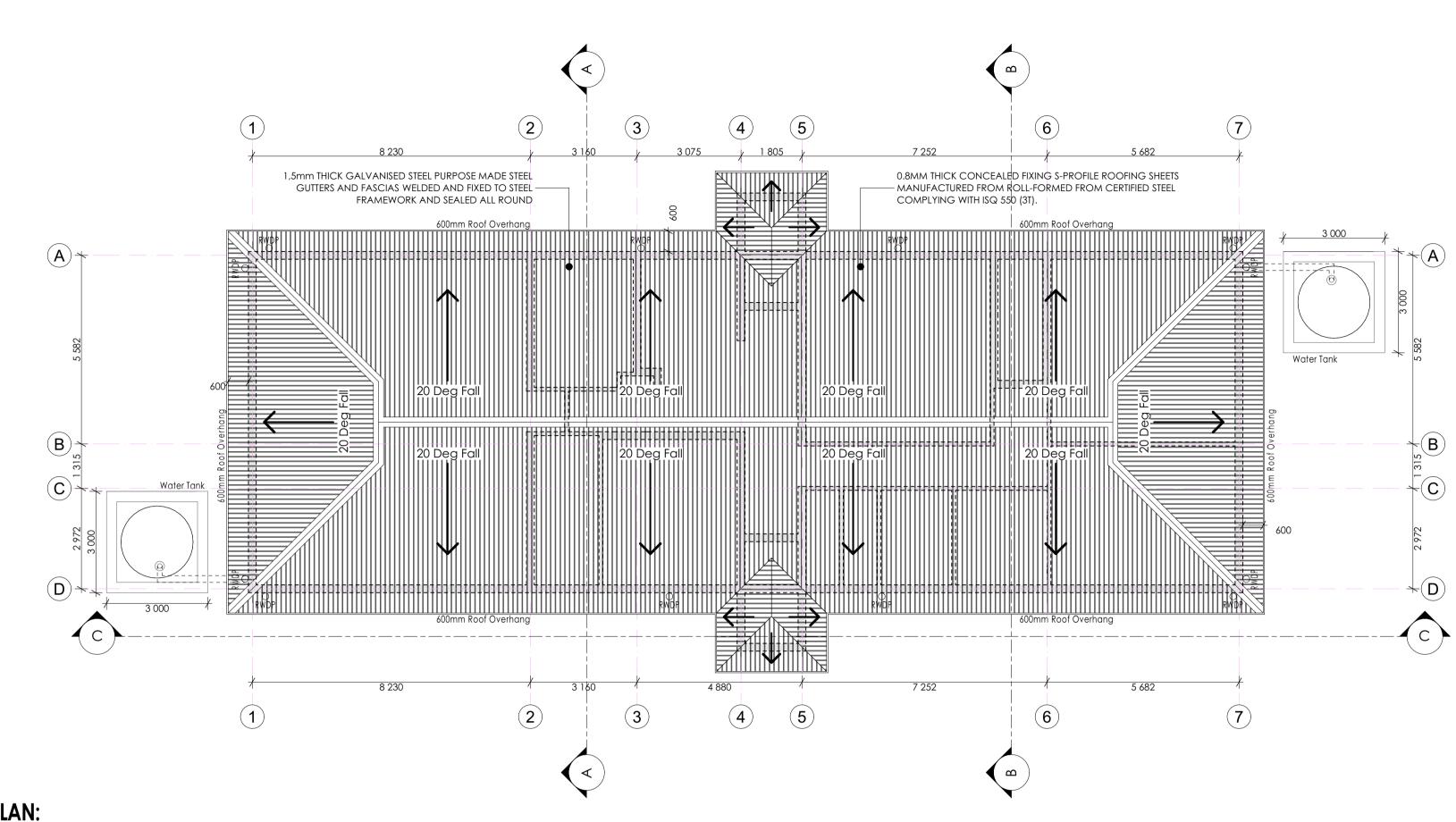
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural 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 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.

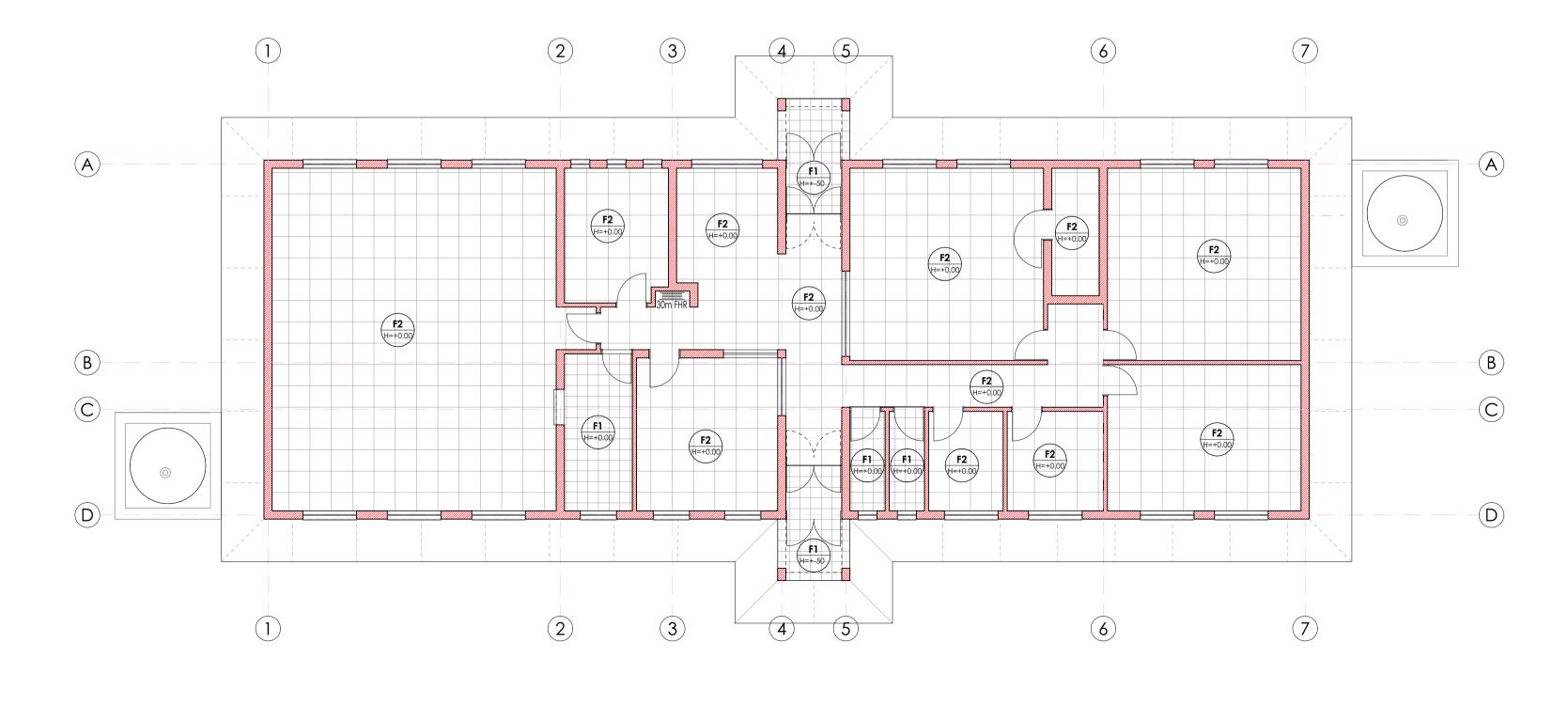
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.



# ROOF PLAN:

Scale 1:100.

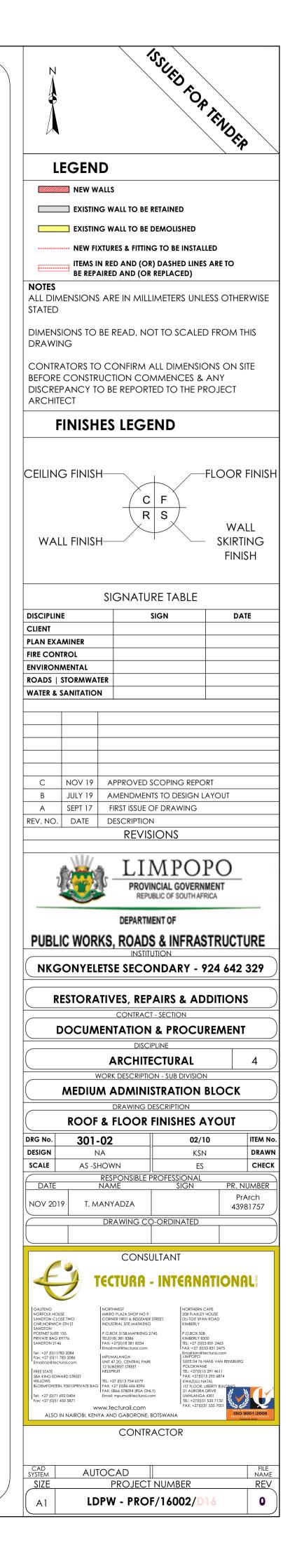


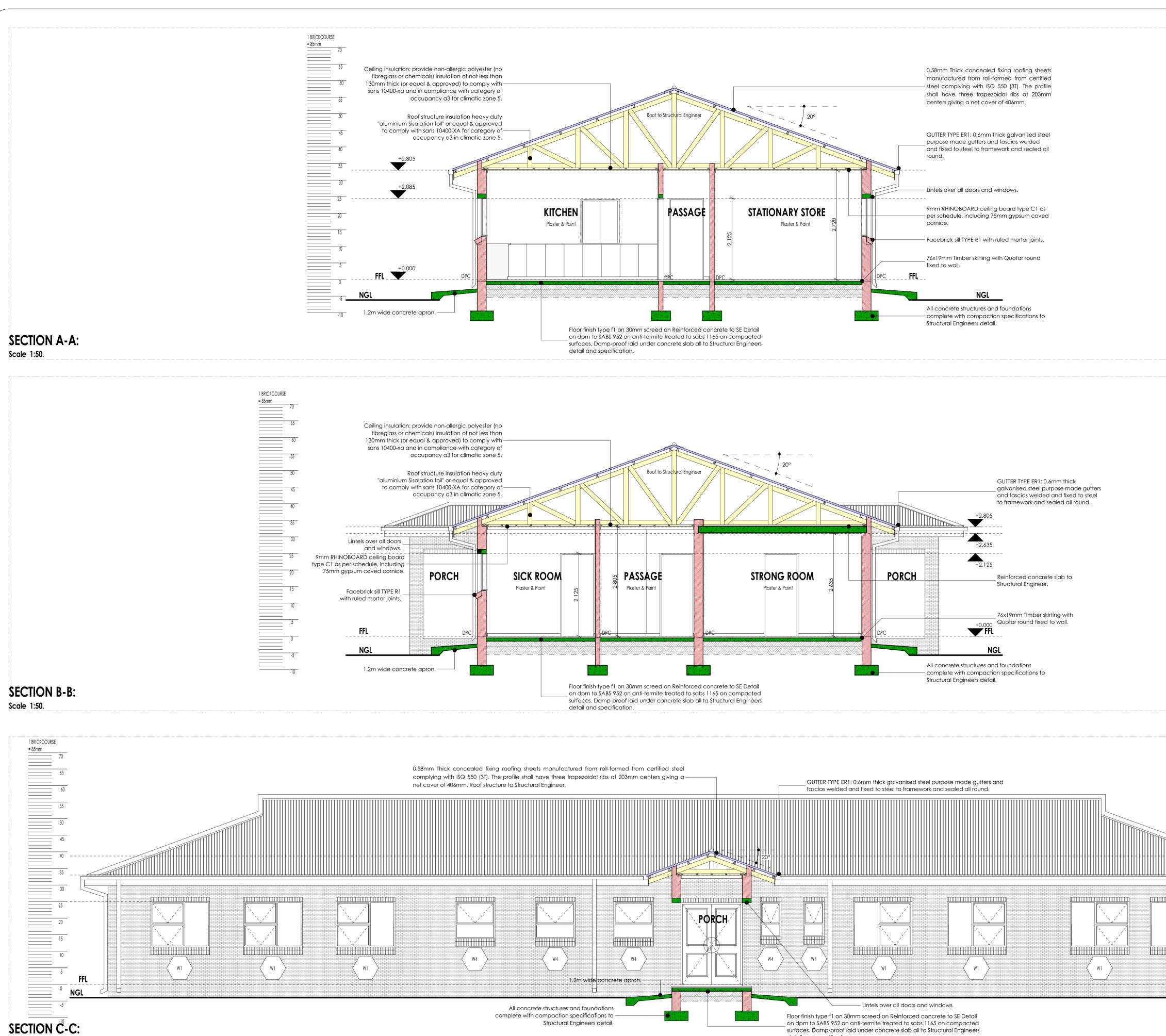
FLOOR FINISHES PLAN: Scale 1:100.

FLOOR FINISHES LEGEND:	



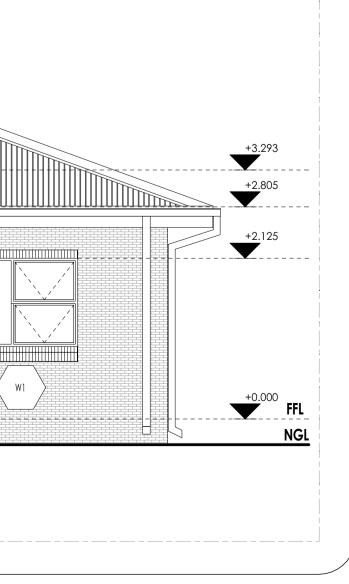
CERAMIC TILES TYPE <b>F1</b> AS PER FINISHES SCHEDULE.
PORCELAIN TILES TYPE <b>F2</b> AS PER FINISHES SCHEDULE.

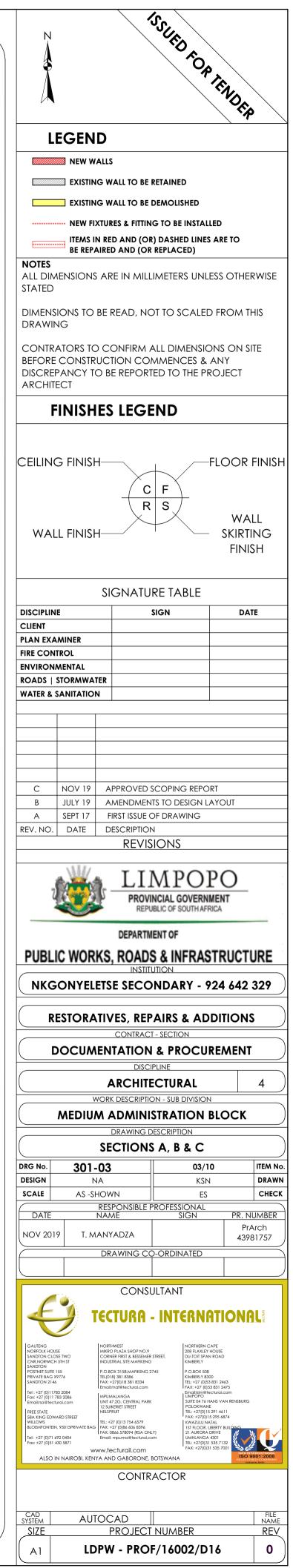




Scale 1:50.

detail and specification.





## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 creeds 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.

<u>R2: EMULSION (PVA) PAINT – FULL HEIGHT</u> 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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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

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,

#### 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

200mm 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

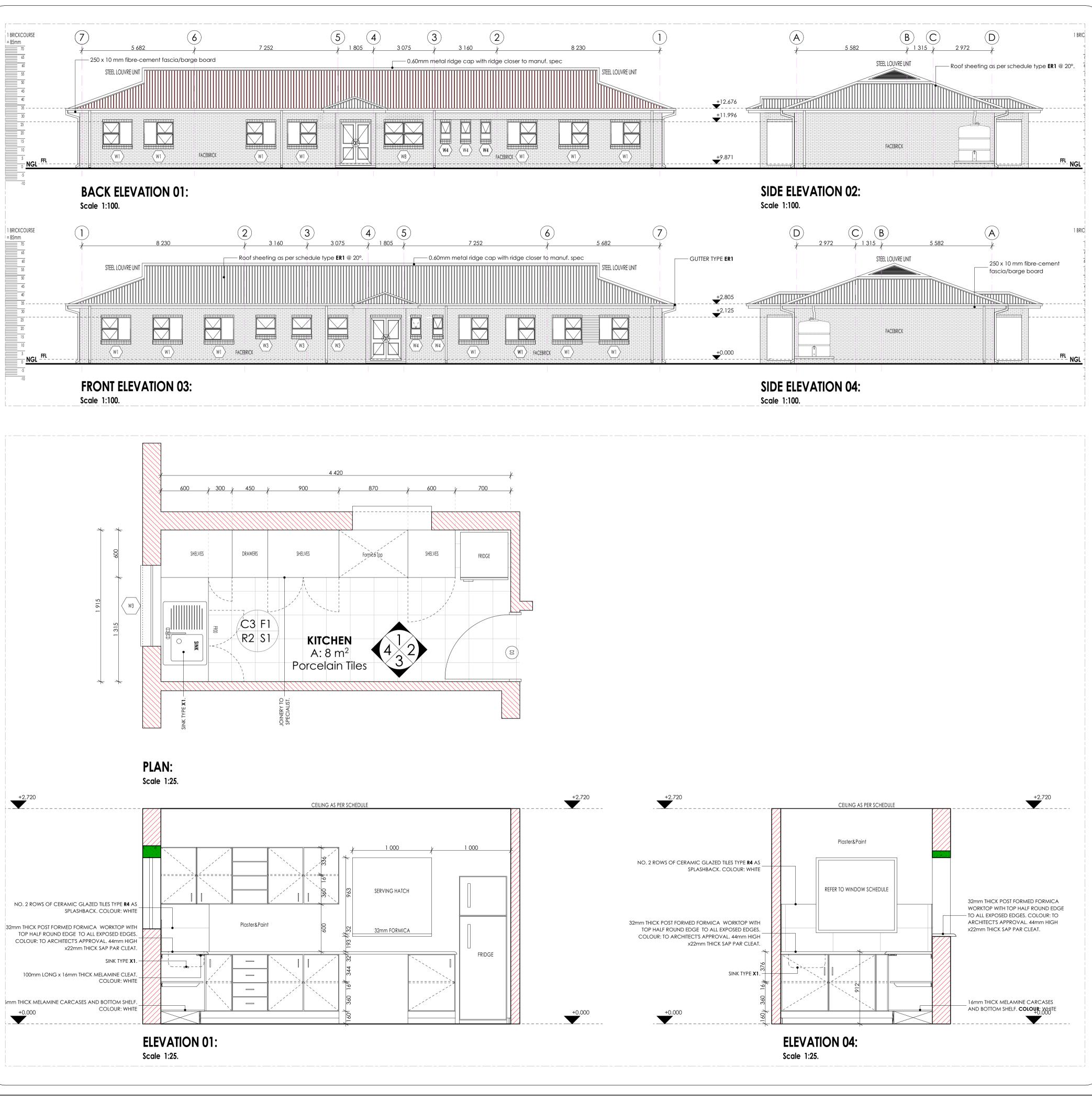
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

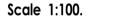
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

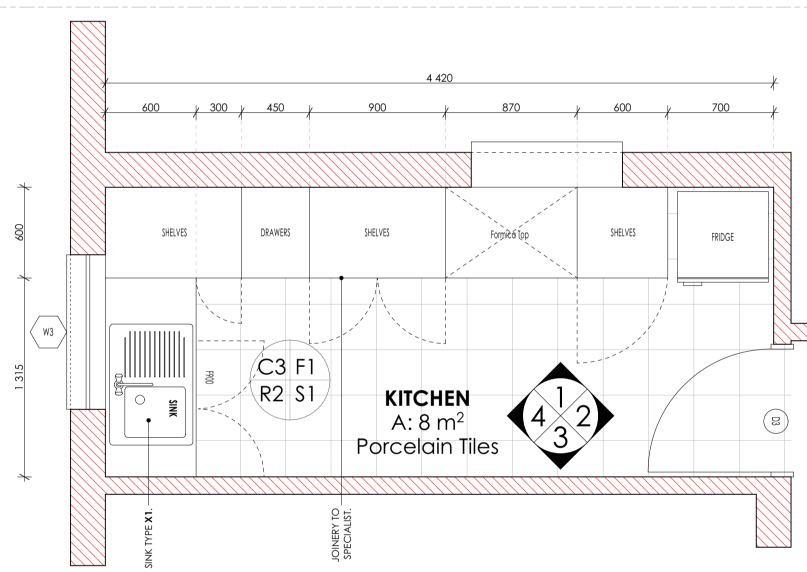
Galvanised Steel (GL) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

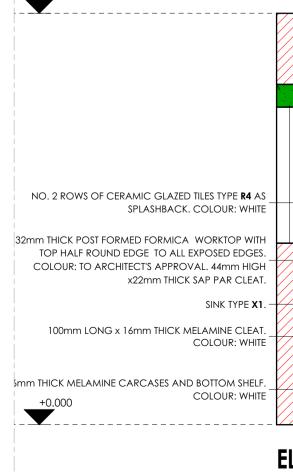
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

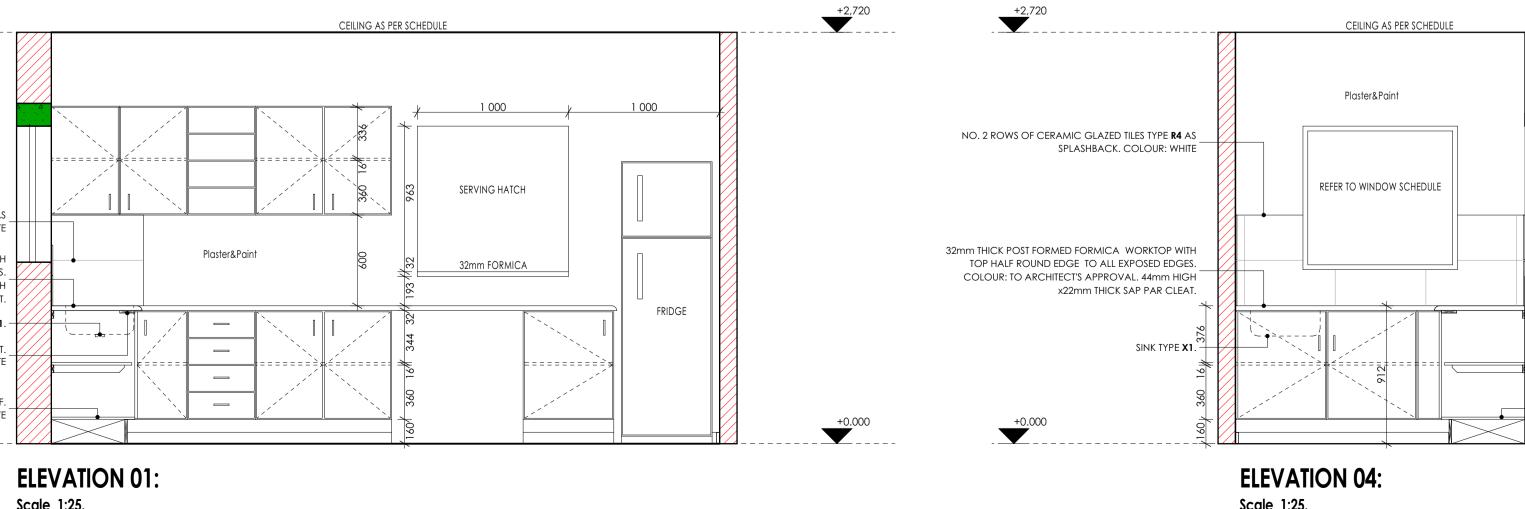
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.











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

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 he ceiling using Gyproc RhinoLite.

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Tel: +27 (0)11783 2084         MPUMALANGA           Fox: +27 (0)11 783 2086         UNIT 47.2G, CENTRAL PAI           Emailtrasi@tecturai.com         12 SUIKENET STREET           FREE stATE         NELSPRUT           S8A KING EDWARD STREET         NELSPRUT           WILOWS         TEL: +27 (0)13 754 6579           BLOEMFONTEIN, 93015PRIVATE BG         FAX: 0866 57804 (RSA O)           Tel: +27 (0)71 692 0404         Emailtrasiling mumo@ifecturai.	POLOKWANE TEL: +27(0)15 295 4611 FAX: +27(0)15 295 6874 KWAZULU NATAL 13T FLOOR, UBERTY BUILDING 21 AUPORA DRIVE UMHLANGA 4301 TEL: +27(0)31 535 7102 FAX: +27(0)31 535 700
Tel: +27 (0)11783 2084         MPUMALANGA           Fox: +27 (0)11 783 2084         UNIT 47.2G, CENTRAL PAI           Face: +27 (0)11 783 2084         IN 2 SUREMET STREET           SAA KING EDWARD STREET         NELSPRUIT           Tel: +27 (0)13 793 015PRIVATE BAG         FAX: +27 (0)18 640 8396           IDE: +27 (0)71 692 0404         FAX: +27 (0)51 430 8871           Fox: +27 (0)51 430 5871         WWW.tecturail.com	POLOKWANE TEL: +27(0)15 295 4611 FAX: +27(0)15 295 6874 KWAZULU NATAL 13T FLOOR, UBERTY BUILDING 21 AUPORA DRIVE UMHLANGA 4301 TEL: +27(0)31 535 7102 FAX: +27(0)31 535 700
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Tei: +27 (0)11783 2084           Fox: +27 (0)11783 2084           Email:rs0@tecturai.com           FREE state           S8A KING EDWARD STREET           WILLOWS           BLOEMFONTEIN, 93015/PRIVATE BAG           Fax: +27 (0)174 20 4004           Fax: +27 (0)174 20 4004           Fax: +27 (0)51 430 5871           WWW.tecturail.com           ALSO IN NAIROBI, KENYA AND GABORONE           CONTE           SYSTEM           SIZE           PROJECC	POLOKWANE TE:-27(0)15 295 6474 Kw32UU NATAI 13T FLOOR, UBERTY BUILDING 21 AURORA 4301 TE:-27(0)31 535 7132 FAX:+27(0)31 535 7001 TE:-27(0)31 535 70

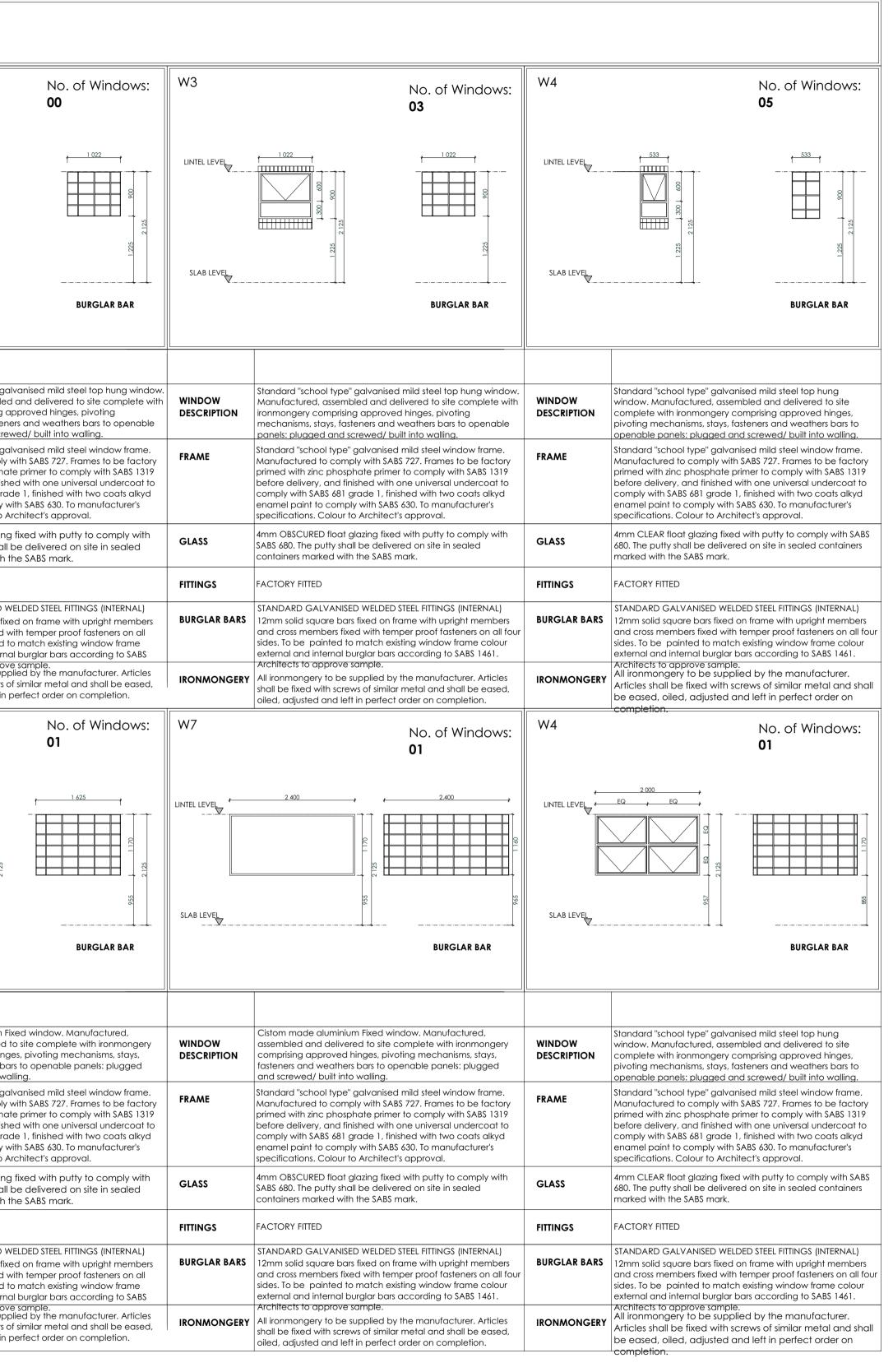
## **DOOR SCHEDULE:** TYPE D1 1,613 +2 125 mm AEFL\_\_\_\_\_\_ )// **F**-------TYPICAL <u>FF</u> EXTERIOR DOOR 1511mm x 2032mm x 44mm thick heavy duty exterior quality DOOR horizontally statted double sided stable saligna door fitted to DESCRIPTION: comply with SABS 545 exterior grade. Standard 1.2mm in galvanised mild steel door frame with FRAME: profile matching wall, to comply with SABS 1129, complete with lugs and fixtures, to accommodate 1613 x 2032 door leaf. Washable enamel paint finish complying with SABS 723 for prime FRAME FINISH: SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval Apply three clear eggshell varnish for interior wood to comply DOOR FINISH : 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. Approved Lockset as per supplier IRONMONGERY: Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate room 6 no. stainless steel medium duty butt hinges. HINGES: TYPE D3 No. of Doors: + 813 + +2 125 mm \_\_\_\_ $\mathbf{v}$ AFFL INTERIOR DOOR 813mm x 2032mm x 44mm thick interior grade flush hollow core DOOR single timber door with 3mm thick ply on both sides with 2 DESCRIPTION: consolidated edges fitted to comply with SABS 545 in pressed st frame. All painted in accordance with Architect's colour schedu Standard 1.6mm galvanised mild steel double rebate pressed r FRAME: frame with Fanlight complying to SABS 1129 complete with lugs fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm per floor plans. Provide 4mm clear glass at the Fanlight. Washable enamel paint finish complying with SABS 723 for prime FRAME FINISH: SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval Prime with wood primer to comply with SABS, type 2. Paint one ( **DOOR FINISH :** Universal under coat to comply with SABS 681, grade 1, and finis with two (2) coats alkyde egg-shell paint to comply with SABS 63 type 1. Colour to architect's approval Approved Lockset as per supplier IRONMONGERY: Approved Lockson as pointed brass floor mounted. Approved Aluminium engraving sign plate for appropriate room 3 no. stainless steel medium duty butt hinges.

HINGES:

		No. of Doors: <b>01</b>	TYPE D2	No. of Doors: <b>08</b>
	A			+2 125 mm AFEL TYPICAL FFL
		BURGLAR DOOR (DOUBLE)		INTERIOR DOOR
	DOOR DESCRIPTION:	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.	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.
h	FRAME:	50x50mm galvanised mild steel square tube welded to form frame.	FRAME:	Standard 1.6mm galvanised mild steel double rebate pressed meto frame complying to SABS 1129 complete with lugs and fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm) as per floor plans
ner,	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)	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
	DOOR FINISH :	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	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
ns	IRONMONGERY:	Approved Lockset as per supplier	IRONMONGERY:	Approved Lockset as per supplier Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate rooms
	HINGES:	6 no. stainless steel heavy duty butt hinges.	HINGES:	3 no. stainless steel medium duty butt hinges.
00	TYPE D4	No. of Doors: <b>03</b>	TYPE D5	No. of Doors: 0 <b>1</b>
		+2 125 mm AFEL TYPICAL FFL		+2 125 mm
		ABLUTIONS DOOR	L	STRONG ROOM DOOR
teel ule.	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.	DOOR DESCRIPTION:	SABS Category 3 vault door with 4 wheel combination lock and 2 x 8 lever key lock and 3 wheel combination. Overall size 900mm 1865mm high finished in rust proof under coat for final painting.
netal and n) as	FRAME:	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	FRAME:	50 X 50mm galvanised mild steel square tube welded to form frame.
er,	FRAME FINISH:	per floor plans 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	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)
(1) ish 30,	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	DOOR FINISH :	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
ms	IRONMONGERY	Approved Lockset as per supplier	IRONMONGERY:	Approved Lockset as per supplier
	HINGES:	VENTILATION GRILLE SIZED TO MECHANICAL ENGINEER'S SPECIFICATIONS 3 no. stainless steel medium duty butt hinges.	HINGES:	3 no. stainless steel heavy duty butt hinges.

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WINI	DOW SCHEDULE	•	
W1	No. of Windows: <b>14</b>	W2	
	1511 1511	LINTEL LEVEL	
WINDOW DESCRIPTION FRAME	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. 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	WINDOW DESCRIPTION FRAME	Standard "school type" go Manufactured, assembled ironmongery comprising o mechanisms, stays, fasten panels: plugged and scre Standard "school type" go Manufactured to comply primed with zinc phospha before delivery, and finish
GLASS	<ul> <li>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.</li> <li>4mm CLEAR float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers</li> </ul>	GLASS	comply with SABS 681 gra enamel paint to comply v specifications. Colour to A 4mm CLEAR float glazing SABS 680. The putty shall
FITTINGS	marked with the SABS mark. FACTORY FITTED	FITTINGS	containers marked with 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. Architects to approve sample.	BURGLAR BARS	STANDARD GALVANISED V 12mm solid square bars fix and cross members fixed v four sides. To be painted t colour external and intern 1461. Architects to approv
IRONMONGERY	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	IRONMONGERY	All ironmongery to be support shall be fixed with screws of oiled, adjusted and left in
LINTEL LEVEL	No. of Windows: 01	LINTEL LEVEL	
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 F assembled and delivered comprising approved hing fasteners and weathers bo and screwed/ built into wo
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" go Manufactured to comply primed with zinc phospha before delivery, and finish comply with SABS 681 gra enamel paint to comply v specifications. Colour to A
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 SABS 680. The putty shall containers marked with
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. Architects to approve sample.	BURGLAR BARS	STANDARD GALVANISED V 12mm solid square bars fix and cross members fixed v four sides. To be painted t colour external and intern 1461. Architects to approv
IRONMONGERY	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	All ironmongery to be supp shall be fixed with screws of oiled, adjusted and left in



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#### 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 90° 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 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

#### suitable extension lever, blank flush plate & offset push button for paraplegic access Z4: CERAMIC STANDARD WC (BACK INLET)

Vitreous china 90° 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.

## **<u>Z5: CERAMIC STANDARD WC (CC)</u>**

Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matchina 7 litre pushbutton top dual flush cistern fitted with auality 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 /itreous 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

#### 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 1/2 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 \$AB\$ 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 assessories 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 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

#### SANITARY ACCESSORIES

K1: SS TOILET ROLL HOLDER- 2 ROLL ndard 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.

piece at height of 915mm AFFL.

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 domeheaded mirror screws

#### <u>K3: SS WASTE BIN</u>

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) 1 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)

7 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

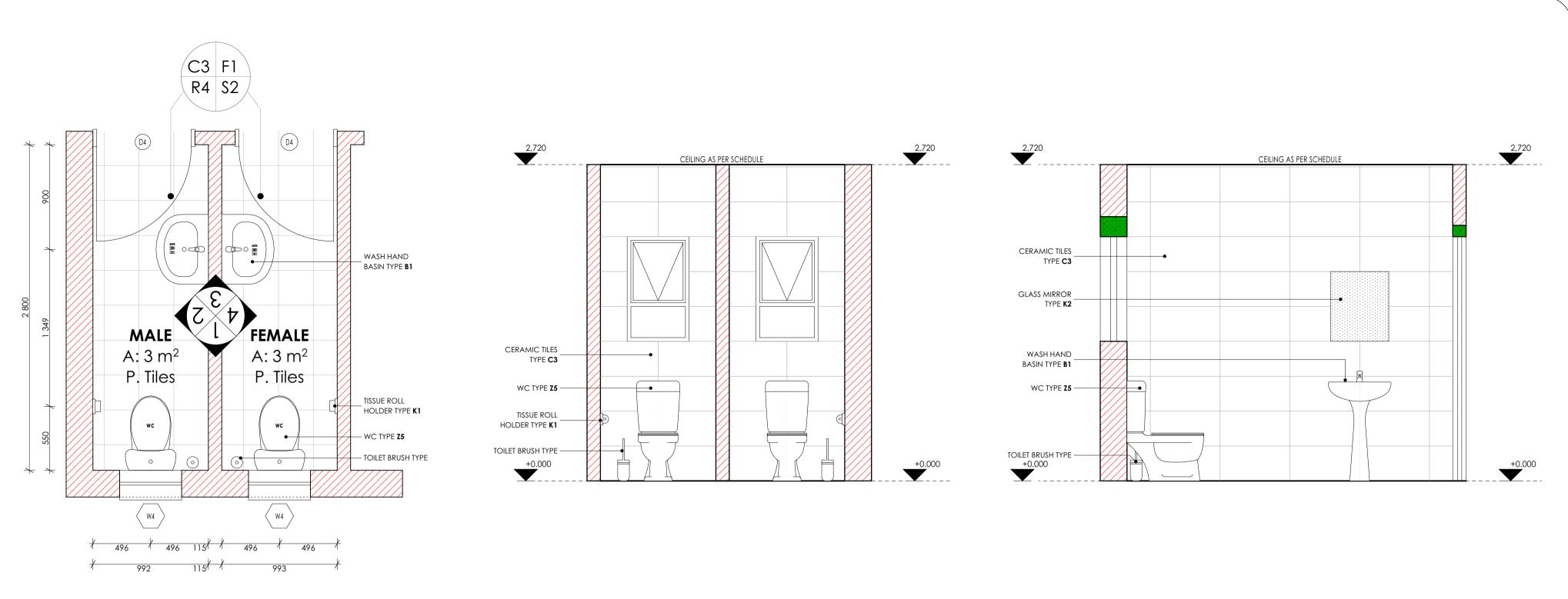
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes. G7: SS FLOOR EXPANSION JOINT COVER

## 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

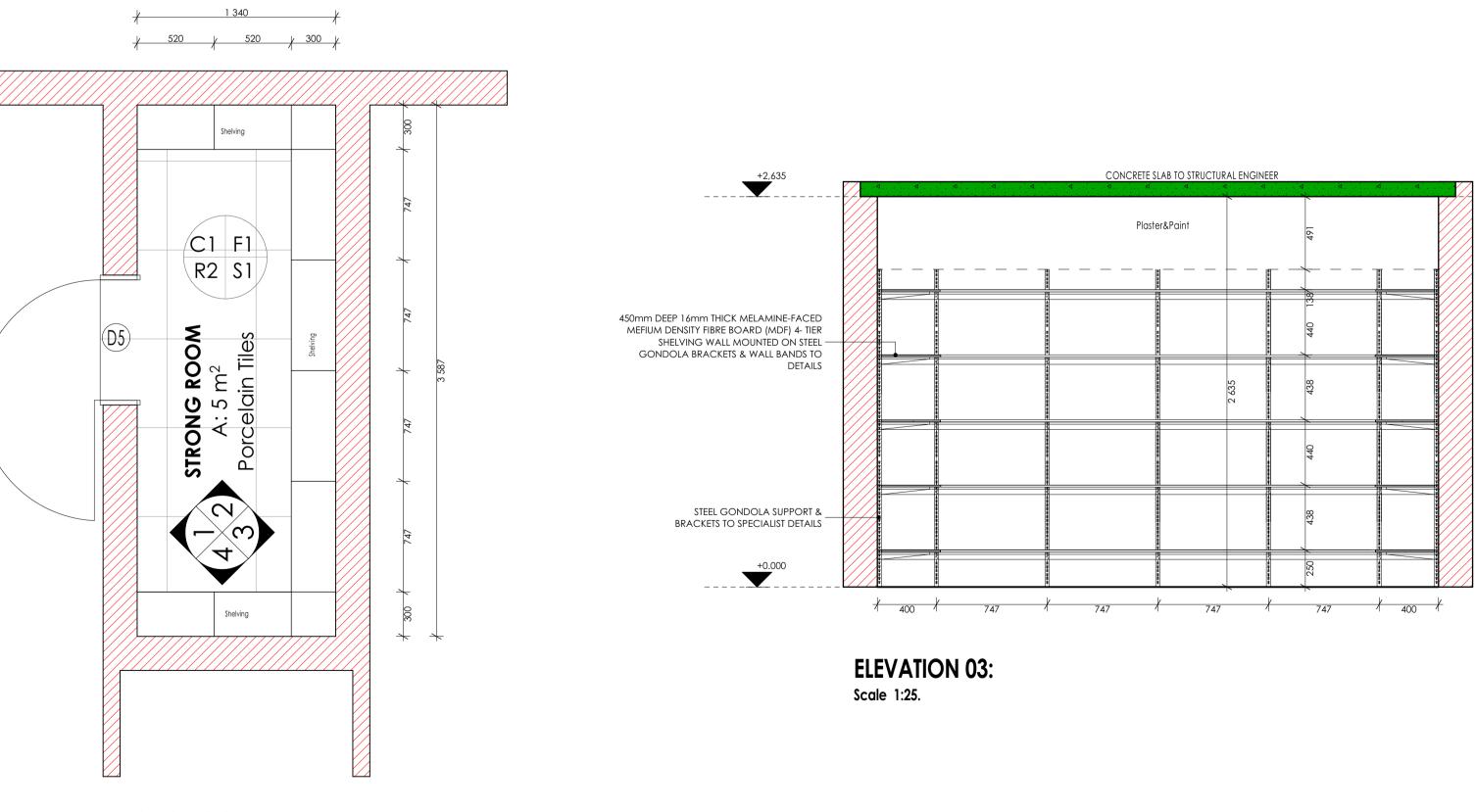
joints, in accordance to the manufacturer's specifications.

## G8: CHALKBOARDS- GREEN SURFACE COLOUR

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with \$AB\$ Standard CK\$ 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 to the manufacturer's instructions.





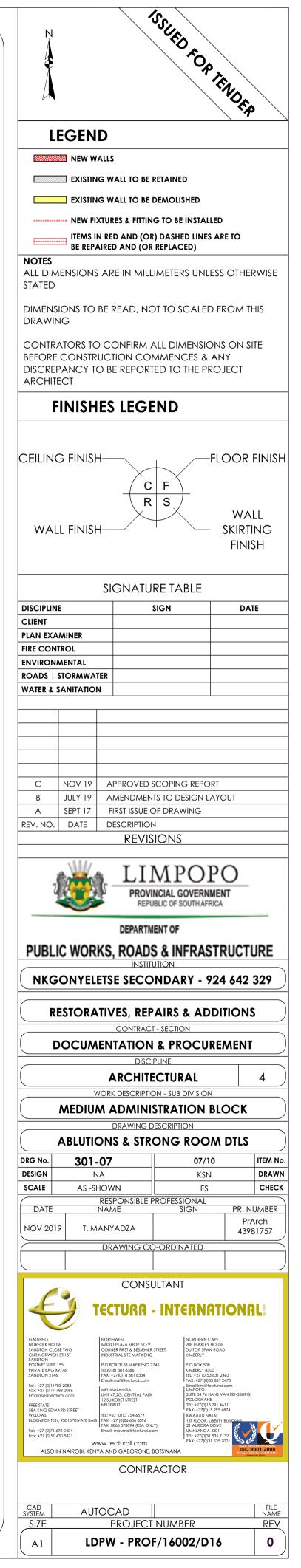


**STRONG ROOM PLAN:** Scale 1:25.



**ELEVATION 02:** Scale 1:25.

+0.000



## 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittinas as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**<u>Z5: CERAMIC STANDARD WC (CC)</u>** 

Vitreous china 90° 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 itreous 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

#### 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 1/2 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 \$AB\$ 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 assessories 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 500mm 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

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 ndard 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 domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, includina Screws, dowels and all necessary accessories in accordance to manufacturer's specifications. K4: SANITARY BIN (PLASTIC)

#### 1 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) 7 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

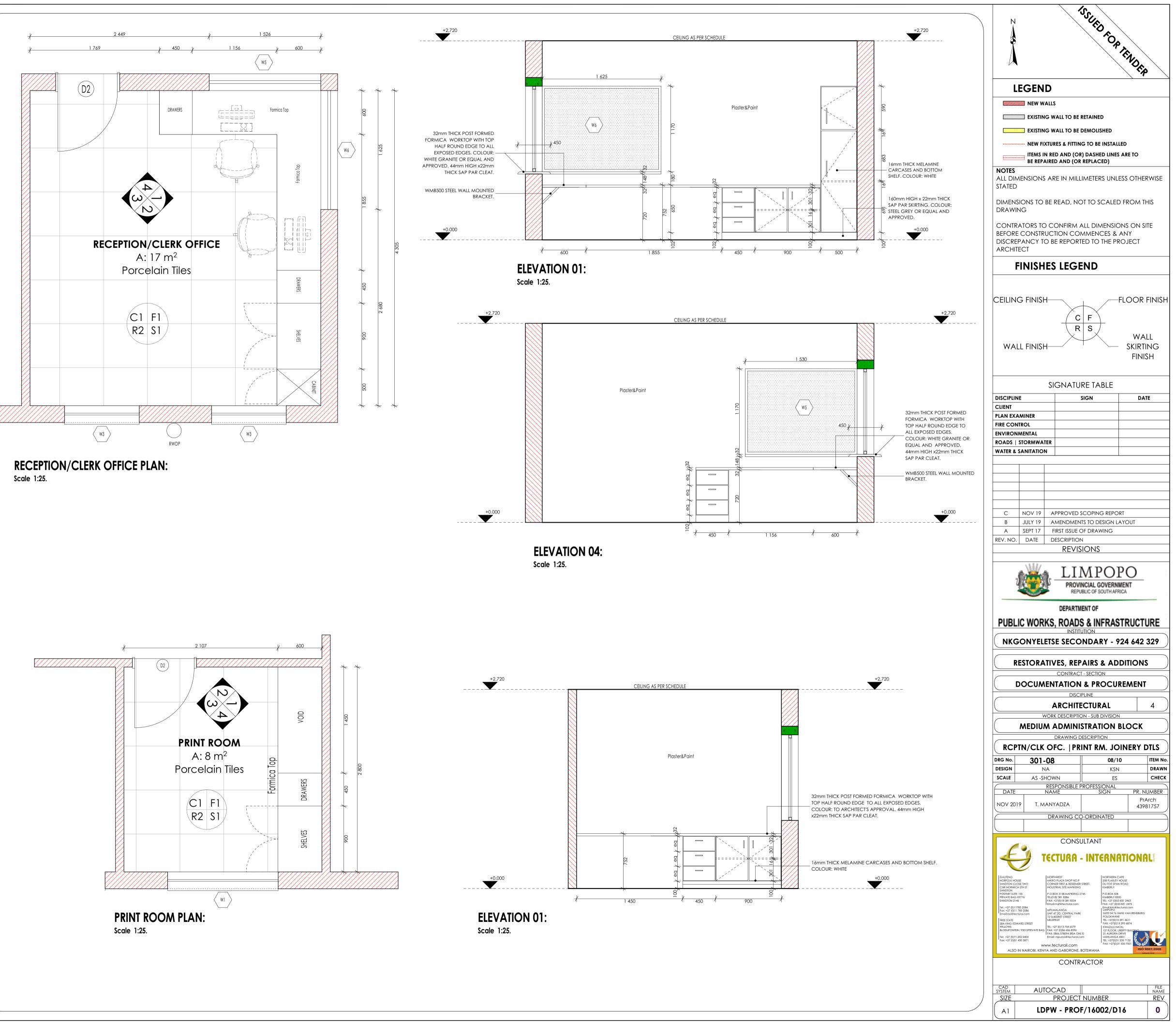
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

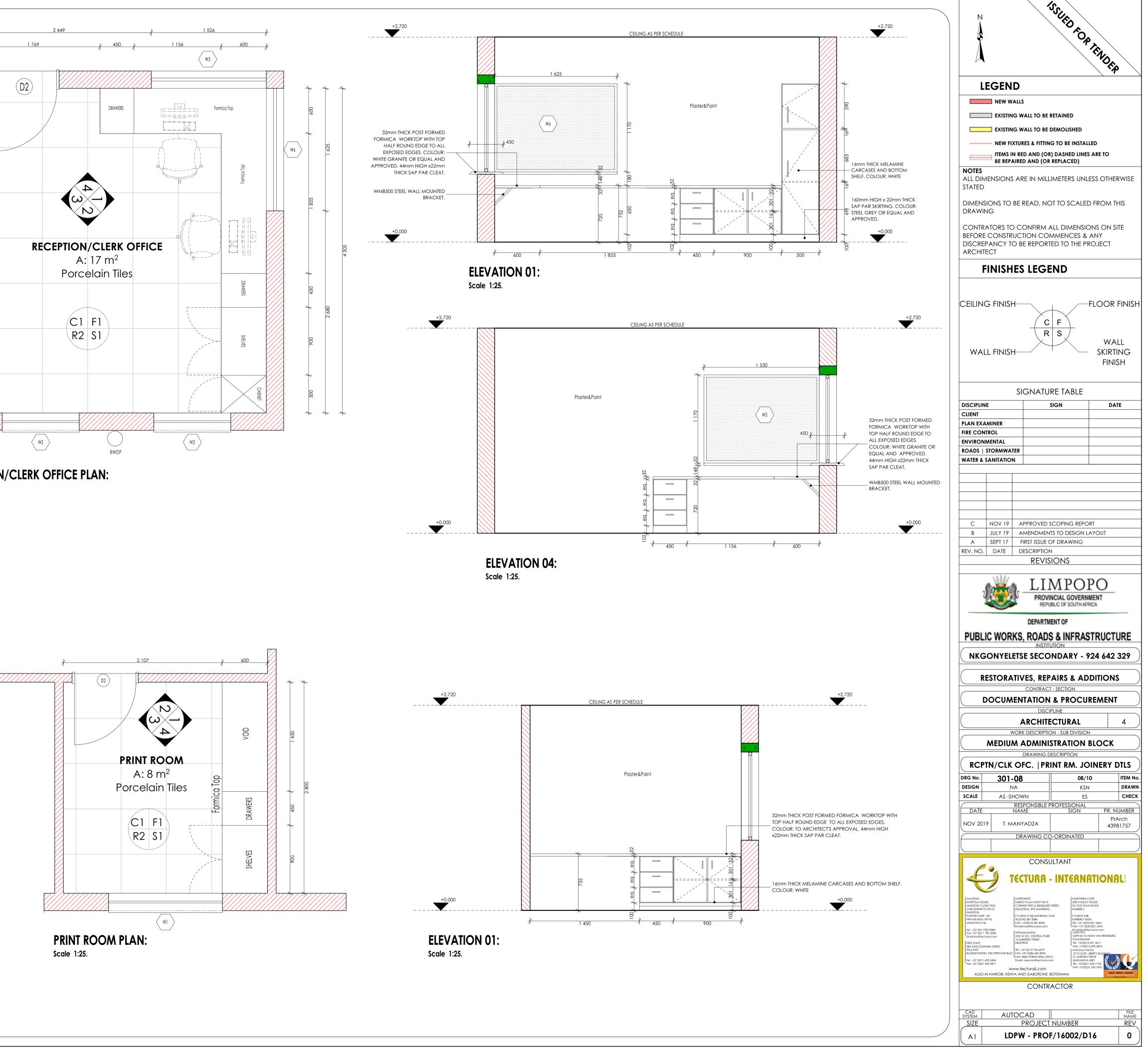
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with \$AB\$ Standard CK\$ 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 to the manufacturer's instructions.







## 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° 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.

### **<u>Z5: CERAMIC STANDARD WC (CC)</u>**

Vitreous china 90° 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 /itreous 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

## 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**

standards

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 1/2 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-imming 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 file 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 assessories 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 0 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

#### SANITARY ACCESSORIES

piece at height of 915mm AFFL.

K1: SS TOILET ROLL HOLDER- 2 ROLL tandard 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 amm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

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) 1 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 drawina.

## 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)

27 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

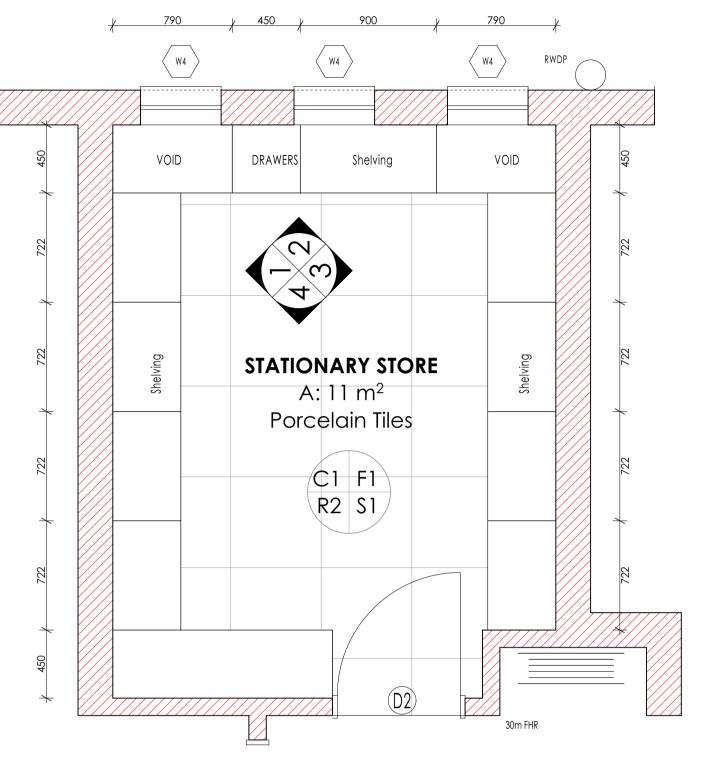
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

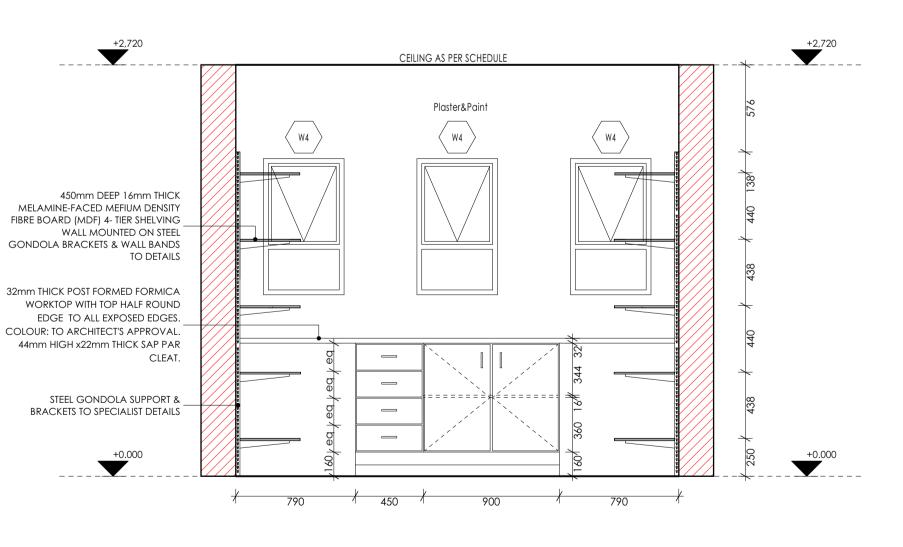
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

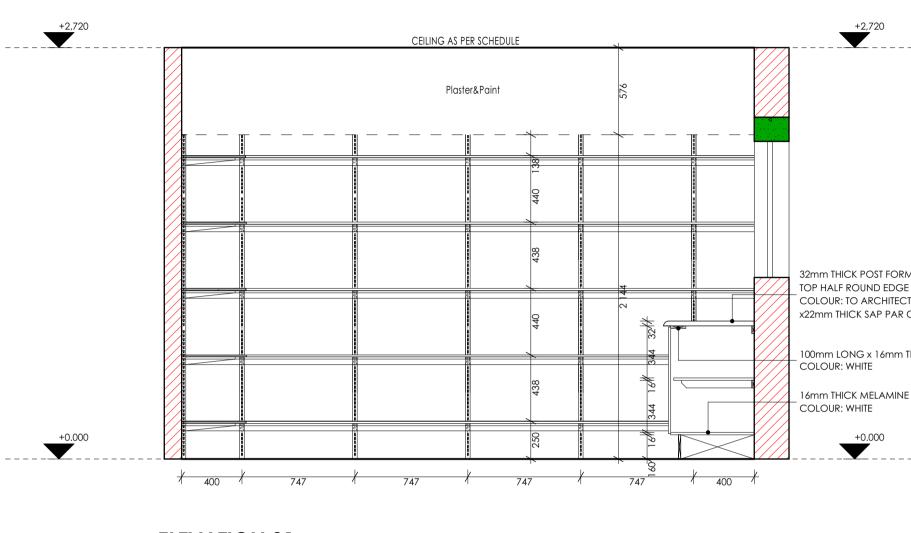
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel 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 to the manufacturer's instructions.







**ELEVATION 02:** Scale 1:25.



**ELEVATION 01:** Scale 1:25.

32mm THICK POST FORMED FORMICA WORKTOP WITH TOP HALF ROUND EDGE TO ALL EXPOSED EDGES. COLOUR: TO ARCHITECT'S APPROVAL. 44mm HIGH x22mm THICK SAP PAR CLEAT.

100mm LONG x 16mm THICK MELAMINE CLEAT.

16mm THICK MELAMINE CARCASES AND BOTTOM SHELF.

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#### 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° 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.

## **<u>Z5: CERAMIC STANDARD WC (CC)</u>**

Vitreous china 90° 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

itreous 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

#### 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 1/2 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 \$AB\$ 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 assessories 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 500mm 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 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 indard 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 domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

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) 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. <u>K5: SOAP HOLDER</u>

## 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 \$\$ 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 <u>G5: WINDOW NORMAL BLINDS(vertical fabric)</u> 7 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

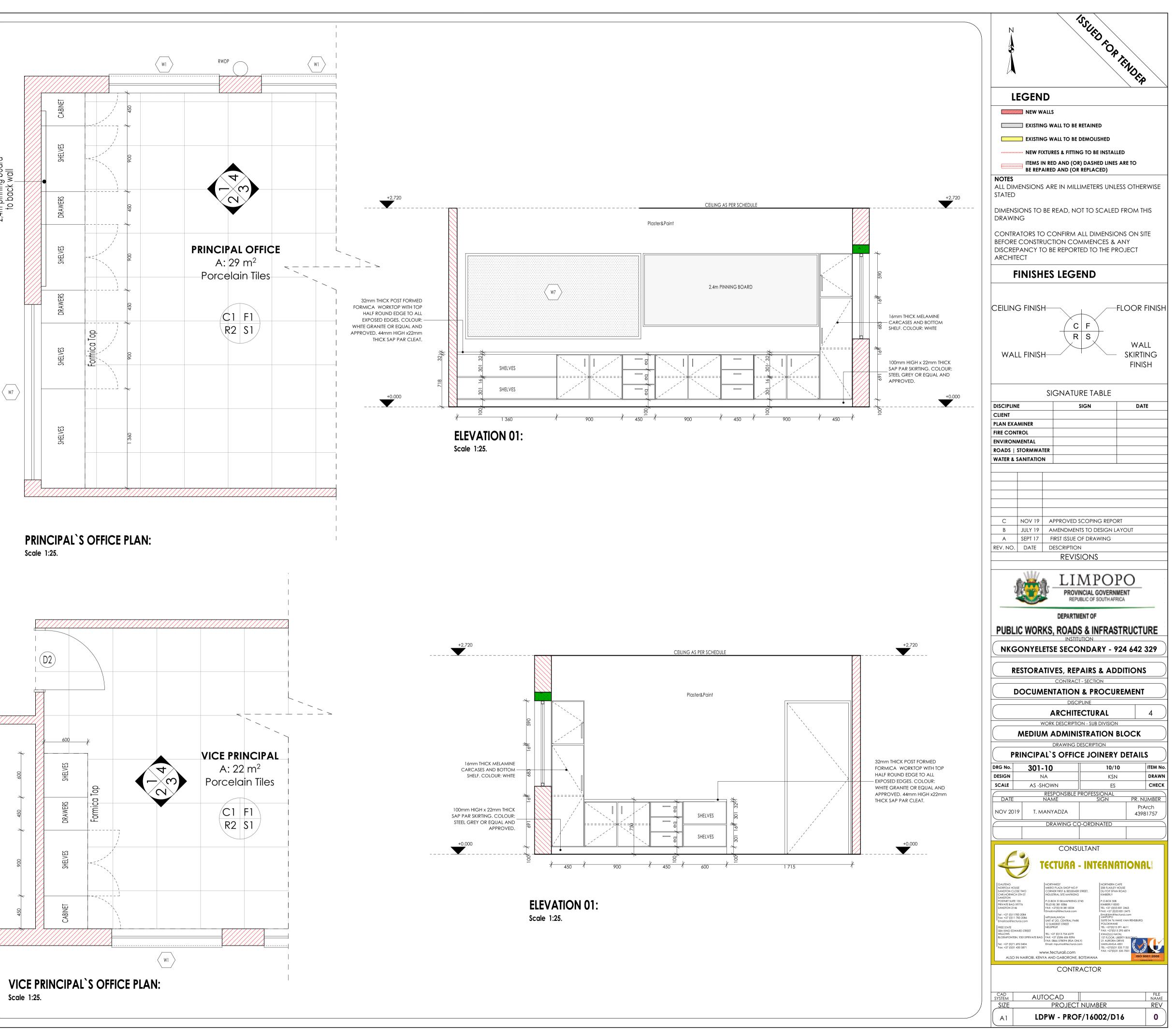
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

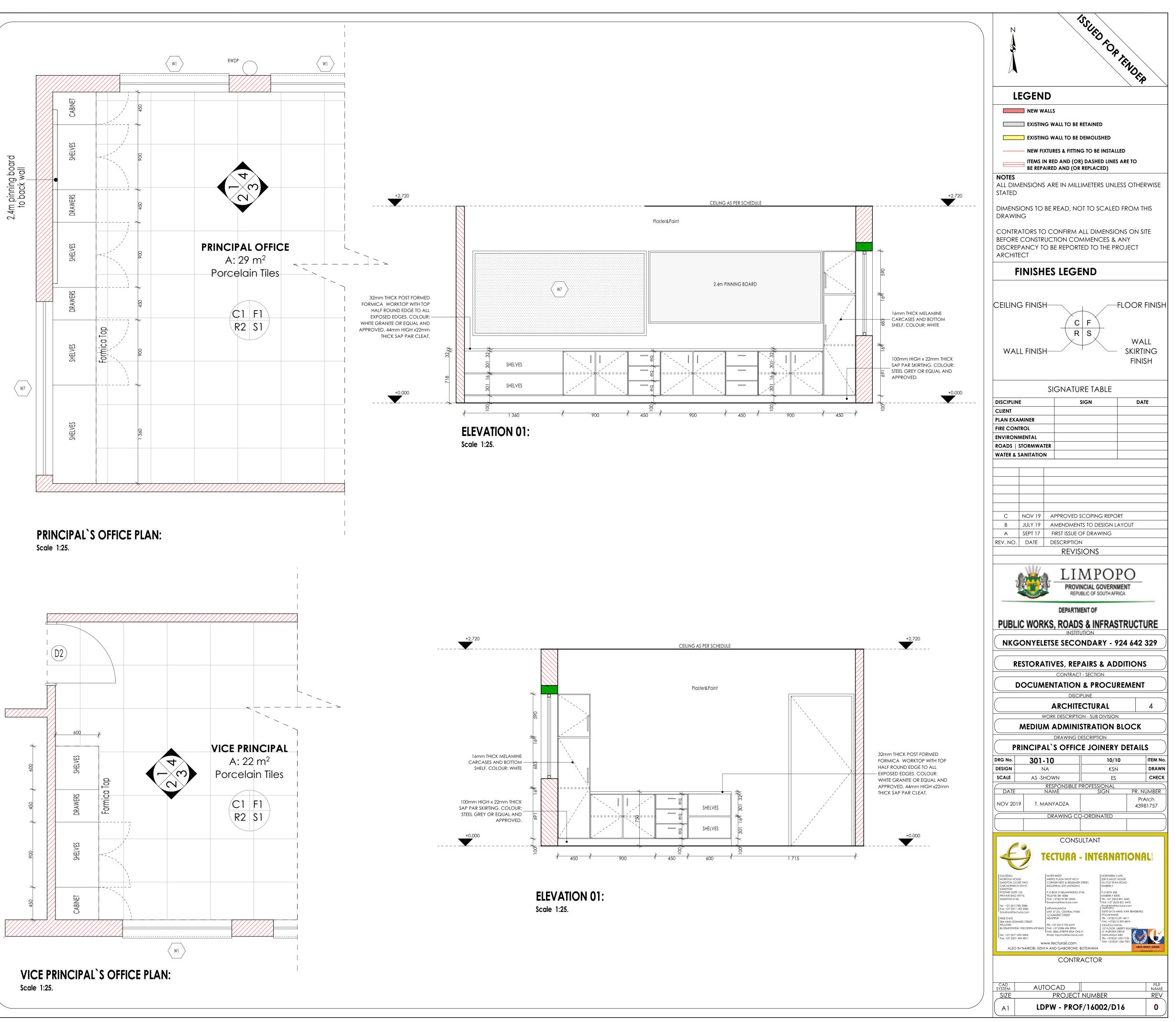
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with \$AB\$ Standard CK\$ 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 to the manufacturer's instructions.







## 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with Back inlet exposed flush-valve complete with all necessary fittinas as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**<u>Z5: CERAMIC STANDARD WC (CC)</u>** 

Vitreous china 90° 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 itreous 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

#### 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 1/2 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 \$AB\$ 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 assessories 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 500mm 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

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 ndard 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 domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, includina Screws, dowels and all necessary accessories in accordance to manufacturer's specifications. K4: SANITARY BIN (PLASTIC)

#### 1 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) 7 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

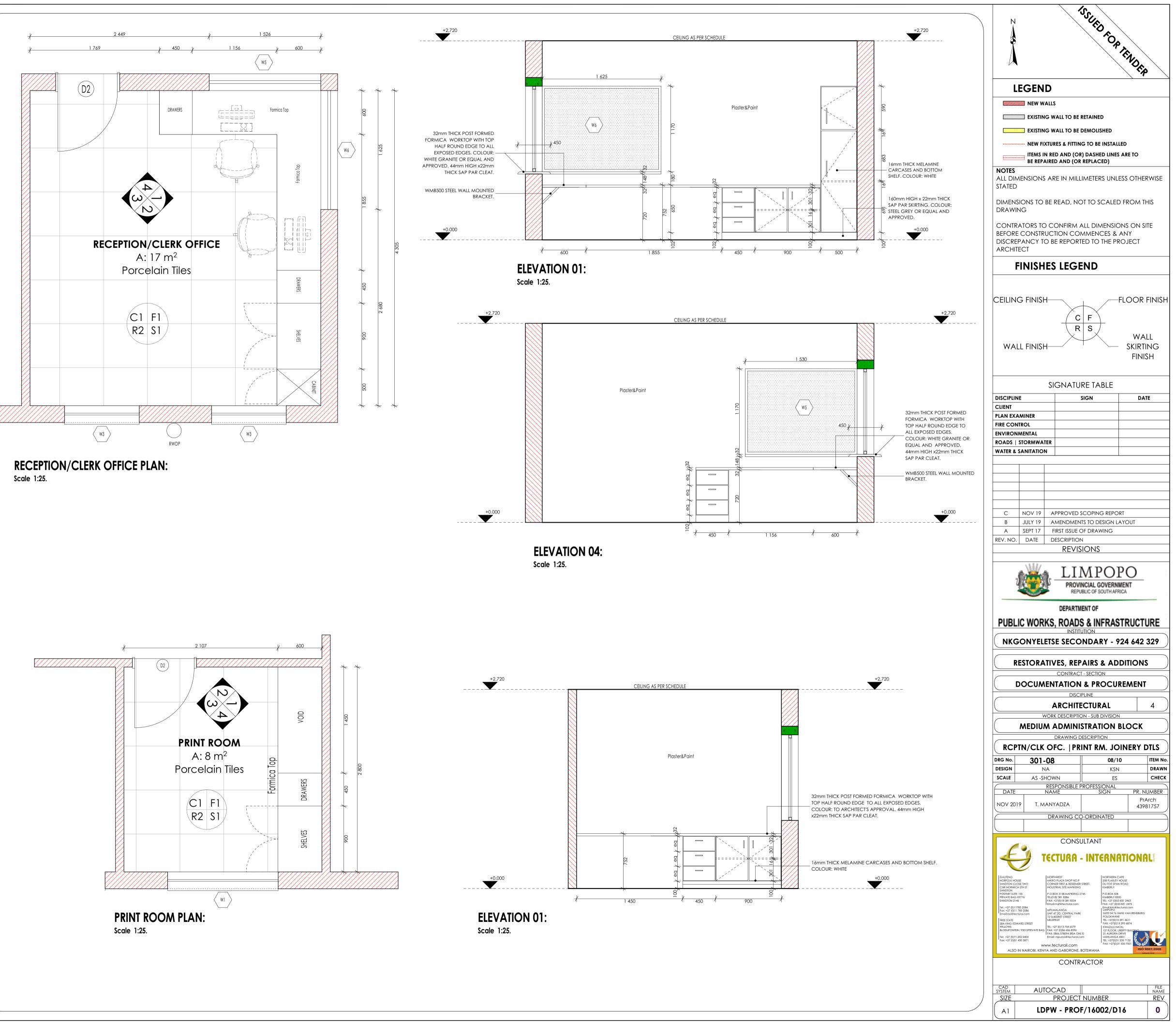
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

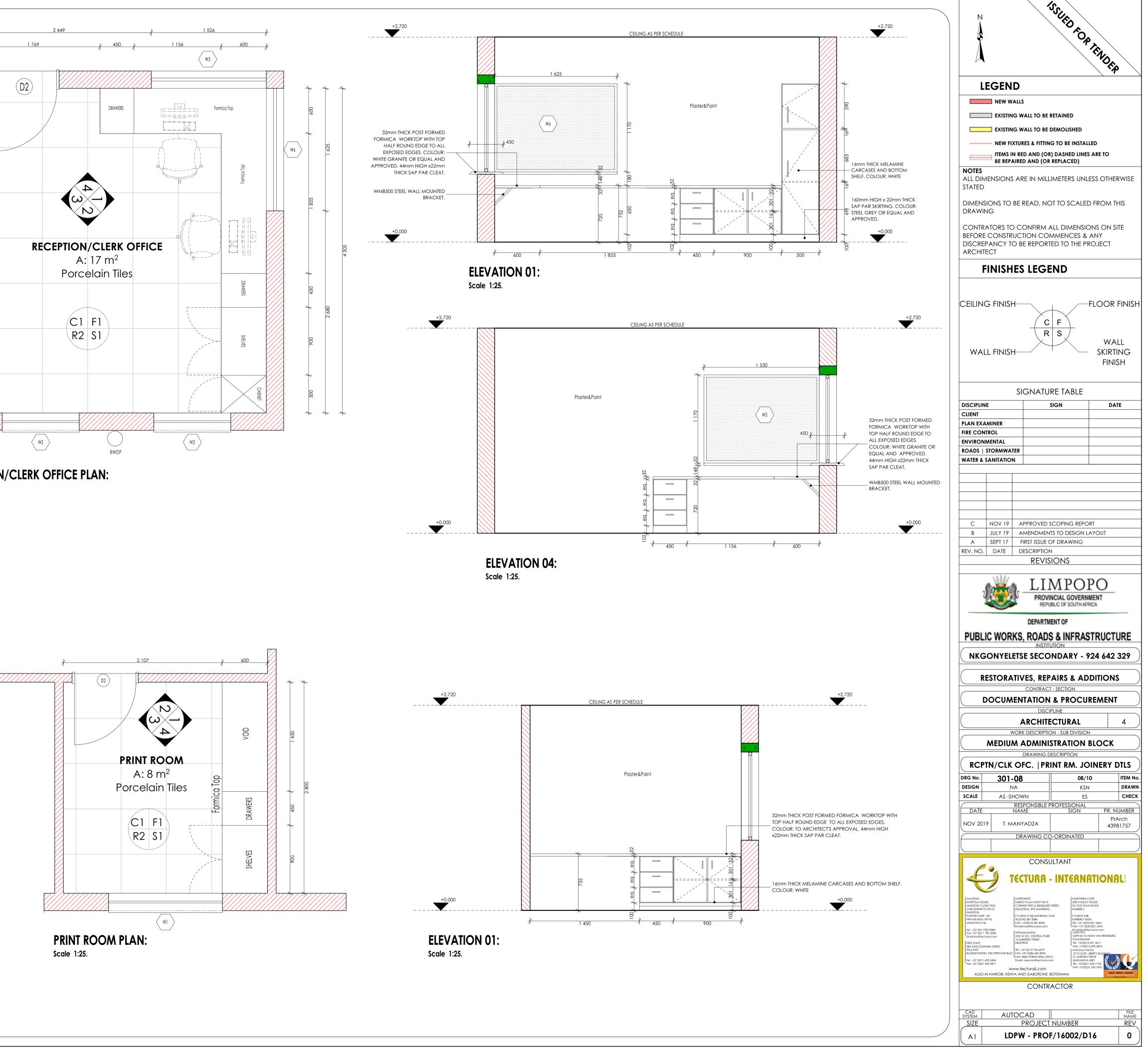
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with \$AB\$ Standard CK\$ 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 to the manufacturer's instructions.







## 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° 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.

### **<u>Z5: CERAMIC STANDARD WC (CC)</u>**

Vitreous china 90° 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 /itreous 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

## 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**

standards

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 1/2 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-imming 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 file 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 assessories 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 0 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

#### SANITARY ACCESSORIES

piece at height of 915mm AFFL.

K1: SS TOILET ROLL HOLDER- 2 ROLL tandard 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 amm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

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) 1 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 drawina.

## 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)

27 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

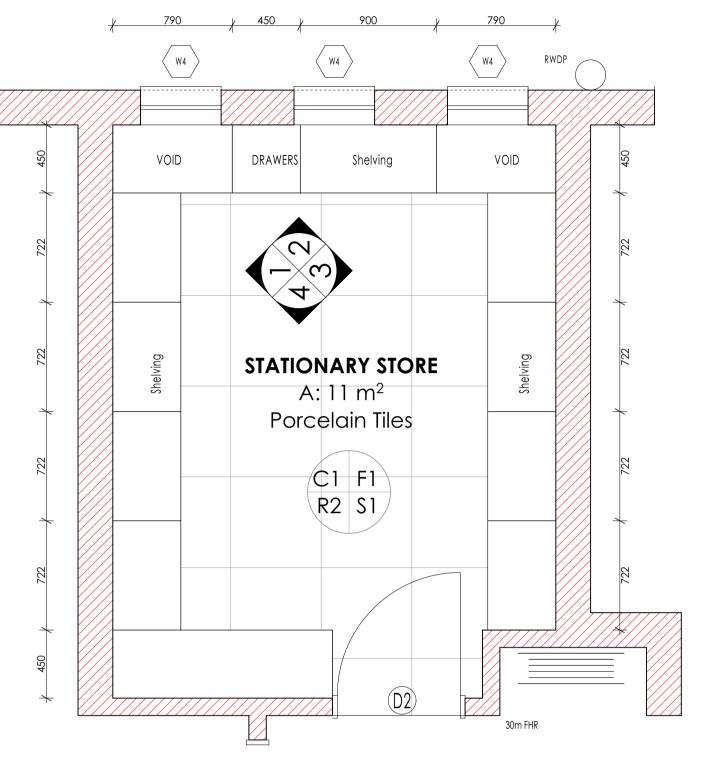
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

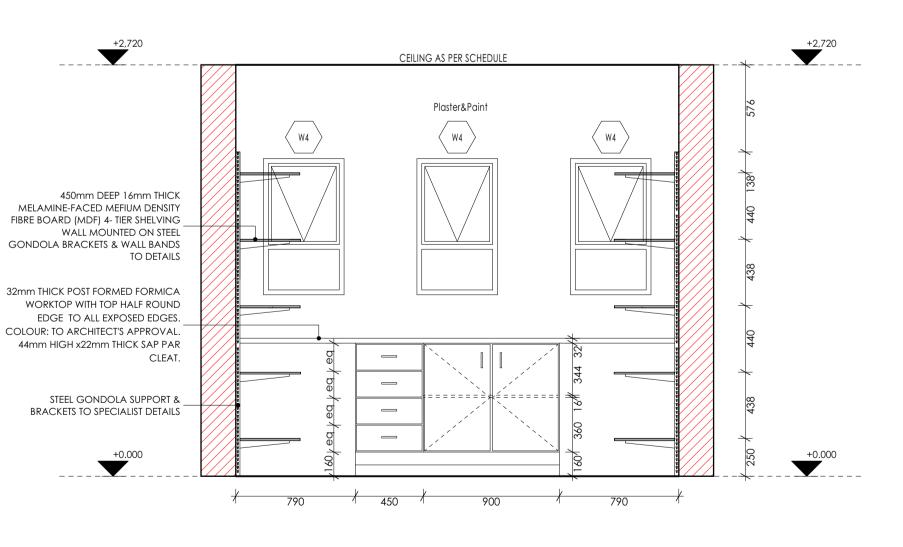
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

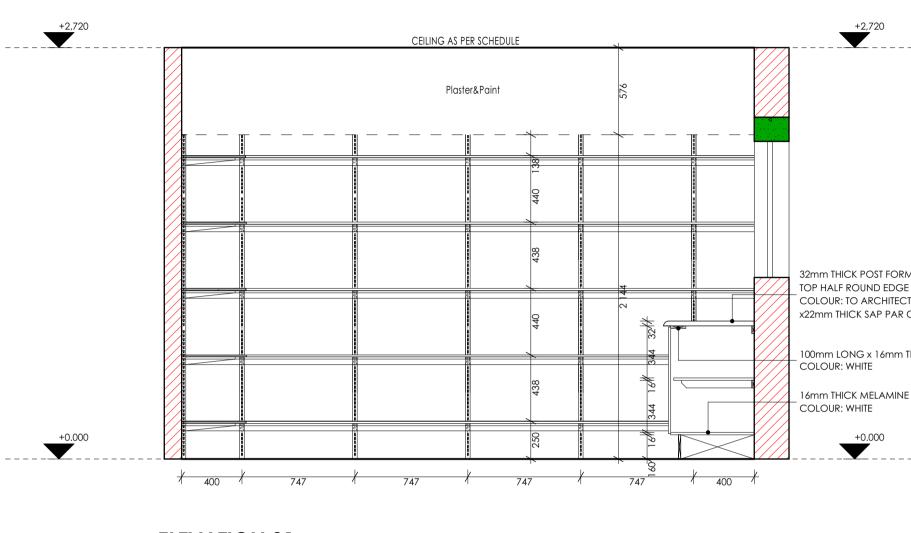
Vitrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with SABS Standard CKS 36/2004 Edition 4 and suitable for Class 1: Heavy Duty applications, as defined therein. Enamel steel 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 to the manufacturer's instructions.







**ELEVATION 02:** Scale 1:25.



**ELEVATION 01:** Scale 1:25.

32mm THICK POST FORMED FORMICA WORKTOP WITH TOP HALF ROUND EDGE TO ALL EXPOSED EDGES. COLOUR: TO ARCHITECT'S APPROVAL. 44mm HIGH x22mm THICK SAP PAR CLEAT.

100mm LONG x 16mm THICK MELAMINE CLEAT.

16mm THICK MELAMINE CARCASES AND BOTTOM SHELF.

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#### 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 90° 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 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

## suitable extension lever, blank flush plate & offset push button for paraplegic access

Z4: CERAMIC STANDARD WC (BACK INLET) Vitreous china 90° 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.

## **<u>Z5: CERAMIC STANDARD WC (CC)</u>**

Vitreous china 90° 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

itreous 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

#### 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 1/2 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 \$AB\$ 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 assessories 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 500mm 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 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 indard 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 domeheaded mirror screws

## <u>K3: SS WASTE BIN</u>

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) 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 \$\$ 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 <u>G5: WINDOW NORMAL BLINDS(vertical fabric)</u> 7 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

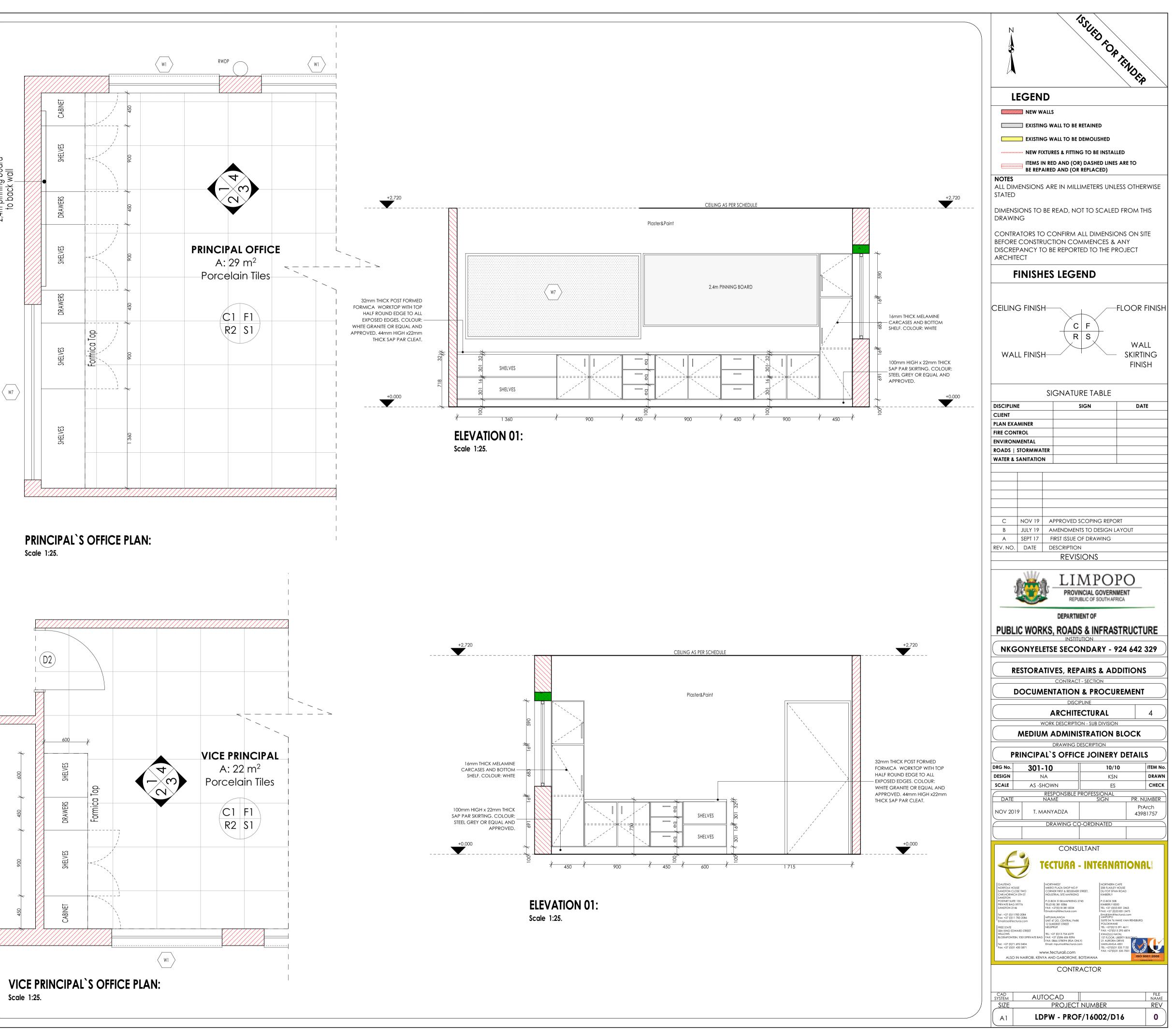
Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

## G7: SS FLOOR EXPANSION JOINT COVER

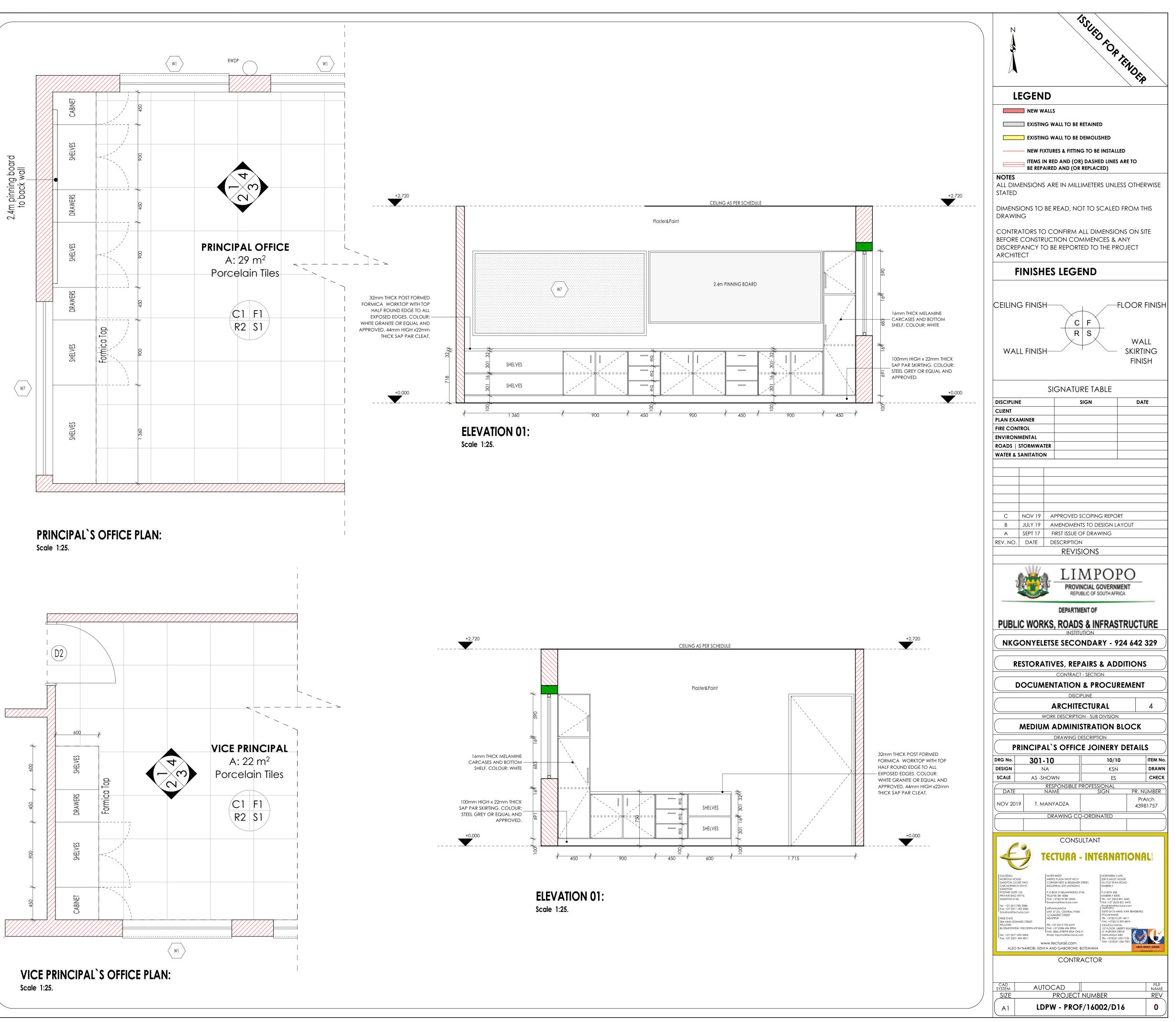
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

### G8: CHALKBOARDS- GREEN SURFACE COLOUR

/itrex system 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm high manufactured in accordance with \$AB\$ Standard CK\$ 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 to the manufacturer's instructions.







## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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.

#### <u>R3:ALKYD (ENAMEL) PAINT</u>

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

200mm 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

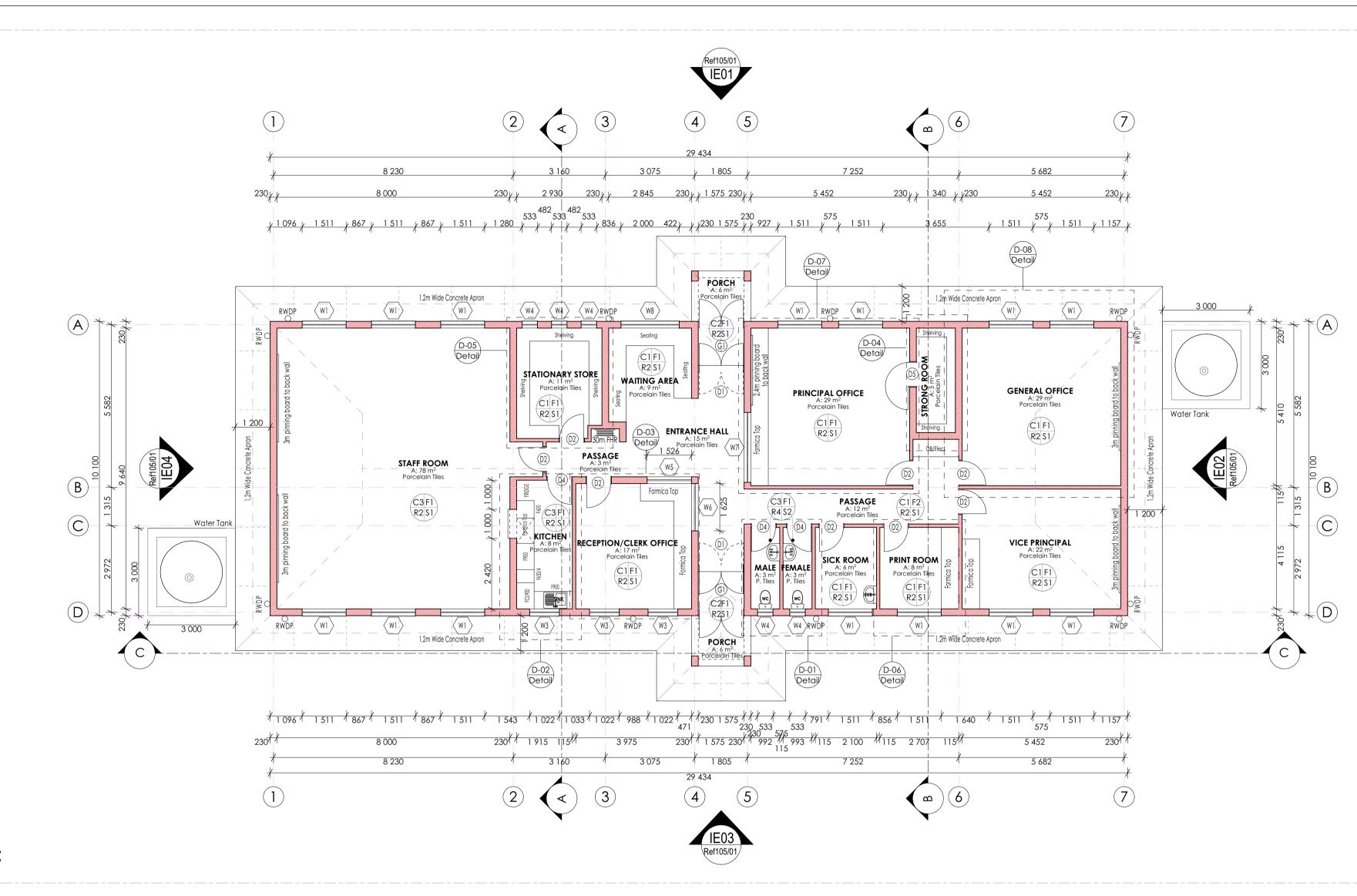
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

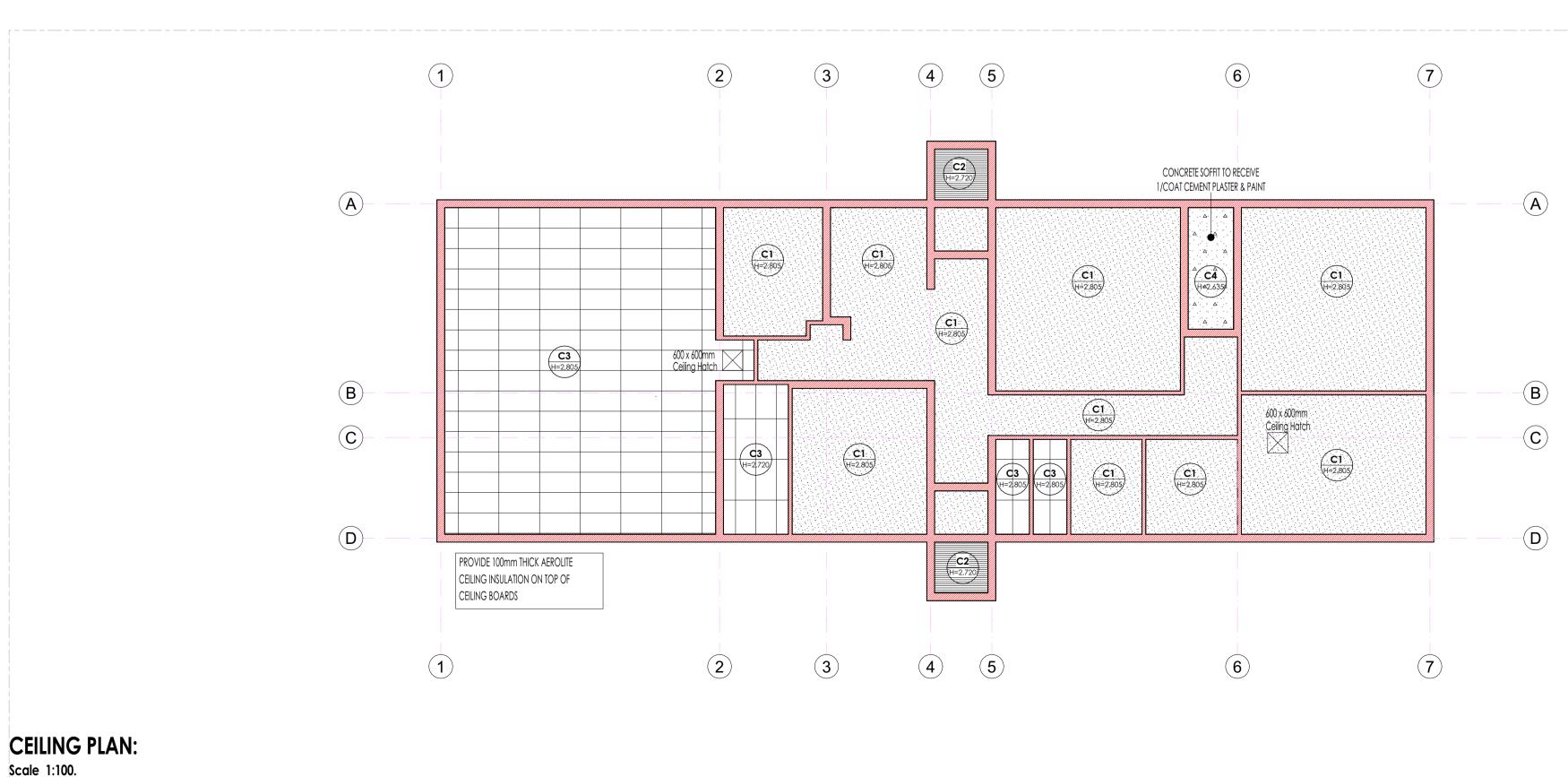
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.



# FLOOR PLAN:





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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

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## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 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

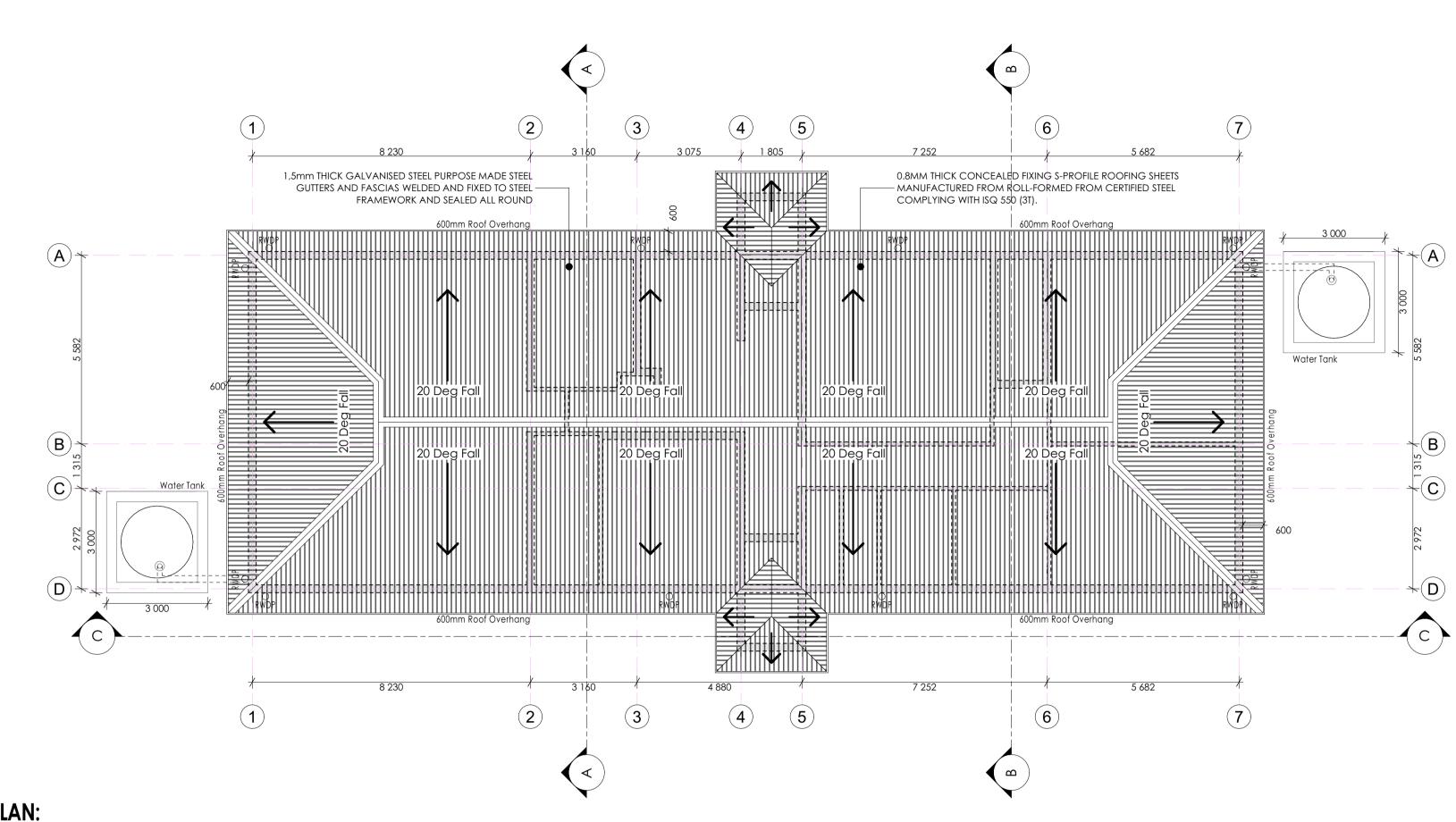
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural 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 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.

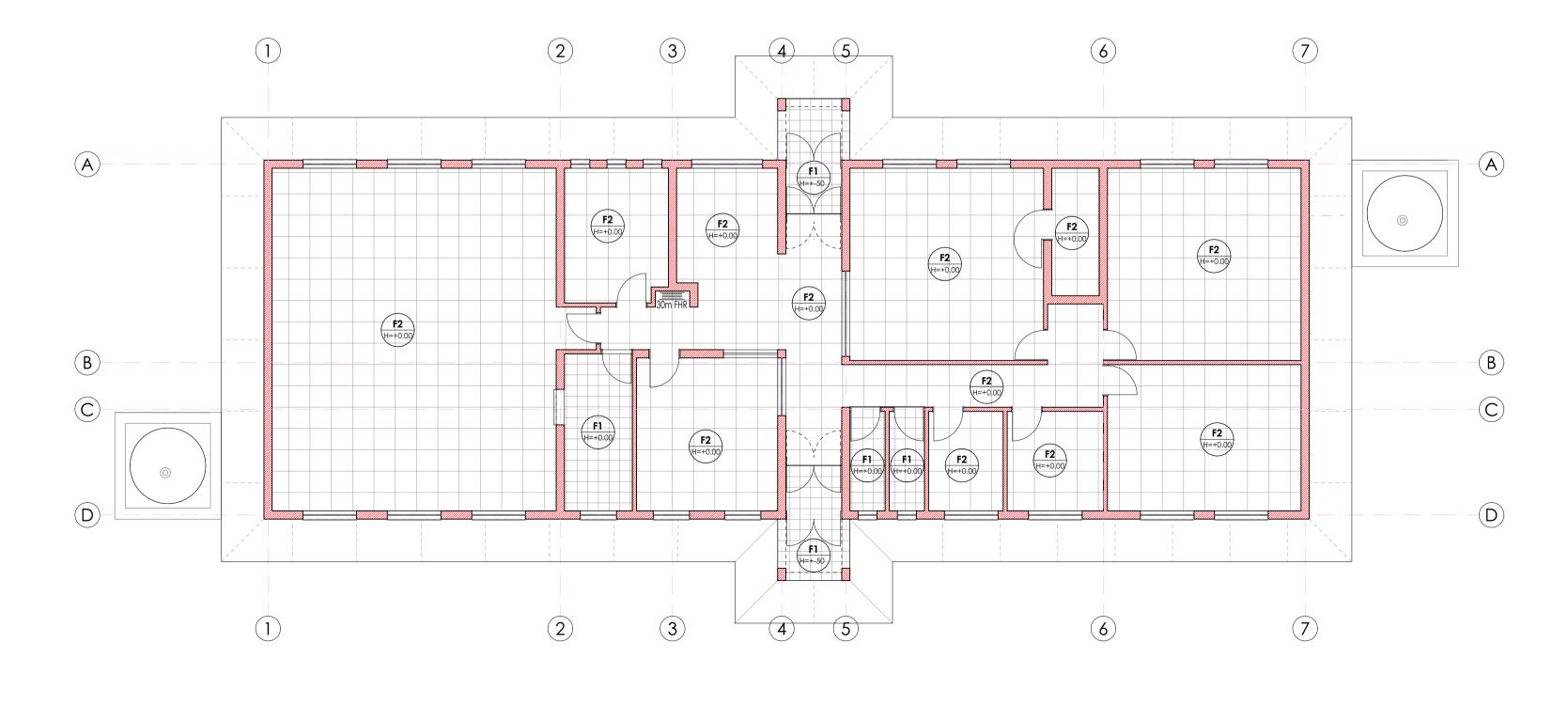
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.



# ROOF PLAN:

Scale 1:100.

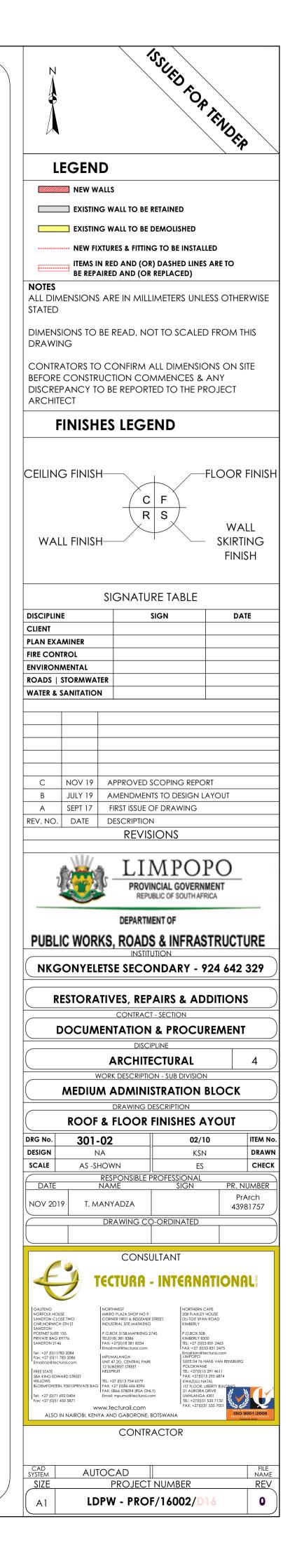


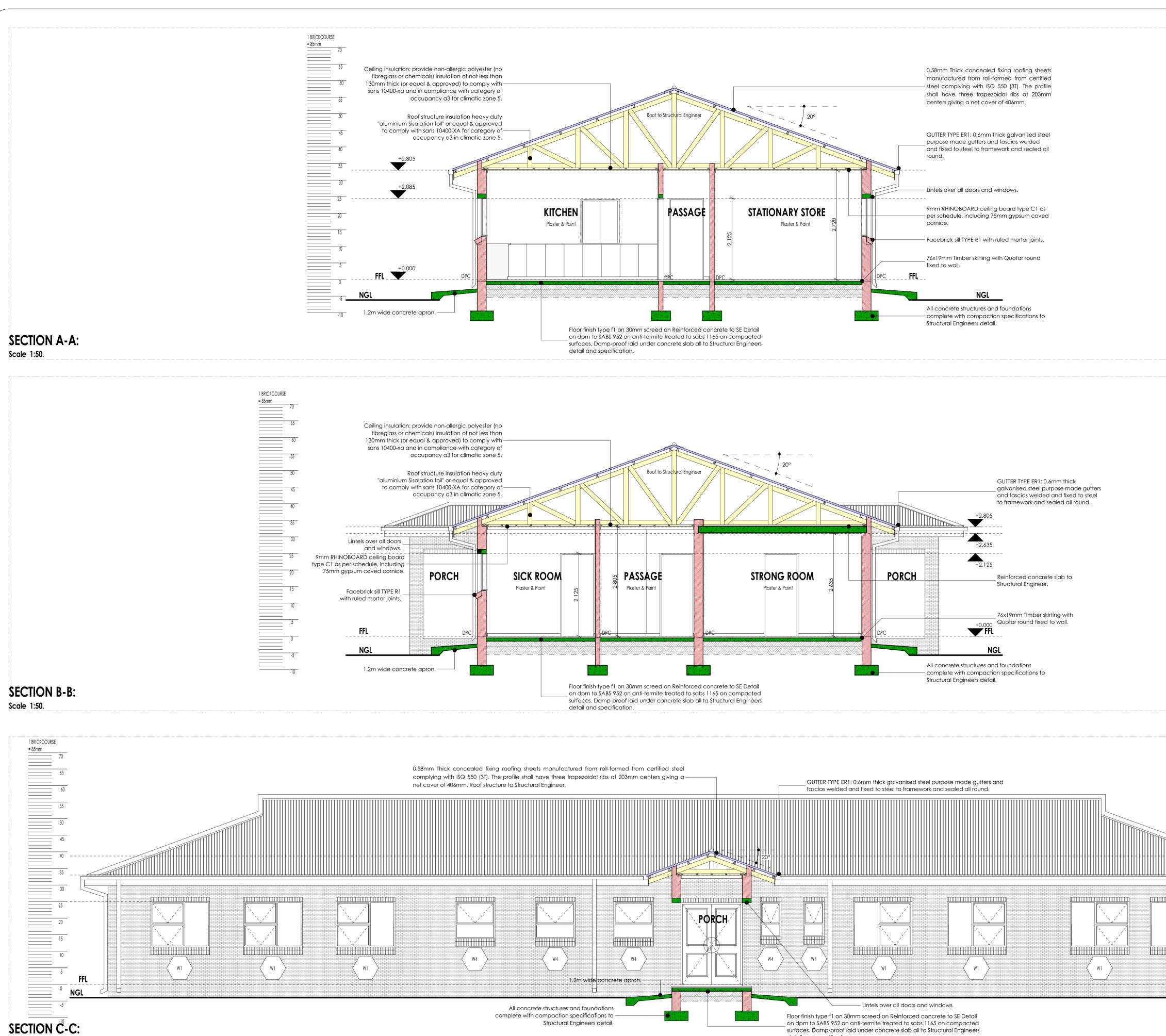
FLOOR FINISHES PLAN: Scale 1:100.

FLOOR FINISHES LEGEND:	



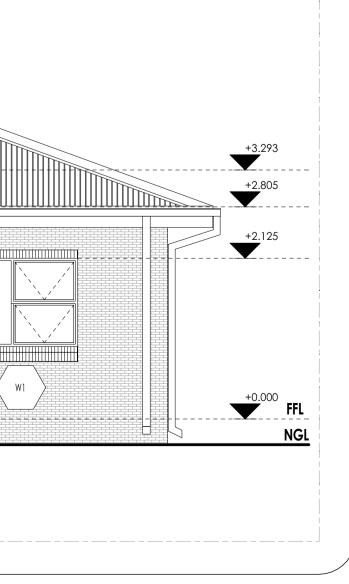
CERAMIC TILES TYPE <b>F1</b> AS PER FINISHES SCHEDULE.
PORCELAIN TILES TYPE <b>F2</b> AS PER FINISHES SCHEDULE.

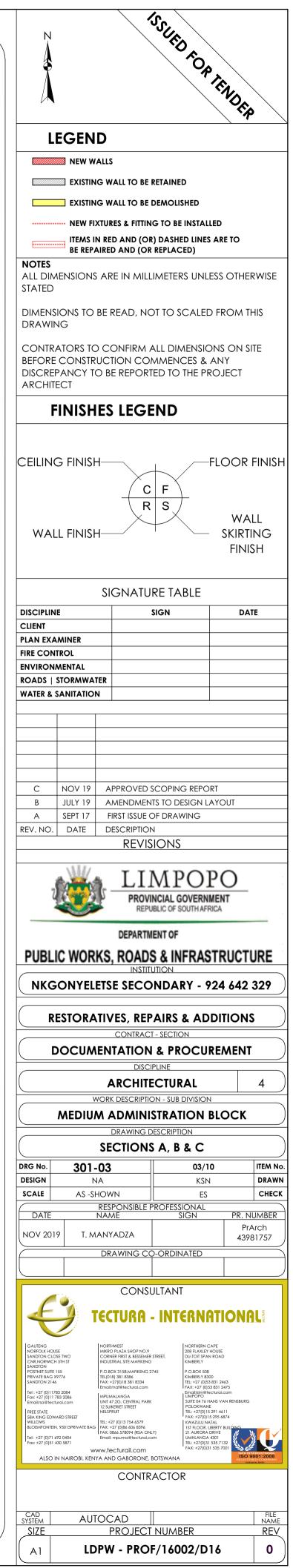




Scale 1:50.

detail and specification.





## FLOORS:

F1: PORCELAIN TILES - MATT (Corrosive Resistant & Anti-Slippery)

420 x420 11.5mm kilimanjaro floor tiles or similar approved by architects, fixed with adhesive, painted with tinted waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.

#### 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 creeds 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.

#### <u>R2: EMULSION (PVA) PAINT – FULL HEIGHT</u>

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

ombination of; 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared 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 he 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

200mm 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

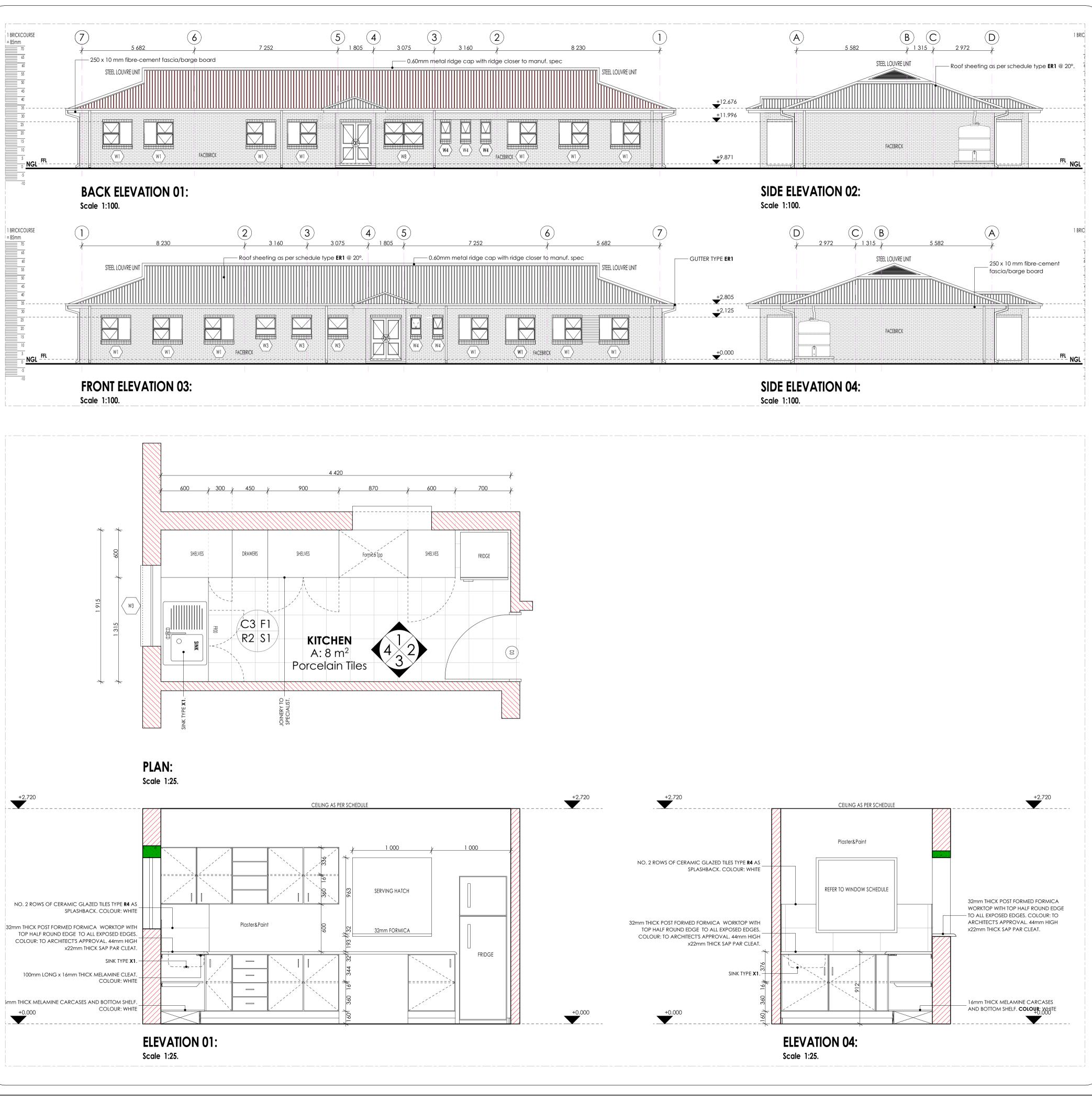
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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.

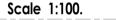
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil.

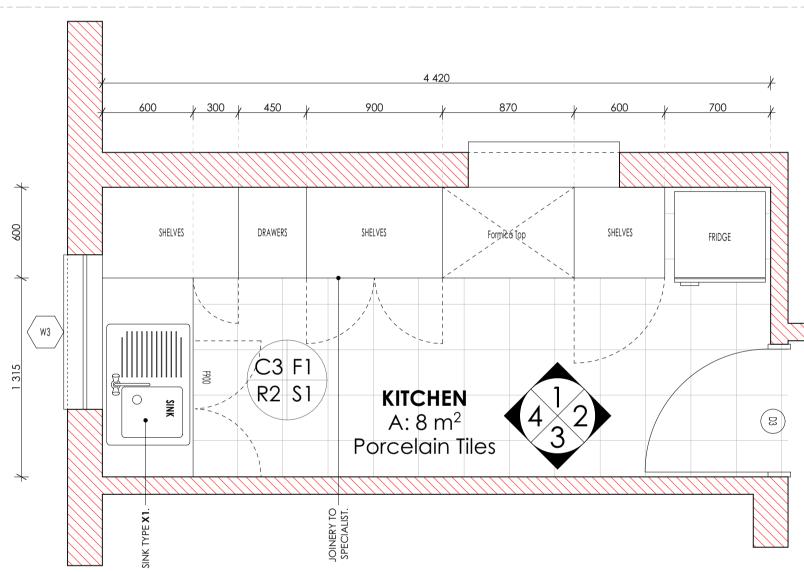
Galvanised Steel (GL) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.

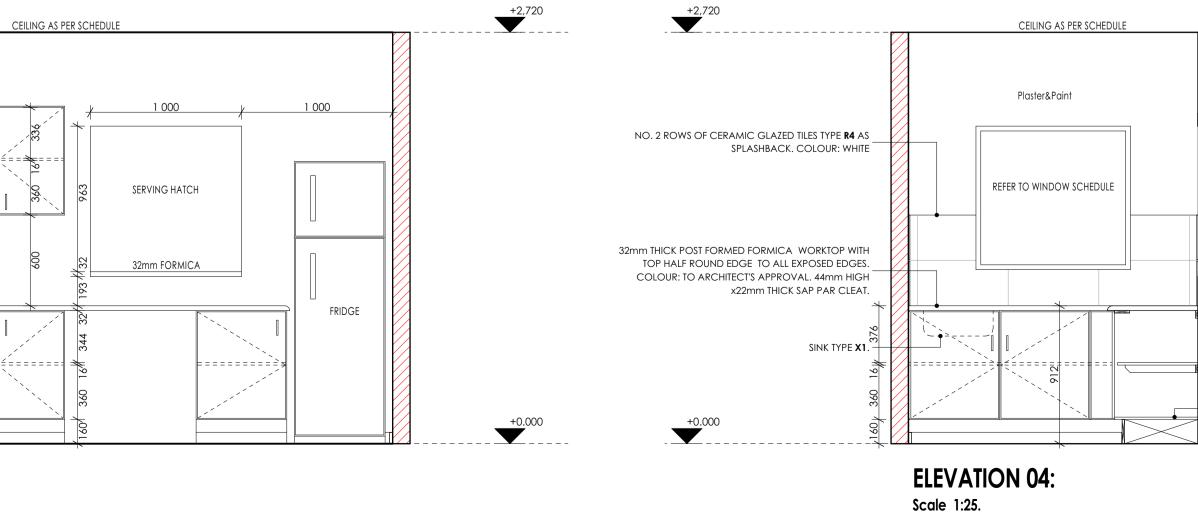












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Foc: +27 (0)11 783 2086       Emailizaditecturai.com       IFREE STATE       SAA KING EDWARD STREET       WILLOWS       BLOEMFONTEIN, 930 ISPRIVATE BAG       FAX: +27 (0)51 430 5871       WWW.tecturail.com       ALSO IN NAIROBI, KENYA AND GABORONE       CAD       SYSTEM       AUTOCAD       SIZE       PROJECT	POLOKWANE TE:-27(0)15 295 6474 Kw32UU NATAI 13T FLOOR, UBERTY BUILDING 21 AUROR ADRIVE UMHLANGA 4301 TE:-27(0)31 535 7132 FAX:+27(0)31 535 7001 TE:-27(0)31 535 7001 TE

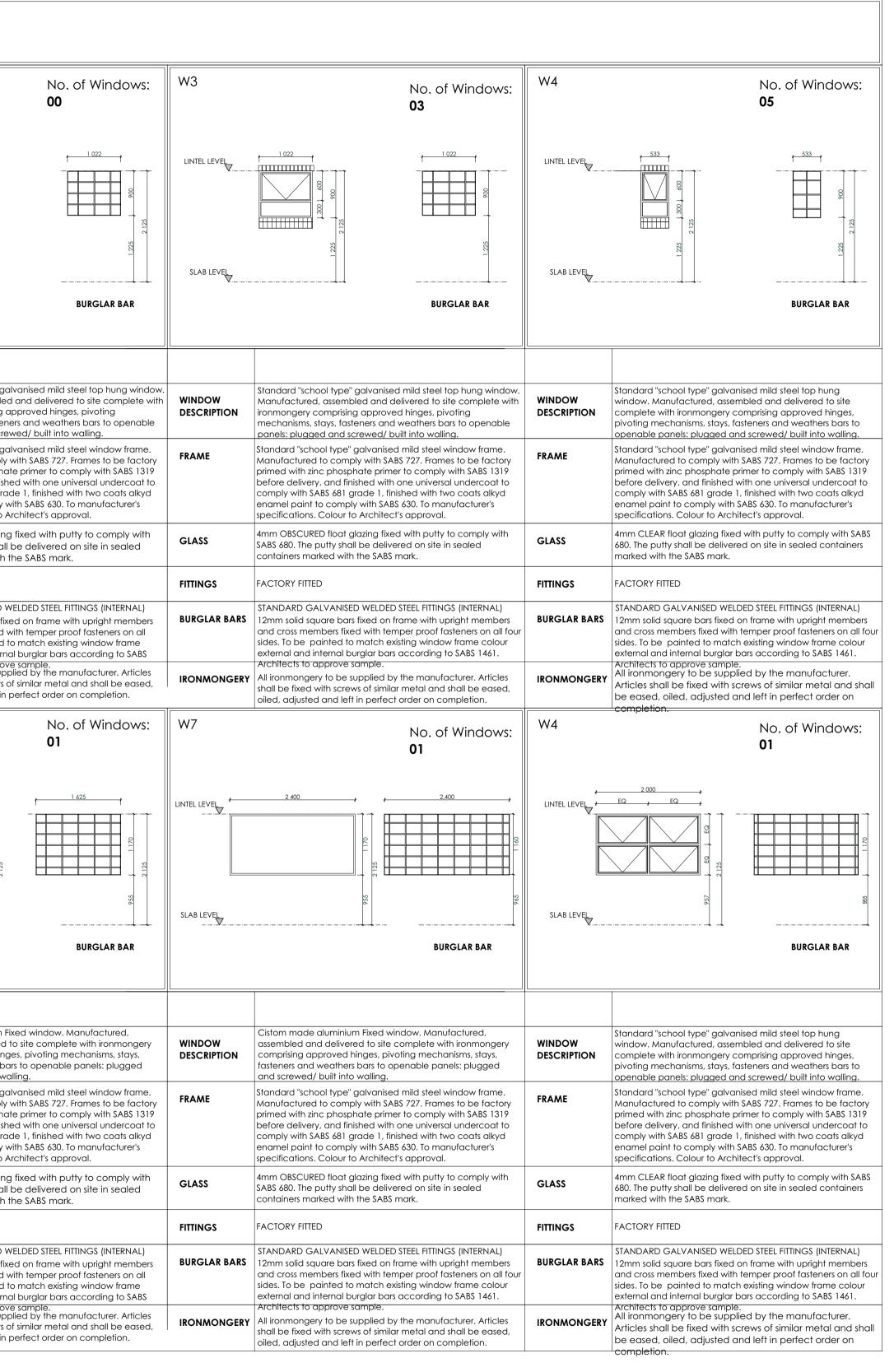
## **DOOR SCHEDULE:** TYPE D1 1,613 +2 125 mm AEFL\_\_\_\_\_\_ )// **F**-------TYPICAL <u>FF</u> EXTERIOR DOOR 1511mm x 2032mm x 44mm thick heavy duty exterior quality DOOR horizontally statted double sided stable saligna door fitted to DESCRIPTION: comply with SABS 545 exterior grade. Standard 1.2mm in galvanised mild steel door frame with FRAME: profile matching wall, to comply with SABS 1129, complete with lugs and fixtures, to accommodate 1613 x 2032 door leaf. Washable enamel paint finish complying with SABS 723 for prime FRAME FINISH: SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval Apply three clear eggshell varnish for interior wood to comply DOOR FINISH : 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. Approved Lockset as per supplier IRONMONGERY: Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate room 6 no. stainless steel medium duty butt hinges. HINGES: TYPE D3 No. of Doors: + 813 + +2 125 mm \_\_\_\_ $\mathbf{v}$ AFFL INTERIOR DOOR 813mm x 2032mm x 44mm thick interior grade flush hollow core DOOR single timber door with 3mm thick ply on both sides with 2 DESCRIPTION: consolidated edges fitted to comply with SABS 545 in pressed st frame. All painted in accordance with Architect's colour schedu Standard 1.6mm galvanised mild steel double rebate pressed r FRAME: frame with Fanlight complying to SABS 1129 complete with lugs fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm per floor plans. Provide 4mm clear glass at the Fanlight. Washable enamel paint finish complying with SABS 723 for prime FRAME FINISH: SABS681 for undercoat and SABS 630 type 2 for finish coat. Colour to architect's approval Prime with wood primer to comply with SABS, type 2. Paint one ( **DOOR FINISH :** Universal under coat to comply with SABS 681, grade 1, and finis with two (2) coats alkyde egg-shell paint to comply with SABS 63 type 1. Colour to architect's approval Approved Lockset as per supplier IRONMONGERY: Approved Lockson as pointed brass floor mounted. Approved Aluminium engraving sign plate for appropriate room 3 no. stainless steel medium duty butt hinges.

HINGES:

		No. of Doors: <b>01</b>	TYPE D2	No. of Doors: <b>08</b>
				+2 125 mm AFEL TYPICAL FFL
		BURGLAR DOOR (DOUBLE)		INTERIOR DOOR
	DOOR DESCRIPTION:	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.	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.
h	FRAME:	50x50mm galvanised mild steel square tube welded to form frame.	FRAME:	Standard 1.6mm galvanised mild steel double rebate pressed meto frame complying to SABS 1129 complete with lugs and fixtures. Frame profiles to suit wall thickness (115mm, 230mm and 345mm) a per floor plans
ner,	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)	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	DOOR FINISH :	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	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
ms	IRONMONGERY:	Approved Lockset as per supplier	IRONMONGERY:	Approved Lockset as per supplier Door stop - polished brass floor mounted. Approved Aluminium engraving sign plate for appropriate rooms
	HINGES:	6 no. stainless steel heavy duty butt hinges.	HINGES:	3 no. stainless steel medium duty butt hinges.
: 00	TYPE D4	No. of Doors: <b>03</b>	TYPE D5	No. of Doors: 01
		AFEL TYPICAL FFL		AFEL
		ABLUTIONS DOOR		STRONG ROOM DOOR
teel Iule.	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.	DOOR DESCRIPTION:	SABS Category 3 vault door with 4 wheel combination lock and 2 x 8 lever key lock and 3 wheel combination. Overall size 900mm 1865mm high finished in rust proof under coat for final painting.
metal s and m) as	FRAME:	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	FRAME:	50 X 50mm galvanised mild steel square tube welded to form frame.
er,	FRAME FINISH:	per floor plans 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	FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coats gloss enamel (exterior quality)
(1) ish 30,	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	DOOR FINISH :	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
ms	IRONMONGERY:	Approved Lockset as per supplier	IRONMONGERY:	Approved Lockset as per supplier

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WINI	DOW SCHEDULE	•	
W1	No. of Windows: <b>14</b>	W2	
	1511 1511	LINTEL LEVEL	
WINDOW DESCRIPTION FRAME	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. 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	WINDOW DESCRIPTION FRAME	Standard "school type" go Manufactured, assembled ironmongery comprising o mechanisms, stays, fasten panels: plugged and scre Standard "school type" go Manufactured to comply primed with zinc phospha before delivery, and finish
GLASS	<ul> <li>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.</li> <li>4mm CLEAR float glazing fixed with putty to comply with SABS 680. The putty shall be delivered on site in sealed containers</li> </ul>	GLASS	comply with SABS 681 gra enamel paint to comply v specifications. Colour to A 4mm CLEAR float glazing SABS 680. The putty shall
FITTINGS	marked with the SABS mark. FACTORY FITTED	FITTINGS	containers marked with 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. Architects to approve sample.	BURGLAR BARS	STANDARD GALVANISED V 12mm solid square bars fix and cross members fixed v four sides. To be painted t colour external and intern 1461. Architects to approv
IRONMONGERY	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	IRONMONGERY	All ironmongery to be support shall be fixed with screws of oiled, adjusted and left in
LINTEL LEVEL	No. of Windows: 01	SLAB LEVEL	
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 F assembled and delivered comprising approved hing fasteners and weathers bo and screwed/ built into wo
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" go Manufactured to comply primed with zinc phospha before delivery, and finish comply with SABS 681 gra enamel paint to comply v specifications. Colour to A
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 SABS 680. The putty shall containers marked with
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. Architects to approve sample.	BURGLAR BARS	STANDARD GALVANISED V 12mm solid square bars fix and cross members fixed v four sides. To be painted t colour external and interna 1461. Architects to approv
IRONMONGERY	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	All ironmongery to be supp shall be fixed with screws of oiled, adjusted and left in



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LEGEND         Image: New Walls         Image: Existing wall to be retained         Image: Existing wall to be demolished	
LEGEND         Image: Second Strain	
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LEGEND         Image: New Walls         Image: Existing Wall to be Retained         Image: Existing Wall to be demolished	
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