

**BID NUMBER: LDPWRI-B/20304** 

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT

for

### LIMPOPO DEPARTMENT OF EDUCATIONECON (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

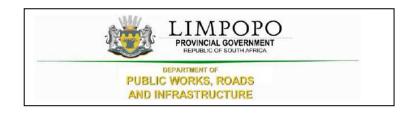
Contact Person: General Queries
Name : Mr NJ Motsopye,
Tel No. : 015 284 7126

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:



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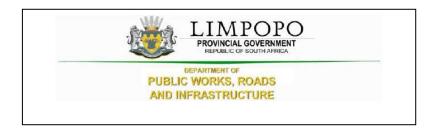
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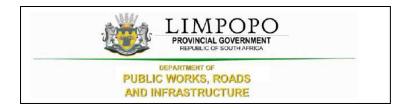
## **PART T1: TENDERING PROCEDURE**

#### **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 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) for a period of 24 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	DEMOLITION OF 10 CLASSROOMS, 16 PIT TOILET SEATS, THE REFURBISHMENT OF 12 CLASSROOMS, 24 WATERBORNE TOILET SEATS AND THE CONSTRUCTION OF MEDIUM ADMINISTRATION BLOCK, 10 CLASSROOMS, 3 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK X 2, 14 SEATS ENVIROLOO TOILET BLOCK AND EXTERNAL WORKS AT UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI),				
	MOPANI DISTRICT FOR A PERIOD OF 24 MONT	LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR			
Tender Number	LDPWRI- B/20304	110.			
Tender documents availability	Limpopo Department of Public Works, Roads and Infrastructure website				
Address for submission of tenders	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.				
		ner River and Blaauwberg Streets, Ladanna, 0699.			
Closing date of the tender	As per Tender invite				
Closing time of the tender	As per Tender invite				
Compulsory briefing	Yes ⊠ No □				
meeting (Tenderers must sign the attendance register in the name of the tendering entity. Addenda (if any) will	Meeting venue As per Tender invite				
be issued only to those	Date	As per Tender invite			
tendering entities appearing on the attendance register)	Time:	As per Tender invite			
Evaluation criteria	Compliance with mandatory or compulsory requirements     Risk assessment on current projects     Price     Preference				
Mandatory or Compulsory Requirements (failure to submit or comply with these requirements will lead to automatic disqualification)	Only tenderers who are appointed on category A 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  Priced Bills of Quantities  SBD 1.				
	Declaration on the status of Administration compliance.				
	Completed and signed Form of Offer				



### 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 <i>No. 36190 of 25 February 2013</i> . In this case, contractor shall provide a <i>minimum Contract Participation Goal (CPG) of 5%</i> 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

	<del>,</del>
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 : ModjadjiM@dpw.limpopo.gov.za
	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.

C.2.7	Compulsory site briefing
	A compulsory briefing meeting will be held as per Tender invite
	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	Replace sub-clause C.2.13.2 with the following; Return all returnable documents to the employer after completing them in their entirety by writing in non-erasable black ink (Black pen)
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 12 weeks or 90 days.
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	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:  - Persons who had no franchise in national elections prior to 1983 and 1993  - Women  - Disabled persons  - Promotion of SMMEs  - Enterprises located in Limpopo Province  - Promotion of youth  - South African owned enterprises

	CIDB Grad	ding 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 C	etter of Good Standing					
		are required to submit, bound with the tender submission, a letter of good standing from nsation commissioner indicating that the bidder is in good standing.					
C3.2	deemed to	nding any requests for confirmation of receipt of Addenda issued, the tenderer shall be have received such addenda if the employer can show proof of transmission thereof (or 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 tender (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					
	evaluation staff and a contractor have simila contractors	ical capacity (functionality) of the contractors will not be evaluated any further during of the RFQ. However, the contractors will be required to declare the status of their key any administrative compliance. In cases where there are changes in the key staff, the should provide CVs and qualifications of the new staff to LDPWR&I. The new staff should ar skills, qualifications and experience as the staff submitted during tender. Similarly, the swill be expected to provide an update on any changes in their administrative compliances all submit the required SBD document/forms in such cases.					
	grading an	I will only be issued to contractors with valid Tax Clearance certificates, active CIDB d the contractor who meets all the legislative requirement – this shall be verified by SCM the departmental SCM Policy.					
		value of current projects for a contractor under consideration cannot exceed twice the value of their relevant CIDB grade.1					
	a)	Stage 1: Administrative Compliance: The Compliance or compulsory documents and returnables are detailed in Section T.2.1 of this tender document. Failure to submit, complete or comply with these requirements will lead to automatic disqualification.					
	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.					

#### 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.

$$T_{FV} = N_{FO} + N_{P}$$

a)  $N_{FO}$  is the number of tender evaluation points awarded for the financial offer made. The score for financial offer is calculated using the following formula:

$$P = A * \left(1 - \frac{(P_0 - P_m)}{P_m}\right)$$

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

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## **PART T2: RETURNABLE DOCUMENTS**

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#### 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:

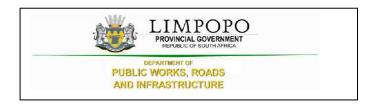
- 2.1 Fully completed Form of Offer
- 2.2 Bills of Quantities
- 2.3 Record of Addenda to tender documents (if applicable)
- 2.4 Proposed amendments and qualifications (if applicable)
- 2.5 Proof of specific goal for award of the preference points as determined on the Request for Proposal
- 2.6 SBD 1.
- 2.7 SBD 6.1
- 2.8 Declaration on the status of Administration compliance.
- 2.9 CIDB grading certificate
- 2.10 CSD Report
- 2.11 Tax clearance certificate
- 2.12 Declaration of current projects

Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.4, 2.6, 2.8, and 2.12 will render their proposal not responsive and will not be considered.

Failure by the service provider to fully complete SBD 6.1 item 4.3 to 4.6 (Declaration with regard to company/firm) 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.

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### 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 (if applicable)	□Yes	□ No
4.	Proposed amendments and qualifications (if applicable)	□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.	CSD Summary report	□Yes	□ No
11.	Original tax clearance certificate or tax pin	□Yes	□ No
12.	Declaration of current projects	□Yes	□ No

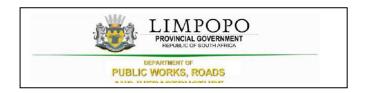
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### Declaration on the status of administrative compliance

۲	riease indicate, by	circling eitner <b>res or No</b> , whether	the administrative inform	ation submitted with the original
fr	amework tender	documents have changed or no	t. If yes, kindly provide	the particulars below with any
SI	upporting docume	ents.		
•				
•				
•				
	Signed		Date	
	9			
	Name		Docition	
	Name		FUSITION	
	Enterprise			

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### **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 sp	pace is required.		
Signe	d	Date		
Name		Position		
Tende	erer			

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Tenderer

LIMPOPO
PROVINCIAL GOVERNMENT
NEPUBLIC OF SOUTH APRICA

DEPARTMENT OF
PUBLIC WORKS, ROADS
AND INFRASTRUCTURE

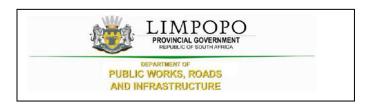
### Proposed amendments and qualifications

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	
Signe	d	Date	
Signe	u 	Date	
Name		Position	

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# 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 Tender			As per Tender
BID NUMBER:	LDPWRI-B/20304				Advert		NG TIME:	Advert
DESCRIPTION	DEMOLITIONS, MAGEVA VILLA				AT UKUTHUL	A PRIN	MARY SCHOO	LIN
	DOCUMENTS MAY B				T (STREET ADD	RESS)		
	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.							
Physical addre	ess: Corner River a	and Blaauwberg	Streets, La	danna, 069	9.			
BIDDING PROCE	EDURE ENQUIRIES N	AY BE DIRECTED	T0					
CONTACT PERS	ON	Mr. NJ Motsopye	ı			T		
TELEPHONE NU	MBER	0152847126	E-MAIL A	DDRESS		motsop	yen@dpw.limpop	o.gov.za
	ON (TECHNICAL)	Mr. K Modjadji						
TELEPHONE NU SUPPLIER INFO		083 673 5436	E-MAIL AI	DDRESS		Modjad	jiM@dpw.limpopo	.gov.za
NAME OF BIDDE								
POSTAL ADDRE								
STREET ADDRE	SS							
TELEPHONE NU	MBER	CODE			NUMBER			
CELLPHONE NU	MBER							
E-MAIL ADDRES	S							
VAT REGISTRAT		TAN			LOGNITONI			
SUPPLIER COMPLIANCE STATUS		TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No			
REPRESENTA		∐Yes	□No	BASED SI	A FOREIGN UPPLIER FOR		□Yes	□No
GOODS /SERVICES /WORKS   [IF YES EN			- GOODS /SERVICES /W		ORKS	[IF YES, ANSWER THE QUESTIONNAIRE BELOW]		
	OFFERED?  QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS							
	IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				_			
	DOES THE ENTITY HAVE A BERMANIENT FOTABLICUMENT IN THE BOAR				_			
	DOES THE ENTITY HAVE ANY COURSE OF INCOME IN THE ROA?							
			_					
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.								

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#### PART B: TERMS AND CONDITIONS FOR BIDDING

#### 1. BID SUBMISSION:

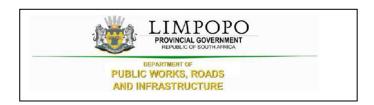
- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED—(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL 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.

#### 2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD 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."

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

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**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.

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#### 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).

#### 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

$$Ps = 80\left(1 - rac{Pt - P \, min}{P \, min}
ight)$$
 or  $Ps = 90\left(1 - rac{Pt - P \, min}{P \, min}
ight)$ 

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:

$$Ps = 80\left(1 + rac{Pt-P\,max}{P\,max}
ight)$$
 or  $Ps = 90\left(1 + rac{Pt-P\,max}{P\,max}
ight)$ 

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

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(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.)

system.)				
The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	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 (Attach certified copy of South African ID as proof)	2	6		
Women (Attach Director's certified copy of South African ID as proof + company registration documents)	1	3		
Disabled persons (Attach letter from a Health Professional as proof)	1	2		
Promotion of SMMEs (Attach latest financial statement as proof)	1	2		
Enterprises located in Limpopo Province (Attach proof of address / Lease agreement as proof)	2	4		
Promotion of youth (Attach Director's certified copy of South African ID as proof)	1	1		
South African owned enterprises (Attach Director's certified copy of South African ID as proof + company registration documents)	2	2		

#### **DECLARATION WITH REGARD TO COMPANY/FIRM**

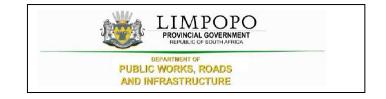
4.4.	Name of company/firm					
4.5.	Company registration number:					
4.6.	TYPE OF COMPANY/ FIRM					
	<ul> <li>□ Partnership/Joint Venture / Consortium</li> <li>□ One-person business/sole propriety</li> <li>□ Close corporation</li> <li>□ Public Company</li> <li>□ Personal Liability Company</li> <li>□ (Pty) Limited</li> <li>□ Non-Profit Company</li> <li>□ State Owned Company</li> <li>[TICK APPLICABLE BOX]</li> </ul>					

- 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

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(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 tender 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?
- 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/tenderer 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

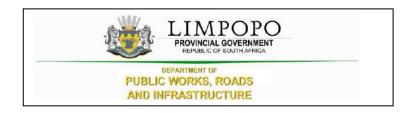
Signed	 Date	
Name	 Position	
Enterprise		



## 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 UKUTHULA PRIMARY SCHOOL IN MAGEVA VILLAGE (GIYANI), MOPANI 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)

and (in words); R
n figures) R
nis 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 nder data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract entified in the contract data.
Signature(s)
Name(s)
Capacity
or the enderer:
Name & signature of vitness Date

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

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

The terms of the contract, are contained in:

Part C1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)

Part C2 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 Em	ployer					
Signature						
Name						
Capacity						
Name and address of organization						
Signature a	and Name of Witness					
Signature						
Name						
Capacity						

### **Schedule of Deviations**

1 Subject	
Details	
2 Subject	
Details	
3 Subject	
Details	
4 Subject	
Details	
By the duly authorised representatives signing this agreement, the <i>Employer</i> and the Tenderer agree to and accep foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the Tender Data addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of offer agreed by the Tenderer and the <i>Employer</i> during this process of offer and acceptance.	and
It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have meaning or effect in the contract between the parties arising from this agreement.	



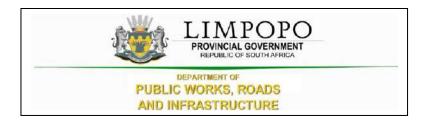
#### **C2.1 CONTRACT DATA**

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
SEC	TION NO. 1			
BILL	<u>. NO. 1</u>			
PRE	LIMINARIES NOTES			
PRE/	<u>AMBLES</u>			
in the	E : The tenderer is referred to the relevant clauses Model Preambles for Trades (2008 Edition) as d by the Association of South African Quantity eyors before pricing this bill.			
<u>NOTI</u>	<u>ES</u>			
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 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 on No. 1		R	
	IMINARIES AND GENERAL		1	1

	Brought Forward		R	
	iv) Where standard clause or alternatives are not entirely applicable to this contract such modification, corrections or supplements as will apply are given under each relevant clause heading			
	v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")			
	vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied) "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.			
	PRICING OF PRELIMINARIES			
	Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.			
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)			
	DEFINITIONS AND INTERPRETATION (A1)			
1/1/1	Clause 1.0			
	F: T:	Item		
	OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)			
1/1/2	Clause 2.0			
	F: T:	Item		
	DOCUMENTS (A3)			
1/1/3	Clause 3.0			
	F: T:	Item		
	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:	Item		
	EMPLOYERS AGENTS (A5)			
1/1/5	Clause 5.0			
	F: T:	Item		
	SITE REPRESENTATIVE (A6)			
1/1/6	Clause 6.0			
	F: T:	Item		
	COMPLIANCE WITH LAWS AND REGULATIONS (A7)			
1/1/7	Clause 7.0			
	F: T:	Item		
	INSURANCE AND SECURITY			
	WORKS RISK (A8)			
1/1/8	Clause 8.0			
	F: T:	Item		
	INDEMNITIES (A9)			
1/1/9	Clause 9.0			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1			
	Preliminaries and General			

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

	Brought Forward		R	
	SELECTED SUBCONTRACTORS (A21)			
1/1/21	Clause 21.0			
	F: T:	Item		
	EMPLOYERS DIRECT CONTRACTORS (A22)			
1/1/22	Clause 22.0			
	F: T:	Item		
	CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)			
1/1/23	Clause 23.0			
	F: T:	Item		
	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: T:	Item		
	WORKS COMPLETION (A25)			
1/1/25	Clause 25.0			
	F: T:	Item		
			_	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
	FINAL COMPLETION (A26)			
1/1/26	Clause 26.0			
	F: T:	Item		
	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:	Item		
	REVISION OF THE DATE FOR PRACTICAL COMPLETION (A29)			
1/1/29	Clause 29.0			
	F: T:	Item		
	PENALTY FOR LATE OR NON-COMPLETION (A30)			
1/1/30	Clause 30.0			
	F: T:	Item		
	PAYMENT			
	INTERIM PAYMENT TO THE CONTRACTOR (A31)			
1/1/31	Clause 31.0			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	ADJUSTMENT OF THE CONTRACT VALUE (A32)			
1/1/32	Clause 32.0			
	F: T:	Item		
	RECOVERY OF EXPENSE AND/OR LOSS (A33)			
1/1/33	Clause 33.0			
	F: T:	Item		
	FINAL ACCOUNT AND FINAL PAYMENT (A34)			
1/1/34	Clause 34.0			
	F: T:	Item		
	PAYMENT TO OTHER PARTIES (A35)			
1/1/35	Clause 35.0			
	F: T:	Item		
	CANCELLATION			
	CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)			
1/1/36	Clause 36.0			
	F: T:	Item		
	CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)			
1/1/37	Clause 37.0			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

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

	Brought Forward		R	
	SCHEDULE OF VARIABLES (A42)			
1/1/43	Clause 42.0			
	F: T:	Item		
	AGREEMENT			
	AGREEMENT			
1/1/44	Clause			
	F: T:	Item		
	Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder			
	CONTRACT DETAILS			
	Works Description:			
	Demolitions of 10 classrooms and 16 pit toilets, refurbishment of 12 classrooms and 24 water-borne toilet seats and construction of medium administration, 10 classrooms, 3 Grade R classrooms, 08 seats water-borne toilet seats and 14 enviro-loo toilets including all related external works			
	Site Description:			
	Ukuthula Primary School C/O Mageva Village Giyani Limpopo			
	Work for installation by direct contractors: <b>TBC</b>			
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	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>			
	Completions in sections are required: No			
	Intended date of practical completion and the penalty per calender day for the works as a whole:			
	R 5 700.00			
	Contract duration : <b>24 months</b> including national builder's break			
	SPECIAL COMPLETION REQUIREMENTS			
	Beneficial occupation dates: TBC			
	Tenant Installations beneficial occupation			
	F V T			
1/1/45	Arbitration rules as recommended by the Association of Arbitrators (SA)			
	F V T	Item		
1/1/46	The law applicable to this agreement shall be that of South Africa			
	F V T	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	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: T:	Item		
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: V: T:	Item		
	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.			
				<u></u>
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			
	1 Tomminution and Gorioral			

Broug	ht Forward	R	
Details of changes made to the provision of JBCC standard documentation:			
The Contractor shall issue a Tax Invoice imme enable the Employer to process payment.	ediately to		
Section No. 1 PRELIMINARIES AND GENERAL	ed Forward	R	
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		
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/55	Priced documents (B2.5)			
	F: T:	Item		
4/4/50		item		
1/1/56	Tender submission (B2.6)			
	F: T:	Item		
1/1/57	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders			
	F: T:	Item		
	The site (B3)			
1/1/58	Defined works area (B3.1)			
	F: T:	Item		
1/1/59	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent at the official site briefing meeting.			
	Site Meeting Date: <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:	Item		
1/1/60	Inspection of the site (B3.3)			
	F: T:	Item		
	Oi-d Fd			
	Carried Forward  Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	
	FIGHILIHIAHES AND GENETAL			

	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 Ukuthula Primary School				
	F: T:	Item			
1/1/62	Existing premises occupied (B3.4)				1
	F: T:	Item			
1/1/63	Previous work - dimensional accuracy (B3.5)				ı
	F: T:	Item			
1/1/64	Previous work - defects (B3.6)				ı
	F: T:	Item			ſ
1/1/65	Services - known (B3.7)				1
	F: T:	Item			
1/1/66	Services - unknown (B3.8)				1
	F: T:	Item			
1/1/67	Protection of trees etc (B3.9)				1
	F: T:	Item			
1/1/68	Articles of value (B3.10)				ı
	F: T:	Item			
1/1/69	Inspection of adjoining properties etc (B3.11)				ı
	F: T:	Item			
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R		
				1	

	Brought Forward		R	
	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: T:	Item		
1/1/71	Programme for the works			
	The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works			
	F: V:			
	T:	Item		
1/1/72	Progress meetings (B4.3)			
	F: T:	Item		
1/1/73	Technical meetings (B4.4)			
	F: T:	Item		
	Samples and shop drawings and manufacturer's instructions (B5)			
1/1/74	Samples of materials (B5.1)			
	F: T:	Item		
1/1/75	Workmanship samples (B5.2)			
	F: T:	Item		
1/1/76	Shop drawings (B5.3)			
	F: T:	Item		
			_	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
	Temporary works and plant (B6)			
1/1/77	Deposits and fees (B6.1)			
	F: T:	Item		
1/1/78	Enclosure of the works (B6.2)			
	F: T:	Item		
1/1/79	Advertising (B6.3)			
	F: T:	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4)			
	F: 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: T:	Item		
1/1/82	Subcontractors notice board (B6.6)			
	F: T:	Item		
	Temporary services (B7)			
1/1/83	Location (B7.1)			
	F: T:	Item		
	Carried Forward			
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/84	Water (B7.2)			
	Alternative A			
	F: T:	Item		
1/1/85	Electricity (B7.3)			
	Alternative A			
	F: T:	Item		
1/1/86	Telecommunication equipment (B7.4)			
	Alternative A			
	F: T:	Item		
1/1/87	Ablution facilities (B7.5)			
	Alternative A			
	F: T:	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)			
	F: T:	Item		
1/1/90	Special attendance (B9.2)			
	F: T:	Item		
	Comited Forward			
	Carried Forward  Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

	Brought Forward		R	
1/1/91	Commissioning - Fuel, water and power (B9.3)			1
	F:			İ
	T:	Item		ı
	Financial aspects (B10)			ı
	Statutory taxes, duties and levies (B10.1)			ı
	<u>F</u> :V:	14		ı
	T:	Item		ı
1/1/92	Provision for Value Added Tax (VAT) is made in the Final Summary			İ
	F: V:	Itara		ı
	T:	Item		ı
1/1/93	Payment of preliminaries (B10.2)			ı
	F: T:	Item		ı
		itom		ı
1/1/94	Adjustment of preliminaries (B10.3)			ı
	F: T:	Item		I
1/1/95	Payment certificate cash flow (B10.4)			1
	F: T:	Itom		ı
	1	Item		İ
1/1/96	Contractor information supply (B10.5)			İ
	F: T:	Item		İ
		item		İ
	General (B11)			İ
1/1/97	Protection of works (B11.1)			İ
	F: T:	Item		ı
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	Carried Forward		R	ı
	Section No. 1 PRELIMINARIES AND GENERAL			l.
	Bill No. 1 Preliminaries and General			i
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	Brought Forward		R	
1/1/98	Protection/isolation of existing/sectionally occupied works (B11.2)			
	F: T:	Item		
1/1/99	Site security (B11.3)			
	F: T:	Item		
1/1/100	Notice before covering work (B11.4)			
	F: T:	Item		
1/1/101	Disturbance (B11.5)			
	F: T:	Item		
1/1/102	Works cleaning and clearing (B11.6)			
	F: T:	Item		
1/1/103	Vermin (B11.7)			
	F: T:	Item		
1/1/104	Overhand work (B11.8)			
	F: T:	Item		
	Schedule of variables (B12)			
1/1/105	Pre-tender information (B12.1)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder.  Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract			
1/1/106	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: <b>Yes</b>			
	F: T:	Item		
1/1/107	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: <b>Yes</b>			
	F: T:	Item		
1/1/108	12.1.3 Interest of agents (B2.4)			
	F: T:	Item		
1/1/109	12.1.4 Defined works area (B3.1)			
	F: T:	Item		
1/1/110	12.1.5 Geotechnical investigation (B3.2)			
	F: T:	Item		
1/1/111	12.1.6 Existing premises occupied (B3.4)			
	F: T:			
		Item		
1/1/112	12.1.7 Services - known (B3.7)			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/113	12.1.8 Protection of trees (B3.9)			
	F: T:	Item		
1/1/114	12.1.9 Inspection of adjoining properties (B3.11)			
	F: T:	lt a ma		
4141445		Item		
1/1/115	12.1.10 Enclosure of the works (B6.2)			
	F: T:	Item		
1/1/116	12.1.11 Offices (B6.4.3)			
	F: T:	14		
		Item		
1/1/117	12.1.12 Main notice board (B6.5)			
	Provision shall be made for 1 set of Professional boards			
	Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m.			
	F: T:	Item		
1/1/118	12.1.13 Subcontractors notice board (B6.6) A notice board is required: <b>Yes</b>			
	F: T:	Item		
	1	item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/119	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		
1/1/120	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:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	_
1/1/121	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:	Item		
1/1/122	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:	Item		
1/1/123	12.1.8 Special attendance (B9.2)			
	F: T:	Item		
1/1/124	12.1.19 Protection of the works (B11.1) F:V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/125	12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: <b>Yes</b>			
	The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.			
	F: T:	Item		
1/1/126	12.1.21 Disturbance (B11.5)			
	F: T:	Item		
1/1/127	Post tender information (B12.2)			
	F: T:	Item		
1/1/128	12.2.1 Payment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/129	12.2.2 Adjustment of preliminaries Alternative selected: (A or B)			
	F: T:	Item		
1/1/130	12.2.3 Additional agreed preliminaries items			
	F: T:			
		Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
	SECTION C: SPECIFIC PRELIMINARIES			
1/1/131	GUARANTEE			
	Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by structural defects in the building in which case the responsibility for replacement shall rest entirely with the contractor unless found to be as a result of a design fault.			
	T:	Item		
1/1/132	SHOP DRAWINGS			
	The contractor and/or nominated/selected sub- contractor shall prepare and submit, at his own expense, three (3) copies of shop drawings of all fabricated work, working or setting out drawings shop details and schedules to the principal agent for approval prior to commencement of manufacture.  Correction of shop drawings shall not constitute a change in scope of work unless the contractor notifies the Principal Agent in writing within seven (7) calender days and shall not proceed with fabrication until so authorised by the principal agent			
	F: T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/133	SAMPLES			
	Samples are physical examples furnished by the contractor to illustrate materials, equipment or workmanship and to establish standards by which the work will be judged. The contractor shall furnish without delay such samples and "mock ups" as may be called for by the Principal Agent, who may reject all material and workmanship not corresponding with the approved samples.			
	Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration.			
	Samples must be properly labelled with the project name and location, contractor's name, the type, finish composition of materials date of submission and the contract document reference in which the project is identified.			
	F: T:	Item		
		ltom		
1/1/134	SITE INSTRUCTIONS			
	Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.			
	Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor.			
	Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue.			
	F: V:			
	T:	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES AND GENERAL			
	Bill No. 1 Preliminaries and General			
	Figuriality and General			

	Brought Forward		R	
1/1/135	OVERTIME			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
	F: V:	Item		
1/1/136	CO-OPERATION OF CONTRACTOR FOR COST CONTROL			
	It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost control in an effort to prevent the final building cost from exceeding the budget.			
	It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising.			
	F: T:	Item		
1/1/137	SITE LEVELS			
	Before commencement of the works, the contractor shall carry out and provide the principal agent, for approval, a survey of the existing site levels in sufficient details to enable the preparation of a final account.			
	F: T:	Item		
1/1/138	PROPRIETARY BRANDED PRODUCTS			
	The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative			
	F: T:	Item		
	Carried Forward  Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

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

Item No		Quantity	Rate	Amount
	SECTION NO. 2			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	Section No. 2		R	
	3 CLASSROOM BLOCK X 2 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	713		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
2/1/2	Trenches	m3	169		
	Extra over excavations in earth to trenches and holes for				
2/1/3	Excavation in soft rock	m3	17		
2/1/4	Excavation in hard rock	m3	8		
	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.				
2/1/5	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	93		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
2/1/6	Trenches and holes	m2	484		
	KEEPING EXCAVATIONS FREE FROM WATER				
2/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	_
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 1 Earthworks				

	Brought Forward			R	-
	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				
2/1/8	Backfilling to trenches, holes, etc	m3	85		
2/1/9	Under floors, steps, pavings, etc	m3	343		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
2/1/10	Backfilling to trenches, holes, etc	m3	25		
2/1/11	Under floors, steps, pavings, etc	m3	75		
	Filling supplied by the Contractor under floors, trenches, etc.				
2/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	75		
	COMPACTION OF SURFACES				
2/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	642		
	WEED KILLERS, INSECTICIDES, TERMITES,				
	etc.				
	Protection against termites, ants, etc				
2/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	642		
2/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	654		
					_
	Carried Forward to Summary of Section No.			R	_
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 1				
	Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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 3 CLASSROOM BLOCK X 2 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.		
· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the		
surface		
· Formwork tie holes: to the approval of the		
architect		
Repair imperfections: not allowed. Tie bolt holes		
shall be patched		
Not permitted: blowholes, small fins, bulges,		
irregularities, voids, honeycombing, segregation		
and other large defects.		
· Concrete surfaces: No further treatment to form		
a smooth finish of uniform texture, appearance		
and colour		
Structural Concrete		
Tenderers are referred to the Structural Engineer's -		
Standard Specifications which should be read before		
pricing this trade in particular, but also the other trades.		
The use of extenders, fly-ash, etc. are clearly described on this drawing.		
on this drawing.		
Occurred Formand		
Carried Forward	R	
Section No. 2		
3 CLASSROOM BLOCK X 2		
Bill No. 2 Concrete, Formwork and Reinforcement		
Concrete, Formwork and Neimorcement		

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS	l.			
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
2/2/1	Blinding	m3	8		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
2/2/2	Strip footings	m3	42		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
2/2/3	Concrete Apron cast to fall etc,	m3	14		
	25MPa/19mm Concrete				
2/2/4	Surface beds cast in panels	m3	65		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
2/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	63		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
2/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	642		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
2/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	282		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
2/2/8	3 x 30mm In saw cut joints in floors	m	104		
	Expansion joints				
2/2/9	10mm soft board or similar approved between concrete and brick wall	m	141		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
2/2/10	All diameter bars	t	3		
	Fabric reinforcement:				
2/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	501		
	Carried Femiliard to Cumment of Coeties No.			R	
	Carried Forward to Summary of Section No. Section No. 2			K	+
	3 CLASSROOM BLOCK X 2 Bill No. 2 Concrete Formwork and Poinforcement				
	Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward  Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 3 Masonry		R	

	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	182		
	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	537		
2/3/3	Half brick wall, in beamfilling	m2	23		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	363		
2/3/5	Extra over brickwork for face brickwork in superstructure	m2	408		
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	64		
2/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	59		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 3 Masonry				

	Brought Forward			R	Τ
2/3/8	Extra over brickwork for face brickwork in beamfilling	m2	23		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
2/3/9	150mm Wide reinforcement built in horizontally.	m	2 646		
	"Allied concrete" or similar approved prestressed fabricated lintels				
2/3/10	100 x 70mm Lintels in lengths not exceeding 3m	m	75		
2/3/11	175 x 70mm Lintels in lengths not exceeding 3m	m	7		
	Turning pieces				
2/3/12	110mm Wide turning piece to flat brick lintels	m	64		
	Air bricks etc				
2/3/13	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	6		
	Roof ties				
2/3/14	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	128		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
2/3/15	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	36		
					+
	Carried Forward to Summary of Section No. Section No. 2			R	<del> </del>
	3 CLASSROOM BLOCK X 2 Bill No. 3				
	Masonry				

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
2/4/1	Under walls	m2	5		
2/4/2	Under cills, etc.	m2	13		
	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	642		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
2/4/4	3 x 30mm In saw cut joints in floors	m	104		
2/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	141		
	Carried Forward to Summary of Section No. Section No. 2			R	
	3 CLASSROOM BLOCK X 2 Bill No. 4 Waterproofing				

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
2/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	739		
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	53		
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	41		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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	739			
	Carried Forward to Summary of Section No.  Section No. 2  3 CLASSROOM BLOCK X 2		R		
	Bill No. 5 Roof Coverings				
			ı İ	1	

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	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 3 CLASSROOM BLOCK X 2 Bill No. 6 Carpentry and Joinery			

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

Brought Forward	R	
<u>5</u>		
ibed as "bolted" shall be deemed to exclude d include the holes unless otherwise		
ixing of members is not stated it shall mean of one timber member to another.		
lanted on" shall mean the nailing of one ber to another		
crewed on" shall mean the countersunk one timber member to another.		
crewed on and pelleted" shall mean the one timber member to another with the rew sunk and pelleted.		
lugged" shall mean the countersunk a timber member to and including plastic kwork or concrete.		
lugged and pelleted" shall mean the a timber member to and including plastic kwork or concrete with heads of screw sunk l.		
c. described as screwed to steel must be nderside and prices are to include for drilling through the steel for screw fixing.		
s of floors, ceilings, joinery, etc. shall be nclude for all square cutting		
s of items given in linear metre shall be nclude for mitres, stopped ends, fitted s, etc.		
s of rounded angles, rebates, grooves, noulded edges, etc. shall be deemed to angles, ends, etc.		
Carried Forward	R	
2 OOM BLOCK X 2		

	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	616		
	Sawn softwood				
2/6/2	38 x 114mm Wall plates	m	154		
	<u>Sundries</u>				
2/6/3	Two coats creosote on sawn timbers	m2	57		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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	154		
	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	914 x 2032mm single door	No	6		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
2/6/6	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	59		
	Carried Forward to Summary of Section No.  Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 6 Carpentry and Joinery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Fixing			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Carried Forward		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R		
	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					
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications					
2/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	458			
	CORNICES					
	Similar Approved					
	"Rhino" plasterboard cornice					
2/7/2	75mm Coved cornice, plugged to brickwork	m	303			
	Carried Forward			R		
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 7 Ceilings, Partitions and Access Flooring					
						J

	Brought Forward			R	Τ
	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	458		
					<u> </u>
	Carried Forward to Summary of Section No.			R	<u></u>
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 7				
	Ceilings, Partitions and Access Flooring				

			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 3 CLASSROOM BLOCK X 2 Bill No. 8 Ironmongery		R	
	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 3 CLASSROOM BLOCK X 2 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 3 CLASSROOM BLOCK X 2 Bill No. 8	IRONMONGERY  PREAMBLES  NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.  SUPPLEMENTARY PREAMBLES  Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.  GENERAL NOTES TO TENDERERS  General notes, described in Bill No.1, shall equally apply to this Bill.  Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.  Proprietary items  Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items  Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered  On request returnable samples are to be provided to the principal agent for consideration  Carried Forward  R  Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 8

	Brought Forward			R	_
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates  The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Locks</u>				
2/8/1	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	6		
2/8/2	SC 150mm Cabin hook (Code: CH 150)	No	6		
	Kick and push plates				
2/8/3	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	12		
	Panic hardware				
2/8/4	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
2/8/5	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	Carried Forward Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 8 Ironmongery			R	

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  2/8/6 2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations  No  Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray  2/8/7 2000 x 1300mm high board (Colour: White), fixed to wall	
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  2/8/6 2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations  No  6  Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray  2/8/7 2000 x 1300mm high board (Colour: White), fixed to wall	
wall in strict accordance with manufacturer's recommendations  No  Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray  2/8/7  2000 x 1300mm high board (Colour: White), fixed to wall	
anodised aluminium frame and slide-in aluminium pen tray  2/8/7 2000 x 1300mm high board (Colour: White), fixed to wall	
2/8/7 2000 x 1300mm high board (Colour: White), fixed to wall	
in strict accordance with manufacturer's	
recommendations No 6	
SUNDRIES  Approved	
2/8/8 "CZ8730SC" Door stop or similarly approved to wall or floors No 6	
Carried Forward to Summary of Section No.	
Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 8 Ironmongery	

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	<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		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 9 Metalwork			

Broug	ht Forward	R	
<u>Actuators</u>			
All rates for shopfronts with actuators to include supply and installation of actuators as specifie			
Scaffolding			
All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.			
<u>Protection</u>			
With this tender, the glazing sub-contractor must a statement concerning protection that will be to finishes and components until Practical Cor This to include specific references to the meth removal of such protection.  All tenderers to include cost of protection in te	provided npletion. od of		
Installation			
All measurements to be checked on site prior ordering and manufacturing.	to		
Aluminium sections and shop drawings to be a by Architect prior to manufacturing.	accepted		
Allow for water and weather proof polysulphide to approved specifications all around frame jurplaster and other materials.			
<u>Profiles</u>			
Tenderers to provide typical details of propose aluminium section to be used in the design.	d		
Structural Silicone			
Tenderers to allow a 10 year guarantee on all powdercoating.			
Preliminary and Shop Drawings:			
The contractor shall submit preliminary design showing basic system sections for the Architecapproval.			
Carri	ed Forward	R	
Section No. 2 3 CLASSROOM BLOCK X 2 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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
Tolerances:		
Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.		
Protection:		
The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.		
Such protection shall only be removed after a written instruction from the Architect.		
Cleaning:		
All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 9		
Metalwork		

	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 914 x 2032mm high	No	6		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
2/9/2	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				
2/9/3	Window size 1143 x 1272mm high	No	52		
	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.				
2/9/4	In Ceiling voids	m2	380		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 9 Metalwork				

	Brought Forward		R	
	STEEL COLUMNS AND BEAMS			
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to			
2/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column kg	440		
	Carried Forward to Summary of Section No. Section No. 2		R	
	3 CLASSROOM BLOCK X 2 Bill No. 9 Metalwork			

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
2/10/1	30mm Thick on floors and landings	m2	400		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
2/10/2	30mm Thick on floors	m2	83		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
2/10/3	On brick walls	m2	569		
2/10/4	On narrow widths	m2	57		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 10 Plastering				

	Brought Forward		R	
	CORNER PROTECTORS, DIVIDING STRIPS,			
	ETC			
2/10/5	Aluminium straight edge M-trim suitable for under-			
	screed fixing in vinyl/ceramic, etc. installed as per	_		
	manufactures recommendation and specification.	5		
			_	
	Carried Forward to Summary of Section No. Section No. 2		R	<u> </u>
	3 CLASSROOM BLOCK X 2			
	Bill No. 10 Plastering			
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Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<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.			
	Wastage			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	Carried Forward		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 11 Tilling			

	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.				
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
2/11/1	On floors	m2	400		
2/11/2	75mm high skirting	m	196		
	ATTIC STOCK				
2/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	40		
	SUNDRIES				
	10mm aluminium straight edge trim				
2/11/4	Dividing strip between tiles and door frames	m	5		
	Comind Formand to Community Community				
	Carried Forward to Summary of Section No.  Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 11 Tiling			R	
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Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 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	154		
2/12/2	Extra over eaves gutter for stopped end	No	4		
2/12/3	Extra over eaves gutter for corner	No	65		
2/12/4	Extra over eaves gutter for outlet	No	16		
	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	55		
2/12/6	Extra over downpipe for offset	No	32		
2/12/7	Extra over downpipe for shoe	No	16		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
2/12/8	9kg dry chemical powder fire extinguisher	No	6		
	Carried Forward			R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 12 Plumbing and Drainage				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward		R	
2/12/9	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket No	4		
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	Carried Forward to Summary of Section No.  Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 12 Plumbing and Drainage		R	
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Item No		Quantity	Rate	Amount
	BILL NO. 13			
	GLAZING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	5mm clear floated glass fixed glazing putty			
2/13/1	Panes exceeding 0.1m2 and not exceeding 0.5m2 m2	75		
	Carried Forward to Summary of Section No.		R	
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 13			
	Glazing			

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
2/14/1	On internal ceilings and cornices	m2	485		
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	154		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
2/14/3	Plastered walls	m2	569		
	Section No. 2 3 CLASSROOM BLOCK X 2 Bill No. 14			R	

	Brought Forward			R	Τ
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
2/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	23		
2/14/5	On window frames	m2	75		
2/14/6	On door frames	m2	8		
2/14/7	On mild steel columns, beams, etc	m2	20		
2/14/8	On gutters	m	154		
2/14/9	On downpipes	m	57		
	WOOD				
	Prepare and paint three coats clear varnish:				
2/14/10	On door	m2	20		
					+
	Carried Forward to Summary of Section No. Section No. 2			R	+
	3 CLASSROOM BLOCK X 2 Bill No. 14				
	Paintwork				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	SECTION SUMMARY			
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2/5	Roof Coverings	2/13		
2/6	Carpentry and Joinery	2/17		
2/7	Ceilings, Partitions and Access Flooring	2/20		
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2/9	Metalwork	2/28		
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	Carried to Final Summany		R	
	Carried to Final Summary Section No. 2		K	
	3 CLASSROOM BLOCK X 2			

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	Section No. 3 4 CLASSROOM BLOCK Bill No. 1 Earthworks		R	

	Brought Forward			R	
	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	457		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
3/1/2	Trenches	m3	104		
	Extra over excavations in earth to trenches and holes for				
3/1/3	Excavation in soft rock	m3	10		
3/1/4	Excavation in hard rock	m3	5		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
3/1/5	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	57		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
3/1/6	Trenches and holes	m2	298		
	Carried Forward Section No. 3			R	
	4 CLASSROOM BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	KEEPING EXCAVATIONS FREE FROM WATER				
3/1/7	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				
3/1/8	Backfilling to trenches, holes, etc	m3	53		
3/1/9	Under floors, steps, pavings, etc	m3	222		
	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	49		
	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	49		
	COMPACTION OF SURFACES				
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	413		
	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	413		
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	402		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 1 Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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. 3 4 CLASSROOM BLOCK 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 Tanderer is to note that for the "off shutter"		
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		
<ul> <li>Form facing material to produce a smooth, hard, uniform texture on the concrete</li> </ul>		
<ul> <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> </ul>		
Formwork tie holes: to the approval of the architect		
<ul> <li>Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>Not permitted: blowholes, small fins, bulges,</li> </ul>		
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. 3 4 CLASSROOM BLOCK		
Bill No. 2 Concrete, Formwork and Reinforcement		

	Brought Forward			R	T
	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		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
3/2/2	Strip footings	m3	26		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
3/2/3	Concrete Apron cast to fall etc,	m3	9		
	25MPa/19mm Concrete				
3/2/4	Surface beds cast in panels	m3	42		
	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)				
3/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	39		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	Π
	SUNDRIES TO CONCRETE				
	Surface treatment				
3/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	413		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
3/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	174		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
3/2/8	3 x 30mm In saw cut joints in floors	m	73		
	Expansion joints				
3/2/9	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				
3/2/10	All diameter bars	t	2		
	Fabric reinforcement:				
3/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	326		
	Carried Forward to Summary of Section No.			R	
	Section No. 3 4 CLASSROOM BLOCK				$\vdash$
	Bill No. 2 Concrete, Formwork and Reinforcement				
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Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward Section No. 3 4 CLASSROOM BLOCK		R	
	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				
3/3/1	One brick wall	m2	112		
	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	338		
3/3/3	Half brick wall, in beamfilling	m2	14		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
3/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	224		
3/3/5	Extra over brickwork for face brickwork in superstructure	m2	252		
3/3/6	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	44		
3/3/7	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	41		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 3 Masonry				
	Bill No. 3				

	Brought Forward			R	Τ
3/3/8	Extra over brickwork for face brickwork in beamfilling	m2	14		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
3/3/9	150mm Wide reinforcement built in horizontally.	m	1 651		
	"Allied concrete" or similar approved prestressed fabricated lintels				
3/3/10	100 x 70mm Lintels in lengths not exceeding 3m	m	52		
3/3/11	175 x 70mm Lintels in lengths not exceeding 3m	m	4		
	Turning pieces				
3/3/12	110mm Wide turning piece to flat brick lintels	m	44		
	Air bricks etc				
3/3/13	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Roof ties				
3/3/14	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	78		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
3/3/15	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	22		
					+
	Carried Forward to Summary of Section No. Section No. 3			R	+
	4 CLASSROOM BLOCK Bill No. 3				
	Masonry				

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
3/4/1	Under walls	m2	3		
3/4/2	Under cills, etc.	m2	9		
	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	413		
	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	73		
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 4 CLASSROOM BLOCK			R	
	Bill No. 4 Waterproofing				

tem No		C	Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
3/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	483		
3/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	35		
3/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20		
	Carried Forward Section No. 3			R	
	4 CLASSROOM BLOCK Bill No. 5 Roof Coverings				

	Brought Forward			R	Π
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
3/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	483		
	Carried Forward to Summary of Section No. Section No. 3			R	<u> </u>
	4 CLASSROOM BLOCK Bill No. 5 Roof Coverings				

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			
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.			
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in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
SUPPLEMENTARY PREAMBLES		i l	
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>Joinery</u>			
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.			
<u>Fixing</u>			
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. 3 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery			
	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  Carried Forward  Section No. 3 4 CLASSROOM BLOCK	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  Carried Forward  Section No. 3  4 CLASSROOM BLOCK  Bill No. 6	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  Carried Forward  R  Section No. 3  4 CLASSROOM BLOCK  Bill No. 6

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

Brought Forward	R	
<u>Descriptions</u>	ľ	
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. 3 4 CLASSROOM BLOCK Bill No. 6	IX.	
Carpentry and Joinery		

	Brought Forward			R	Γ
	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	403		
	Sawn softwood				
3/6/2	38 x 114mm Wall plates	m	94		
	<u>Sundries</u>				
3/6/3	Two coats creosote on sawn timbers	m2	35		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
	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				
3/6/4	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
3/6/5	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	41		
	0				
	Carried Forward to Summary of Section No.  Section No. 3 4 CLASSROOM BLOCK Bill No. 6 Carpentry and Joinery			R	
	Carponaly and Joinery				

m o		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Fixing			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R		
	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					
	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	310			
	CORNICES					
	"Rhino" plasterboard cornice					
3/7/2	75mm Coved cornice, plugged to brickwork	m	202			
	Carried Forward			R		
	Section No. 3 4 CLASSROOM BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring					
		'		'	1	ı

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
3/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	4		
	CEILING INSULATION				
	Insulation				
3/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	310		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward  Section No. 3 4 CLASSROOM BLOCK Bill No. 8		R	
	Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates  The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Locks</u>				
3/8/1	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	4		
3/8/2	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
3/8/3	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	8		
	Panic hardware				
3/8/4	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0		
3/8/5	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4		
	Carried Forward Section No. 3 4 CLASSROOM BLOCK Bill No. 8 Ironmongery			R	

				R	
	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				
,	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	8		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium				
	pen tray 2000 x 1300mm high board (Colour: White), fixed to wall				
l	in strict accordance with manufacturer's recommendations	No	8		
1	SUNDRIES				
	<u>Approved</u>				
	"CZ8730SC" Door stop or similarly approved to wall or floors	No	4		
					_
<b>I</b>	Carried Forward to Summary of Section No. Section No. 3			R	<u></u>
	4 CLASSROOM BLOCK Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward Section No. 3		R	
	4 CLASSROOM BLOCK 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.		
<u>Protection</u>		
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.		
<u>Profiles</u>		
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. 3 4 CLASSROOM BLOCK 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.		
Cleaning:		
All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 3 4 CLASSROOM BLOCK Bill No. 9		
Metalwork		

	Brought Forward			R	<del></del>
	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				
3/9/1	Steel gate to door, size 914 x 2032mm high	No	4		
	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				
3/9/2	914 x 2032mm single door	No	4		
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
3/9/3	Window size 1143 x 1272mm high	No	36		
	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.				
3/9/4	In Ceiling voids	m2	252		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 9 Metalwork				

	Brought Forward			R	
	STEEL COLUMNS AND BEAMS				
	Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to				
3/9/5	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	280		
	Carried Forward to Summary of Section No. Section No. 3			R	
	4 CLASSROOM BLOCK Bill No. 9 Metalwork				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
3/10/1	30mm Thick on floors and landings	m2	266		
	Granolithic screed on concrete, worked down to a true and even surface with a wood trowel				
3/10/2	30mm Thick on floors	m2	61		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
3/10/3	On brick walls	m2	379		
3/10/4	On narrow widths	m2	38		
	Carried Forward			R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 10				
	Plastering				

	Brought Forward		R	
	CORNER PROTECTORS, DIVIDING STRIPS,			
	ETC			
3/10/5	Aluminium straight edge M-trim suitable for under-			
	screed fixing in vinyl/ceramic, etc. installed as per			
	manufactures recommendation and specification.	3		
				$\vdash$
	Carried Forward to Summary of Section No.		R	L
	Section No. 3 4 CLASSROOM BLOCK			
	Bill No. 10			
	Plastering			

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	Fixing			
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.			
	Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.			
	Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth.  Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.			
	Wastage			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK Bill No. 11 Tiling			

	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.				
	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				
3/11/1	On floors	m2	266		
3/11/2	75mm high skirting	m	131		
	ATTIC STOCK				
3/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	27		
	SUNDRIES				
	10mm aluminium straight edge trim				
3/11/4	Dividing strip between tiles and door frames	m	3		
				_	
	Carried Forward to Summary of Section No.  Section No. 3 4 CLASSROOM BLOCK Bill No. 11 Tiling			R	

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 3 4 CLASSROOM BLOCK 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>				
3/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	94		
3/12/2	Extra over eaves gutter for stopped end	No	8		
3/12/3	Extra over eaves gutter for corner	No	41		
3/12/4	Extra over eaves gutter for outlet	No	10		
	Rainwater downpipes				
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	35		
3/12/6		No	20		
3/12/7	Extra over downpipe for offset	No	10		
3/12//	Extra over downpipe for shoe	INO	10		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
3/12/8	9kg dry chemical powder fire extinguisher	No	8		
	Section No. 3 4 CLASSROOM BLOCK Bill No. 12 Plumbing and Drainage			R	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward		R	_
3/12/9	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket No	2		
				_
	Carried Forward to Summary of Section No.  Section No. 3 4 CLASSROOM BLOCK		R	=
	Bill No. 12 Plumbing and Drainage			

Item No		Quantity	Rate	Amount
	BILL NO. 13			
	GLAZING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	Note:			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	GLASS TO STEEL WITH PUTTY			
	5mm clear floated glass fixed glazing putty			
3/13/1	Panes exceeding 0.1m2 and not exceeding 0.5m2 m2	52		
	Carried Forward to Summary of Section No.		R	
	Section No. 3 4 CLASSROOM BLOCK 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				
3/14/1	On internal ceilings and cornices	m2	328		
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	94		
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
3/14/3	Plastered walls	m2	379		
	Carried Forward Section No. 3 4 CLASSROOM BLOCK			R	

	Brought Forward			R	
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
3/14/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	15		
3/14/5	On window frames	m2	52		
3/14/6	On door frames	m2	5		
3/14/7	On mild steel columns, beams, etc	m2	13		
3/14/8	On gutters	m	94		
3/14/9	On downpipes	m	36		
	WOOD				
	Prepare and paint three coats clear varnish:				
3/14/10	On door	m2	13		
	Carried Forward to Summary of Section No. Section No. 3			R	_
	4 CLASSROOM BLOCK Bill No. 14				
	Paintwork				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	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	3/23		
3/9	Metalwork	3/28		
3/10	Plastering	3/30		
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3/14	Paintwork	3/38		
	Carried to Final Summary		R	
	Section No. 3 4 CLASSROOM BLOCK			
	TOLINOON BLOOK			

Item No		Quantity	Rate	Amount
	SECTION NO. 4			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
4/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
4/1/2	Trenches	m3	18		
4/1/3	Holes	m3	20		
	Extra over excavations in earth to trenches and holes for				
4/1/4	Excavation in soft rock	m3	4		
4/1/5	Excavation in hard rock	m3	2		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
4/1/6	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	27		
	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.				
4/1/7	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	30		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
4/1/8	Trenches and holes	m2	78		
	KEEPING EXCAVATIONS FREE FROM WATER				
4/1/9	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				
4/1/10	Backfilling to trenches, holes, etc	m3	9		
4/1/11	Under floors, steps, pavings, etc	m3	23		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
4/1/12	Backfilling to trenches, holes, etc	m3	3		
4/1/13	Under floors, steps, pavings, etc	m3	3		
	Filling supplied by the Contractor under floors, trenches, etc.				
4/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	4		
	COMPACTION OF SURFACES				
4/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	59		
					_
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	WEED KILLERS, INSECTICIDES, TERMITES, etc.	1			
	Protection against termites, ants, etc				
4/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	49		
4/1/17	To bottom and sides of excavated trenches, Holes, etc.	m2	106		
	Carried Forward to Summary of Section No. Section No. 4			R	<u> </u>
	10 SEATS ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks				
	Laturworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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. 4 10 SEATS ENVIROLOO TOILET BLOCK 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		
<ul><li>Steel faced formwork. Joints grout-tight.</li><li>Panels shall be as large as practicable and</li></ul>		
arranged in a regular pattern as a feature of the		
surface		
· Formwork tie holes: to the approval of the		
architect		
Repair imperfections: not allowed. Tie bolt holes		
shall be patched  Not permitted: blowholes, small fins, bulges,		
irregularities, voids, honeycombing, segregation		
and other large defects.		
· Concrete surfaces: No further treatment to form		
a smooth finish of uniform texture, appearance		
and colour		
Structural Concrete		
Tenderers are referred to the Structural Engineer's -		
Standard Specifications which should be read before		
pricing this trade in particular, but also the other trades.		
The use of extenders, fly-ash, etc. are clearly described		
on this drawing.		
Carried Forward	R	
Section No. 4		
10 SEATS ENVIROLOO TOILET BLOCK		
Bill No. 2		
	ı	I

	Brought Forward			R		
	GENERAL NOTES TO TENDERERS				a l	
	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			
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE					
	25MPa/19mm Concrete					
4/2/2	Strip footings	m3	4			
	REINFORCED CONCRETE CAST IN FORMWORK					
	20Mpa/19mm concrete					
4/2/3	Concrete Apron cast to fall etc,	m3	2			
	25MPa/19mm Concrete					
4/2/4	Surface beds cast in panels	m3	4			
4/2/5	Slabs including beams and inverted beams	m3	1			
	TEST BLOCKS					
	Notes:					
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)					
4/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6			
						_
	Carried Forward			R		
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK					
	Bill No. 2 Concrete, Formwork and Reinforcement					
	Concrete, Formwork and Reinforcement					

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
4/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	60		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
4/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	69		
	Rough formwork to soffits				
4/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	10		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/2/10	10mm soft board or similar approved between concrete and brick wall	m	34		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
4/2/11	All diameter bars	t	0.4		
	Fabric reinforcement:				
4/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
					_
	Carried Forward to Summary of Section No.			R	<u></u>
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3 Masonry			

	Brought Forward			R	
	<u>Pointing</u>				
	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				
4/3/1	One brick wall	m2	19		
	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	104		
4/3/3	Half brick wall	m2	11		
4/3/4	Half brick wall, in beamfilling	m2	6		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
4/3/5	340 x 230mm Brick Piers	m3	0.5		
4/3/6	360 x 230mm Brick Piers	m3	0.5		
	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				
4/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	38		
	Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3 Masonry			R	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward			R	_
4/3/8	Extra over brickwork for face brickwork in superstructure	m2	86		
4/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	4		
4/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	2		
4/3/11	Extra over brickwork for face brickwork to piers	m2	13		
4/3/12	Extra over brickwork for face brickwork in beamfilling	m2	6		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
4/3/13	75mm Wide reinforcement built in horizontally	m	33		
4/3/14	150mm Wide reinforcement built in horizontally.	m	422		
	"Allied concrete" or similar approved prestressed fabricated lintels				
4/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	3		
4/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	12		
	Turning pieces				
4/3/17	110mm Wide turning piece to flat brick lintels	m	11		
	Air bricks etc				
4/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2		
	Roof ties				
4/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	19		
					—
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 3			R	
	Masonry				

	Brought Forward		R		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
4/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	4			
	Carried Forward to Summary of Section No.		R		
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK				
	Bill No. 3 Masonry				
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Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
4/4/1	Under walls	m2	1		
4/4/2	Under cills, etc.	m2	0.5		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
4/4/3	Under surface beds.	m2	49		
	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	34		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 4				

Item No		Q	uantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
4/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	40		
4/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	6		
4/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	10		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
4/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	40		
				<u> </u>
	Carried Forward to Summary of Section No. Section No. 4		R	<u> </u>
	10 SEATS ENVIROLOO TOILET BLOCK Bill No. 5 Roof Coverings			
				l

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	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. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 6			
	Carpentry and Joinery			

	Brought Forward	F	R
<u> </u>	<u>Descriptions</u>		
t	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.		
s	The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the neads of screw sunk and pelleted.		
8	The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.		
S	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.		
f	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 nclude for angles, ends, etc.		
	Carried Forward	F	
1 E	Section No. 4 10 SEATS ENVIROLOO 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				
4/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	34		
	Sawn softwood				
4/6/2	38 x 114mm Wall plates	m	23		
	<u>Sundries</u>				
4/6/3	Two coats creosote on sawn timbers	m2	9		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 6 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	23		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
4/6/5	813 x 2032mm single door	No	6		
4/6/6	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
4/6/7	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	2		
	Carried Forward to Summary of Section No.  Section No. 4  10 SEATS ENVIROLOO TOILET BLOCK  Bill No. 6  Carpentry and Joinery			R	

m o		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. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	
	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				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
4/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	17		
	CORNICES				
	"Rhino" plasterboard cornice				
4/7/2	75mm Coved cornice, plugged to brickwork	m	38		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring				
					ł

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
4/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	CEILING INSULATION				
	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	17		
	Carried Forward to Summary of Section No. Section No. 4			R	
	Section No. 4  10 SEATS ENVIROLOO TOILET BLOCK  Bill No. 7				
	Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			

	Brought Forward			R	—
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
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	8		
	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	8		
4/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	2		
4/8/4	SC 150mm Cabin hook (Code: CH 150)	No	2		
4/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	8.0		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	Τ
	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	20		
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	8		
	Panic hardware				
4/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	2.0		
4/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	2		
	<u>Sundries</u>				
4/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	8.0		
4/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	8		
	SUNDRIES				
	Approved				
4/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	20		
	Carried Forward to Summary of Section No. Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	<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		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brought Forward	R	
<u>Actuators</u>		
All rates for shopfronts with actuators to include for the supply and installation of actuators as specified		
<u>Scaffolding</u>		
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.		
<u>Profiles</u>		
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.		
Couried Femural		
Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork	R	

	Brought Forward	R	
After approval and prior to fabrica drawings shall be prepared and s Architect for approval.	ation detailed shop		
Fixing:			
The contractor is to take special of all aluminium elements and must properly securing the aluminium swith and including all necessary stimber grounds and sub-frames, it holing and bolting, etc. This fixing spaced and securely fixed to ensure door frames, windows, etc. as no improper functioning of the windows, etc.	ust allow in his price for sections to the structure steel brackets, rails, including all necessary is to be adequately ure total stiffness of the sagging causing		
Deflection of structure:			
The contractor is advised to make for the design deflection of the str			
Tolerances:			
Sizes are approximate only and r must be taken before fabrication. be made for tolerances in accord Architect's details.	Due allowance must		
Protection:			
The contractor will be required to the course of construction, which adequate for the purpose and to Architect.	protection shall be		
Such protection shall only be reminstruction from the Architect.	noved after a written		
Cleaning:			
All work must be cleaned down under Glazing as installed will not be accounted and the contractor must allow for when instructed by the Architect.	ccepted as clean glass		
Note: All windows and doors sho conjunction with window and doo			
	Carried Forward	R	
Section No. 4 10 SEATS ENVIROLOO TOILET Bill No. 9 Metalwork	BLOCK		

	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				
4/9/1	Steel gate to door, size 813mm x 2032mm high	No	2		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
4/9/2	813 x 2032mm single door	No	4		
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
4/9/3	813 x 2032mm single door	No	2		
4/9/4	914 x 2032mm single door	No	4		
	WINDOWS FRAMES, etc.				
4/9/5	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	No	4		
4/9/5	Window size 533 x 950mm high	No	4		
	Carried Forward to Summary of Section No. Section No. 4			R	
	10 SEATS ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
4/10/1	30mm Thick on floors and landings	m2	56		
4/10/2	30mm Thick to falls and currents	m2	3		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
4/10/3	On brick walls	m2	94		
4/10/4	On narrow widths	m2	9		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
4/10/5	Aluminium straight edge M-trim suitable for underscreed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 10 Plastering			.``	

	Qua	antity	Rate	Amount
BILL NO. 11				
TILING				
PREAMBLES				
NOTE: The tenderer is referred to the rel in the Model Preambles for Trades (2008 issued by the Association of South African Surveyors before pricing this bill.	Edition) as			
SUPPLEMENTARY PREAMBLES				
Supplementary preamble items described shall equally apply to this Bill.	in Bill No. 1,			
Pricing				
Prices are to included for the following: Chandling, labour, adhesive etc.	utting,			
<u>Fixing</u>				
Tiling described as "fixed with adhesive o floated concrete" shall be deemed to incluapproved tiling key-coat.				
Ceramic, porcelain, marble and granite till fixed, grouted and pointed with suitable argrouts, as recommended by the Architect hereby deemed to include the cost of this	dhesives and Costs are			
Payment for work that is deemed measure of the conditions of contract, and which conditions, leaving, or forming, rectangular he notches through tiling is hereby deemed to holes and notches that do not exceed 600. Those exceeding 600mm in girth are here be "square cutting", which is hereby deem of the work description for that type of tiling measurable as a separate item of work.	omprises bles and c apply only to omm girth. by deemed to ned to be part			
Wastage				
Tile wastage in excess of 10% will be for account.	the tenderer's			
	Carried Forward		R	
Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 11 Tiling				

	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				
4/11/1	Plastered walls	m2	56		
4/11/2	On narrow widths	m2	6		
4/11/3	Splash backs	m2	1		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
4/11/4	On floors	m2	29		
4/11/5	75mm high skirting	m	73		
	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	6		
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	3		
					_
	Carried Forward Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 11 Tiling			R	

	Brought Forward		R	
	SUNDRIES			
	10mm aluminium straight edge trim			
4/11/8	Dividing strip between tiles and door frames m	2		
				_
	Carried Forward to Summary of Section No.		R	<u> </u>
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 11			
	Tiling			
	ı	1		

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward	I		R	<u> </u>
	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>				
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	23		
4/12/2	Extra over eaves gutter for stopped end	No	8		
4/12/3	Extra over eaves gutter for corner	No	17		
4/12/4	Extra over eaves gutter for outlet	No	4		
	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	14		
4/12/6	Extra over downpipe for offset	No	8		
4/12/7	Extra over downpipe for shoe	No	4		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK 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				
4/12/8	WHB, installed complete	No	2		
	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	4		
	<u>URINALS</u>				
	Vaal Sanitaryware "Lavatera" vitreous china wall hung urinal with top inlet including 38mm chrome plated domical grating, including Cobra "Junior Flushmaster" exposed chrome plated flush valve, including offset urinal flush pipe, chrome plated bottle trap and parallel nipple (PC allowance of R4 950.00/no excludes V.A.T. but includes delivery to site), includes supply and fixing				
4/12/10	Urinal, installed complete	No	1		
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
4/12/11	32mm Basin waste union	No	2		
	Carried Forward			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward		R	
	TOILET ROLL HOLDER			
	To be approved by Architect			
4/12/12	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	lo 4		
	SOAP DISPENSER			
	To be approved by Architect			
4/12/13	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	lo 1		
	PAPER TOWEL DISPENSER			
	To be approved by Architect			
4/12/14	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	lo 1		
	TAPS, VALVES, ETC			
	Similar Approved			
4/12/15	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	lo 2		
	TESTING			
4/12/16	Testing water pipe system	Item		
	BUDGETARY ALLOWANCE			
4/12/17	Allow an amount of R205 800.00 (Two Hundred and Five Thousand Eight Hundred) for the supply and installation of Sanitary Fitting Sundries	Item		82 320 00
4/12/18	Allow an amount of R500 000.00 (Five Hundred Thousand) for the supply and installation of Enviro-loo complete	Item		200 000 00
	Carried Forward to Summary of Section No.		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 12			
	Plumbing and Drainage			

Item No		Qu	antity	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				
4/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	2		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
4/13/2	Mirror 400 x 600 mm high	No	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK Bill No. 13 Glazing				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
4/14/1	On internal ceilings and cornices	m2	21		
4/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	23		
	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	2		
	Carried Forward			R	

	Brought Forward			R	
	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	94		
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
4/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	8		
4/14/6	On window frames	m2	2		
4/14/7	On door frames	m2	13		
4/14/8	On gutters	m	23		
4/14/9	On downpipes	m	14		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
4/14/10	On door	m2	28		
	Prepare and paint three coats clear varnish:				
4/14/11	On door	m2	7		
	Comical Forward to Commence (Cont.)			-	
	Carried Forward to Summary of Section No.  Section No. 4  10 SEATS ENVIROLOO TOILET BLOCK  Bill No. 14  Paintwork			R	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

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	Carried to Final Summary		R	
	Section No. 4 10 SEATS ENVIROLOO TOILET BLOCK			

Item No		Quantity	Rate	Amount
	SECTION NO. 5			
	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			
	<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.			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
5/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	55		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
5/1/2	Trenches	m3	18		
5/1/3	Holes	m3	20		
	Extra over excavations in earth to trenches and holes for				
5/1/4	Excavation in soft rock	m3	4		
5/1/5	Excavation in hard rock	m3	2		
	Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density				
5/1/6	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc 500mm away from excavated face	m2	27		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
5/1/7	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	30		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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				
5/1/8	Trenches and holes	m2	78		
	KEEPING EXCAVATIONS FREE FROM WATER				
5/1/9	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				
5/1/10	Backfilling to trenches, holes, etc	m3	9		
5/1/11	Under floors, steps, pavings, etc	m3	23		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
5/1/12	Backfilling to trenches, holes, etc	m3	3		
5/1/13	Under floors, steps, pavings, etc	m3	3		
	Filling supplied by the Contractor under floors, trenches, etc.				
5/1/14	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	4		
	COMPACTION OF SURFACES				
5/1/15	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	59		
	Carried Forward			R	_
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks			K	

	Brought Forward			R	Π
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
5/1/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	49		
5/1/17	To bottom and sides of excavated trenches, Holes, etc.	m2	106		
	Carried Forward to Summary of Section No. Section No. 5			R	
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 1 Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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. 5 4 SEATER ENVIROLOO TOILET BLOCK 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.		
uniess 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.		
Panels shall be as large as practicable and arranged in a regular pattern as a feature of the		
surface		
· Formwork tie holes: to the approval of the		
architect		
Repair imperfections: not allowed. Tie bolt holes		
shall be patched		
Not permitted: blowholes, small fins, bulges,		
irregularities, voids, honeycombing, segregation		
and other large defects.		
Concrete surfaces: No further treatment to form		
a smooth finish of uniform texture, appearance		
and colour		
Structural Concrete		
Tondororo are referred to the Structural Engineer's		
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. 5		
4 SEATER ENVIROLOO TOILET BLOCK		
Bill No. 2		
Concrete, Formwork and Reinforcement		
Consiste, Forthwork and Romoroomork		

	Brought Forward			R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
5/2/1	Blinding	m3	1		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
5/2/2	Strip footings	m3	4		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
5/2/3	Concrete Apron cast to fall etc,	m3	2		
	25MPa/19mm Concrete				
5/2/4	Surface beds cast in panels	m3	4		
5/2/5	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)				
5/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5		
					<u> </u>
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	Τ
	SUNDRIES TO CONCRETE				
	Surface treatment				
5/2/7	Power float top surface of concrete surface bed to a true and even level finish	m2	60		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
5/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	69		
	Rough formwork to soffits				
5/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	10		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
5/2/10	10mm soft board or similar approved between concrete and brick wall	m	34		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
5/2/11	All diameter bars	t	0.4		
	Fabric reinforcement:				
5/2/12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
					$\vdash$
	Carried Forward to Summary of Section No.			R	<u> </u>
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

n		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. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3 Masonry		K	

Brought Forward			R		
<u>Pointing</u>					
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					
One brick wall	m2	19			
SUPERSTRUCTURE BRICKWORK					
Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints					
One brick wall	m2	104			
Half brick wall	m2	11			
Half brick wall, in beamfilling	m2	6			
Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond					
340 x 230mm Brick Piers	m3	0.5			
360 x 230mm Brick Piers	m3	0.5			
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					
Extra over brickwork for face brickwork in foundations (Provisional)	m2	38			
Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3 Masonry			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  One brick wall  SUPERSTRUCTURE BRICKWORK  Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints  One brick wall  Half brick wall  Half brick wall  Half brick wall, in beamfilling  Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond  340 x 230mm Brick Piers  360 x 230mm Brick Piers  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  Extra over brickwork for face brickwork in foundations (Provisional)  Carried Forward Section No. 5  4 SEATER ENVIROLOO TOILET BLOCK	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  One brick wall m/2  SUPERSTRUCTURE BRICKWORK  Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints  One brick wall m/2  Half brick wall m/2  Half brick wall, in beamfilling m/2  Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond  340 x 230mm Brick Piers m/3  360 x 230mm Brick Piers m/3  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  Extra over brickwork for face brickwork in foundations (Provisional)  Carried Forward  Section No. 5  4 SEATER ENVIROLOO TOILET BLOCK  Bill No. 3	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  One brick wall m2 19  SUPERSTRUCTURE BRICKWORK  Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints  One brick wall m2 11  Half brick wall m2 11  Half brick wall, in beamfilling m2 6  Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond  340 x 230mm Brick Piers m3 0.5  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  Extra over brickwork for face brickwork in foundations (Provisional) m2 38  Carried Forward  Section No. 5  4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3	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  One brick wall mz 19  SUPERSTRUCTURE BRICKWORK  Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints  One brick wall mz 104  Half brick wall, in beamfilling mz 6  Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints  One brick wall, in beamfilling mz 6  Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond 340 x 230mm Brick Piers m3 0.5  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  Extra over brickwork for face brickwork in foundations (Provisional) m2 38  Carried Forward R  Section No. 5  4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3	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  One brick wall

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward			R	
5/3/8	Extra over brickwork for face brickwork in superstructure	m2	86		
5/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	4		
5/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	2		
5/3/11	Extra over brickwork for face brickwork to piers	m2	13		
5/3/12	Extra over brickwork for face brickwork in beamfilling	m2	6		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
5/3/13	75mm Wide reinforcement built in horizontally	m	33		
5/3/14	150mm Wide reinforcement built in horizontally.	m	422		
	"Allied concrete" or similar approved prestressed fabricated lintels				
5/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	3		
5/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	12		
	Turning pieces				
5/3/17	110mm Wide turning piece to flat brick lintels	m	11		
	Air bricks etc				
5/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	2		
	Roof ties				
5/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	19		
				_	
	Carried Forward Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 3			R	
	Masonry				

	Brought Forward		R		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
5/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	4			
	Carried Forward to Summary of Section No.		R		
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK				
	Bill No. 3 Masonry				
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Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
5/4/1	Under walls	m2	1		
5/4/2	Under cills, etc.	m2	0.5		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
5/4/3	Under surface beds.	m2	49		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
5/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	34		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 4				

ltem No		Qı	uantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
5/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	40		
5/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	6		
5/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	10		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 5				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
5/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	40		
	Carried Forward to Summary of Section No.		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK			<del></del>
	Bill No. 5 Roof Coverings			

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	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. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 6 Corports, and Jainers			
	Carpentry and Joinery			

Brought Forward	R	
<u>Descriptions</u>		
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. 5 4 SEATER ENVIROLOO 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				
5/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	34		
	Sawn softwood				
5/6/2	38 x 114mm Wall plates	m	23		
	<u>Sundries</u>				
5/6/3	Two coats creosote on sawn timbers	m2	9		
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
5/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	23		
	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				
5/6/5	813 x 2032mm single door	No	6		
5/6/6	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
5/6/7	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	2		
	Carried Forward to Summary of Section No. Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 6 Carpentry and Joinery			R	

m o		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Fixing			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward		R	-
	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			
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications			
5/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	17		
	CORNICES			
	Similar Approved			
	"Rhino" plasterboard cornice			
5/7/2	75mm Coved cornice, plugged to brickwork	38		
	Carried Forward		R	_
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
5/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	4		
	CEILING INSULATION				
	<u>Insulation</u>				
5/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	17		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring				

m o		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 8			
	Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates  The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
5/8/1	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	4		
	Locks				
5/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	4		
5/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	2		
5/8/4	SC 150mm Cabin hook (Code: CH 150)	No	2		
5/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	4.0		
	Carried Forward			R	_
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			K	

	Brought Forward			R	
	Kick and push plates				
5/8/6	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	12		
5/8/7	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	4		
	Panic hardware				
5/8/8	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	2.0		
5/8/9	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	2		
	<u>Sundries</u>				
5/8/10	Male / Female fixing screws (Qty 4 per pack)	Sets	4.0		
5/8/11	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	4		
	SUNDRIES				
	Approved				
5/8/12	"CZ8730SC" Door stop or similarly approved to wall or floors	No	20		
	Carried Forward to Summary of Section No. Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 8 Ironmongery			R	

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brough	nt Forward	R	
<u>Actuators</u>			
All rates for shopfronts with actuators to include supply and installation of actuators as specified			
Scaffolding			
All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.			
<u>Protection</u>			
With this tender, the glazing sub-contractor mu a statement concerning protection that will be p to finishes and components until Practical Com This to include specific references to the metho removal of such protection. All tenderers to include cost of protection in ten	provided pletion. od of		
<u>Installation</u>			
All measurements to be checked on site prior to ordering and manufacturing.	0		
Aluminium sections and shop drawings to be a by Architect prior to manufacturing.	ccepted		
Allow for water and weather proof polysulphide to approved specifications all around frame jun plaster and other materials.			
<u>Profiles</u>			
Tenderers to provide typical details of proposed aluminium section to be used in the design.	d e		
Structural Silicone			
Tenderers to allow a 10 year guarantee on all powdercoating.			
Preliminary and Shop Drawings:			
The contractor shall submit preliminary design showing basic system sections for the Architec approval.			
Carrie	d Forward	R	
Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

Brough	t Forward	R	1
After approval and prior to fabrication detailed s drawings shall be prepared and submitted to the Architect for approval.	hop		
Fixing:			
The contractor is to take special note of all fixing of all aluminium elements and must allow in his properly securing the aluminium sections to the with and including all necessary steel brackets, timber grounds and sub-frames, including all ne holing and bolting, etc. This fixing is to be adequispaced and securely fixed to ensure total stiffned door frames, windows, etc. as no sagging causi improper functioning of the windows and doors accepted.	price for structure rails, ocessary uately ess of the ng		
<u>Deflection of structure:</u>			
The contractor is advised to make adequate profor the design deflection of the structure.	ovision		
Tolerances:			
Sizes are approximate only and measurements must be taken before fabrication. Due allowance be made for tolerances in accordance with the Architect's details.			
Protection:			
The contractor will be required to protect his wo the course of construction, which protection sha adequate for the purpose and to the full approva Architect.	ıll be		
Such protection shall only be removed after a winstruction from the Architect.	ritten		
Cleaning:			
All work must be cleaned down upon completion Glazing as installed will not be accepted as clear and the contractor must allow for polishing glass when instructed by the Architect.	an glass		
Note: All windows and doors should be read in conjunction with window and door schedules			
Carried	d Forward	R	
Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork			

	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				
5/9/1	Steel gate to door, size 813mm x 2032mm high	No	2		
	PRESSED STEEL DOOR FRAMES				
	1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
5/9/2	813 x 2032mm single door	No	4		
	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				
5/9/3	914 x 2032mm single door	No	2		
	Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification				
5/9/4	Window size 533 x 950mm high	No	4		
	Carried Forward to Summary of Section No. Section No. 5			R	<u> </u>
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 9 Metalwork				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
5/10/1	30mm Thick on floors and landings	m2	27		
5/10/2	30mm Thick to falls and currents	m2	3		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
5/10/3	On brick walls	m2	94		
5/10/4	On narrow widths	m2	9		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
5/10/5	Aluminium straight edge M-trim suitable for under- screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 10 Plastering				

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<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. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 11 Tiling			

	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				
5/11/1	Plastered walls	m2	56		
5/11/2	On narrow widths	m2	6		
5/11/3	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				
5/11/4	On floors	m2	29		
5/11/5	75mm high skirting	m	73		
	ATTIC STOCK				
5/11/6	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	6		
5/11/7	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			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 11 Tiling				

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

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK 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>				
5/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	23		
5/12/2	Extra over eaves gutter for stopped end	No	8		
5/12/3	Extra over eaves gutter for corner	No	17		
5/12/4	Extra over eaves gutter for outlet	No	4		
	Rainwater downpipes				
5/12/5	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	14		
5/12/6	Extra over downpipe for offset	No	8		
5/12/7	Extra over downpipe for shoe	No	4		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	Π
	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				
5/12/8	WHB, installed complete	No	2		
	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				
5/12/9	WC, installed complete	No	4		
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
5/12/10	32mm Basin waste union	No	2		
	TOILET ROLL HOLDER				
	To be approved by Architect				
5/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to				
	walls	No	4		
	0				_
	Carried Forward Section No. 5			R	
	4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage				
	I	I	ı	ı II	I

SOAP DISPENSER  To be approved by Architect  110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall  PAPER TOWEL DISPENSER  To be approved by Architect  5/12/13  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  5/12/14  15mm Cobra brass watertight hose Bib tap (Code: 108-15)  No 2  TESTING  5/12/15  Testing water pipe system  BUDGETARY ALLOWANCE  5/12/16  Allow an amount of R107 400.00 (One Hundred and	
5/12/12 110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall No 1  PAPER TOWEL DISPENSER  To be approved by Architect  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  5/12/14 15mm Cobra brass watertight hose Bib tap (Code: 108-15) No 2  TESTING  Testing water pipe system Item  BUDGETARY ALLOWANCE	
White and transparent), with lever button and pump, plugged and screwed to wall  PAPER TOWEL DISPENSER  To be approved by Architect  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  5/12/14 15mm Cobra brass watertight hose Bib tap (Code: 108-15) No 2  TESTING  Testing water pipe system Item  BUDGETARY ALLOWANCE	
To be approved by Architect  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  15mm Cobra brass watertight hose Bib tap (Code: 108-15)  No 2  TESTING  Testing water pipe system  BUDGETARY ALLOWANCE	
5/12/13 360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall  TAPS, VALVES, ETC  Similar Approved  15mm Cobra brass watertight hose Bib tap (Code: 108-15)  No 2  TESTING  Testing water pipe system  BUDGETARY ALLOWANCE	
plastic Paper towel dispenser (Colour: White), plugged and screwed to wall  No 1  TAPS, VALVES, ETC  Similar Approved  15/12/14 15mm Cobra brass watertight hose Bib tap (Code: 108-15) No 2  TESTING  Testing water pipe system Item  BUDGETARY ALLOWANCE	
Similar Approved  15mm Cobra brass watertight hose Bib tap (Code: 108- 15) No 2  TESTING  Testing water pipe system  BUDGETARY ALLOWANCE	
5/12/14 15mm Cobra brass watertight hose Bib tap (Code: 108- 15) No 2  TESTING  Testing water pipe system  BUDGETARY ALLOWANCE	
15) No 2  TESTING  Testing water pipe system  BUDGETARY ALLOWANCE	
Testing water pipe system  BUDGETARY ALLOWANCE	
BUDGETARY ALLOWANCE	
5/12/16 Allow an amount of R107 400 00 (One Hundred and	
Seven Thousand Four Hundred) for the supply and installation of Sanitary Fitting Sundries	107 400.00
5/12/17 Allow an amount of R200 000.00 (Two Hundred Thousand) for the supply and installation of Enviro-loo complete	200 000.00
Carried Forward to Summary of Section No.	
Carried Forward to Summary of Section No.  Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 12 Plumbing and Drainage	

Item No		Qu	antity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	6mm obscure floated glass fixed glazing putty				
5/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	2		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
5/13/2	Mirror 400 x 600 mm high	No	2		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 13				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
5/14/1	On internal ceilings and cornices	m2	21		
5/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	23		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
5/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	2		
	Carried Forward			R	

	Brought Forward			R	Π
	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				
5/14/4	Plastered walls	m2	94		
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
5/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	8		
5/14/6	On window frames	m2	2		
5/14/7	On door frames	m2	13		
5/14/8	On gutters	m	23		
5/14/9	On downpipes	m	14		
	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				
5/14/10	On door	m2	28		
	Prepare and paint three coats clear varnish:				
5/14/11	On door	m2	7		
	Carried Forward to Summary of Section No.			R	
	Section No. 5 4 SEATER ENVIROLOO TOILET BLOCK Bill No. 14 Paintwork			K	

	SECTION SUMMARY	1	1	<u> </u>
Bill No	SECTION SUMMARY	Page No		Amount
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	Carried to Final Summary		R	
	Section No. 5			
	4 SEATER ENVIROLOO TOILET BLOCK			

Item No		Quantity	Rate	Amount
	SECTION NO. 6			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	Filling			
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material			
	Excavations measured in successive depths of 2m.			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	
	SITE CLEARANCE ETC				
	Site clearance				
6/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	435		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
6/1/2	Trenches	m3	109		
	Extra over excavations in earth to trenches and holes for				
6/1/3	Excavation in soft rock	m3	11		
6/1/4	Excavation in hard rock	m3	5		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
6/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	62		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
6/1/6	Trenches and holes	m2	335		
	KEEPING EXCAVATIONS FREE FROM WATER				
6/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
6/1/8	Backfilling to trenches, holes, etc	m3	53		
6/1/9	Under floors, steps, pavings, etc	m3	237		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
6/1/10	Backfilling to trenches, holes, etc	m3	16		
6/1/11	Under floors, steps, pavings, etc	m3	46		
	Filling supplied by the Contractor under floors, trenches, etc.				
6/1/12	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				
6/1/13	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				
6/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	484		
6/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	444		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK BILL No. 1				
	Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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. 6 MEDIUM ADMINISTRATION BLOCK 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		
<ul> <li>finish:-</li> <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> <li>Structural Concrete</li> </ul>		
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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 2		
Concrete, Formwork and Reinforcement		

	Brought Forward			R	Τ
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15Mpa/19mm concrete				
6/2/1	Blinding	m3	5		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
6/2/2	Strip footings	m3	27		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
6/2/3	Concrete Apron cast to fall etc,	m3	18		
	25MPa/19mm Concrete				
6/2/4	Surface beds cast in panels	m3	40		
6/2/5	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)				
6/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	42		
					_
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
6/2/7	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				
6/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	277		
	Rough formwork to soffits				
6/2/9	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	5		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
6/2/10	3 x 30mm In saw cut joints in floors	m	19		
	Expansion joints				
6/2/11	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				
6/2/12	All diameter bars	t	2		
	Fabric reinforcement:				
6/2/13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	305		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK				
	Bill No. 2 Concrete, Formwork and Reinforcement				

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	MASONRY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			

	Brought Forward			R	Τ
	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				
6/3/1	One brick wall	m2	126		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
6/3/2	One brick wall	m2	377		
6/3/3	Half brick wall	m2	127		
6/3/4	Half brick wall, in beamfilling	m2	14		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
6/3/5	340 x 230mm Brick Piers	m3	1		
6/3/6	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				
6/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	252		
	Carried Forward Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			R	

	Brought Forward			R	-
6/3/8	Extra over brickwork for face brickwork in superstructure	m2	256		
6/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	41		
6/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	32		
6/3/11	Extra over brickwork for face brickwork to piers	m2	27		
6/3/12	Extra over brickwork for face brickwork in beamfilling	m2	14		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
6/3/13	75mm Wide reinforcement built in horizontally	m	374		
6/3/14	150mm Wide reinforcement built in horizontally.	m	1 857		
	"Allied concrete" or similar approved prestressed fabricated lintels				
6/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	43		
6/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	33		
	Turning pieces				
6/3/17	110mm Wide turning piece to flat brick lintels	m	57		
	Air bricks etc				
6/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Roof ties				
6/3/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	76		
	Carried Forward			R	_
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 3 Masonry			·	

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
6/3/20	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	18		
				_
	Carried Forward to Summary of Section No. Section No. 6		R	<u> </u>
	MEDIUM ADMINISTRATION BLOCK Bill No. 3			
	Masonry			

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
6/4/1	Under walls	m2	3		
6/4/2	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				
6/4/3	Under surface beds.	m2	484		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
6/4/4	3 x 30mm In saw cut joints in floors	m	19		
6/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	87		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 4				

Item No		(	Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
6/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	441		
6/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	25		
6/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	39		
6/5/4	550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc	m	9		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 5 Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
6/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	441		
	Carried Forward to Summary of Section No.		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 5			 
	Roof Coverings			

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery			

Brought Forward	R	
<u>Descriptions</u>		
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. 6 MEDIUM ADMINISTRATION 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				
6/6/1	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				
6/6/2	38 x 114mm Wall plates	m	92		
	<u>Sundries</u>				
6/6/3	Two coats creosote on sawn timbers	m2	34		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	_
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
6/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	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				
6/6/5	914 x 2032mm single door	No	11		
6/6/6	1500 x 2400mm double door	No	2		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
6/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	32		
				_	
	Carried Forward to Summary of Section No.  Section No. 6  MEDIUM ADMINISTRATION BLOCK  Bill No. 6  Carpentry and Joinery			R	_

em lo		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Fixing			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete			
	Ceilings & Bulkheads			
	Unless otherwise described ceilings shall be deemed to be horizontal			
	Steel components			
	All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	
	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				
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications				
6/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	284		
	CORNICES				
	"Rhino" plasterboard cornice				
6/7/2	75mm Coved cornice, plugged to brickwork	m	254		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring				
					l

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
6/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	CEILING INSULATION				
	<u>Insulation</u>				
6/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	284		
		1112	204		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
6/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)				
		Sets	2.0		
6/8/2	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		
	<u>Locks</u>				
6/8/3	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		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	_
6/8/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	11		
6/8/5	SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)	No	2		
6/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	11		
6/8/7	NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)	No	2		
6/8/8	SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)	No	2		
6/8/9	SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)	No	2		
6/8/10	SC 150mm Cabin hook (Code: CH 150)	No	4		
	Kick and push plates				
6/8/11	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		
6/8/12	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		
6/8/13	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		
6/8/14	Sundries  Male / Female fixing screws (Qty 4 per pack)	Sets	11.0		
6/8/15	NP floor mounted Door stop (Code: DDS-NP-018)	No	11.0		
0/0/13	NF floor flourited Door stop (Code, DD3-NF-016)	140			
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8 Ironmongery			R	

	Brought Forward			R	
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.				
	<u>Approved</u>				
6/8/16	White magnetic boards 3000mm x 1200mm high with aluminium frame plugged @ 1100mm above floor level on centre of the wall	No	5		
	SUNDRIES				
	<u>Approved</u>				
6/8/17	"CZ8730SC" Door stop or similarly approved to wall or floors	No	26		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 8				
	Ironmongery				

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	<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		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			

Brought Forward	g 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.		
<u>Protection</u>		
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.		
<u>Installation</u>		
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.		
<u>Profiles</u>		
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	a R	
Section No. 6 MEDIUM ADMINISTRATION BLOCK 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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
Tolerances:		
Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.		
Protection:		
The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.		
Such protection shall only be removed after a written instruction from the Architect.		
Cleaning:		
All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork		

		Brought Forward		R	
	WELDED SCREENS, GATES, ETC	<u>&gt;.</u>			
	Welded MS gate consisting of 50 x 5 rectangular tubing section frame with mitre at corners, bolted to reveals we rawlbolts and welded with 50 x 50 x to walls, with 50 x 50 x 2.5mm mild stube gate leaf with 45 degree mitre at two 50 x 50 x 2.5mm horizontal section 12mm mild steel vertical style solid solid 100mm c/c, including 3x pair of 20m bullet-hinges per gate, with "Solid ble four lever lockset with rebate set, including, holes, bolts etc., all complete architect's specifications	th 45 degrees ith 10mm (10M) 5mm mild steel steel rectangular it corners and ions, with 12 x square bars at m diameter lesbok" 460/313 cluding welding,			
6/9/1	Steel gate to door, size 1500mm x 240	0mm high No	2		
	PRESSED STEEL DOOR FRAMES	<u> </u>			
	1.2mm thick Single rebated frame subrick walls, complete with lugs and red oxide primer factory finish by ma	base ties, with			
6/9/2	914 x 2032mm single door	No	10		
	1.2mm thick Single rebated frame subrick walls, complete with lugs and red oxide primer factory finish by ma	base ties, with			
6/9/3	914 x 2032mm single door	No	1		
6/9/4	1500 x 2400mm double door	No	2		
		Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork				

		Brought Forward		R	
	STRONG ROOM DOORS ETC, SU 220MM WALLS FIXED TO BRICKS CONCRETE	ITABLE FOR			
	Similar Approved				
	DS-70mm SABS Category 2 ADM str 190mm thick and steel frame, 813 x including 8 bolts of 40 diameter-4 fro 2x7- lever security keylock, non-dete insulation material, rust proof under painting by contractors, weight- 630	2032mm ont and 4 back, eriorating coat for final			
6/9/5	Door size 813 x 2032mm	N	o 1		
	WINDOWS FRAMES, etc.				
	Standard mild steel school type Top window frame (with brass fittings), vocation opening and fixed sections, considerate mild steel round bars to standard at intersections and all as per architect's specification	vith burglar bars sting of 10mm andard NBP2			
6/9/6	Window size 1022 x 900mm high	N	0 3		
6/9/7	Window size 1022 x 949mm high	N	0 3		
6/9/8	Window size 2000 x 1170mm high	N	0 1		
6/9/9	Window size 533 x 950mm high	N	o 5		
6/9/10	Window size 1511 x 1170mm high	N	o 14		
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork	Carried Forward		R	

	Brought Forward			R	_
	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				
6/9/11	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.				
6/9/12	In Ceiling voids	m2	284		
	FLAG POST				
6/9/13	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. Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 9 Metalwork			R	_

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
6/10/1	30mm Thick on floors and landings	m2	581		
6/10/2	30mm Thick to falls and currents	m2	17		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
6/10/3	On brick walls	m2	692		
6/10/4	On narrow widths	m2	69		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
6/10/5	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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 10 Plastering				

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<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. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling			

	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				
6/11/1	Plastered walls	m2	162		
6/11/2	On narrow widths	m2	16		
6/11/3	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				
6/11/4	On floors	m2	408		
6/11/5	75mm high skirting	m	372		
	ATTIC STOCK				
6/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	16		
6/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	41		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 11 Tiling				

	Brought Forward		R	
	SUNDRIES			
	10mm aluminium straight edge trim			
6/11/8	Dividing strip between tiles and door frames m	9		
	Comical Formand to Comment of Continue N			
	Carried Forward to Summary of Section No. Section No. 6		R	<u> </u>
	MEDIUM ADMINISTRATION BLOCK Bill No. 11			
	Tiling			

Item No		Quantity	Rate	Amount
	SECTION NO. 6			
	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.			
	Carried Forward		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	T
	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				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	RAINWATER GOODS				
	Similar Approved				
	<u>Gutters</u>				
6/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	94		
6/12/2	Extra over eaves gutter for stopped end	No	22		
6/12/3	Extra over eaves gutter for corner	No	48		
6/12/4	Extra over eaves gutter for outlet	No	11		
	Rainwater downpipes				
6/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	38		
6/12/6	Extra over downpipe for offset	No	22		
6/12/7	Extra over downpipe for shoe	No	11		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage				

		Brought Forward		R	_
	WASH HAND BASINS				
	Similar Approved				
	Vaal Sanitaryware "Hibiscus" vitreou with three semi-punched holes tap hintegrated overflow, including chain through the centre semi-punched tay with plug and chain, hung to walls (R450.00/no excludes V.A.T. but inclusite), includes waste, supply and fixing	oles, including stay hole o hole, supplied PC allowance of ides delivery to			
6/12/8	WHB, installed complete	No	3		
	WATER CLOSET				
	Similar Approved				
	Vaal Sanitaryware "Daisy" semi-close closet comprising double flap heavy thermoplastic seat rim pan and materistern complete with lid, fitments are elbow (PC allowance of R2 800.00/nd V.A.T. but includes delivery to site), supply and fixing	duty ching 9 litre nd flush pipe o excludes			
6/12/9	WC, installed complete	No	2		
	SINKS, etc.				
	Stainless steel single bowl sink, size complete on and including integrated legs (PC allowance of R1500.00/no edut includes delivery to site), include and fixing	d supports and xcludes V.A.T.			
6/12/10	Stainless steel sink, complete.	No	1		
	Concrete double wash trough with o pedestals (PC allowance of R780.00/V.A.T. but includes delivery to site), supply and fixing	no excludes			
		Carried Forward		R	_
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12 Plumbing and Drainage	- 5			

	Brought Forward			R	
	TOILET ROLL HOLDER				
	To be approved by Architect				
6/12/11	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				
6/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	3		
6/12/13	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	1		
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
6/12/14	9kg dry chemical powder fire extinguisher	No	4		
6/12/15	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2		
	TESTING				
6/12/16	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
6/12/17	Allow an amount of R72 500.00 (Seventy Two Thousand Five Hundred) for the supply and installation of Sanitary Fitting Sundries		Item		72 500.00
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 12				
	Plumbing and Drainage				

Item No		Q	uantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
6/13/1	Panes not exceeding 0.1m2	m2	33		
	6mm obscure floated glass fixed glazing putty				
6/13/2	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				
6/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 13				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK ETC TO NEW WORK				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
6/14/1	On internal ceilings and cornices	m2	305		
6/14/2	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				
6/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	32		
	Carried Forward			R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK Bill No. 14				
	Paintwork				

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

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	SECTION SUMMARY			
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6/3	Masonry	6/11		
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6/7	Ceilings, Partitions and Access Flooring	6/21		
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	Carried to Final Summary		R	
	Section No. 6 MEDIUM ADMINISTRATION BLOCK			

ltem No		Quantity	Rate	Amount
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant in the Model Preambles for Trades (2008 Edition issued by the Association of South African Quan Surveyors before pricing this bill.	n) as		
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill shall equally apply to this Bill.	l No. 1,		
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equate to this Bill.	ally apply		
	<u>NOTES</u>			
	Carting away of excavated material			
	Descriptions of carting away of excavated mate be deemed to include loading excavated materi trucks directly from the excavations or, alternatifrom stock piles situated on the building site	al onto		
	Filling			
	Notwithstanding the reference to prescribed mu handling in clause 1 page 6 of the Standard Sys Measuring Building Work, prices for filling and be shall include for all selection and any multiple had for material	stem of packfilling		
	Excavations measured in successive depths of	2m.		
	Carried	d Forward	R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 1 Earthworks			

	Brought Forward			R	Γ
	SITE CLEARANCE ETC				
	Site clearance				
7/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	549		
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
7/1/2	Trenches	m3	141		
	Extra over excavations in earth to trenches and holes for				
7/1/3	Excavation in soft rock	m3	14		
7/1/4	Excavation in hard rock	m3	7		
	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.				
7/1/5	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	80		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
7/1/6	Trenches and holes	m2	441		
	KEEPING EXCAVATIONS FREE FROM WATER				
7/1/7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 1 Earthworks				

	Brought Forward			R	
	FILLING, ETC.				
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
7/1/8	Backfilling to trenches, holes, etc	m3	68		
7/1/9	Under floors, steps, pavings, etc	m3	265		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
7/1/10	Backfilling to trenches, holes, etc	m3	21		
7/1/11	Under floors, steps, pavings, etc	m3	58		
	Filling supplied by the Contractor under floors, trenches, etc.				
7/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	58		
	COMPACTION OF SURFACES				
7/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	496		
	WEED KILLERS, INSECTICIDES, TERMITES,				
	etc.				
	Protection against termites, ants, etc				
7/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	496		
7/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	582		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 1				
	Earthworks				

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	<u>PREAMBLES</u>			
	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 reuse. 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. 7 3 CLASSROOM GRADE R BLOCK 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:-		
<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>		
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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 2		
Concrete, Formwork and Reinforcement		

	Brough	nt Forward		R	
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equal to this Bill.	ally apply			
	UNREINFORCED CONCRETE CAST AGA EXCAVATED SURFACES	<u>AINST</u>			
	15Mpa/19mm concrete				
7/2/1	Blinding	m3	7		
	REINFORCED CONCRETE CAST AGAIN EXCAVATED SURFACE	<u>ST</u>			
	25MPa/19mm Concrete				
7/2/2	Strip footings	m3	35		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
7/2/3	Concrete Apron cast to fall etc,	m3	11		
	25MPa/19mm Concrete				
7/2/4	Surface beds cast in panels	m3	50		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to approved laboratory for testing, pay all charges submit report to the Regional Representative. Of successful tests will be paid for (Provisional)	and			
7/2/5	Making and testing 150 x 150 x 150mm concrestrength test cube (Provisional)	te No	47		
		d Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 2				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
7/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	496		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
7/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	215		
	MOVEMENTS JOINTS ETC,				
	Saw cuts Joints				
7/2/8	3 x 30mm In saw cut joints in floors	m	51		
	Expansion joints				
7/2/9	10mm soft board or similar approved between concrete and brick wall	m	107		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
7/2/10	All diameter bars	t	3		
	Fabric reinforcement:				
7/2/11	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	388		
	Carried Forward to Summary of Section No.			R	
	Section No. 7				+
	3 CLASSROOM GRADE R BLOCK Bill No. 2 Concrete Formwork and Reinforcement				
	Concrete, Formwork and Reinforcement				

em Io		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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 3 Masonry			

	Brought Forward			R	Τ
	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				
7/3/1	One brick wall	m2	165		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
7/3/2	One brick wall	m2	490		
7/3/3	Half brick wall	m2	97		
7/3/4	Half brick wall, in beamfilling	m2	17		
	Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond				
7/3/5	360 x 230mm Brick Piers	m3	4		
7/3/6	330 x 330mm Brick Piers	m3	6		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
7/3/7	Extra over brickwork for face brickwork in foundations (Provisional)	m2	331		
	Carried Forward  Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 3 Masonry			R	
	3 CLASSROOM GRADE R BLOCK Bill No. 3				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward			R	
7/3/8	Extra over brickwork for face brickwork in superstructure	m2	323		1
7/3/9	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	36		ĺ
7/3/10	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	30		
7/3/11	Extra over brickwork for face brickwork to piers	m2	120		ĺ
7/3/12	Extra over brickwork for face brickwork in beamfilling	m2	17		l
	BRICKWORK SUNDRIES				l
	Brickwork reinforcement				l
7/3/13	75mm Wide reinforcement built in horizontally	m	285		l
7/3/14	150mm Wide reinforcement built in horizontally.	m	2 463		l
	"Allied concrete" or similar approved prestressed fabricated lintels				ĺ
7/3/15	100 x 70mm Lintels in lengths not exceeding 3m	m	40		1
7/3/16	175 x 70mm Lintels in lengths not exceeding 3m	m	29		1
	<u>Turning pieces</u>				1
7/3/17	110mm Wide turning piece to flat brick lintels	m	51		ĺ
	Air bricks etc				1
7/3/18	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	8		1
	Fair cutting to face brickwork				l
7/3/19	Fair raking cutting at gables	m	116		1
	Roof ties				l
7/3/20	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	96		1
					<u>L</u>
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 3 Masonry				

	Brought Forward		R	
	MOVEMENTS JOINTS ETC,			
	Expansion joints			
7/3/21	30mm softboard between vertical brick surfaces not exceeding 300mm wide m2	23		
	_			
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK			
	Bill No. 3 Masonry			
		1		l

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
7/4/1	Under walls	m2	4		
7/4/2	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				
7/4/3	Under surface beds.	m2	496		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
7/4/4	3 x 30mm In saw cut joints in floors	m	51		
7/4/5	10mm Isolation Joints between surface bed concrete and brick wall	m	107		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 4				

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	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				
7/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	549		
7/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	41		
7/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	31		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 5 Roof Coverings				

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
7/5/4	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories m2	549		
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 5 Roof Coverings			
	· -···· <b>g</b> -			

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Joinery</u>			
	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.			
	<u>Fixing</u>			
	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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 6 Carpentry and Joinery			

Brought Forward	R	
<u>Descriptions</u>		
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. 7 3 CLASSROOM GRADE R 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				
7/6/1	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	458		
	Sawn softwood				
7/6/2	38 x 114mm Wall plates	m	115		
	<u>Sundries</u>				
7/6/3	Two coats creosote on sawn timbers	m2	42		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 6 Carpentry and Joinery				

	Brought Forward			R	Τ
	"Everite FC77" Fascia and badge boards				
7/6/4	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	116		
7/6/5	15 x 80 x 300mm fibre cement barge board	m	116		
	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				
7/6/6	813 x 2032mm single door	No	6		
7/6/7	914 x 2032mm single door	No	19		
	WINDOWS				
	"Nutec" fibre cement window cills				
7/6/8	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	30		
	Carried Forward to Summary of Section No.  Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 6 Carpentry and Joinery			R	_

m o		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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R		_
	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					
	6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications					
7/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	317			
	CORNICES					
	Similar Approved					
	"Rhino" plasterboard cornice					
7/7/2	75mm Coved cornice, plugged to brickwork	m	340			
	Camiad Famurand					
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 7 Ceilings, Partitions and Access Flooring			R		
		l		]	ı	

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
7/7/3	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	3		
	CEILING INSULATION				
	<u>Insulation</u>				
7/7/4	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	317		
		1112	017		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery			

	Brought Forward			R	
	Finishes to ironmongery				
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	Rates  The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
	DOOR FURNITURE				
	Similar Approved				
	<u>Handles</u>				
7/8/1	SS 325 x 25mm straight tubular pull handle with flange fixing (Code: DPH301B)	No	6		
7/8/2	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		
7/8/3	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	9		
	<u>Locks</u>				
7/8/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	9		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward			R	
7/8/5	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	9		
7/8/6	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	15		
7/8/7	SC 150mm Cabin hook (Code: CH 150)	No	6		
7/8/8	SS disabled WC indicator (red and white) and turnknob for the physically impaired (Code: DWC-006)	Sets	3.0		
7/8/9	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	6.0		
	Kick and push plates				
7/8/10	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	48		
7/8/11	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	6		
7/8/12	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	9		
	<u>Signage</u>				
7/8/13	SS 150 x 150mm "DISABLED PERSONS" sign (Code: DSS-133 P)	No	3		
	Panic hardware				
7/8/14	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	6.0		
7/8/15	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	6		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				

	Brought Forward			R	
	Door closers				
7/8/16	EN 2-4 parallel arm delayed action door closer, with push side fixing ( parallel arm bracket included) EN 2 750-850, EN3 850-950, EN4 950-1100 (Colour: Silver) (Code: TS73V PA DC + parallel arm bracket)	No	3		
7/8/17	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	9		
	<u>Sundries</u>				
7/8/18	Male / Female fixing screws (Qty 4 per pack)	Sets	15.0		
7/8/19	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	6		
7/8/20	NP floor mounted Door stop (Code: DDS-NP-018)	No	12		
	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				
7/8/21	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	3		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
7/8/22	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	6		
	SUNDRIES				
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery				

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	Brought Forward		R	
	<u>Approved</u>			
7/8/23	"CZ8730SC" Door stop or similarly approved to wall or floors No	26		
	Carried Forward to Summary of Section No.		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 8 Ironmongery			
				1

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 Metalwork			

Brought Forwa	r <b>d</b> 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.		
<u>Protection</u>		
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.		
<u>Profiles</u>		
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 Forwa	r <b>d</b> R	
Section No. 7 3 CLASSROOM GRADE R BLOCK 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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
<u>Tolerances:</u>		
Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.		
Protection:		
The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.		
Such protection shall only be removed after a written instruction from the Architect.		
Cleaning:		
All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.		
Note: All windows and doors should be read in conjunction with window and door schedules		
Carried Forward	R	
Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 Metalwork		

	Brought Forward			R	$\top$
	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				
7/9/1	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				
7/9/2	813 x 2032mm single door	No	6		
7/9/3	914 x 2032mm single door	No	9		
	1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer				
7/9/4	914 x 2032mm single door	No	10		
	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				
7/9/5	Window size 881 x 1240mm high	No	18		
7/9/6	Window size 881 x 820mm high	No	12		
7/9/7	Window size 534 x 648mm high	No	6		
	Carried Forward to Summary of Section No. Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 9 Metalwork			R	

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
7/10/1	30mm Thick on floors and landings	m2	260		
7/10/2	30mm Thick to falls and currents	m2	10		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
7/10/3	On brick walls	m2	744		
7/10/4	On narrow widths	m2	74		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
7/10/5	Aluminium straight edge M-trim suitable for under- screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.	m	150		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 10 Plastering				

n		Quantity	Rate	Amount
	BILL NO. 11			
	<u>TILING</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.			
	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. 7 3 CLASSROOM GRADE R BLOCK Bill No. 11 Tiling			

	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				
7/11/1	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				
7/11/2	On floors	m2	270		
7/11/3	75mm high skirting	m	234		
	ATTIC STOCK				
7/11/4	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	27		
	SUNDRIES				
	10mm aluminium straight edge trim				
7/11/5	Dividing strip between tiles and door frames	m	6		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 11 Tiling				

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK 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				
	<u>Gutters</u>				
7/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	116		
7/12/2	Extra over eaves gutter for stopped end	No	12		
7/12/3	Extra over eaves gutter for corner	No	50		
7/12/4	Extra over eaves gutter for outlet	No	12		
	Rainwater downpipes				
7/12/5	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		
7/12/6	Extra over downpipe for offset	No	24		
7/12/7	Extra over downpipe for shoe	No	12		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
					<del> </del>
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage			R	

	Brought Forward			R	
	WASH HAND BASINS				
	Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/8	WHB, installed complete	No	6		
	WATER CLOSET				
	Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/9	WC, installed complete	No	3		
	Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leg twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing				
7/12/10	Paraplegic WC, installed complete	No	3		
	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				
7/12/11	Stainless steel Sink, complete.	No	3		
	Carried Forward Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Prainage			R	
	Plumbing and Drainage				

	Brought Forward			R	
	CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)				
7/12/12	32mm Basin waste union	No	6		
7/12/13	38mm Sink waste union	No	3		
	TOILET ROLL HOLDER				
	To be approved by Architect				
7/12/14	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	3		
	SOAP DISPENSER				
	To be approved by Architect				
7/12/15	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	4		
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
7/12/16	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	4		
	TAPS, VALVES, ETC				
	Similar Approved				
7/12/17	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	3		
7/12/18	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	3		
	Carried Forward			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	FIRE FIGHTING EQUIPMENT				
	Extinguishers including initial charge and setting up in position:				
7/12/19	9kg dry chemical powder fire extinguisher	No	3		
7/12/20	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	3		
	TESTING				
7/12/21	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
7/12/22	Allow an amount of R170 000.00 (One Hundred and Seventy Thousand) for the supply and installation of Sanitary Fitting Sundries		Item		255 000.00
	Committed Formatted Committee of Control				
	Carried Forward to Summary of Section No. Section No. 7			R	
	3 CLASSROOM GRADE R BLOCK Bill No. 12 Plumbing and Drainage				
	Plumbing and Drainage				

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
7/13/1	Panes not exceeding 0.1m2	m2	28		
	6mm obscure floated glass fixed glazing putty				
7/13/2	Panes not exceeding 0.1m2	m2	2		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
7/13/3	Mirror 400 x 600 mm high	No	3		
	Carried Forward to Summary of Section No.			R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 13 Glazing			, ,	

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.	i			
	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.				
	FIBRE CEMENT				
	Prepare and apply one coat universal undercoat an two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect	<u>d</u>			
7/14/1	On internal ceilings and cornices	m2	345		
7/14/2	Fibre cement fascias boards not exceeding 300mm hig or wide painted on both side	h m	232		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
7/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	30		
	Carried Forwa	ard		R	
	Section No. 7 3 CLASSROOM GRADE R BLOCK Bill No. 14 Paintwork				

	Brought Forward			R	
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect				
7/14/4	Plastered walls	m2	744		
	METAL SURFACES				
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect				
7/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	28		
7/14/6	On window frames	m2	30		
7/14/7	On door frames	m2	32		
7/14/8	On gutters	m	116		
7/14/9	On downpipes	m	43		
	WOOD				
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect				
7/14/10	On door	m2	60		
	Prepare and paint three coats clear varnish:				
7/14/11	On door	m2	25		
	Ourist Francisco Control				<del> </del>
	Carried Forward to Summary of Section No.  Section No. 7  3 CLASSROOM GRADE R BLOCK  Bill No. 14  Paintwork			R	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

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	Carried to Final Summary		R	
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Item No		Quantity	Rate	Amount
	SECTION NO. 8			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	NOTES			
	Carting away of excavated material			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks			
	Laitiiwoiks			

	Brought Forward			R	
	EXCAVATIONS				
	Excavation in earth not exceeding 2m deep				
/1/1	Trenches	m3	37		
	Extra over excavations in earth to trenches and holes for				
1/2	Excavation in soft rock	m3	4		
1/3	Excavation in hard rock	m3	2		
	CARTING AWAY OF EXCAVATED MATERIAL				
	Note:				
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.				
1/4	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	22		
	RISK OF COLLAPSE OF EXCAVATIONS				
	Risk of collapse to side of excavation in earth not exceeding 1,5m deep				
1/5	Trenches and holes	m2	126		
	KEEPING EXCAVATIONS FREE FROM WATER				
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				
1/7	Backfilling to trenches, holes, etc	m3	17		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks				

	Brought Forward			R	
8/1/8	Under floors, steps, pavings, etc	m3	40		
	Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick				
8/1/9	Backfilling to trenches, holes, etc	m3	5		
8/1/10	Under floors, steps, pavings, etc	m3	7		
	Filling supplied by the Contractor under floors, trenches, etc.				
8/1/11	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	7		
	COMPACTION OF SURFACES				
8/1/12	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	88		
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
8/1/13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	88		
8/1/14	To bottom and sides of excavated trenches, Holes, etc.	m2	162		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 1 Earthworks				

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 reuse. 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 Section No. 8		R	
	4 SEATS WATERBORNE TOILET BLOCK X 2 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		
<ul> <li>finish:-</li> <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.		
Carried Forward	R	
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 2		
Concrete, Formwork and Reinforcement		

	Brought Forward			R	
	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				
8/2/1	Blinding	m3	2		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE				
	25MPa/19mm Concrete				
8/2/2	Strip footings	m3	9		
	REINFORCED CONCRETE CAST IN FORMWORK				
	20Mpa/19mm concrete				
8/2/3	Concrete Apron cast to fall etc,	m3	4		
	25MPa/19mm Concrete				
8/2/4	Surface beds cast in panels	m3	6		
	TEST BLOCKS				
	Notes:				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
8/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 2 Concrete, Formwork and Reinforcement				

	Brought Forward			R	$\prod$
	SUNDRIES TO CONCRETE	١			
	Surface treatment				
8/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	88		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
8/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	89		
	Rough formwork to soffits				
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
8/2/8	10mm soft board or similar approved between concrete and brick wall	m	45		
	REINFORCEMENT (PROVISIONAL)				
	High and mild tensile steel reinforcement to structural concrete work				
8/2/9	All diameter bars	t	1		
	Fabric reinforcement:				
8/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	44		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2				
	Bill No. 2 Concrete, Formwork and Reinforcement				

		Quantity	Rate	Amount
<u>B</u>	BILL NO. 3			
<u>M</u>	MASONRY			
<u>P</u>	REAMBLES			
in is:	OTE: The tenderer is referred to the relevant clauses the Model Preambles for Trades (2008 Edition) as sued by the Association of South African Quantity urveyors before pricing this bill.			
<u>s</u>	UPPLEMENTARY PREAMBLES			
	upplementary preamble items described in Bill No. 1, hall equally apply to this Bill.			
<u>G</u>	SENERAL NOTES TO TENDERERS			
	seneral notes, described in Bill No.1, shall equally apply this Bill.			
Si	izes in descriptions			
br	Where sizes in descriptions are given in brick units, "one rick" shall represent the length and "half brick" the ridth of a brick			
<u>H</u>	ollow walls etc			
le ex de in w	rescriptions of hollow walls shall be deemed to include eaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins escribed 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 poats "Brickseal" bitumen emulsion waterproofing poating.			
<u>F</u>	ace bricks			
	ricks shall be ordered timeously to obtain uniformity in ize and colour			
	Carried Forward		R	
4	ection No. 8 SEATS WATERBORNE TOILET BLOCK X 2 ill No. 3 lasonry			

	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				
8/3/1	One brick wall	m2	47		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
8/3/2	One brick wall	m2	149		
8/3/3	Half brick wall	m2	45		
8/3/4	Half brick wall, in beamfilling	m2	7		
	FACE BRICKWORK				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions				
8/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	94		
8/3/6	Extra over brickwork for face brickwork in superstructure	m2	127		
8/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	8		
					_
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3 Masonry				

	Brought Forward			R	_
8/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	8		
8/3/9	Extra over brickwork for face brickwork in beamfilling	m2	7		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
8/3/10	75mm Wide reinforcement built in horizontally	m	131		
8/3/11	150mm Wide reinforcement built in horizontally.	m	715		
	"Allied concrete" or similar approved prestressed fabricated lintels				
8/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	11		
8/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	10		
	<u>Turning pieces</u>				
8/3/14	110mm Wide turning piece to flat brick lintels	m	15		
	Air bricks etc				
8/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	4		
	Fair cutting to face brickwork				
8/3/16	Fair raking cutting at gables	m	46		
	Roof ties				
8/3/17	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	37		
	MOVEMENTS JOINTS ETC,				
	Expansion joints				
8/3/18	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	8		
					—
	Carried Forward to Summary of Section No. Section No. 8			R	_
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 3 Masonry				

Item No			Quantity	Rate	Amount
	BILL NO. 4				
	WATERPROOFING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	DAMP PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course				
8/4/1	Under walls	m2	1		
8/4/2	Under cills, etc.	m2	2		
	One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape				
8/4/3	Under surface beds.	m2	88		
	JOINTS SEALANTS, ETC.				
	Mastic grey polysulphide sealing compound including raking out of joints filler as necessary				
8/4/4	10mm Isolation Joints between surface bed concrete and brick wall	m	45		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 4				

ltem No		Qı	uantity	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				
8/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	74		
8/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	11		
8/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	20		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 5 Roof Coverings				

	Brought Forward			R	Π
	<u>LOUVRES</u>				
	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				
8/5/4	Steel triangular louvre, 1600 x 600mm high overall	No	4		
	ROOF AND WALL INSULATION				
	Similar Approved				
	Sisalation "Bubble Foil" aluminium foil binded insulation				
8/5/5	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2	74		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2				
	Bill No. 5 Roof Coverings				

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Joinery			
	Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
	Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
	<u>Fixing</u>			
	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. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 6 Carpentry and Joinery			
	Carpentry and Joinery			

Brought Forward	R	
<u>Descriptions</u>		
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.		
ROOFS, ETC		
Carried Forward	R	
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 6		
Carpentry and Joinery		

	Brought Forward			R	
	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				
8/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2	62		
	Sawn softwood				
8/6/2	38 x 114mm Wall plates	m	44		
	Sundries				
8/6/3	Two coats creosote on sawn timbers	m2	16		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 6				
	Carpentry and Joinery				

	Brought Forward			R	
	Similar Approved				
	"Everite FC77" Fascia and badge boards				
8/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	46		
8/6/5	15 x 80 x 300mm fibre cement barge board	m	46		
	DOORS ETC				
	44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames				
8/6/6	813 x 2023mm single door	No	8		
8/6/7	914 x 2032mm single door	No	4		
	WINDOWS				
	Similar Approved				
	"Nutec" fibre cement window cills				
8/6/8	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	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 6 Carpentry and Joinery				

1		Quantity	Rate	Amount
	BILL NO. 7			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	PREAMBLES PREAMBLES			
j	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	
4	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 7			
	Ceilings, Partitions and Access Flooring			

	Brought Forward			R	_
	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				
	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				
8/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	29		
	CORNICES				
	"Rhino" plasterboard cornice				
8/7/2	75mm Coved cornice, plugged to brickwork	m	31		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2			, K	
	Bill No. 7 Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	SUNDRIES				
	Extra over for Trap Doors				
8/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	CEILING INSULATION				
	Insulation				
8/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	29		
	Outstand F. 11 Co. 15 C			_	_
	Carried Forward to Summary of Section No. Section No. 8			R	<del> </del>
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 7 Callings Partitions and Access Flooring				
	Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery			

	Brought Forward			R	Τ
	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				
8/8/1	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	8		
	Locks				
8/8/2	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	8		
8/8/3	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	4		
8/8/4	SC 150mm Cabin hook (Code: CH 150)	No	4		
8/8/5	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	8.0		
	Carried Forward			R	_
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery			ĸ	

Kick and push plates					
SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	24			
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	8			
Panic hardware					
Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	4.0			
Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	4			
<u>Sundries</u>					
Male / Female fixing screws (Qty 4 per pack)	Sets	8.0			
SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	8			
SUNDRIES					
Approved					
"CZ8730SC" Door stop or similarly approved to wall or floors	No	8			
Carried Forward to Summary of Section No. Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 8 Ironmongery			R		
	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)  Panic hardware  Three point locking panic bar for single door (Code: PHA3/S DD)  Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)  Sundries  Male / Female fixing screws (Qty 4 per pack)  SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  SUNDRIES  Approved  "CZ8730SC" Door stop or similarly approved to wall or floors  Carried Forward to Summary of Section No. Section No. 8  4 SEATS WATERBORNE TOILET BLOCK X 2  Bill No. 8	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)  Panic hardware  Three point locking panic bar for single door (Code: PHA3/S DD)  Sets  Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)  No  Sundries  Male / Female fixing screws (Qty 4 per pack)  Sets  SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  No  SUNDRIES  Approved  "CZ8730SC" Door stop or similarly approved to wall or floors  No  Carried Forward to Summary of Section No.  Section No. 8  4 SEATS WATERBORNE TOILET BLOCK X 2  Bill No. 8	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)  Panic hardware  Three point locking panic bar for single door (Code: PHA3/S DD)  Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)  No  Sundries  Male / Female fixing screws (Qty 4 per pack)  Sets  SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  SUNDRIES  Approved  "CZ8730SC" Door stop or similarly approved to wall or floors  Carried Forward to Summary of Section No.  Section No. 8  4.0  Carried Forward to Summary of Section No.  Section No. 8  4.0  Carried Forward to Summary of Section No.  Section No. 8  4.0  Carried Forward to Summary of Section No.  Section No. 8  4.0  Carried Forward to Summary of Section No.	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)  Panic hardware  Three point locking panic bar for single door (Code: PHA3/S DD)  Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)  No  Sundries  Male / Female fixing screws (Qty 4 per pack)  Sets  Approved  "CZ8730SC" Door stop or similarly approved to wall or floors  Carried Forward to Summary of Section No.  R  Section No. 8  4 SEATS WATERBORNE TOILET BLOCK X 2  Bill No. 8  BILD RICK SALTS WATERBORNE TOILET BLOCK X 2  Bill No. 8	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)  Panic hardware  Three point locking panic bar for single door (Code: PHA3/S DD)  Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)  Sundries  Male / Female fixing screws (Qty 4 per pack)  Sets  SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  No  8  SUNDRIES  Approved  "C28730SC" Door stop or similarly approved to wall or floors  No  8  Carried Forward to Summary of Section No.  Section No. 8  Section No. 8  4  SEATS WATERBORNE TOILET BLOCK X 2  Bill No. 8

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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.		
<u>Protection</u>		
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.		
<u>Profiles</u>		
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.		
Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9 Metalwork	R	

	Brought Forward	F	<u> </u>
c	After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.		
<u> </u>	Fixing:		
C F V t t F S C	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, imber grounds and sub-frames, including all necessary noling 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 mproper functioning of the windows and doors will be accepted.		
<u> </u>	Deflection of structure:		
	The contractor is advised to make adequate provision for the design deflection of the structure.		
]	Tolerances:		
r	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.		
<u> </u>	Protection:		
t	The contractor will be required to protect his work during he 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 nstruction from the Architect.		
<u> </u>	Cleaning:		
( a	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	F	
4 E	Section No. 8 I SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9 Metalwork		

	Brought Forward			R		
	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					
8/9/1	813 x 2032mm single door	No	8			
	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					
8/9/2	914 x 2032mm single door	No	4			
	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					
8/9/3	Window size 1022 x 949mm high	No	8			
						_
	Carried Forward to Summary of Section No. Section No. 8			R		<u> </u>
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 9 Metalwork					
		ı			II .	1

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
8/10/1	30mm Thick on floors and landings	m2	67		
8/10/2	30mm Thick to falls and currents	m2	7		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
8/10/3	On brick walls	m2	231		
8/10/4	On narrow widths	m2	23		
	Carried Forward to Summary of Section No.  Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 10 Plastering			R	

Item No		Quantity	Rate	Amount
	BILL NO. 11			
	TILING			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Pricing			
	Prices are to included for the following: Cutting, handling, labour, adhesive etc.			
	<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.			
	Wastage			
	Tile wastage in excess of 10% will be for the tenderer's account.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 11 Tiling			

	Brought Forward			R	Τ
	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				
8/11/1	Plastered walls	m2	123		
8/11/2	On narrow widths	m2	12		
8/11/3	Splash backs	m2	3		
	FLOOR TILING				
	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementetious grout				
8/11/4	On floors	m2	73		
8/11/5	75mm high skirting	m	161		
	ATTIC STOCK				
8/11/6	150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	12		
8/11/7	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	7		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 11 Tiling				

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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>				
8/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	46		
8/12/2	Extra over eaves gutter for stopped end	No	16		
8/12/3	Extra over eaves gutter for corner	No	35		
8/12/4	Extra over eaves gutter for outlet	No	8		
	Rainwater downpipes				
8/12/5	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	m	28		
0/40/0	downpipes spaced as per engineer's specification	m			
8/12/6	Extra over downpipe for offset	No	16		
8/12/7	Extra over downpipe for shoe	No	8		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 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				
8/12/8	WHB, installed complete	No	8		
	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				
8/12/9	WC, installed complete	No	8		
	TOILET ROLL HOLDER				
	To be approved by Architect				
8/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	8		
	SOAP DISPENSER				
	To be approved by Architect				
8/12/11	110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall	No	3		
	Carried Forward			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	PAPER TOWEL DISPENSER				
	To be approved by Architect				
8/12/12	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				
8/12/13	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	8		
	TESTING				
8/12/14	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
8/12/15	Allow an amount of R107 380.80 (One Hundred and Seven Thousand Three Hundred and Eighty and Eighty) for the supply and installation of Sanitary Fitting Sundries		Item		107 380 80
	Carried Forward to Summary of Section No. Section No. 8			R	
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 12				
	Plumbing and Drainage				

Item No		Qu	antity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
3/13/1	Panes not exceeding 0.1m2	m2	8		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
3/13/2	Mirror 400 x 600 mm high	No	8		
	Carried Forward to Summary of Section No.			R	
	Section No. 8 4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 13				

tem 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	32		
/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	93		
	Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect				
/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	8		
	Carried Forward Section No. 8			R	
	4 SEATS WATERBORNE TOILET BLOCK X 2				

	Brought Forward			R		<u> </u>
	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					
8/14/4	Plastered walls	m2	231			
	METAL SURFACES					
	Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect					
8/14/5	On window frames	m2	8			
8/14/6	On door frames	m2	10			
8/14/7	On gutters	m	46			
8/14/8	On downpipes	m	28			
	WOOD					
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect					
8/14/9	On door	m2	30			
	Carried Forward to Summary of Section No. Section No. 8			R		<b>—</b>
	4 SEATS WATERBORNE TOILET BLOCK X 2 Bill No. 14 Paintwork					
			I	II	l	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	SECTION SUMMARY		<u> </u>	
Bill No	<u>DESTION COMMENT.</u>	Page No		Amount
8/1	Earthworks	8/3		
8/2	Concrete, Formwork and Reinforcement	8/7		
8/3	Masonry	8/10		
8/4	Waterproofing	8/11		
8/5	Roof Coverings	8/13		
8/6	Carpentry and Joinery	8/17		
8/7	Ceilings, Partitions and Access Flooring	8/20		
8/8	Ironmongery	8/23		
8/9	Metalwork	8/27		
8/10	Plastering	8/28		
8/11	Tiling	8/30		
8/12	Plumbing and Drainage	8/34		
8/13	Glazing	8/35		
8/14	Paintwork	8/37		
	<b>a</b>		_	
	Carried to Final Summary Section No. 8		R	
	4 SEATS WATERBORNE TOILET BLOCK X 2			

Item No		Quantity	Rate	Amount
	SECTION NO. 9			
	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			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations			

	Brought Forward	R	
<u>Testing</u>			
Prices for filling are to include for tests in accordance with SABS 12			
Existing structures			
In taking down and removing exist care shall be taken to prevent any damage to the remaining portions the Contractor shall provide all she strutting, etc. to ensure the stabilit during the alteration work, Any da and/or building as well as the rectibe for the contractor's account	on the building and boring, needling, y of all structures mage to the structure		
Services			
Special care shall be exercised duthe work to ensure that electrical i supply pipes, telephone and other be encountered are not interfered be given to the Representative/Ag disconnection or alterations become	nstallation, water services which may with and notice shall ent if any		
Dust and noise			
The Contractor is to take all necess the satisfaction of the Representation any nuisance from the dust and /o out the work.	tive/Agent to prevent		
Disposal of debris			
The Contractor shall be responsib site of all materials, debris and rule the work which removal is deemed rates unless otherwise stated.	obish resulting from		
Rates for taking out and removing shall include for removing door sto and making good floor and wall fir existing	pps, cabin hooks, etc		
Making good of finishes shall inclute the brick and concrete surfaces or finishes are applied, where necess	nto which the new		
	Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOF Bill No. 1			

Temporary support to openings through existing		11
<u>walls</u>		
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.		
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		
Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO		

	Brought Forward			R	_
	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.				
	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				
9/1/1	Single storey brick and mortar classroom block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	668		
9/1/2	Single storey brick and mortar ablution block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	115		
	Breaking up/demolishing and removal of walls, slabs, surface beds etc				
9/1/3	100mm thick concrete aprons	m2	258		
9/1/4	25mm thick concrete screed	m2	95		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations				

	Brought Forward			R	
	Taking out and removing glass and mirrors				
9/1/5	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	148		
	Taking up and removing floor coverings carpeting, tiles etc				
9/1/6	Vinyl tile floor covering including preparing screed for new tile flooring	m2	633		
	Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)				
9/1/7	813mm x 2032mm high timber door including ironmongery etc.	No	48		
	Taking out and removing ironmongery				
9/1/8	Remove pinning board and make good wall finishes	No	24		
9/1/9	Remove green chalk board and make good wall finishes	No	12		
9/1/10	Remove brass sliding stays, peg stay, handles window ironmongery	No	288		
	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)				
9/1/11	Remove wash trough including all fittings and make good wall and floor finishes	No	12		
9/1/12	Remove water closet with cistern and make good wall and floor finishes	No	24		
9/1/13	Remove wash hand basin and make good wall finishes	No	12		
	Taking out and removing sundry joinery work				
9/1/14	Timber skirting from brickwork	m	349		
	Taking out and removing metalwork				
9/1/15	Security gate including framing bolted to brickwork and making good mortar joints between face brickwork	No	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 1 Demolitions and Alterations			К	

	Brought Forward			R	
	Taking out and removing roof coverings, roof accessories and rainwater disposal fittings				
9/1/16	Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.	m2	1 019		
9/1/17	Remove steel gutters, keeping barge boards intact	m	33		
9/1/18	Remove fascia board	m	143		
	Repairing cracks				
9/1/19	On plastered brick walls	m2	42		
	MAKING GOOD OF FINISHES ETC				
	Making good plaster				
9/1/20	Wall plaster in patches	m2	30		
	Face bricks				
9/1/21	Clean and treat face bricks with approved oxidation preventative solution	m2	1 153		
	REPAIR/MAINTAIN OF EXISTING WORK				
	Enviro-loos				
9/1/22	Clean Enviro-loo septic tank and replace ventilation system		Item		
					_
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO				
	Bill No. 1 Demolitions and Alterations				

Item No		C	Quantity	Rate	Amount
	BILL NO. 2				
	EARTHWORKS (PROVISIONAL)				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	NOTES				
	Carting away of excavated material				
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
	Filling				
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
	EXCAVATION OTHER THAN BULK, ETC				
	Excavation in earth not exceeding 2m deep				
9/2/1	Trenches	m3	34		
9/2/2	Holes	m3	38		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks				

	Brought Forward			R	
	Extra over trench and hole excavations in earth for				
0/0/0	excavation in	0	<b>-</b> ,		
9/2/3	Soft rock	m3	7		
9/2/4	Hard rock	m3	4		
	Extra over all excavations for carting away				
9/2/5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	71		
	Risk of collapse of excavations				
9/2/6	Sides of trench excavations not exceeding 1.5m deep	m2	96		
	Keeping excavations free of water				
9/2/7	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				
9/2/8	Under floors, steps, pavings, etc	m3	11		
	Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density				
9/2/9	Under floors, steps, pavings, etc	m3	20		
	COMPACTION OF SURFACES				
	Prepare ground surface by scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and recompacting to 90% modified AASHTO density				
9/2/10	Under floors, steps, paving, etc	m2	368		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks				

	Brought Forward			R	Π
	WEED KILLERS, INSECTICIDES, TERMITES, etc.				
	Protection against termites, ants, etc				
9/2/11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	368		
9/2/12	Weedkiller: To bottoms and sides of trenches etc.	m2	164		
	Carried Forward to Summary of Section No. Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 2 Earthworks			R	

Item No		Quantity	Rate	Amount
	BILL NO. 3			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)			
	<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 reuse. 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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3 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:-		
<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.		
Carried Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3		
Concrete, Formwork and Reinforcement		

	Brought Forward			R	_
	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				
9/3/1	15 MPa unreinforced exc surfaces: Blinding	m3	5		
	20MPa/19mm concrete				
9/3/2	Footings	m3	37		
9/3/3	Concrete apron, cast to falls	m3	26		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm Concrete				
9/3/4	Ramps	m3	22		
	30MPa/19mm concrete				
9/3/5	Surface beds	m3	4		
	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)				
9/3/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	35		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3				
	Concrete, Formwork and Reinforcement				

	Brought Forward			R	
	SUNDRIES TO CONCRETE				
	Surface treatment				
9/3/7	Power float top surface of concrete surface bed to a true and even level finish	m2	345		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
9/3/8	Sloping sides of ramps not exceeding 600mm high extreme	m2	58		
9/3/9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	258		
	EXPANSION JOINTS				
	Similar Approved				
	Expansion joints with 10mm polystyrene between vertical concrete surfaces				
9/3/10	Not exceeding 300mm high to edges of slabs	m	258		
	REINFORCEMENT				
	High tensile steel reinforcement				
9/3/11	All diameter bars	t	0.33		
	Fabric reinforcement				
9/3/12	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	38		
	Carried Forward to Summary of Section No.			R	
	Section No. 9			, K	+
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 3 Concrete, Formwork and Reinforcement				
	Consiste, Formwork and Neimorcement				

m o		Quantity	Rate	Amount
	BILL NO. 4			
	MASONRY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Sizes in descriptions			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.			
	Face bricks			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 4 Masonry		R	

	Brought Forward			R	
	<u>Pointing</u>				
	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 of NFX bricks (14MPa nominal compressive strength) in class I mortar				
9/4/1	One brick wall	m2	59		
	SUPERSTRUCTURE BRICKWORK				
	Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints				
9/4/2	One brick wall	m2	1 303		
9/4/3	Half brick wall	m2	110		
	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				
9/4/4	both directions  Extra over brickwork for face brickwork in superstructure	m2	1 481		
9/4/5	Extra over brickwork for face brickwork in brick-on-edge				
3/4/0	header coping	m	96		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
9/4/6	75mm wide reinforcement built in horizontally	m	324		
9/4/7	150mm wide reinforcement built in horizontally.	m	4 008		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 4 Masonry				

Item No			Quantity	Rate	Amount
	BILL NO. 5				
	ROOF COVERINGS				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	ROOF SHEETING				
	Similar Approved				
	0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer				
9/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	1 325		
9/5/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	96		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 5 Roof Coverings			, iv	

	Brought Forward		R	
	ROOF AND WALL INSULATION			
	Similar Approved			
	Sisalation "Bubble Foil" aluminium foil binded insulation			
9/5/3	135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories	m2 1	325	
	Carried Forward to Summary of Section No. Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO		R	
	Bill No. 5 Roof Coverings			

Item No		Quantity	Rate	Amount
	BILL NO. 6			
	CARPENTRY AND JOINERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>Joinery</u>			
	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.			
	<u>Fixing</u>			
	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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 6 Carpentry and Joinery			

Brought Forward	R	
<u>Descriptions</u>		
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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 6		
Carpentry and Joinery		

	Brought Forward	I		R	
	ROOFS, ETC				
	Similar Approved				
	Roof trusses				
9/6/1	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	1 019		
	"Everite FC77" fascia and barge boards				
9/6/2	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	336		
9/6/3	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	70		
	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				
9/6/4	813 x 2032mm single door	No	24		
9/6/5	914 x 2032mm single door	No	24		
	Carried Forward to Summary of Section No. Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO			R	
	Bill No. 6 Carpentry and Joinery				

BILL NO. 7 CEILINGS, PARTITIONS AND ACCESS FLOORING PREAMBLES			
LOORING			
PREAMBLES			
IOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as assued by the Association of South African Quantity Surveyors before pricing this bill.			
SUPPLEMENTARY PREAMBLES			
Supplementary preamble items described in Bill No. 1, hall equally apply to this bill.			
SENERAL NOTES TO TENDERERS			
General notes, described in Bill No.1, shall equally apply this Bill.			
<u>'ixing</u>			
nems described as "plugged" shall be deemed to not not not not not not not not not			
rems 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			
Inless otherwise described ceilings shall be deemed to e horizontal			
steel components			
all steel components for ceilings, partitions, etc are to be alvanised in accordance with SANS 121			
Carried Forward		R	
ection No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO			
be evidence of the second of t	colted", the bolts have been given elsewhere.  Ims described as "nailed" shall be deemed to be fixed th hardened steel nails or pins, or to be shot-pinned, brickwork or concrete  Islings & Bulkheads  Isless otherwise described ceilings shall be deemed to horizontal  Indeed components  Indeed components  Indeed components for ceilings, partitions, etc are to be livanised in accordance with SANS 121   Carried Forward action No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)	conted", the bolts have been given elsewhere.  Ims described as "nailed" shall be deemed to be fixed the hardened steel nails or pins, or to be shot-pinned, brickwork or concrete  Islings & Bulkheads  Inless otherwise described ceilings shall be deemed to horizontal  Inless otherwise described ceilings, partitions, etc are to be livanised in accordance with SANS 121  Carried Forward  Incition No. 9  INOVATIONS (12 CLASSROOMS AND 24 WATERBO INO. 7	conted", the bolts have been given elsewhere.  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 19  Ender shall be deemed to be fixed the hardened steel nails or pins, or to be shot-pinned, brickwork or concrete  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9  ENOVATIONS (12 CLASSROOMS AND 24 WATERBO)  In section No. 9

	Brought Forward			R	
	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				
	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				
9/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	1 747		
9/7/2	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	12		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 7				
	Ceilings, Partitions and Access Flooring				

	Brought Forward			R	
	CORNICES				
	Similar Approved				
	"Rhino" plasterboard cornice				
9/7/3	75mm Coved cornice, plugged to brickwork	m	583		
	CEILING INSULATION				
	Insulation				
9/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	1 747		
	Comind Famound to Comment of Contine			5	
	Carried Forward to Summary of Section No. Section No. 9			R	<del> </del>
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 7 Ceilings, Partitions and Access Flooring				

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	IRONMONGERY			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.			
	Proprietary items			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery			

	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				
9/8/1	2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations	No	24		
	Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray				
9/8/2	2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations	No	24		
	Carried Forward Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery			R	
	Ironmongery				

	Brought Forward			R	T
	DOOR FURNITURE	١			
	Similar Approved				
	<u>Handles</u>				
9/8/3	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	24		
	<u>Locks</u>				
9/8/4	SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)	No	24		
9/8/5	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	24		
9/8/6	SC 150mm Cabin hook (Code: CH 150)	No	24		
9/8/7	SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)	Sets	24.0		
	Kick and push plates				
9/8/8	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	96		
9/8/9	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	24		
					<u></u>
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery				

	Brought Forward			R	Π
	<u>Signage</u>				
	Panic hardware				
9/8/10	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	24.0		
9/8/11	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	24		
	<u>Door closers</u>				
	<u>Sundries</u>				
9/8/12	Male / Female fixing screws (Qty 4 per pack)	Sets	24.0		
9/8/13	SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)	No	24		
	WINDOW FURNITURE				
	Similar Approved				
9/8/14	Brass spring catch	No	48		
9/8/15	Brass peg stay	No	120		
9/8/16	Brass handle	No	120		
					<u> </u>
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 8 Ironmongery				

Item No		Quantity	Rate	Amount
	BILL NO. 9			
	METALWORK			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	GENERAL NOTES TO TENDERERS			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	ALUMINIUM			
	The contractor is to make due allowance in his prices for complying with the following requirements.			
	SPECIFICATIONS			
	User Note:			
	Glazing			
	All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.			
	Ironmongery			
	All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 9 Metalwork			

Broug	ght Forward	R	
<u>Actuators</u>			
All rates for shopfronts with actuators to include supply and installation of actuators as specified			
Scaffolding			
All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.			
<u>Protection</u>			
With this tender, the glazing sub-contractor magnetic statement concerning protection that will be to finishes and components until Practical Contraction the method include specific references to the method in the method in the such protection.  All tenderers to include cost of protection in the state of the such protection in the state of the such protection in the state of the	provided mpletion. nod of		
Installation			
All measurements to be checked on site prior ordering and manufacturing.	to		
Aluminium sections and shop drawings to be by Architect prior to manufacturing.	accepted		
Allow for water and weather proof polysulphid to approved specifications all around frame juplaster and other materials.			
<u>Profiles</u>			
Tenderers to provide typical details of propose aluminium section to be used in the design.	ed		
Structural Silicone			
Tenderers to allow a 10 year guarantee on all powdercoating.			
Preliminary and Shop Drawings:			
The contractor shall submit preliminary design showing basic system sections for the Archite approval.			
Carri	ed Forward	R	
Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 Bill No. 9 Metalwork	WATERBO		

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.		
<u>Deflection of structure:</u>		
The contractor is advised to make adequate provision for the design deflection of the structure.		
<u>Tolerances:</u>		
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. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 9 Metalwork		

	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				
9/9/1	Steel gate to door, size 813mm x 2032mm high	No	12		
	Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications				
9/9/2	Steel screen to window, size 1460 x 1533mm high	No	60		
	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				
9/9/3	813 x 2032mm single door	No	24		
	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				
9/9/4	914 x 2032mm single door	No	24		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 9 Metalwork				

Item No			Quantity	Rate	Amount
	BILL NO. 10				
	PLASTERING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	SCREEDS				
	1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel				
9/10/1	30mm thick on floors and landings	m2	95		
	INTERNAL PLASTER				
	One coat smooth 1:5 cement sand plaster on brickwork to receive finish				
9/10/2	On brick walls	m2	1 337		
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO				

		Quantity	Rate	Amount
BI	LL NO. 11			
<u> TII</u>	<u>LING</u>			
PR	REAMBLES			
in t	OTE: The tenderer is referred to the relevant clauses the Model Preambles for Trades (2008 Edition) as ued by the Association of South African Quantity rveyors before pricing this bill.			
su	JPPLEMENTARY PREAMBLES			
	pplementary preamble items described in Bill No. 1, all equally apply to this Bill.			
<u>Pri</u>	icing			
	ces are to included for the following: Cutting, ndling, labour, adhesive etc.			
<u>Fix</u>	<u>king</u>			
floa	ing described as "fixed with adhesive on power ated concrete" shall be deemed to include for proved tiling key-coat.			
fixe	eramic, porcelain, marble and granite tiles are to be ed, grouted and pointed with suitable adhesives and buts, as recommended by the Architect. Costs are reby deemed to include the cost of this requirement.			
of tout not hold the be of to	yment for work that is deemed measurable, in respect the conditions of contract, and which comprises tting, leaving, or forming, rectangular holes and tches through tiling is hereby deemed to apply only to les and notches that do not exceed 600mm girth. ose exceeding 600mm in girth are hereby deemed to "square cutting", which is hereby deemed to be part the work description for that type of tiling and is not easurable as a separate item of work.			
Wa	astage			
	e wastage in excess of 10% will be for the tenderer's count.			
	Carried Forward		R	
RE	ction No. 9 NOVATIONS (12 CLASSROOMS AND 24 WATERBO No. 11 ng			

	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.				
	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				
9/11/1	On floors	m2	728		
9/11/2	75mm high skirting	m	932		
	ATTIC STOCK				
9/11/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	73		
	SUNDRIES				
	10mm aluminium straight edge trim				
9/11/4	Dividing strip between tiles and door frames	m	22		
	25 x 25mm aluminium angle				
9/11/5	Trim to edge of concrete, to be secured with screws	m	11		
	Country of Continue No.				
	Carried Forward to Summary of Section No. Section No. 9			R	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 11 Tiling				

Item No		Quantity	Rate	Amount
	BILL NO. 12			
	PLUMBING AND DRAINAGE (PROVISIONAL)			
	PREAMBLES			
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	SUPPLEMENTARY PREAMBLES			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	uPVC pipes and fittings:			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
	uPVC pressure pipes and fittings:			
	Pipes for water supply shall be of the class stated			
	Excavations:			
	No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing, authorised classification thereof.			
	"Intermediate material" and " hard rock" shall be as defined in "Earthworks".			
	Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.			
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	Carried Forward		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 12 Plumbing and Drainage			

	Brought Forward			R	Π
	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>				
9/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	129		
9/12/2	Extra over eaves gutter for outlet	No	217		
9/12/3	Extra over eaves gutter for closed end	No	386		
	Rainwater downpipes				
9/12/4	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	90		
9/12/5	Extra over rainwater pipe for offset	No	36		
9/12/6	Extra over rainwater pipe for shoe	No	24		
9/12/7	Extra over rainwater pipe for bend	No	30		
	SANITARY FITTINGS				
	Refer to sanitary schedule drawing for full description of abbreviations				
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO 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				
9/12/8	WHB, installed complete	No	12		
	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				
9/12/9	WC, installed complete	No	24		
	SINKS, etc.  Concrete double wash trough 1400 x 530 x 340mm deep 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				
9/12/10	Wash trough, installed complete	No	12		
	TOILET ROLL HOLDER				
	To be approved by Architect				
9/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 12 Plumbing and Drainage				

	Brought Forward			R	
	TAPS, VALVES, ETC				
	Similar Approved				
9/12/12	15mm Cobra brass watertight hose Bib tap (Code: 108- 15)	No	30		
	<u>TANKS</u>				
	Similar Approved				
9/12/13	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	6		
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions				
	TESTING				
9/12/14	Testing water pipe system		Item		
	BUDGETARY ALLOWANCE				
9/12/15	Allow an amount of R300 913.92 (Three Hundred Thousand Nine Hundred and Thirteen and Ninety Two) for the supply and installation of Sanitary Fitting Sundries		Item		300 913 92
	Carried Forward to Summary of Section No.			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 12 Plumbing and Drainage				
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Item No			Quantity	Rate	Amount
	BILL NO. 13				
	GLAZING				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	Note:				
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400				
	GLASS TO STEEL WITH PUTTY				
	5mm clear floated glass fixed glazing putty				
9/13/1	Panes not exceeding 0.1m2	m2	134		
9/13/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	14		
	TOPS, SHELVES, DOORS, MIRROR ETC				
	6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved				
9/13/3	Mirror 400 x 600 mm high	No	12		
	Carried Forward to Summary of Section No.			R	
	Section No. 9			IX.	
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 13				

Item No			Quantity	Rate	Amount
	BILL NO. 14				
	PAINTWORK				
	PREAMBLES				
	NOTE: The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.				
	GENERAL NOTES TO TENDERERS				
	General notes, described in Bill No. 1, shall equally apply to this Bill.				
	PAINTWORK TO PREVIOUS PAINTED				
	FLOATED PLASTER INTERNAL WALLS				
	Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by Architect				
9/14/1	On walls	m2	1 431		
	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				
9/14/2	On window frames	m2	297		
9/14/3	On door frames	m2	144		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork				

	Brought Forward			R	
	BRICKWORK				
	Similar Approved				
	Three coats brick dressing				
9/14/4	On face brickwork	m2	1 153		
	PAINTWORK ETC TO NEW WORK				
	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				
9/14/5	On walls	m2	1 337		
	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				
9/14/6	On internal ceilings and cornices	m2	1 798		
9/14/7	Fibre cement fascia/barge boards	m2	195		
	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				
9/14/8	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	347		
9/14/9	On gutters	m	33		
9/14/10	On downpipes	m	24		
	Carried Forward			R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork				

	Brought Forward		R	_
	WOOD			
	Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect			
9/14/11	On door m2	179		
	Carried Forward to Summary of Section No.		R	_
	Section No. 9		K	=
	RENOVATIONS (12 CLASSROOMS AND 24 WATERBO Bill No. 14 Paintwork			
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## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	SECTION SUMMARY			
Bill No		Page No		Amount
9/1	Demolitions and Alterations	9/6		
9/2	Earthworks	9/9		
9/3	Concrete, Formwork and Reinforcement	9/13		
9/4	Masonry	9/15		
9/5	Roof Coverings	9/17		
9/6	Carpentry and Joinery	9/20		
9/7	Ceilings, Partitions and Access Flooring	9/23		
9/8	Ironmongery	9/27		
9/9	Metalwork	9/31		
9/10	Plastering	9/32		
9/11	Tiling	9/34		
9/12	Plumbing and Drainage	9/38		
9/13	Glazing	9/39		
9/14	Paintwork	9/42		
	Carried to Final Summary		R	
	Section No. 9 RENOVATIONS (12 CLASSROOMS AND 24 WATERBO			

Item No		Quantity	Rate	Amount
	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			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	Carried Forward		R	
	Section No. 10 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance			

	Brought Forward		R		_
	General attendance on nominated/selected subcontractors				
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:				
	Builder's work				
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities				
	LOCAL AUTHORITY FEES				
	Local authority fees for connections				
10/1/1	Provide the sum of R35 000.00 (Thirty Five Thousand) for sewer, water and electrical connections, etc to the local authority	Item		35 000.0	0
	Relocation of mobiles				
10/1/2	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles	Item		250 000.0	0
					_
	Carried Forward to Summary of Section No. Section No. 10		R		_
	PROVISIONAL SUMS Bill No. 1				
	Budgetary Allowance				

Item 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. 10 PROVISIONAL SUMS Bill No. 2 Provisional Sums		``	

	Brought Forward		R	
	General attendance on nominated/selected subcontractors			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	Builder's work			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	Signage Installation			
10/2/1	Allow an amount of R154 700.00 (One Hundred and Fifty Four Thousand Seven Hundred) for the supply and installation of Signage	Item		154 700.00
10/2/2	Attendance		%	
10/2/3	Profit		%	
	Joinery Fittings			
10/2/4	Allow an amount of R231 810.00 (Two Hundred and Thirty One Thousand Eight Hundred and Ten) for the supply and installation of Joinery Fittings	Item		231 810.00
10/2/5	Attendance		%	
10/2/6	Profit		%	
	School Furniture and Fittings			
10/2/7	Allow an amount of R1 160 000.00 (One Million One Hundred and Sixty Thousand) for the supply and installation of School Furniture and Fittings	Item		1 160 000 00
10/2/8	Attendance		%	
10/2/9	Profit		%	
	Carried Forward Section No. 10 PROVISIONAL SUMS		R	
	Bill No. 2 Provisional Sums			
				[

	Brought Forward		R	
	Community Liaison Officer			
10/2/10	Allow an amount of R240 000.00 (Two Hundred and Forty Thousand) for provision of Community Liaison Officer	Item		240 000 00
10/2/11	Attendance		%	
10/2/12	Profit		%	
	Project Steering Committee			
10/2/13	Allow an amount of R48 000.00 (Forty Eight Thousand) for provision of Project Steering Committee	Item		48 000 00
10/2/14	Attendance		%	
10/2/15	Profit		%	
	Health and Safety Agent			
10/2/16	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of Health and Safety Agent	Item		500 000 00
10/2/17	Attendance		%	
10/2/18	Profit		%	
	Carried Forward to Summary of Section No.  Section No. 10 PROVISIONAL SUMS Bill No. 2 Provisional Sums		R	

## LIMPOPO DEPARTMENT OF EDUCATION DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT UKUTHULA PRIMARY SCHOOL

	SECTION SUMMARY				
Bill No			Page No		Amount
10/1	Budgetary Allowance		10/2		
10/2	Provisional Sums		10/5		
		Carried to Final Summary		R	
	Section No. 10 PROVISIONAL SUMS				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	MV RETICULATION				
1.1	Provide the sum of R 130 470.00 for the supply and Install 50kVA 22kV or 11kV/400V pole mounted transformer complete with structures and poles. Supply and install fox conductor ACSR incl. meter Box c/w 3-phase meter	Sum	1		
1.2	Profit	%			
1.3	Attendense	%			
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE	TOTAL
2	LV RETICULATION				
2.1	Distribution Kiosks,				
	equipment as specified				
2.1.1	Main Kiosk	No	1		
2.1.2	Plinth	No	1		
2.2	Trenching				
	Excavating, bedding, backfilling, consolidating and making good as specified,				
2.2.1	Pickable soil	m³	210.00		
2.2.2	Hard rock	m³	90.00		
2.2.3	Very hard rock	m³	-		rate only
2.2.4	Backfilling and compaction	m³	300.00		
2.3	75mm dia PVC sleeves for road crossings/cable entries into the building-rate must include for galv steel draw wires in spare sleeves and sealing of ends	m	400		
2.4	Concrete slabs for crossing of other services - rate must include installation 200mm below existing services	m			rate only
2.5	Cable warning tape, 300mm above cables	m	800		
2.6	Cable markers, above cables	No	10		
2.7	600/1000V PVC SWA cables, in trenches and sleeves, including labels  TOTAL FOR BILL - CARRIED FORWARD				

	TOTAL FOR BILL - BROUGHT FORWARD			
2.7.1	25mm² 4core	m	72	
2.7.2	16mm² 2core	m	365	
2.7.3	10mm² 2core	m	150	
2.7.4	4mm² 2core	m	195	
2.8	600/1000V Cable terminations,			
	for PVC PVC SWA PVC Cu cables, for indoor or outdoor use, as required			
2.8.1	Gland no 5 complete with shroud	No	4	
2.8.2	Gland no 3 complete with shroud	No	6	
2.8.3	Gland no 2 complete with shroud	No	6	
2.9	Earth conductors (HDHC), including ends			
2.9.1	25mm²	m	72	
2.9.2	16mm²	m	365	
2.9.3	10mm²	m	150	
2.9.4	4mm²	m	195	
2.10	Testing of this section in the presence of the Employer and/or the Engineer, including all equipment, power generator, etc.	No	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			-

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
3 3.1	MEDIUM ADMINISTRATION BLOCK				
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.				
3.1.1	Trenching through floor for sleeves	m³			rate only
3.1.2	Excavation and backfilling in soft soil	m³			rate only
3.1.3	Excavation and backfilling in hard rock	m³			rate only
3.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
3.2.1	75mm Diameter for Data	m			rate only
3.2.2	110mm Diameter for power cable	m			rate only
3.3	Draw Wires				
3.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	710		
3.4	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				
3.4.1	Distribution Board (DB-ADM)	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	l .	<u>l</u>		

TOTAL FO	OR BILL - BROUGHT FORWARD			
3.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
	Terminations:			
3.5.1	16mm 4 core cable	No	2	
3.5.2	16mm BCEW	No	2	
3.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
3.6.1	20mm PVC Conduit	m	130	
3.6.2	25mm PVC Conduit	m	230	
	In Ceiling space and Timber work or along Purlins			
3.6.3	20mm PVC Conduit	m	250	
3.6.4	25mm PVC Conduit	m	80	
3.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
3.6.6	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.			
3.6.7	20mm diameter 4 way type(round box)	No	51	
3.6.8	450 x 450mm Bonding tray in roof space	No		rate only
3.7	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:			
3.7.1	100 x 50 x 50mm	No	12	
3.7.2	100 x 100 x 50mm	No	20	
3.7.3	88 x 275 x 62mm One tier cluster`	No	6	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	OR BILL - BROUGHT FORWARD			
3.8	PVC Wiring in conduits:			
3.6	TVC Willing in Condons.			
3.8.1	2.5 mm² for lights circuits	m	650	
3.8.2	4 mm² for plug sockets circuits	m	460	
	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.			
3.8.3	2.5 mm <sup>2</sup>	m	650	
3.8.4	4 mm <sup>2</sup>	m	460	
3.9	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			
3.9.1	16A Single Lever Light Switch	No	11	
3.9.2	2Way 16A Single Lever Light switch	No	2	
3.9.3	Outdoor Photocell Switch	No	1	
3.9.4	90 degree motion sensor light switch	No	3	
3.10	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:			
3.10.1	SA/Euro 16A Socket Outlet @1200 A.F.F.L	No	3	
3.10.2	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	17	
	One Tier Cluster Wall Box Consisting of The Following:  - 16A Normal Socket Un-switched  - 16A Dedicated Socket Un-switched  - 5A 2 Pin Socket Un-switched			
3.10.3	- 2x RJ45 Data & Telephone Points		6	
	TOTAL FOR BILL - CARRIED FORWARD		1	

TOTAL FO	DR BILL - BROUGHT FORWARD				
3.11	Light Fittings				
•					
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.				
3.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	25		
3.11.2	8 Inch 15W LED Downlight	No	16		
3.11.3	10W LED Rondo Downlight with Dali Modification	No	2		
3.11.4	15W LED Round Bulkhead with Dali Modification	No	8		
3.12	Electrical Tests				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
3.12.1	Building installation	Sum	1		
3.13	Others				
3.13.1	2 compartment power skirting installed in offices	m	10		
3.13.2	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No	3		
3.13.3	Telephone points on Powerskirting; must include draw box, blank cover plate, etc,	No			rate only
3.13.4	Provide the sum of R15000-00 for earthing and lightning protection installations by specialist	Sum	1		
3.13.5	20A 2pole Isolator, in suitable York Box, for HVAC	No	2		
3.13.6	Supply and install a 150L Solar Water Geyser	No			rate only
3.13.7	Provide the sum of R5500-00 for the supply and installation of school motorised siren c/w timer	Sum	1		
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			<u> </u>	

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4	GRADE R BLOCK (2 CLASSROOM)				
4.1					
	General trenching worktor sleeves along the routes as pegged out on site after co-ordination with other				
	Allowance must be made for the sitting of soil when required, removal and carting away of all stones and				
4.1.1	Trenching through floor for sleeves	m³			rate only
4.1.2	Excavation and backfilling in soft soil	m³			rate only
4.1.3	Excavation and backfilling in hard rock	m³			rate only
4.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
4.2.1	75mm Diameter for Data	m			rate only
4.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
4.2.3	75mm Diameter	No			rate only
4.2.4	110mm Diameter	No			rate only
4.3	Draw Wires				
4.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	790		
4.4	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				
4.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL F	OR BILL - BROUGHT FORWARD				
4.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches				
	Terminations:				
4.5.1	10mm 2 core cable	No	2		
4.5.2	10mm BCEW	No	2		
4.6	Conduit Work				
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
4.6.1	20mm PVC Conduit	m	80		
4.6.2	25mm PVC Conduit	m	180		
	In Ceiling space and Timber work or along Purlins				
4.6.3	20mm PVC Conduit	m	450		
4.6.4	25mm PVC Conduit	m	80		
4.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.			rate only
4.6.6	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.				
4.6.7	20mm diameter 4 way type(round box)	No	30		
4.6.8	450 x 450mm Bonding tray in roof space	No			rate only
4.7	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:				
4.7.1	100 x 50 x 50mm	No	8		
4.7.2	100 x 100 x 50mm	No	10		
4.7.3	88 x 275 x 62mm one tier cluster	No	2		
	TOTAL FOR BILL - CARRIED FORWARD		-	-	

TOTAL F	OR BILL - BROUGHT FORWARD			
4.0	DVC Wising in conduite.			
	PVC Wiring in conduits: 2.5 mm² for lights circuits	m	350	
4.8.2	4 mm² for plug sockets circuits	m	250	
	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.			
4.8.3	2.5 mm <sup>2</sup>	m	350	
4.8.4	4 mm²	m	250	
4.9	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			
4.9.1	16A Single Lever Light Switch	No	7	
4.9.2	2Way 16A Single Lever Light switch	No	2	
4.9.3	2 Lever 2 way	No		rate only
4.9.4	Outdoor Photocell Switch	No	1	
4.10	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:			
4.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	6	
4100	One Tier Cluster Wall Box Consisting of The Following:  - 16A Normal Socket Un-switched  - 16A Dedicated Socket Un-switched  - 5A 2 Pin Socket Un-switched  2x P. 145 Data & Telephone Points	20		
4.10.2	- 2x RJ45 Data & Telephone Points  TOTAL FOR BILL - CARRIED FORWARD	No	2	

TOTAL F	OR BILL - BROUGHT FORWARD			
4.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
4.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	12	
4.11.2	15W LED Round Bulkhead with Dali Modification	No	8	
4.11.3	10W LED Roundo Downlight with Dali Modification	No	12	
<b>4.12</b> 4.12.1	Electrical Tests  Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  Building installation	Sum	1	
		30111	ı	
4.13	Others			
4.13.1	Provide the sum of R7000-00 for earthing and lightning protection installations by specialist	Sum	1	
4.13.2	20A 2pole Isolator, in suitable York Box, for HVAC	No	2	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY	l	<u> </u>	I

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5 5.1	3 CLASSROOM BLOCK				
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
5.1.1	Trenching through floor for sleeves	m³			rate only
5.1.2	Excavation and backfilling in soft soil	m³			rate only
5.1.3	Excavation and backfilling in hard rock	m³			rate only
5.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
5.2.1	75mm Diameter for Data	m			rate only
5.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
5.2.3	75mm Diameter	No			rate only
5.2.4	110mm Diameter	No			rate only
5.3	Draw Wires				
5.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	620		
5.4	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				
5.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	<u> </u>	1		

TOTAL FO	OR BILL - BROUGHT FORWARD			
5.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
5.5.1	10mm 4 core PVC SWA Cable	m		rate only
5.5.2	10mm BCEW	m		rate only
5.5.0	Terminations: 10mm 4 core cable	No		
5.5.3			2	
5.5.4	10mm BCEW	No	2	
5.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
5.6.1	20mm PVC Conduit	m	50	
5.6.2	25mm PVC Conduit	m	50	
5.6.3	In Ceiling space and Timber work or along Purlins 20mm PVC Conduit	m	300	
5.6.4	25mm PVC Conduit	m	200	
5.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.		rate only
5.6.6	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.			
5.6.7	20mm diameter 4 way type(round box)	No	25	
5.6.8	450 x 450mm Bonding tray in roof space	No		rate only
5.7	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:			
5.7.1	100 x 50 x 50mm	No	3	
5.7.2	100 x 100 x 50mm	No	6	
5.7.3	88 x 275 x 62mm One tier cluster`	No	3	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	OR BILL - BROUGHT FORWARD			
5.8	PVC Wiring in conduits:			 
3.0				
5.8.1	2.5 mm² for lights circuits	m	400	
5.8.2	4 mm² for plug sockets circuits	m	300	
	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.			
5.8.3	2.5 mm <sup>2</sup>	m	400	
5.8.4	4 mm <sup>2</sup>	m	300	
5.9	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			
5.9.1	16A Single Lever Light Switch	No	3	
5.9.2	Outdoor Photocell Switch	No	1	
5.10	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:			
5.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	6	
	One Tier Cluster Wall Box Consisting of The Following:  - 16A Normal Socket Un-switched  - 16A Dedicated Socket Un-switched  - 5A 2 Pin Socket Un-switched			
5.10.2	- 2x RJ45 Data & Telephone Points	No	3	
	TOTAL FOR BILL - CARRIED FORWARD	<u> </u>	<u> </u>	

TOTAL FO	DR BILL - BROUGHT FORWARD			
5.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
5.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	12	
5.11.2	15W LED Round Bulkhead with Dali Modification	No	10	
5.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
5.12.1	Building installation	Sum	1	
5.13	Others			
5.13.1	Provide the sum of R7000-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
6	4 CLASSROOM BLOCK				
6.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
6.1.1	Trenching through floor for sleeves	m³			rate only
6.1.2	Excavation and backfilling in soft soil	m³			rate only
6.1.3	Excavation and backfilling in hard rock	m³			rate only
6.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
6.2.1	75mm Diameter for Data	m			rate only
6.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
6.2.3	75mm Diameter	No			rate only
6.2.4	110mm Diameter	No			rate only
6.3	Draw Wires				
6.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	1000		
6.4	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				
6.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	I	I		

TOTAL FO	DR BILL - BROUGHT FORWARD	1			
6.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches				
	Terminations:				
6.5.1	16mm 2 core cable	No	2		
6.5.2	16mm BCEW	No	2		
6.6	Conduit Work  Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.  Built or Chase into brick or concrete work:				
6.6.1	20mm PVC Conduit	m	120		
6.6.2	25mm PVC Conduit	m	440		
	In Ceiling space and Timber work or along Purlins				
6.6.3	20mm PVC Conduit	m	400		
6.6.4	25mm PVC Conduit	m	40		
6.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-1420	No.			
6.6.6	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.				
6.6.7	20mm diameter 4 way type(round box)	No	50		
6.6.8	450 x 450mm Bonding tray in roof space	No			rate only
6.7	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:				
6.7.1	100 x 50 x 50mm	No	8		
6.7.2	100 x 100 x 50mm	No	12		
6.7.3	88 x 275 x 62mm one tier cluster	No	4		
	TOTAL FOR BILL - CARRIED FORWARD		<u> </u>	l .	

TOTAL FO	OR BILL - BROUGHT FORWARD			
6.8	PVC Wiring in conduits:			
6.8.1	2.5 mm² for lights circuits	m	800	
6.8.2	4 mm² for plug sockets circuits	m	470	
	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.			
6.8.3	2.5 mm <sup>2</sup>	m	800	
6.8.4	4 mm²	m	470	
6.9	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			
6.9.1	16A Single Lever Light Switch	No	4	
6.9.2	2Way 16A Single Lever Light switch	No	0	rate only
6.9.3	2 Lever 2 way	No		
6.9.4	Outdoor Photocell Switch	No	1	
6.10	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:			
6.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No	12	
	One Tier Cluster Wall Box Consisting of The Following:  - 16A Normal Socket Un-switched  - 16A Dedicated Socket Un-switched  - 5A 2 Pin Socket Un-switched			
6.10.2	- 2x RJ45 Data & Telephone Points	No	4	
	TOTAL FOR BILL - CARRIED FORWARD	<u> </u>	<u> </u>	

TOTAL FO	DR BILL - BROUGHT FORWARD			
6.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
6.11.1	1200mm 34W LED IP66 Corrosion Proof Light Fitting	No	20	
6.11.2	15W LED Round Bulkhead with Dali Modification	No	10	
6.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
6.12.1	Building installation	Sum	1	
6.13	Others			
6.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
7	5 CLASSROOM BLOCK				
7.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
7.1.1	Trenching through floor for sleeves	m³			rate only
7.1.2	Excavation and backfilling in soft soil	m³			rate only
7.1.3	Excavation and backfilling in hard rock	m³			rate only
7.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
7.2.1	75mm Diameter for Data	m			rate only
7.2.2	110mm Diameter for power cable	m			rate only
	Radius bends:				
7.2.3	75mm Diameter	No			rate only
7.2.4	110mm Diameter	No			rate only
7.3	Draw Wires				
7.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	760		
7.4	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				
7.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	OR BILL - BROUGHT FORWARD			
7.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches			
7.5.1	25mm 9 core PVC SWA Cable	m		rate only
7.5.2	16mm BCEW	m		rate only
	Terminations:			
7.5.3	10mm 2 core cable	No	2	
7.5.4	6mm BCEW	No	2	
7.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
7.6.1	20mm PVC Conduit	m		rate only
7.6.2	25mm PVC Conduit	m	60	
	In Ceiling space and Timber work or along Purlins			
7.6.3	20mm PVC Conduit	m	400	
7.6.4	25mm PVC Conduit	m	300	
7.7	Conduit Boxes			
7.7.1	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.			
7.7.2	20mm diameter 4 way type(round box)	No	40	
7.8	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:			
7.8.1	100 x 50 x 50mm	No	5	
7.8.2	100 x 100 x 50mm	No	5	
7.8.3	88 x 275 x 62mm One tier cluster`	No	5	
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	DR BILL - BROUGHT FORWARD			
7.9	PVC Wiring in conduits:			
7.9.1	2.5 mm² for lights circuits	m	410	
7.9.2	4mm² for plug sockets circuits	m	370	
	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.			
7.9.3	1.5 mm²	m	410	
7.9.4	2.5mm²	m	370	
7.10'	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			
7.10.1	1 Lever 1 way	No	5	
7.10.2	1 Lever 2 way	No		rate only
7.10.3	2 Lever 2 way	No		rate only
7.10.4	Photo cell	No	1	
7.10.5	Occupancy Sensors	No		rate only
7.11	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:			
7.10.1	16A 3 pin single socket outlets	No	5	
7.10.2	One Tier Cluster Type D Socket outlet	No	5	
	TOTAL FOR BILL - CARRIED FORWARD			

7.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
7.11.1	Type F1: 2x26W 1200mm T5 Open Channel Fluorescent Light	No	20	
7.11.2	Type B1: Wall mounted bulkhead 2x 18W CFL	No	10	
7.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
7.12.1	Building installation	Sum	1	
7.13	Others			
7.13.1	Provide the sum of R10000-00 for earthing and lightning protection installations by specialist	Sum	1	

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
8	ABLUTION BLOCK (12 SEATER)				
8.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
8.1.1	Trenching through floor for sleeves	m³			rate only
8.1.2	Excavation and backfilling in soft soil	m³			rate only
8.1.3	Excavation and backfilling in hard rock	m³			rate only
8.2	Cable and Data Sleeves				
0.2					
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
8.2.1	75mm Diameter for Data	m			rate only
8.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
8.2.3	75mm Diameter	No			rate only
8.2.4	113mm Diameter	No			rate only
8.3	Draw Wires				
8.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	80		
8.4	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				
8.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	1			

TOTAL FO	DR BILL - BROUGHT FORWARD				
8.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches				
8.5.1	4mm 2 core PVC SWA Cable	m			rate only
8.5.2	4 mm BCEW	m			rate only
	Terminations:				
8.5.3	4mm 2 core cable	No	2		
8.5.4	4mm BCEW	No	2		
8.6	Conduit Work				
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.				
	Built or Chase into brick or concrete work:				
8.6.1	20mm PVC Conduit	m	15		
8.6.2	25mm PVC Conduit	m			rate only
	In Ceiling space and Timber work or along Purlins				
8.6.3	20mm PVC Conduit	m	80		
8.6.4	25mm PVC Conduit	m	30		
8.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.			rate only
8.6.6	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.				
8.6.7	20mm diameter 13 way type(round box)	No	40		
8.6.8	1350 x 1350mm Bonding tray in roof space	No			rate only
8.7	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:				
8.7.1	100 x 50 x 50mm	No	1		
	TOTAL FOR BILL - CARRIED FORWARD			<u> </u>	

TOTAL FO	OR BILL - BROUGHT FORWARD			
8.8	PVC Wiring in conduits:			
8.8.1	2.5 mm² for lights circuits	m	115	
	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.			
8.8.2	2.5 mm <sup>2</sup>	m	115	
8.9	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			
8.9.1	1 Lever 1 way	No	2	
8.9.2	Outdoor Photocell Switch	No	1	
8.10	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:			
8.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	DR BILL - BROUGHT FORWARD			
8.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
8.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No		rate only
8.11.2	15W LED Round Bulkhead with Dali Modification	No	7	
8.11.3	10W LED Rondo Downlight with Dali Modification	No	16	
8.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
8.12.1	Building installation	Sum	1	
8.13	Others Provide the sum of R6500-00 for earthing and lightning			
8.13.1	protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	ABLUTION BLOCK (10 SEATER)				
9.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
9.1.1	Trenching through floor for sleeves	m³			rate only
9.1.2	Excavation and backfilling in soft soil	m³			rate only
9.1.3	Excavation and backfilling in hard rock	m³			rate only
9.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
9.2.1	75mm Diameter for Data	m			rate only
9.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
9.2.3	75mm Diameter	No			rate only
9.2.4	113mm Diameter	No			rate only
9.3	Draw Wires				
9.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	55		
9.4	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				
9.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD			-	

TOTAL FO	OR BILL - BROUGHT FORWARD			
9.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
9.5.1	4mm 2 core PVC SWA Cable	m		rate only
9.5.2	4 mm BCEW	m		rate only
	Terminations:			
9.5.3	4mm 2 core cable	No	2	
9.5.4	4mm BCEW	No	2	
0.7	Conduit Work			
9.6	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
9.6.1	20mm PVC Conduit	m	5	
9.6.2	25mm PVC Conduit	m	5	
	In Ceiling space and Timber work or along Purlins			
9.6.3	20mm PVC Conduit	m	50	
9.6.4	25mm PVC Conduit	m	10	
9.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.		rate only
9.6.6	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.			
9.6.7	20mm diameter 13 way type(round box)	No	20	
9.6.8	1350 x 1350mm Bonding tray in roof space	No		rate only
9.7	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:			
9.7.1	100 x 50 x 50mm	No	1	
9.7.2	100 x 100 x 50mm	No	2	
	TOTAL FOR BILL - CARRIED FORWARD			
		<u> </u>		1

9.8	PVC Wiring in conduits:			
9.8.1	2.5 mm² for lights circuits	m	55	
	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.			
9.8.2	2.5 mm <sup>2</sup>	m	55	
9.9	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			
9.9.1	1 Lever 1 way	No	2	
9.9.2	Outdoor Photocell Switch	No	1	
9.10	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:			
9.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		rat

TOTAL FO	DR BILL - BROUGHT FORWARD			
9.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
9.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No		rate only
9.11.2	15W LED Round Bulkhead with Dali Modification	No	5	
9.11.3	10W LED Rondo Downlight with Dali Modification	No	14	
9.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
9.12.1	Building installation	Sum	1	
9.13	Others			
9.13.1	Provide the sum of R5000-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
10	ABLUTION BLOCK (4 SEATER)				
10.1					
10.1	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
10.1.1	Trenching through floor for sleeves	m³			rate only
10.1.2	Excavation and backfilling in soft soil	m³			rate only
10.1.3	Excavation and backfilling in hard rock	m³			rate only
10.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
10.2.1	75mm Diameter for Data	m			rate only
10.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
10.2.3	75mm Diameter	No			rate only
10.2.4	113mm Diameter	No			rate only
10.3	Draw Wires				
10.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	50		
10.4	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				
10.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD	•	•	•	

TOTAL FO	DR BILL - BROUGHT FORWARD			
10.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches			
	Terminations:			
10.5.1	4mm 2core cable	No	2	
10.5.2	4mm BCEW	No	2	
10.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
10.6.1	20mm PVC Conduit	m		rate only
10.6.2	25mm PVC Conduit	m	15	
	In Ceiling space and Timber work or along Purlins			
10.6.3	20mm PVC Conduit	m	10	
10.6.4	25mm PVC Conduit	m		rate only
10.6.5	Girder clamp for chain and wire, STRUTFAST Type AH-11320	No.		
	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.			
10.6.6	20mm diameter 13 way type(round box)	No	7	
10.6.7	1350 x 1350mm Bonding tray in roof space	No		rate only
10.7	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:			
10.7.1	100 x 50 x 50mm	No	2	
10.7.2	100 x 100 x 50mm	No	2	
	TOTAL FOR BILL - CARRIED FORWARD	1		

TOTAL FO	DR BILL - BROUGHT FORWARD			
10.8	PVC Wiring in conduits:			
10.8.1	2.5 mm² for lights circuits	m	20	
10.8.2	4 mm² for plug sockets circuits	m		rate only
	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.			
10.8.3	2.5 mm²	m	20	
10.8.4	4 mm²	m		rate only
10.9	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			
10.9.1	1 Lever 1 way	No	2	
10.9.2	Outdoor Photocell Switch	No	1	
10.10'	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:			
10.10.1	SA/Euro 16A Socket Outlet @300 A.F.F.L	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD		1	R 0.00

TOTAL FO	DR BILL - BROUGHT FORWARD			R 0.00
10.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
10.11.1	15W LED Round Bulkhead with Dali Modification	No	4	
10.11.2	10W LED Rondo Downlight with Dali Modification	No	4	
10.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
10.12.1	Building installation	Sum	1	
10.13	Others			
10.13.1	2 compartment power skirting installed in offices	m		rate only
10.13.2	Provide the sum of R2500-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
11	ABLUTION BLOCK (2 SEATER)				
11.1					
	General trenching workfor sleeves along the routes as pegged out on site after co-ordination with other services				
	removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried				
11.1.1	Trenching through floor for sleeves	m³			rate only
11.1.2	Excavation and backfilling in soft soil	m³			rate only
11.1.3	Excavation and backfilling in hard rock	m³			rate only
11.2	Cable and Data Sleeves				
	Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
11.2.1	75mm Diameter for Data	m			rate only
11.2.2	113mm Diameter for power cable	m			rate only
	Radius bends:				
11.2.3	75mm Diameter	No			rate only
11.2.4	113mm Diameter	No			rate only
11.3	Draw Wires				
11.3.1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	30		
11.4	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				
11.4.1	Distribution Board	No.	1		
	TOTAL FOR BILL - CARRIED FORWARD				

TOTAL FO	R BILL - BROUGHT FORWARD			
11.5	Low Voltage PVC Cables Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches			
11.5.1	25mm 13 core PVC SWA Cable	m		rate only
11.5.2	16mm BCEW	m		rate only
	Terminations:			
11.5.3	4mm 2core cable	No	2	
11.5.4	2mm BCEW	No	2	
11.6	Conduit Work			
	Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.			
	Built or Chase into brick or concrete work:			
11.6.1	20mm PVC Conduit	m		rate only
11.6.2	25mm PVC Conduit	m	15	
	In Ceiling space and Timber work or along Purlins			
11.6.3	20mm PVC Conduit	m	10	
11.6.4	25mm PVC Conduit	m		rate only
11.6.5	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.			
11.6.6	20mm diameter 13 way type(round box)	No	8	
11.6.7	1350 x 1350mm Bonding tray in roof space	No		rate only
11.7	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:			
11.7.1	100 x 50 x 50mm	No	1	
11.7.2	100 x 100 x 50mm	No	1	
	TOTAL FOR BILL - CARRIED FORWARD		ļ.	

TOTAL FO	R BILL - BROUGHT FORWARD			
11.8	PVC Wiring in conduits:			
	_			
11.8.1	2.5 mm² for lights circuits	m	30	
11.8.2	4 mm² for plug sockets circuits	m	15	
	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.			
11.8.3	1.5 mm <sup>2</sup>	m	30	
11.8.4	2.5mm²	m	15	
11.9	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			
11.9.1	1 Lever 1 way	No	1	
11.9.2	1 Lever 2 way	No		rate only
11.9.3	2 Lever 2 way	No		rate only
11.9.4	Photo cell	No	1	
11.10'	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:			
11.10.1	16A 3 pin single socket outlets	No		rate only
11.10.2	16A 3 pin double socket outlets	No		rate only
	TOTAL FOR BILL - CARRIED FORWARD			

TOTAL FO	R BILL - BROUGHT FORWARD			
11.11	Light Fittings			
	Suppy, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting 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.			
11.11.1	1200mm 313W LED IP66 Corrosion Proof Light Fitting	No	1	
11.11.2	13W LED Rondo Downlight with Dali Modification	No	2	
11.11.3	Type B1: Wall mounted bulkhead 2x 18W CFL	No	4	
11.12	Electrical Tests			
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.			
11.12.1	Building installation	Sum	1	
11.13	Others			
11.13.1	Provide the sum of R2500-00 for earthing and lightning protection installations by specialist	Sum	1	
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY			

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12	Area Lighting				
12.1	Supply and installation of SABS approved light fittings as per the specification, complete with lamps, mounted as described including accessories necessary to complete the mounting as specified and are measured separately				
12.1.1	3,5m Steel Pole with brackets and foundation bolts including Delivery to Site and offloading	Sum	11		
12.1.2	54W LED Post Top 4000K as described including accessories	no.	11		
12.1.3	22W LED Vapour Proof Light Fitting IP65	No	53		
12.2	Cabling				
	PVC Wiring :				
12.2.1	4mm² x 2core copper cable	m	900		
12.2.2	2.5mm² bare copper earth wire (BCEW)	m	900		
12.3	TESTING AND COMISSIONING				
12.3.1	Testing and comissioning of the entire medium and low voltage network and area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation.	Sum	1		
			CARRIED	TO SUMMARY	

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
10	PROVISIONAL AMOUNTS : ICT				
10.1	Provide the sum of R 260 900.00 for the installation of Information and Communication Technologies by specialist service provider in consultation with the Engineer/Consultant	Sum	1		
10.2	Profit	%			
10.3	Attendense	%			
	TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY	-			

	UKUTHULA PRIMARY SCHOOL SUMMARY: ELECTRICAL WORKS										
SECTION	DESCRIPTION	QTY	AMOUNT	TOTAL							
1	MV Reticulation	SUM									
2	LV Reticulation	Lot									
3	Medium Administration	1									
4	Grade R classroom blocks	2									
5	Three classroom blocks	2									
6	Four classroom blocks	4									
7	12 Seater Ablution	2									
8	10 Seater Ablution	1									
9	4 Seater Ablution	2									
10	Area Lighting	SUM									
11	Provitional Sum: ICT	SUM									
	SUB TOTAL 1										
	TOTAL BID PRICE VAT INCL		•								

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	1	70		SECTION NO. 3				
3	1 1	70 70		BILL NO.1 BULK EARTHWORKS				
3	1	70		Preambles	H4			
3	1	70		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	1	70		SUPPLEMENTARY PREAMBLES	H4			
3	1	70		Items, materials or methods	H4			
3	1	70		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	1	70		<u>Excavations</u>	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	22 320		
2	1	70		Extra over all executions for certing away	Н3			
<b>3</b>	<b>1</b> 1	7 <b>0</b> 70		Extra over all excavations for carting away  Surplus material from excavations or stock piles on site to a	m.km	4 464		
	·	. 0	Ü	dumping site to be located by the Contractor				
3	1	70		<u>EARTHWORKS</u>	H2			
3	1	70		Bulk excavation	Н3			
3	1	70		Excavate in all materials and use for embankment or fill or dispose, as ordered	m3	3 348		
3	1	70		Extra-over for	Н3			
3	1	70	5	Intermediate for excavation	m3	837		
3	1	70	6	Hard rock excavation	m3	167		
3	1	70		Restricted Excavation	H3			
3	1	70		Excavate for restricted pipe trenches in all	m3	0		
	, ,	, 0	,	A.2.4 materials and use for backfill or dispose	1110			
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	Н3			
3	1	71	8	150mm thick	m3	3 348		
3	1	71	9	Overhaul	m.km	16 740		
3	1	71		LOFFELSTEIN RETAINING WALLS	H2			
3	1	71		InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes	m2	483		
				BULK EARTHWORKS	ST			
				1				I

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	73		SECTION NO. 3				
3 3	2 2	73 73		BILL NO.2 WATER SUPPLY				
3	2	73		<u>Preambles</u>	H4			
3	2	73		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
				Association of South Amean 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				
	_	70		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		<u>Lead pipes and traps</u>	H4			
3	2	73		All soldered joints shall be wiped and brass unions shall be				
				used for jointing lead to steel				
3	2	74		Reducing fittings	H4			
3	2	74		Where fittings have reducing ends or branches they are				
	_	7-7		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				
				January State Succession, reducere, etc will be ententalled				
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	Н3			
3	2	74	1	Clear vegetation and small trees/shrubs up 2m	m	948		
				wide				

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	74	141	Excavate in all materials for trenches, backfill,	H2	પ્યા !	MALE	ANOUNI
				compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:				
3	2	74	2	From 0m Up to 1.5m	m	948		
3	2	74		Extra-over item (a) above for:	Н3			
3	2	74	3	Intermidiate excavation	m3	171		
3	2	74	4	Hard rock excavation	m3	26		
3	2	74		Extra over all excavations for carting away	Н3			
3	2	74	5	Surplus material from trench excavations to a dumping site to	m3	56		
				be located by the Contractor				
3	2	74		Excavation ancillaries	Н3			
3	2	74		Make up deficiency in backfill material	Н3			
3	2	74	6	From other necessary excavations on site	m3	56		
3	2	74	7	By importation from designated borrow pits	m3			
3	2	74	8	Compaction in road reserves	m			
		7.4		WORK OROUR 440	114			
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		50mm diameter uPVC Class 12 pipes	m	0		
3	2	74		63mm diameter uPVC Class 9 pipes	m	0		
3	2	74		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	428		
3	2	74		90mm diameter uPVC Class 12 pipes	m	520		
3	2	74		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	Н3			
3	2	74	18	Selected granular material	m3	341		
3	2	74	19	Selected fill material	m3	569		
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	m2	27		
				level where reinforced				
3	2	75	21	Concrete for footings class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer	m3	5		
3	2	75	22	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		Supply and install 63 mm dia Water Meter	No	0		
3	2	75		90 x 90 mm T piece section	No	25		
3	2	75		90mm diam. Gate valve	No	2		
3	2	75	27	75 mm diam. Gate valve	No	2		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	2	75		Supply and install 75mm X 32mm dia Saddles	No	28		, 0141
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		<u>TESTING</u>	H2			
3	2	75		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	Н3			
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 3	3 3 3	77 77 77		SECTION NO. 3 BILL NO.3 SEWER RETICULATION				
3	3	77		<u>Preambles</u>	H4			
3	3	77		Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	3	77		SUPPLEMENTARY PREAMBLES	H4			
3	3	77		Items, materials or methods	H4			
3	3	77		Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	3	77		Vitrified clay pipes, etc_	H4			
3	3	77		Pipes shall rest on solid ground and where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid				
3	3	77		uPVC Pipes and fittings	H4			
3	3	77		Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
				Soil, waste and vent pipes and fittings shall be solvent weld jointed				

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	77	141	Reducing fittings	H4	<b>411</b>	NAIL	AMOUNT
3	3	77		Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained				
3	3	77		Septic Tanks	H4			
3	3	77		Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions				
3	3	78		Laying, backfilling, bedding, etc. of pipes	H4			
3	3	78		Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions				
				Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:				
				SABS 1200				
				L : Medium-pressure pipelines				
				LD : Sewers				
				LE : Stormwater drainage				
				Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches)				
				Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes)				
				Unless otherwise described bedding of rigid pipes shall be class B bedding				
3	3	78		WORK GROUP 104	H4			
3	3	78		EARTHWORKS (PIPE TRENCHES)	H2			
3	3	78		Site clearance and removal of topsoil	Н3			
3	3	78	1	Clear vegetation and small trees/shrubs within 2m wide strip	m	389		
3	3	78		<u>EXCAVATION</u>	H2			
3	3	78		Excavate in all materials for trenches, backfill, compact and dispose of surplus material for sewers up to 160mm in diameter for depths:	Н3			
3	3	78	2	Up to 1.5m	m3	408		
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:	Н3			
3	3	78	5	Intermidiate excavation	m3	272		
3	3	78	6	Hard rock excavation	m3	20		
3	3	78	7	Excavate and dispose of unsuitable material from trench bottom (provisional)	m3			
3	3	78		Excavation ancillaries	Н3			
3	3	78		Make up deficiency in backfill material	Н3			
3	3	78	8	From other necessary excavations on site	m3	293		
3	3	78	9	By importation from designated borrow pits	m3			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	78	11 -141	WORK GROUP 146	H4	Q(11	NAIL	AMOUNT
3	3	78		<u>SEWERS</u>	H2			
3	3	78		Supply, lay, joint, bed and test 400KPa Maincore uPVC	Н3			
		70		sewer pipes manufactured to SABS 1601	113			
3	3	78	10	110mm dia.	m	389		
3	3	78	11	160mm dia.	m	0		
3	3	79		Extra -over uPVC pipe for specials	Н3			
3	3	79	12	110mm 90 degree plain bend	m	3		
3	3	79	13	110mm 45 degree plain bend	m	2		
3	3	79	14	110mm 45 degree plain junction	m	1		
3	3	79		160mm 90 degree plain bend	m	0		
3	3	79		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			
		13		complete with cover and frame and step irons as per	113			
				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	9		
3	3	79		over 1.5m up to 2.0m	No	0		
3	3	79		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			
						140		
3	3	79		Selected granular material	m3	140		
3	3	79	23	Selected fill material	m3	233		
3	3	79		SEWER TREATMENT PLANT	H2			
3	3	79		Concrete	Н3			
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:	Н3			
3	3	79	26	Mild steel bars	kg			
3	3	79		High-Tensile Welded mesh	Н3			
3	3	79	27	Ref. 617 welded mesh in floor/walls/footing/slab	m2			
	,	70		Brickwork of NEY bricks in 2:4 coment morter	Uэ			
3	3	79		Brickwork of NFX bricks in 3:1 cement mortar:	H3			
3	3	79		One brick wall including wire ties	m2			
3	3	79	29	Half brick wall including wire ties	m2			
3	3	79		Septic Tank	Н3			
						4		
3	3	79	30	Construct septic tank with french drain as per specification	Item	I	<u> </u>	<u>ı</u>

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	3	79		Grease Trap	H3	4		7
3	3	79	30	Construct grease trap as per specification	Item	0		
3	3	79		1-4 Cement plaster finished with a wooden trowel on brickwork:	Н3			
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		<u>TESTING</u>	H2			
3	3	79	33	Testing drainage pipe system	Item	1		
				SEWER RETICULATION	ST			
3	4	81		SECTION NO. 3				
3	4	81 81		BILL NO.4 ROADS AND PARKING				
3	4	81		<u>Preambles</u>	H4			
					114			
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		<u>Excavations</u>	H4			
3	4	81		No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling				
				"Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008				
3	4	81		WORK GROUP 154	H4			
3	4	81		EARTHWORKS (ROADS, SUBGRADE)	H2			
3	4	81		Road-bed preparation and compaction of material to	Н3			
3	4	81	1	Minimum of 90% of modified AASHTO maximum density	m3	0		
3	4	81		Minimum of 93% of modified AASHTO maximum density	m3	0		
3	4	81		Selected layer compacted to 93% of modified AASHTO maximum density	Н3			
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	Н3			
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	Н3			
3	4	81	6	Soft excavation	m3	1 159		
3	4	81	7	Intermidiate excavation	m3	42		
3	4	81	8	Hard excavation	m3	6		
3	4	81		Overhaul	m .km	1 207		
					1			

3	SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3							ज्या । -	NAIL	AMOUNT
1	3	4	81			Н3			
1	3	4	81	10	l ·	m3	1 536		
	3	4	81	11	from commercial source and compacted to 88% of apparent	m3	0		
3	3	4	82			Н3			
3	3	4	82	12	Stabilization	m3	1 536		
3	3	4	82		Stabilizing agent	Н3			
3	3	4	82	13	Ordinary Portland cement	t	44		
Second Part	3	4	82	14	Lime	t	1		
3	3	4	82	15	Overbudden	m3	0		
3	3	4	82		BASE_	H2			
3	3	4	82		Construct the base with gravel material from borrow pits	Н3			
	3	4	82	16		m3	1 368		
Stabilizina geent.   H3	3	4	82			Н3			
3         4         82         19         Ordnary Portland cement         t         98           3         4         82         20         Ima         m         m           3         4         82         SEGMENTED PAVING         H2         m         H3           3         4         82         21         Cast in-situ edging, 200 x 150mm thick Class 25/19 concrete         m         450           3         4         82         21         Cast in-situ edging, 200 x 150mm thick Class 25/19 concrete         m         450           3         4         82         21         Construction of paving complete         H3         450           3         4         82         22         Supply and lay 80mm thick segmented paving blocks with         m2         2 600           3         4         82         23         Supply and lay 80mm thick segmented paving blocks with         m2         1 960           3         4         82         24         Cutting units to fit edge restraints (straight, raking, or circular cutting)         m         0           3         4         82         25         Allow for soil poisoning         m2         4 560           3         4         82         26	3	4	82	18	Stabilization	m3	1 368		
3	3	4	82		Stabilizing agent	Н3			
3	3	4	82	19	Ordinary Portland cement	t	98		
3	3	4	82	20	Lime	m			
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         2 600           3         4         82         23         Supply and lay 80mm thick segmented paving blocks with 20mm sand         m2         1 960           3         4         82         24         Cutting units to fit edge restraints (straight, raking, or circular cutting)         m         0           3         4         82         25         Allow for soil poisoning         m2         4 560           3         4         82         25         Allow for soil poisoning         m2         4 560           3         4         82         26         Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure         m         450           3         4         82         27         Precast concrete kerbs Figure 5         m         375           3         4         82         TESTING OF FILLING MATERIAL AND COMPACTION.         H2           3	3	4	82		SEGMENTED PAVING	H2			
3	3	4	82		Provision of edge Restraints	Н3			
3 4 82 22 Supply and lay 60mm thick segmented paving blocks with 20mm sand (Assembly) and walkways)  3 4 82 23 Supply and lay 80mm thick segmented paving blocks with 20mm sand  3 4 82 24 Cutting units to fit edge restraints (straight, raking, or circular cutting)  3 4 82 25 Allow for soil poisoning m2 4.560  3 4 82 25 Allow for soil poisoning m2 4.560  4 82 26 Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure m 450  3 4 82 27 Precast concrete kerbs Figure 5 m 375  3 4 82 TESTING OF FILLING MATERIAL AND COMPACTION H2  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	3	4	82	21	<u> </u>	m	450		
20mm sand (Assembly and walkways)  3	3	4	82		Construction of paving complete	Н3			
20mm sand  20mm sand  Cutting units to fit edge restraints (straight, raking, or circular m 0 cutting)  m 0 ocutting)  m 4 82 25 Allow for soil poisoning m2 4 560  KERBING AND CHANNELING  Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure m 450  Testing OF FILLING MATERIAL AND COMPACTION  Testing OF FILLING MATERIAL AND COMPACTION  The following tests are to be carried out when and only if required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	22	1 '''	m2	2 600		
3       4       82       25       Allow for soil poisoning       m2       4 560         3       4       82       KERBING AND CHANNELING       H2         3       4       82       26       Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7       m       450         3       4       82       27       Precast concrete kerbs Figure 5       m       375         3       4       82       TESTING OF FILLING MATERIAL AND COMPACTION       H2         3       4       82       GENERAL       H4         3       4       82       The following tests are to be carried out when and only if required by the Architect/Engineer         3       4       82       The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	23		m2	1 960		
3 4 82 KERBING AND CHANNELING  Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure m 450  TESTING OF FILLING MATERIAL AND COMPACTION  The following tests are to be carried out when and only if required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	24	1 3	m	0		
3 4 82 26 Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure m 450  3 4 82 27 Precast concrete kerbs Figure 5 m 375  3 4 82 TESTING OF FILLING MATERIAL AND COMPACTION H2  3 4 82 GENERAL H4  3 4 82 The following tests are to be carried out when and only if required by the Architect/Engineer  3 4 82 The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	25	Allow for soil poisoning	m2	4 560		
7 3 4 82 27 Precast concrete kerbs Figure 5 m 375  3 4 82 TESTING OF FILLING MATERIAL AND COMPACTION H2  3 4 82 GENERAL  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	3	4	82		KERBING AND CHANNELING	H2			
3 4 82 TESTING OF FILLING MATERIAL AND COMPACTION  3 4 82 GENERAL  The following tests are to be carried out when and only if required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	26	Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7	m	450		
3 4 82 GENERAL  The following tests are to be carried out when and only if required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82	27	Precast concrete kerbs Figure 5	m	375		
The following tests are to be carried out when and only if required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82		TESTING OF FILLING MATERIAL AND COMPACTION	H2			
required by the Architect/Engineer  The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and	3	4	82		<u>GENERAL</u>	H4			
to the publication, Standard Methods of Testing Materials and	3	4	82		l , , , , , , , , , , , , , , , , , , ,				
	3	4	82		to the publication, Standard Methods of Testing Materials and				

3	SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Section   Sect	1				Allow for testing of approved filling material in an approved			<u> </u>	3
by means of the Santh Applications to the Horizontal Action   BREAKING UP EXISTING PAVEMENT LAYERS					<u> </u>				
3 4 83 35 (b) Carrented material (core internal flow or i	3	4	82	29	by means of the Sand Replacement Method according to S M T	Item	1		
3 4 83 30 (i) Material intended for recycling with the average depth of excevation   3 4 83 30 (i)Exceeding 30mm but not exceeding 60mm   5 4 83 31 Excevaring and spoiling material from an axisding preventent and /or the underlying fill   5 4 83 32 Excivating material from an existing povement and /or the underlying fill in material exceeding 50mm   5 4 83 32 Excivating material from an existing povement and /or underlying fill in material exceeding 50mm   6 (i) Extra over feen 38.01 for bibirminous material excevated separately   7 (ii) Extra over feen 38.01 for bibirminous material excevated separately   8 83 83 83 83 83 83 83 83 83 83 83 83 83					BREAKING UP EXISTING PAVEMENT LAYERS				
(a) Malertial interested for recycling with the average depth of excession of the content of the	3	4	83		Excavating and removing existing bituminous material				
3 4 83 31  (i)Exceeding 30thm but not exceeding 80mm Excavating and spoiling material from an existing powernert and for the underlying fill:  (b) Cemented material  (c) Extra over item 38.01 for billuminous material excavated separately  (d) Extra over item 38.01 for billuminous material excavated separately  (d) Extra over item 38.01 for billuminous material excavated separately  (d) Extra over item 38.01 for billuminous material excavated separately  (d) Extra over item 38.01 for billuminous material excavated separately  (d) Extra over item 38.01 for commented pavement  (d) Cemented material  (e) Extra over item 38.01 for other existing pavement  (f) Cemented material  (g) Extra over item 38.01 for other existing pavement  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for patching with  (g) Cemented material  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for patching with  (g) Extra over item 38.01 for patching with  (g) Extra over item 38.01 for patching with  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for patching with  (g) Extra over item 38.01 for other existing pavement  (g) MSP1  (g) Extra over item 38.01 for patching with a surface area  (g) MSP1  (g) Extra over item 38.01 for patching with a surface area  (g) MSP1  (g) MSP1  (g) MSP1  (g) Extra over item 38.01 for patching with a patching with a surface area  (g) MSP1  (g) MSP1  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for other existing pavement layers  (g) Extra over item 38.01 for other existing pavement  (g) MSP1  (g) Extra over item 38.01 for other existing pavement  (g) MSP1  (g) Extra over item 38.01 for other existing pavement  (g) MSP1  (g) Extra over item 38.01 for other existing pavement  (g) Extra over item 38.01 for other existing pavement  (g) Extra over item 38.01 for other existing pavement  (g) Extr	3	4	83		(a) Material intended for recycling with the average depth of excavation				
3 4 83 31 Exercised and spotling material from an existing powement and for the underlying fill. 3 4 83 32 Exercised material 3 4 83 32 Exercised material 3 4 83 32 Exercised material from an existing powement and for underlying fill in restricted areas (ii) Extra over item 38.01 for bituminous material exercised expanded segmentely (iii) Extra over item 38.01 for bituminous material exercised expanded segmentely (iii) Extra over item 38.01 for bituminous material exercised expanded segmentely (iii) Exercised material 3 4 83 33 (iii) Extra over item 38.01 for bituminous material exercised segmentely (iii) Exercised material 3 4 83 35 (iii) Exercised material 3 4 83 36 (iii) Exercised material 3 4 83 36 (iii) Exercised material 3 5 85 (iii) Not exceeding sim2 (iii) Exerciseding sim2 but not 100m2  3 5 85 (iii) Not exceeding sim2 (iii) Exerciseding sim2 but not 100m2  3 5 85 (iii) Not exceeding sim2 (iii) Exerciseding sim2 (iiii) Exerciseding sim2 (iii) Exerciseding sim2 (iii) Exerciseding sim2 (iii)	3	4	83	30					
Excavating and spoiling material from an existing pavement and /or the underlying fill:    Compacting material	2	4	02		(ii)Exceeding 30mm but not exceeding 60mm	m2	0		
Scavarding material from an existing pavament and for underlying fill in restricted areas  (a) Extra over item 38.01 for bituminous material excavated separately  (b) Extra over item 38.04 to other existing pavament (c) Cemented material  (c) Cemented material  (c) Sawing or cutting asphalt or cemented pavement layers  (d) Sawing or cutting asphalt or cemented pavement layers  (e) Sawing or cutting asphalt or cemented pavement layers  (e) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Sawing or cutting asphalt or cemented pavement layers  (f) Not exceeding 5m2 but not 100m2  (f) Not exceeding 5m2 but not 100m2  (f) Not exceeding 5m2 but not 100m2  (f) Sasailly asphalt or cemented from a surface area  (f) Not exceeding 5m2 but not 100m2  (f) Sasailly asphalt asphaltization extra over unstabilized comprised by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized by sasilized b	3	4	03		Excavating and spoiling material from an existing pavement and /or the underlying fill:				
3	3	4	83		(b) Cemented material	m³	0		
3	3	4	83	32	Excavating material from an existing pavement and /or underlying fill in restricted areas				
Commented material   Comment	2		ρo		(a) Extra over item 38.01 for bituminous material excavated separately	m2	Rate Only		
3					(b)Extra over item 38.04 for other existing pavement				
3	3	4	83		(ii) Cemented material	m³	Rate Only		
3	3	4	83		Sawing or cutting asphalt or cemented pavement layers				
Backfiling of excavations for patching with   (a) Chemically stabilized base for a patch with a surface area	3	4	83	34	(a) Sawing asphalt	m2	0		
3	3	4	83		Backfiling of excavations for patching with				
(ii)   Exceeding 5m2 but not 100m2	3	4	83		(a) Chemically stabilized base for a patch with a surface area				
3   5   85	3	4	83	36	(i) Not exceeding 5m2	m³	0		
3   5   85					(ii)Exceeding 5m2 but not 100m2	m³	0		
3   5   85					Compacting the floor of excavations for patching	m2	0		
3   5   85	3	5	85		STABILIZATION				
3   5   85   (a) Base layer, 150mm thick	3	5	85						
3   5   85     (a) Ordinary portland cement   t   0   (b) Slaked road lime   t   Rate 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   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 equipment   litre   0     3   5   85   Asphalt surfacing   Asphalt su	3	5	85			m³	0		
3   5   85					Chemical stabilizing agent:	t			
3   5   85	3	5	85						
Provision and application of water for curing  PRIME COAT  Prime coat:  (a) MC-30 cut back bitumen  (b) MSP1  Aggregate for blinding  Aggregate for blinding  Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment  ASPHALT PAVEMENTS AND SEALS  Asphalt surfacing					(р) эместоястине	ľ			
PRIME COAT					Provision and application of water for curing	kl	0		
(a) MC-30 cut back bitumen (b) MSP1  Aggregate for blinding  Aggregate for blinding  Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment  ASPHALT PAVEMENTS AND SEALS Asphalt surfacing	3	5	85		PRIME COAT				
3 5 85 (b) MSP1 litre Rate 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 equipment litre 0  ASPHALT PAVEMENTS AND SEALS Asphalt surfacing					Prime coat:				
3 5 85   (b) MSP1   litre   Rate   Only   Aggregate for blinding   m²   Rate   Only    State   Rate   Only    Aggregate for blinding   m²   Rate   Only    Extra over item 41.01 for applying the prime   coat in areas accessible only to hand held   equipment   litre   O    ASPHALT PAVEMENTS AND SEALS   Asphalt surfacing   Asph	2	5	g <sub>5</sub>		(a) MC-30 cut back bitumen	litre	0		
Aggregate for blinding  Aggregate for blinding  Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment  ASPHALT PAVEMENTS AND SEALS  Asphalt surfacing	3				(b) MSP1	litre			
3 5 85 Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment  ASPHALT PAVEMENTS AND SEALS Asphalt surfacing	3	5	85		Aggregate for blinding		Rate		
3 5 85 coat in areas accessible only to hand held equipment  ASPHALT PAVEMENTS AND SEALS  Asphalt surfacing									
3 5 85 equipment  ASPHALT PAVEMENTS AND SEALS  Asphalt surfacing	3	5	85						
3 5 85 Asphalt surfacing	3	5	85		equipment	litre	0		
	3	5	85						
	3	5	85		Asphalt surfacing ( 60/70 penetration grade bitumen)				
(a) Medium continously graded asphalt					(a) Medium continously graded asphalt				
(i)Thickness -30mm m² 0					(i)Thickness -30mm	m²	0		

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	5	85		Rolled in chippings (9.5mm)	- Citii	ζ	10,112	741100111
				(a) in surfacing	t	Rate		
3	5	85				Only		
3	5	85		Tack coat of 30% stable grade emulsion	litre	0		
3	5	85	1	ROADS AND PARKING	ST			
3	4 4	81 81		SECTION NO. 3 BILL NO.5				
3	4	81		STORMWATER DRAINAGE				
				<u>Preambles</u>	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.				
	5	85		SUPPLEMENTARY PREAMBLES_	H4			
3	5	65	3					
3	5	85		Items, materials or methods	H4			
3	5	85		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				
3	5	85	4	methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.				
3	5	85	5	Concrete pipes	H4			
	_	0.5						
3	5	85		Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings				
3	5	85		Wire gratings	H4			
3	5	85	6	Descriptions of gutter outlets, etc shall be deemed to include				
				wire balloon gratings				
3	5	85	7	Exposed concrete surfaces	H4			
				Exposed surfaces of concrete stormwater channels, cover				
	_	0.5		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			
				EXCAVATION	Н3			
3	5	86		Excavate in all materials for trenches, backfill, compact and	m3	589		
3	5	86		dispose of surplus material for stormwater channel	IIIO	303		
3	5	86	11					
3	5	86	12	Extra-over item (a) above for:	H3			
				Intermidiate excavation	m3	265		
3	5	86		Hard rock excavation	m3	88		
3	5	86	13	BEDDING AND BACKFILLING	H2			
				Provision of Bedding from Trench Excavation	Н3			
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	m2	442		
				level where reinforced				
				Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the	m3	44		
3	5	86	16	engineer				
				High-Tensile Welded mesh	H3			
3	5	86	17	Ref. 245 welded mesh in floor slab	m2	442		
		55		Ref. 617 welded mesh in floor slab	m2			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	5	86		Mild steel bars	kg			
3	5	86	18	CONCRETE PIPES	H4			
				Supply, lay and bed pipes complete with couplings	Н3			
				450mm Diameter C50	m	120		
				600mm Diameter C50	m	75		
3	5	86						
3	5	86		Supply and lay RS40 Grating Unbanded and Banded Rectagrid or similar approved Grid for Storm water drainage	Н3			
	_	00		2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen	No	2		
3	5	86	19	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						
3	6	88		In-situ 20 MPa/19mm Concrete open stormwater channels finished on all exposed surfaces with woodfloat finish and	Н3			
3	6	88		with angles rounded, cast in approximately 2m lengths 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 m / m) next to existing wall and	m	275		
				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.	Н3			
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						
3	6	88		STONE PITCHING	H2			
3	6	88		Stone pitched of approximately 150mm diameter river stones tightly packed including preparation of ground	Н3			
3	6	88		surface under, top soil filling and planted with grass				
		00		150mm Thick lining to open ends of outfall spreaders, ditches,	m2	75		
				etc.				
3	6	88		STORMWATER DRAINAGE	ST			

SEC	BILL	PG	ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
3	6	88	2	SECTION NO. 3 BILL NO.6				
				FENCING AND LANDSCAPING				
3	6	89		<u>Preambles</u>	H4			
3	6	89						
				Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.				
3	6	89	3					
				SUPPLEMENTARY PREAMBLES	H4			
3	6	89	4	Items, materials or methods	H4			
3	6	89	5	Items, materials or methods to be used specified by trade				
J		00		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					
				WORK GROUP 124	H4			
3	7	92	1					
3	7	92	2	GALVANIZED STEEL PALISADE FENCING	H2			
3	7	92	3	Palisade fencing, consisting of 75 x 75 x 4mm posts with 230 x 230mm foot plate welded on, 50 x 50 x 5mm angle	Н3			
				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 and cast in 600 x 600 x 800mm class C concrete bases on				
3	7	92	5	600 x 600 x 150mm selected fill and with 200 x 200mm				
3	7	92	6	Class C concrete ground beam along full length of fence				
				Supply and install 2400mm high fencing	m			
				Supply and install 2100mm high fencing	m			
				Supply and install 1800mm high fencing	m	1 175		
				Gates formed of 50 x 75mm rectangular hollow section	Н3			
				frame with two horizontal braces and filled in with 10mm	пз			
				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 and v-track including 600mm extension on top for razor wire	No	1		
				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-		
						-91 <b>-</b>	<u> </u>	
	1			TOTAL	ST	I	1	İ

	FINAL SUMMARY			
Section No		Page No		Amount
1	PRELIMINARIES AND GENERAL	1/30		
2	3 CLASSROOM BLOCK X 2	2/39		
3	4 CLASSROOM BLOCK	3/39		
4	10 SEATS ENVIROLOO TOILET BLOCK	4/41		
5	4 SEATER ENVIROLOO TOILET BLOCK	5/41		
6	MEDIUM ADMINISTRATION BLOCK	6/43		
7	3 CLASSROOM GRADE R BLOCK	7/42		
8	4 SEATS WATERBORNE TOILET BLOCK X 2	8/38		
9	RENOVATIONS (12 CLASSROOMS AND 24 WATERBORNE TOILET SEATS))	9/43		
10	PROVISIONAL SUMS	10/6		
	Sub- Total (PART A - MAIN BUILDING WORKS)		R	
	PART B - ELECTRICAL WORK			
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL 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 900 000.00 ( One Million Nine 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	

	FINAL SUMMARY				_
Section		Page		Amount	
No	Brought Forward	No	R		
	PRICE ADJUSTMENT FOR INFLATION TO				
	THE CONTRACT				
	Inflation:				
	Allow on amount of P1 000 000 00 ( One Million Nine				
	Allow an amount of R1 900 000.00 ( One Million Nine Hundred Thousand ) for price adjustment for inflation.				
	, , ,	Item			
	Sub- Total Excluding VAT		R		
	Tax		R		
	IGA		K		
					_
	Carried to Form of Tender		R		
					=

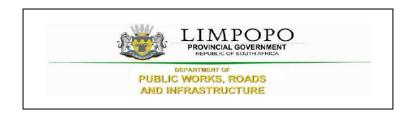
# PART C3 SCOPE OF WORKS



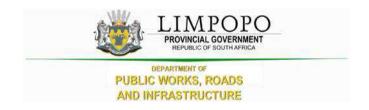
# PART C3.1: SPECIAL NOTES TO BIDDERS

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

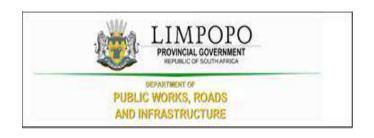
- 1.1.LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2.LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right 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

## FINISHES LEGEND

## F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

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

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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.

## 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

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 files to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall files 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 otches 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:**

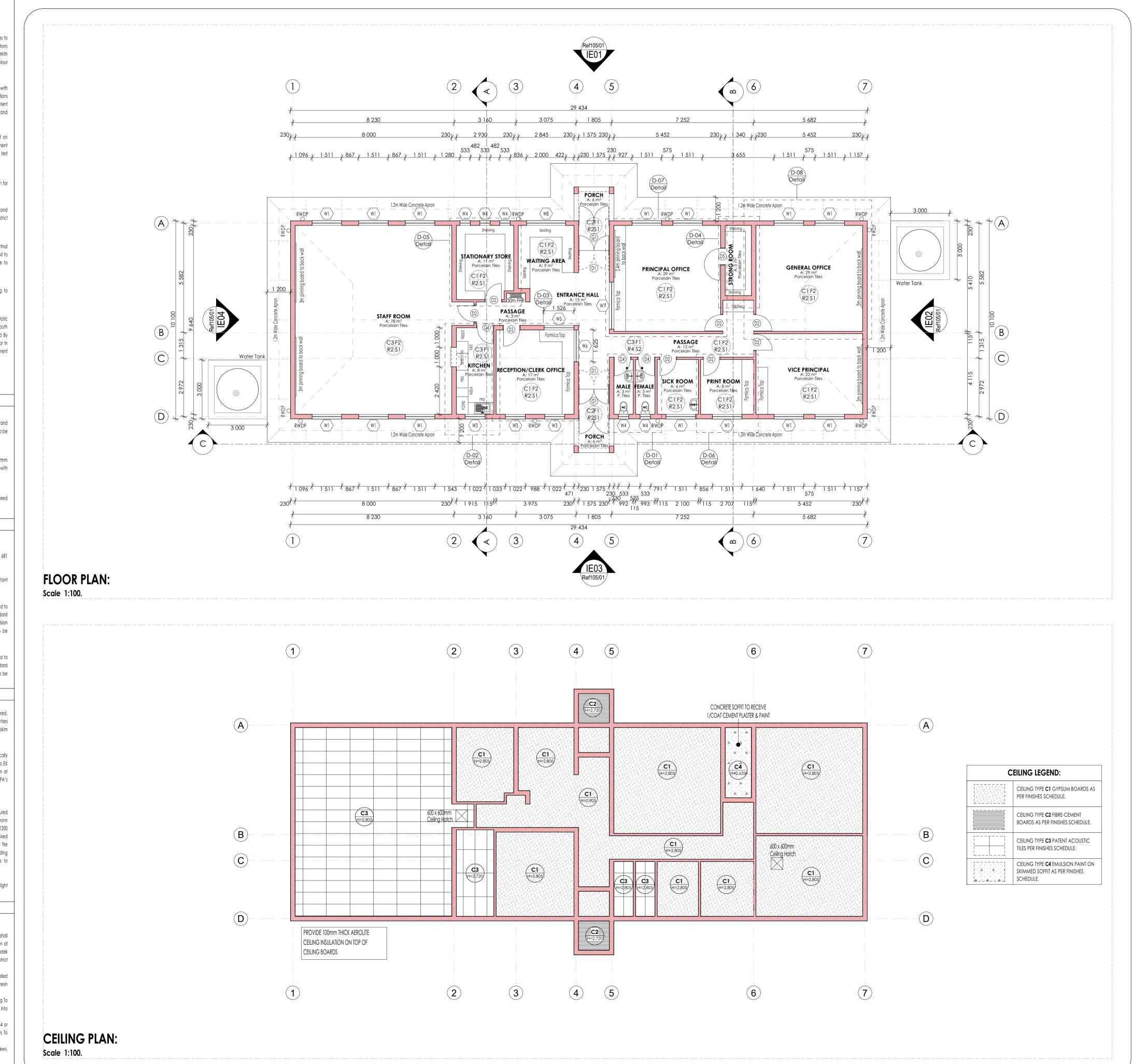
ER1: EMBOSSED ROOFING SHEET (TWO SIDES) **Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

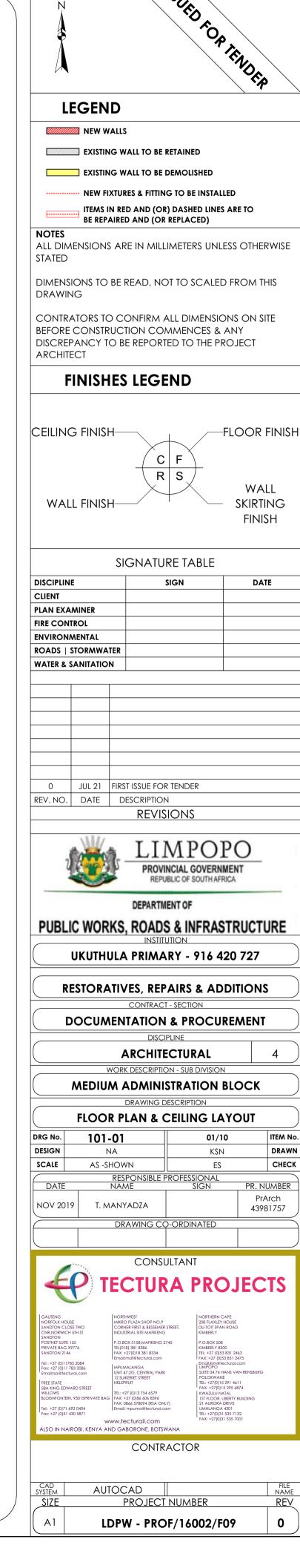
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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





## FINISHES LEGEND

## F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

## F2: PORCELAIN TILES -MATT

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

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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.

**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.

# 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.

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.

S3: CEMENT SAND SCREED

## **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 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 files 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.

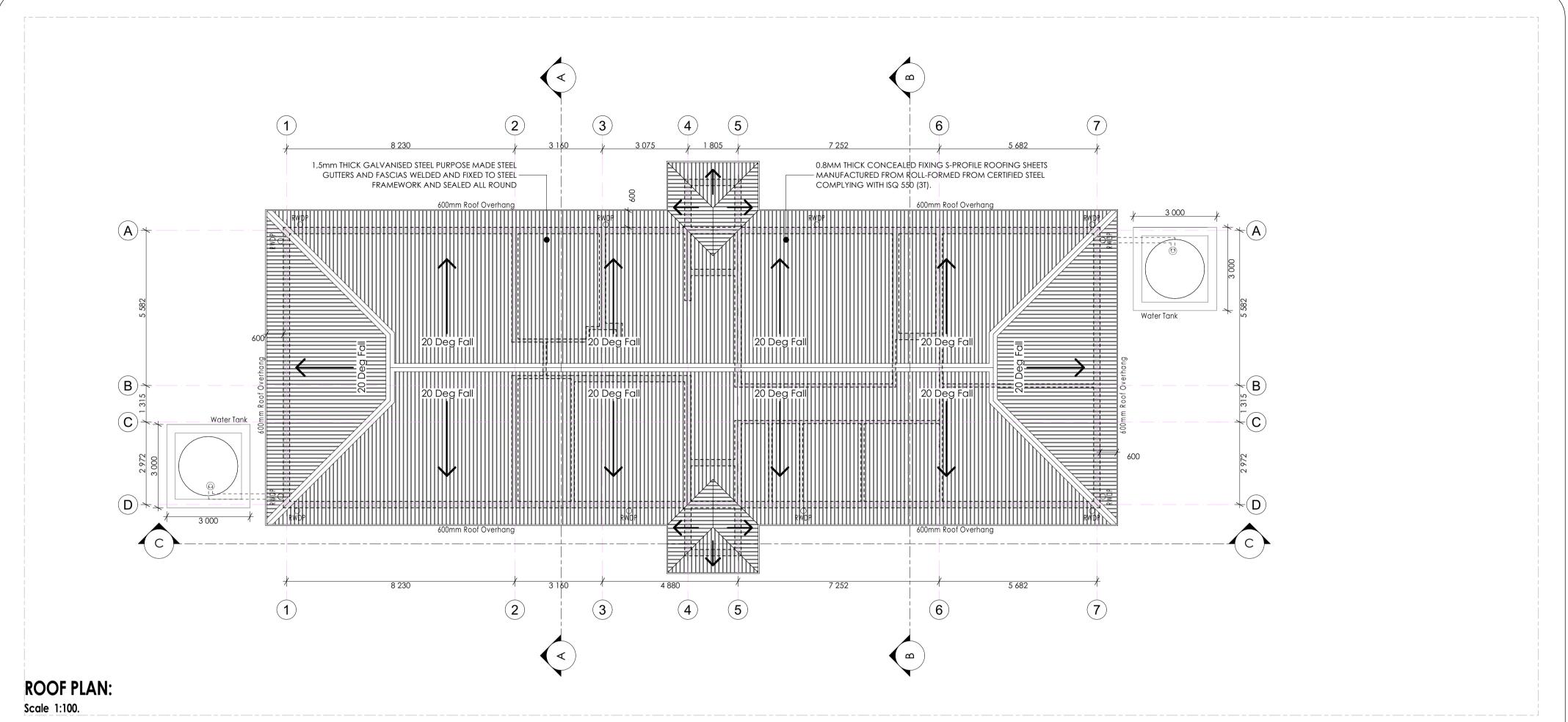
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

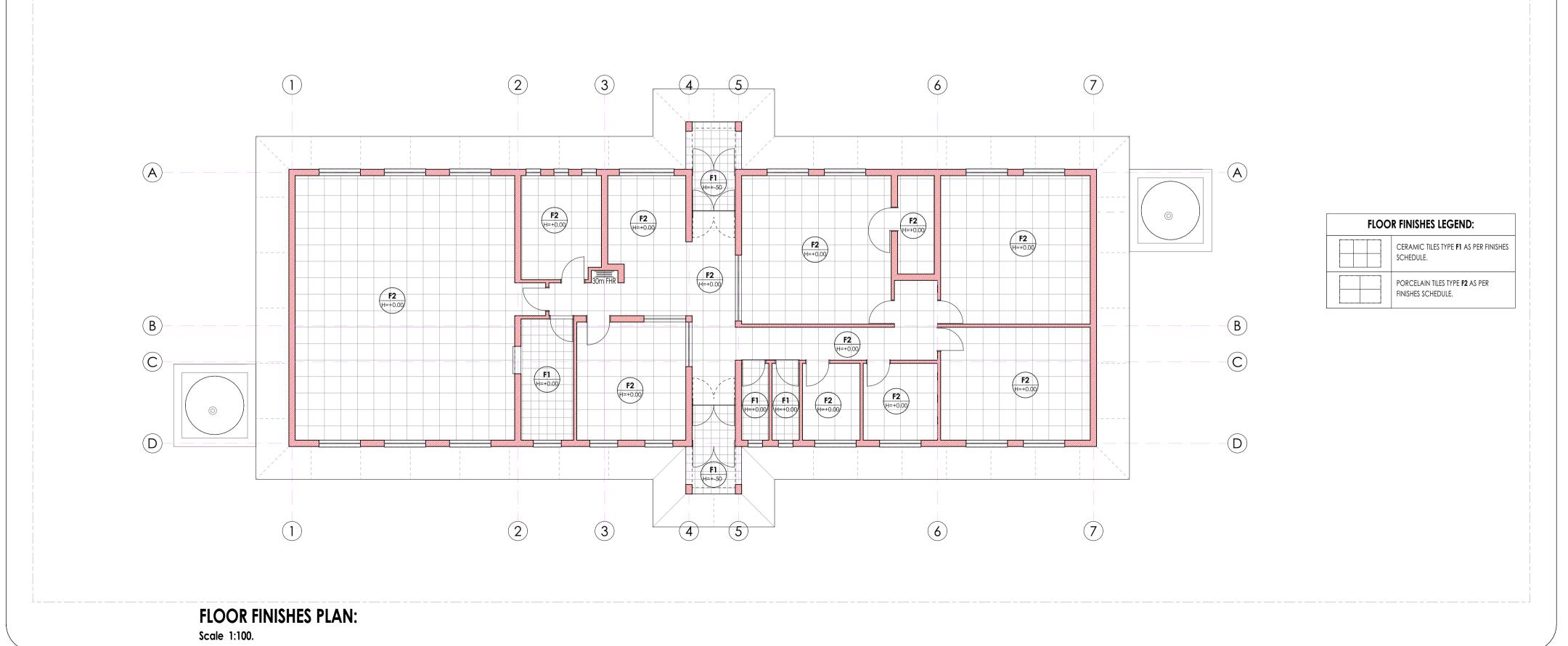
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

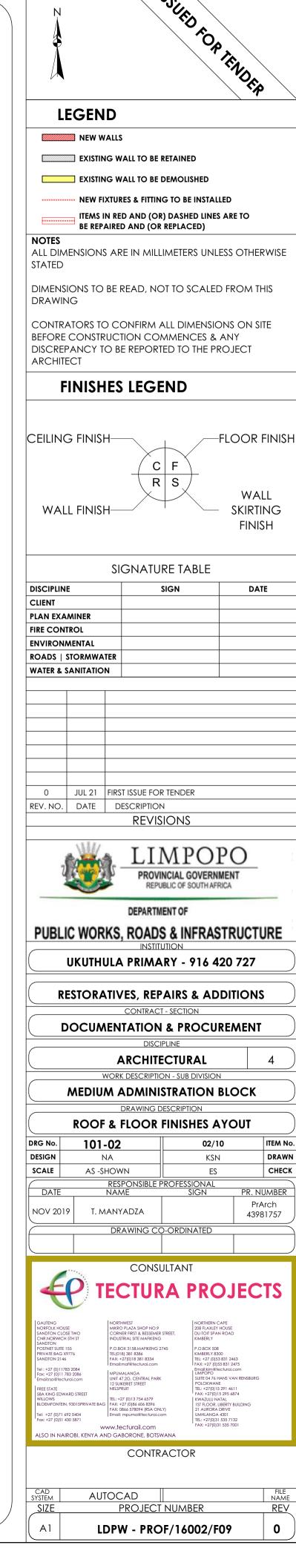
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or

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.









## FINISHES LEGEND FLOORS:

## F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

## F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

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### F4: CEMENT SAND SCRE

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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)

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# F9: GRAVEL FINISH ON SAND LAYER

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"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.

## 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 \$ABS 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.

# 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.

S3: CEMENT SAND SCREED

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

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.

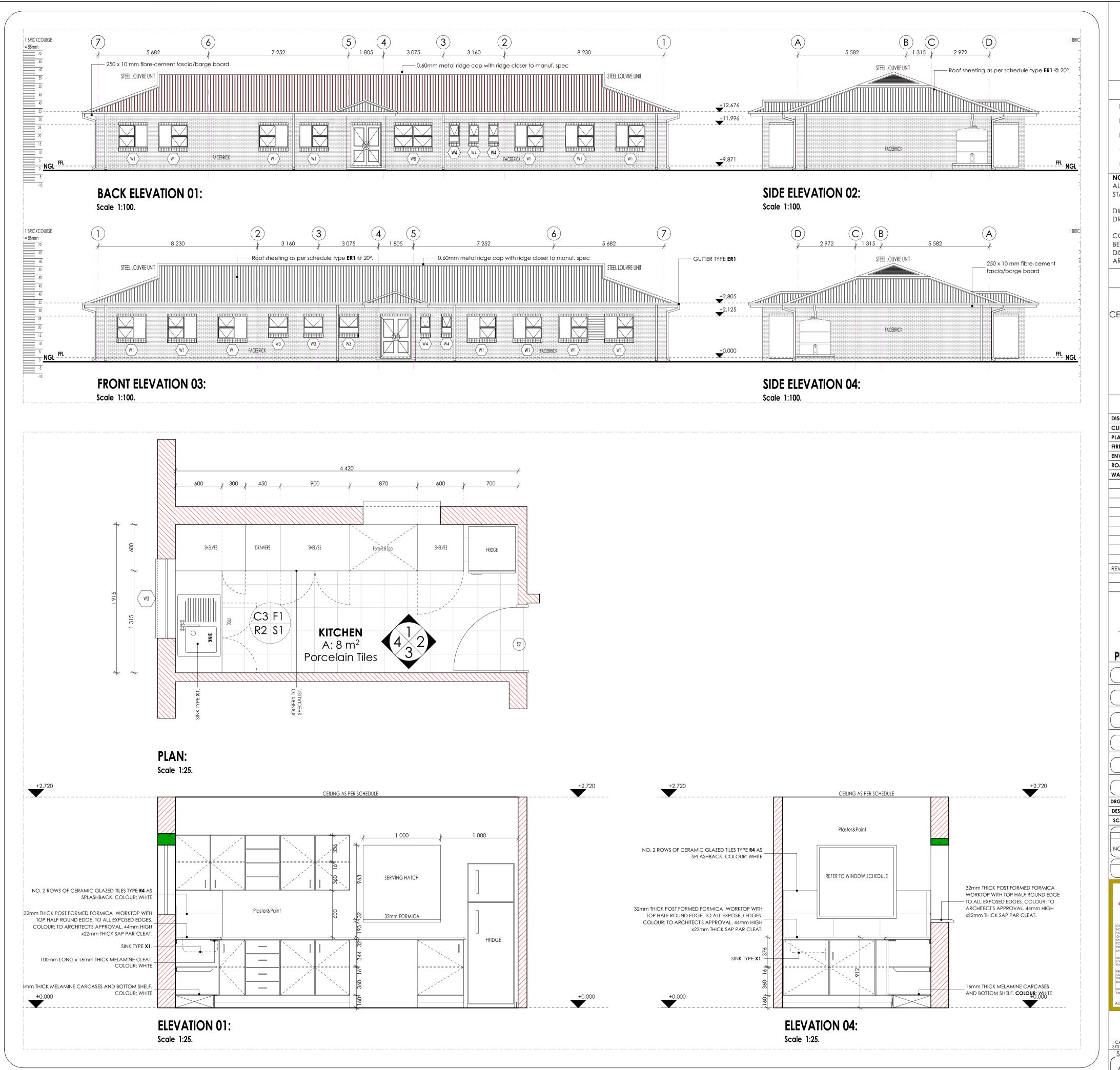
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

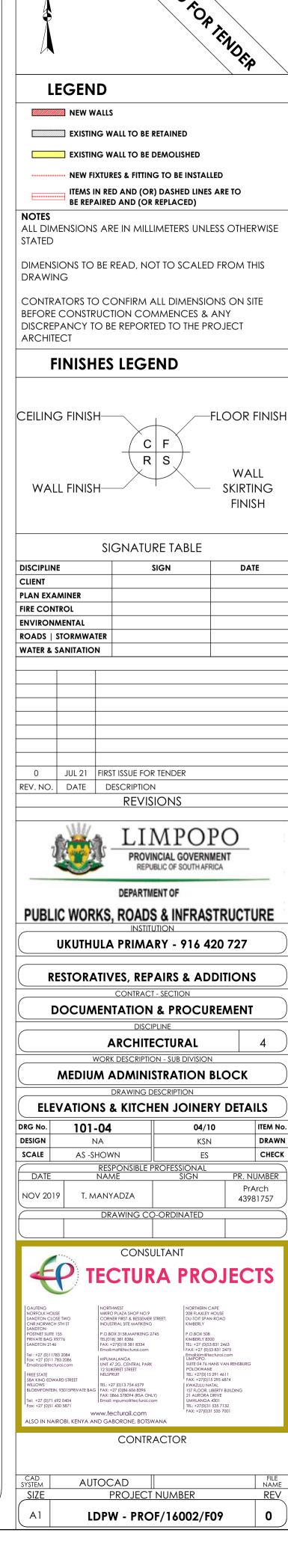
Galvanised Steel (G1) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To

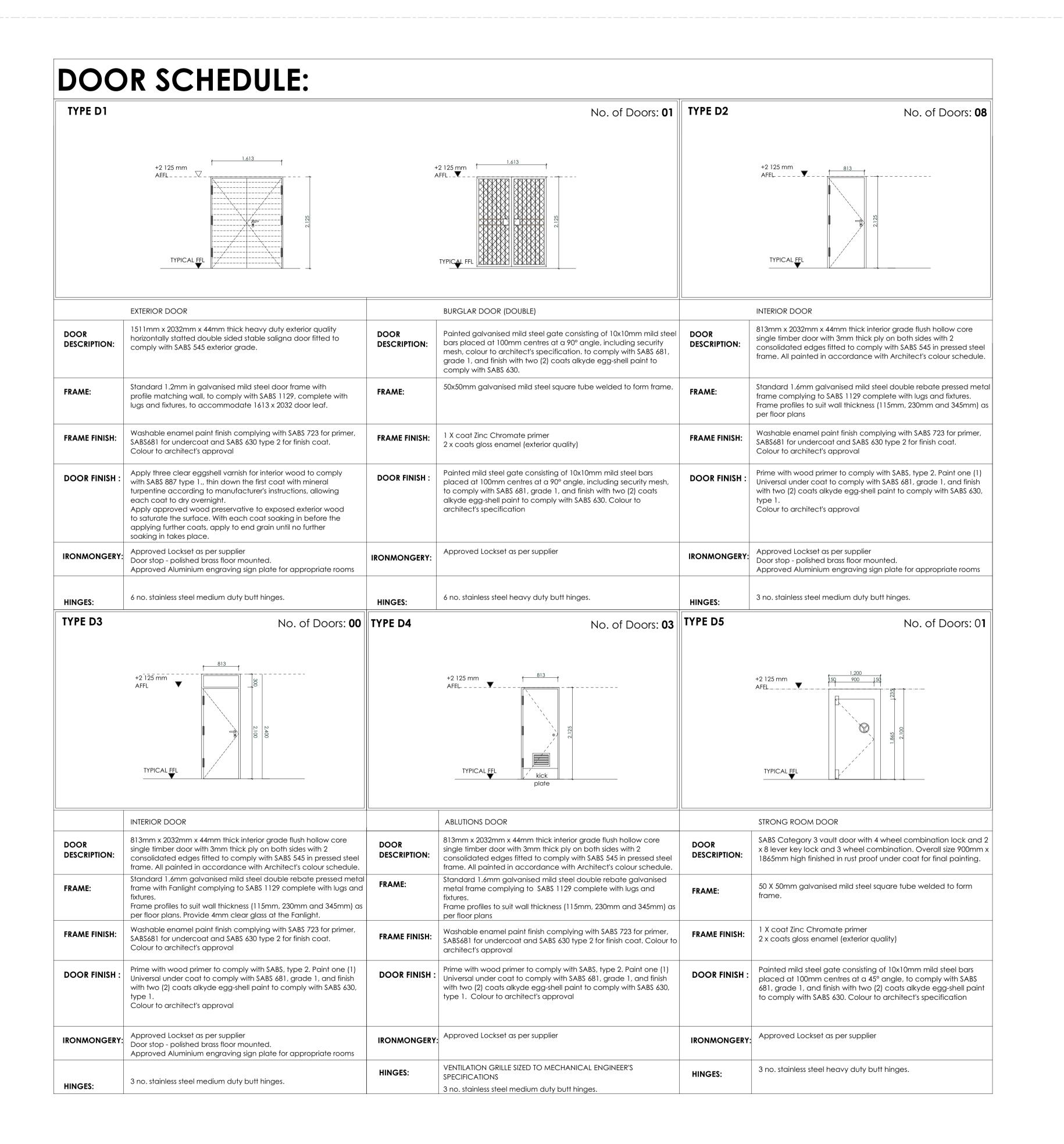
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

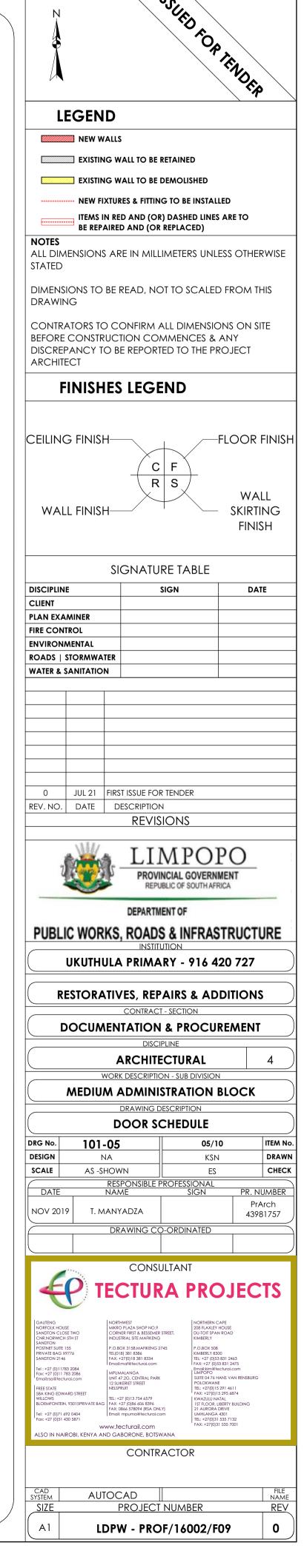
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or

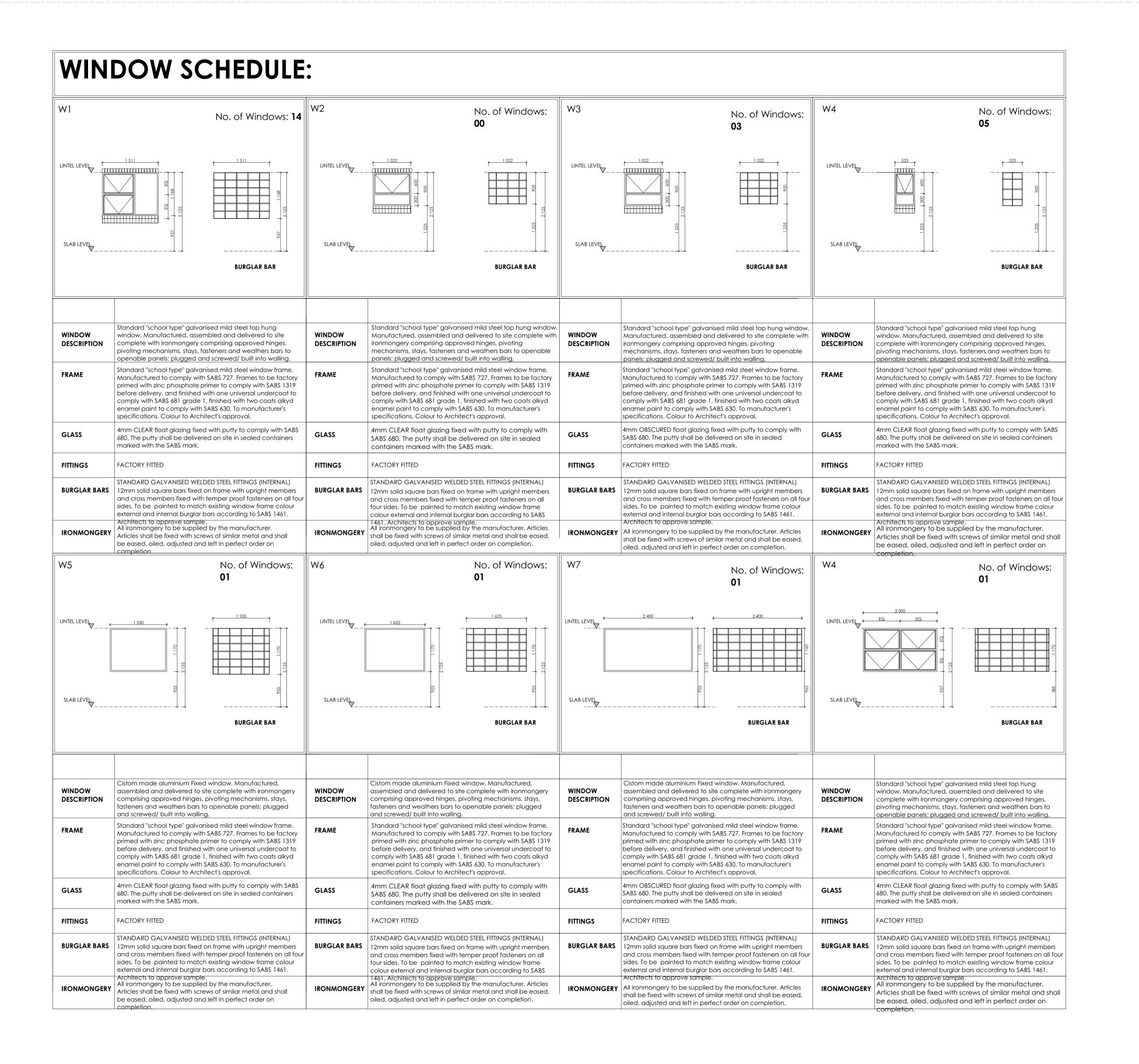
Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

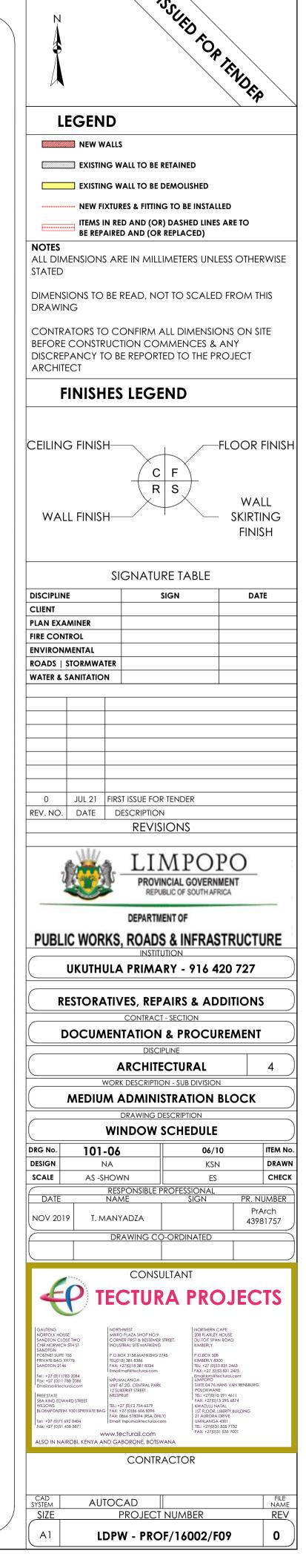












## **SANITARY SCHEDULE** WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

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.

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

/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**

Vaal Sanitaryware' vitreous china size 560 x 415mm rounded 'Tuscany', OR EQUAL AND APPROVE basin to comply with SABS 497 with single taphole configuration supplied with integrated overflow and chainstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 1No. 'Cobra Watertech' 15mm chrome pushbutton demand pillar tap with flanged backnut (code KM2.102) metering tap, 309-32 CP anti-theft plug with spindle, 308 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

## **B2: DISABLED BASIN**

Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

## **B3: WHITE GLAZED PORCELAIN WHB (VANITY)**

Ceramic fireclay size 450x350mm oval self-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

## **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

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 elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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 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 dome-

## headed mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1,5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

## K4: SANITARY BIN (PLASTIC) 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.

# 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

# 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

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

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.

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)

17 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.

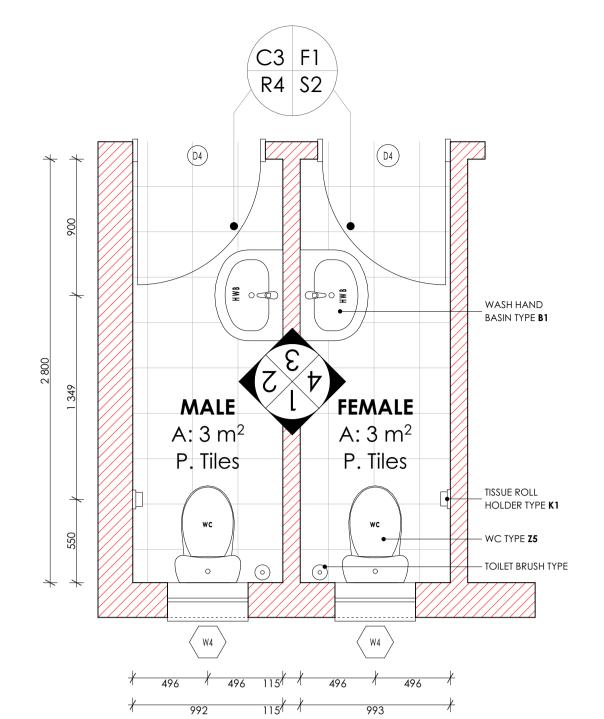
## G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

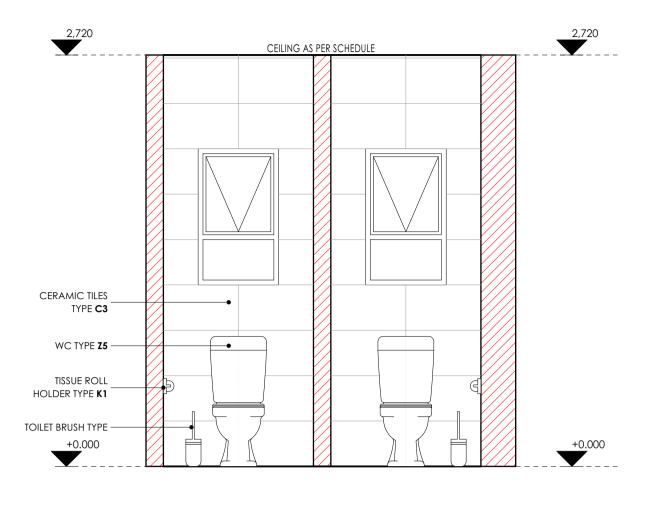
# **G7: SS FLOOR EXPANSION JOINT COVER**

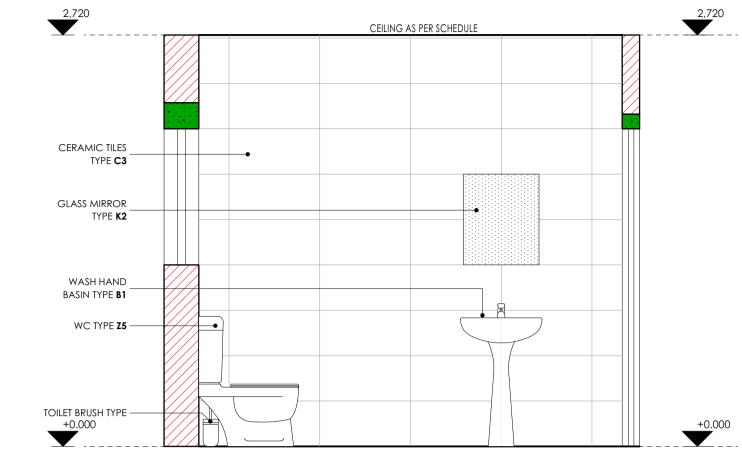
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

# **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 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.



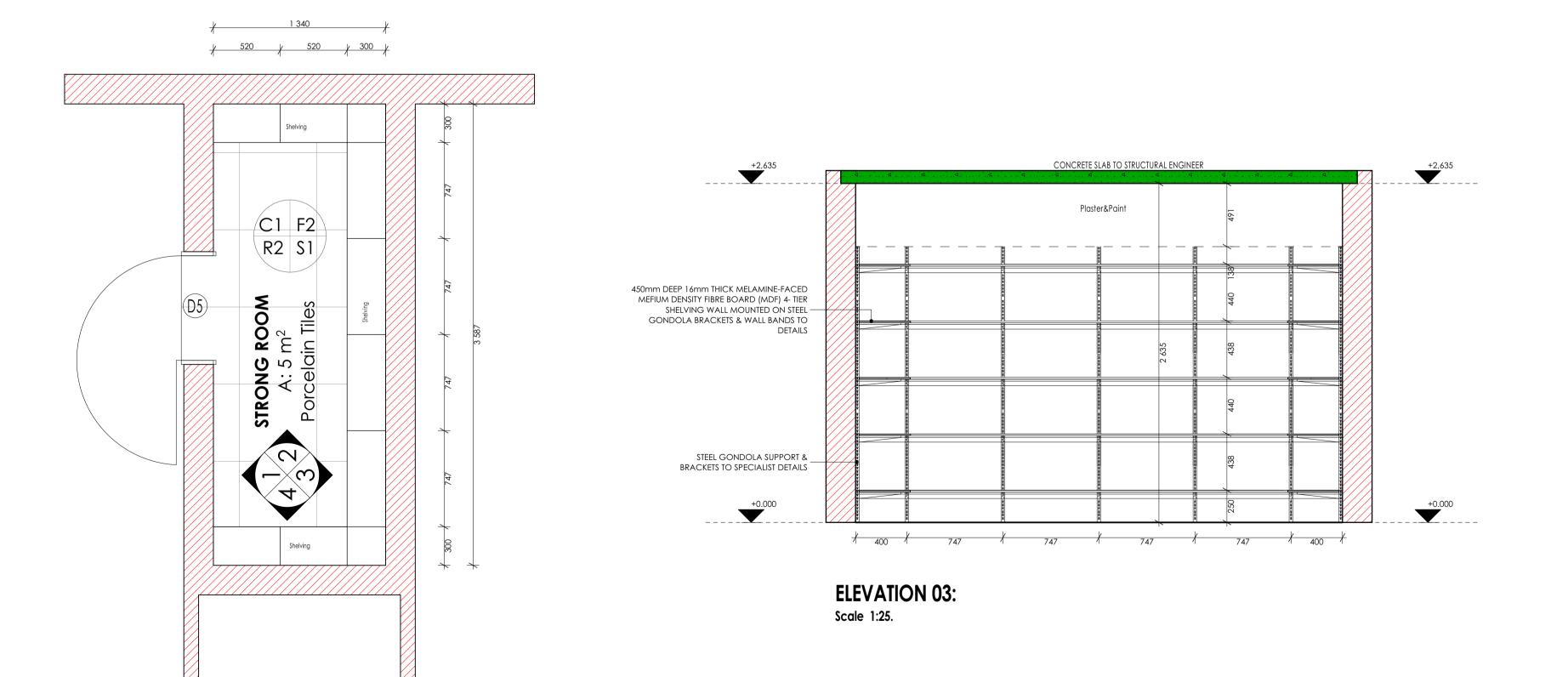




**ABLUTIONS PLAN:** Scale 1:25.

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

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



STRONG ROOM PLAN: Scale 1:25.

EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT FINISHES LEGEND -FLOOR FINISH WALL **SKIRTING** FINISH SIGNATURE TABLE DATE 0 JUL 21 FIRST ISSUE FOR TENDER REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS CONTRACT - SECTION **DOCUMENTATION & PROCUREMENT ARCHITECTURAL** WORK DESCRIPTION - SUB DIVISION MEDIUM ADMINISTRATION BLOCK DRAWING DESCRIPTION ABLUTIONS & STRONG ROOM DTLS ITEM No. KSN CHECK RESPONSIBLE PROFESSIONAL NAME SIGN PR. NUMBER 43981757 DRAWING CO-ORDINATED CONSULTANT

LEGEND

MEW WALLS

DRAWING

ARCHITECT

CEILING FINISH—

WALL FINISH

DISCIPLINE

PLAN EXAMINER

FIRE CONTROL

**ENVIRONMENTAL** ROADS | STORMWATER **WATER & SANITATION** 

REV. NO. DATE DESCRIPTION

101-07

AS -SHOWN

T. MANYADZA

www.tecturail.com

CONTRACTOR

PROJECT NUMBER

LDPW - PROF/16002/F09

LSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

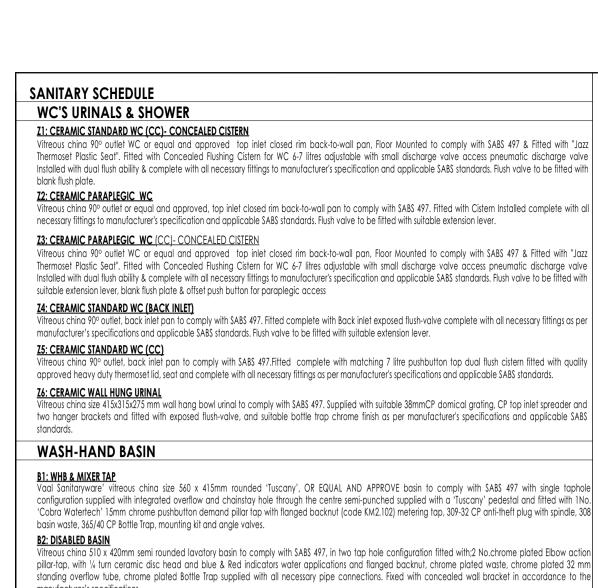
AUTOCAD

SCALE

NOV 2019

DISCIPLINE

CLIENT



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

# Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm

## standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications. **B3: WHITE GLAZED PORCELAIN WHB (VANITY)** Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with:

## 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict 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

## **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

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 elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

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

# 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 K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary

accessories in accordance to manufacturer's specifications.

## 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.

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

## 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

K11: HAND DRYER (Hands free)

installed in accordance to manufacturer's specifications.

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

# 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

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

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.

## 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.

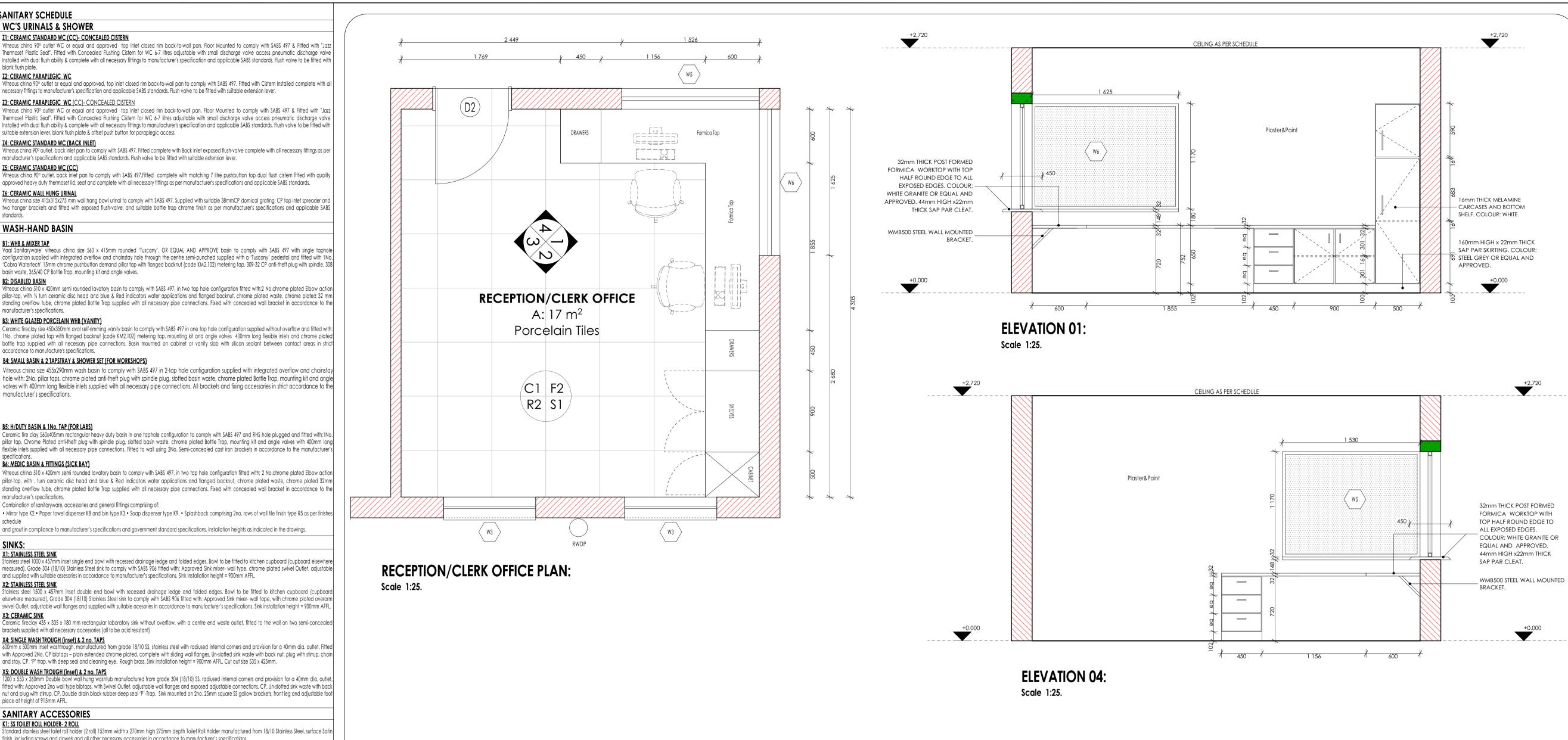
## G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

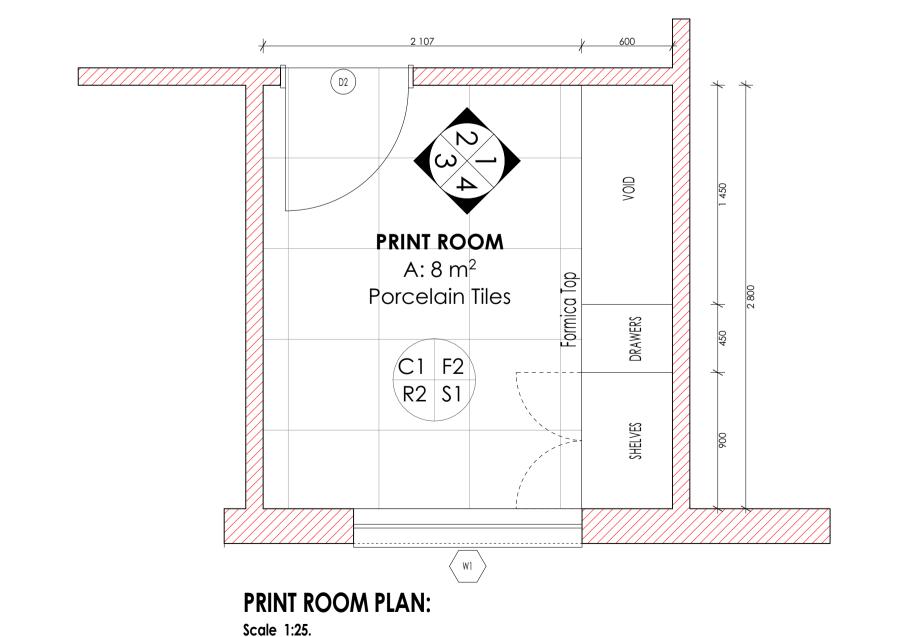
# **G7: SS FLOOR EXPANSION JOINT COVER**

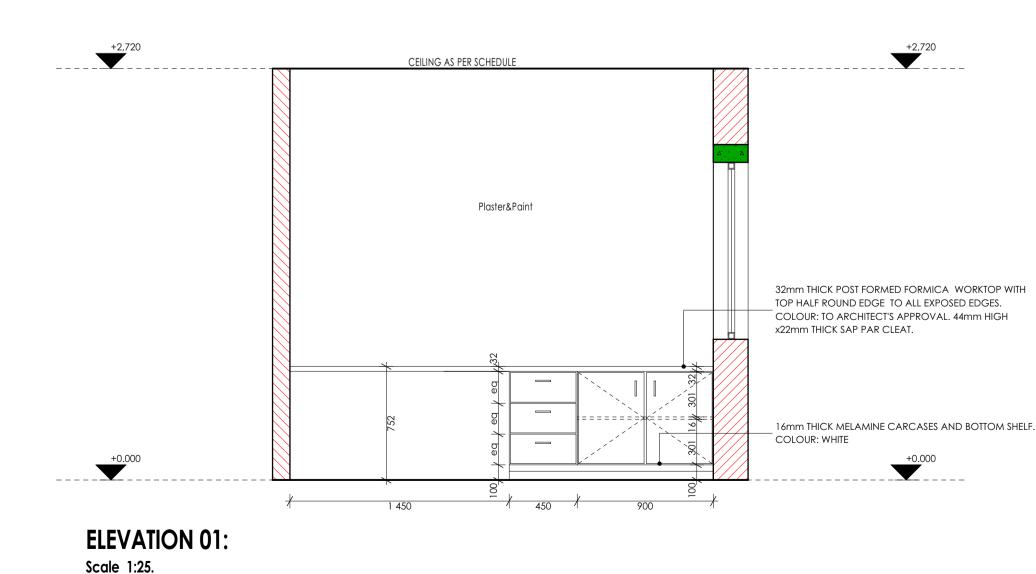
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

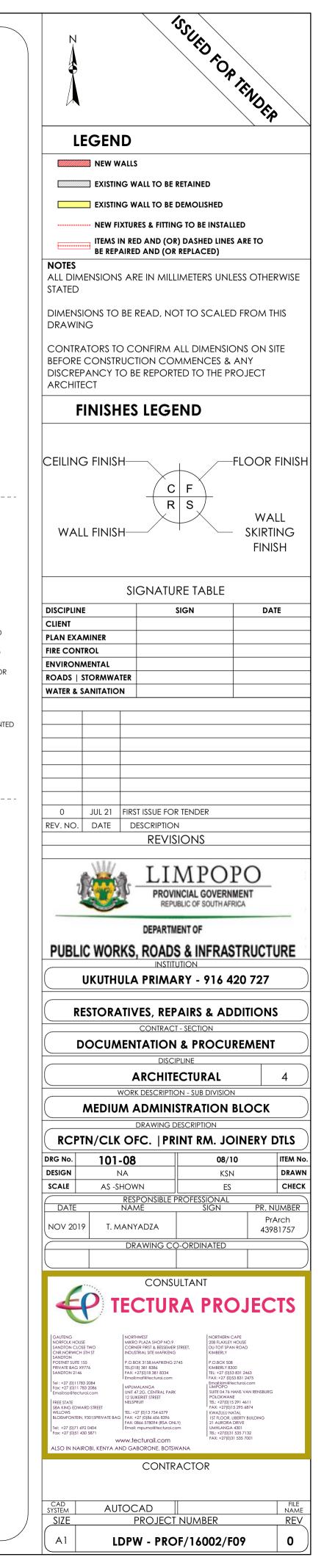
# **G8: CHALKBOARDS- GREEN SURFACE COLOUR**

/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 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.









# **SANITARY SCHEDULE**

## WC'S URINALS & SHOWER

## Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

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

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

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

## 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.

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**

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.

Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

# **B3: WHITE GLAZED PORCELAIN WHB (VANITY)**

Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacture's specifications.

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

Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2-tap hole configuration supplied with integrated overflow and chainstay hole with; 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

## B5: H/DUTY BASIN & 1No. TAP (FOR LABS)

Ceramic fire clay 560x405mm rectangular heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1No. pillar tap, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's

## **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

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 elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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

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.

### 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

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

## 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.

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**

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.

# 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

K11: HAND DRYER (Hands free)

# 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

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

200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m lenath, 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.

# 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

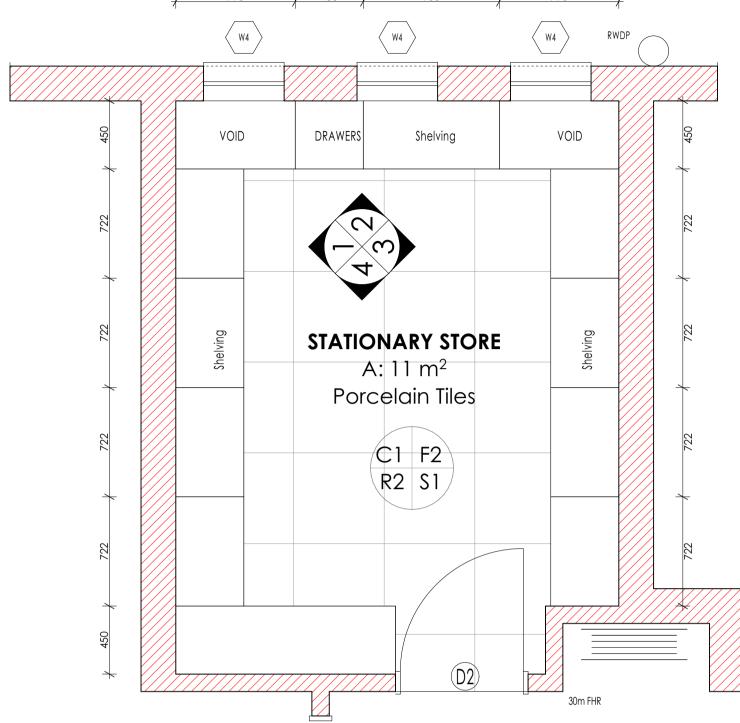
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

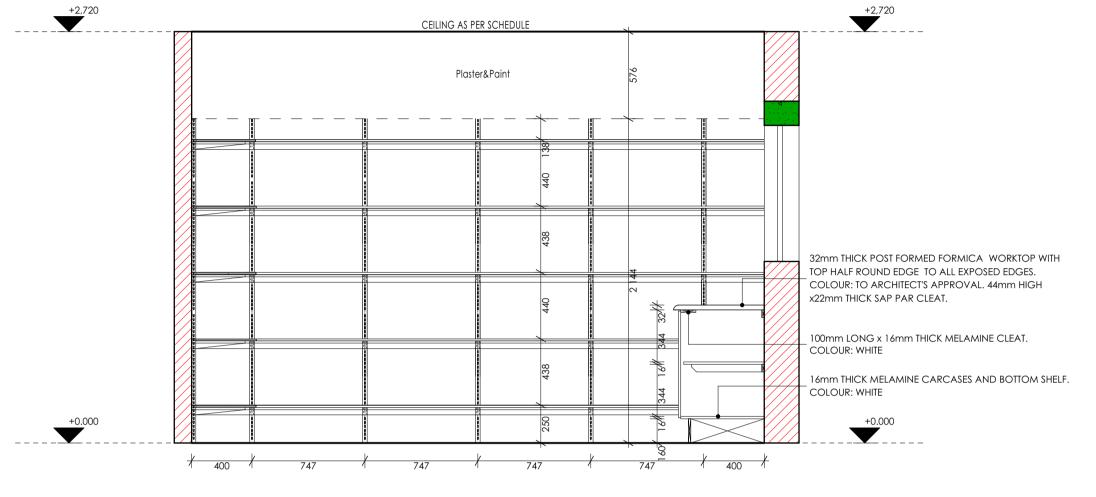
# **G7: SS FLOOR EXPANSION JOINT COVER**

# 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 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.

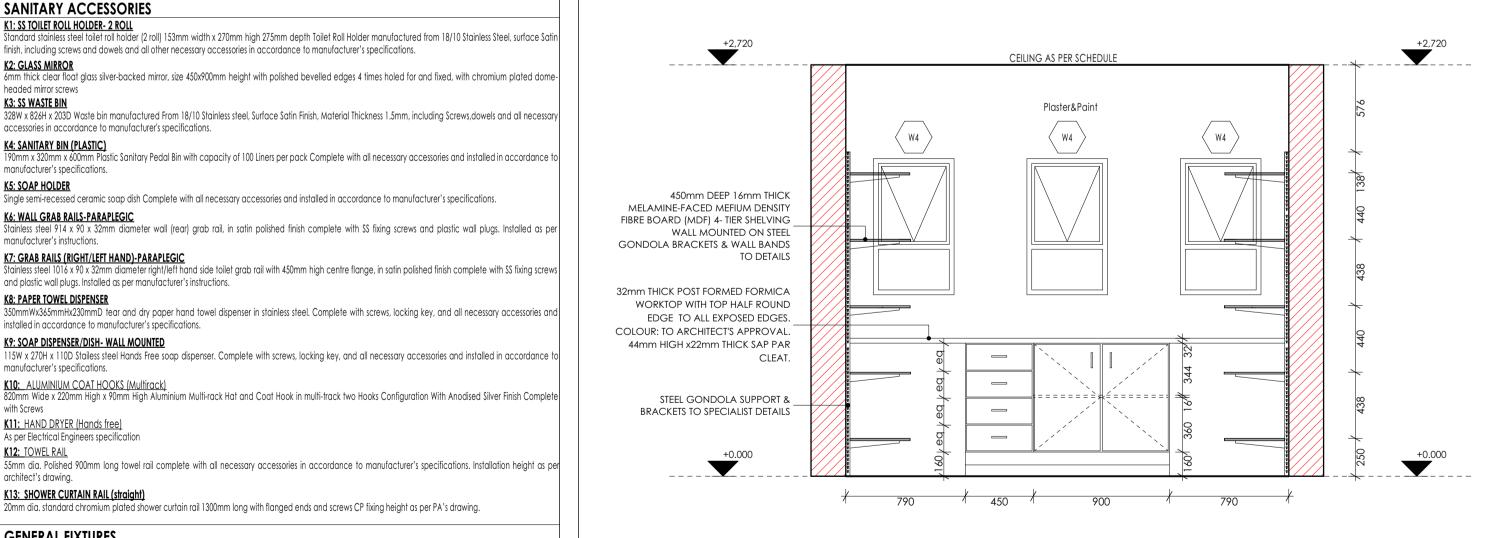




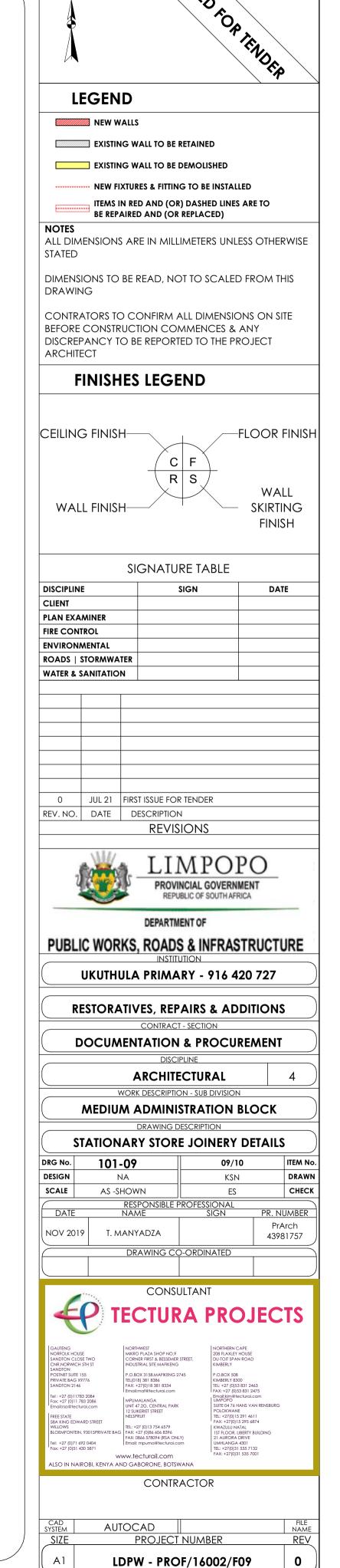
**ELEVATION 01:** 

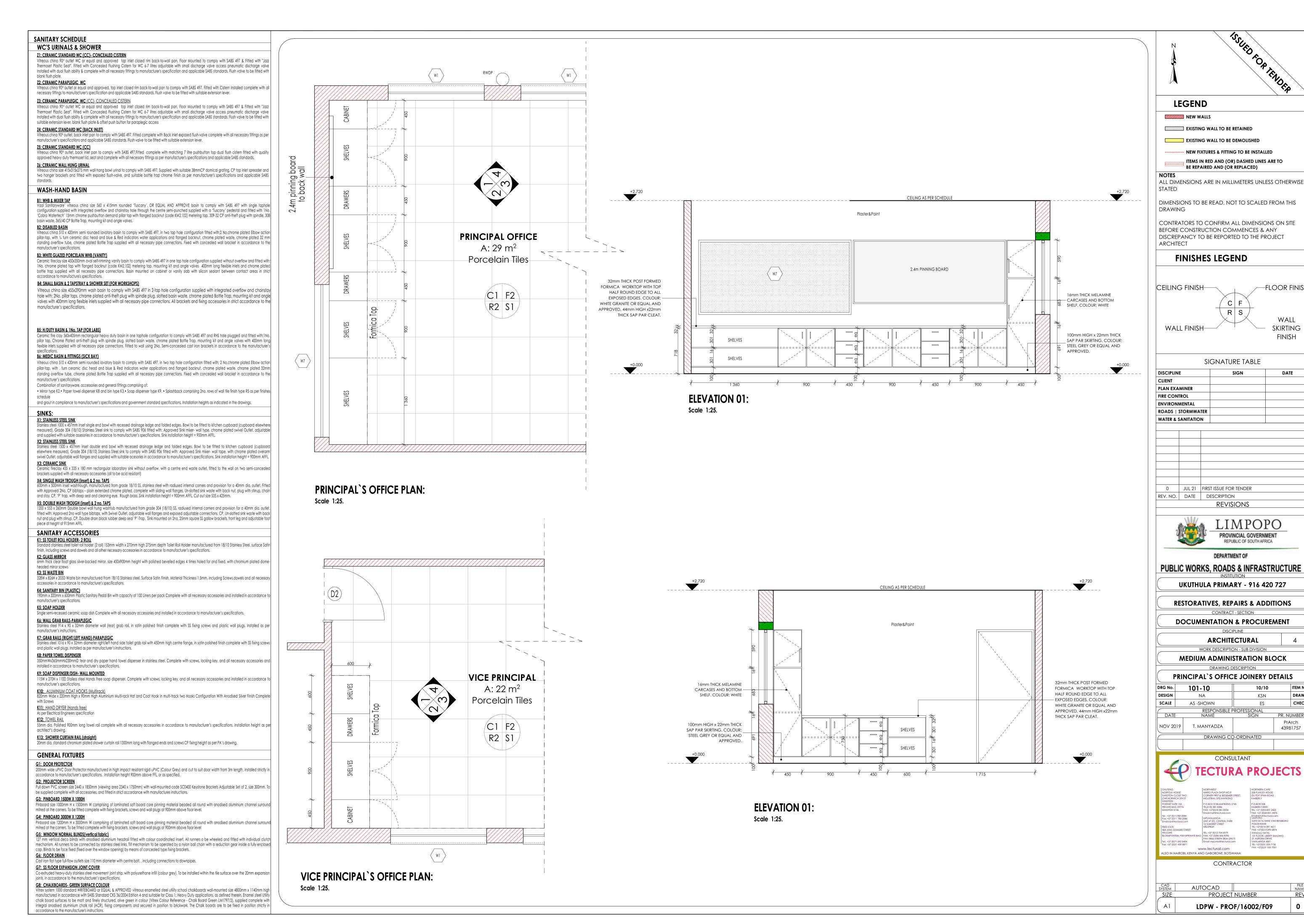
**STATIONARY STORE PLAN:** 

Scale 1:25.



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





-FLOOR FINISH

**SKIRTING** 

FINISH

DATE

REPUBLIC OF SOUTH AFRICA

KSN

CHECK

PR. NUMBER

43981757

# FINISHES LEGEND 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.

# 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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

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)

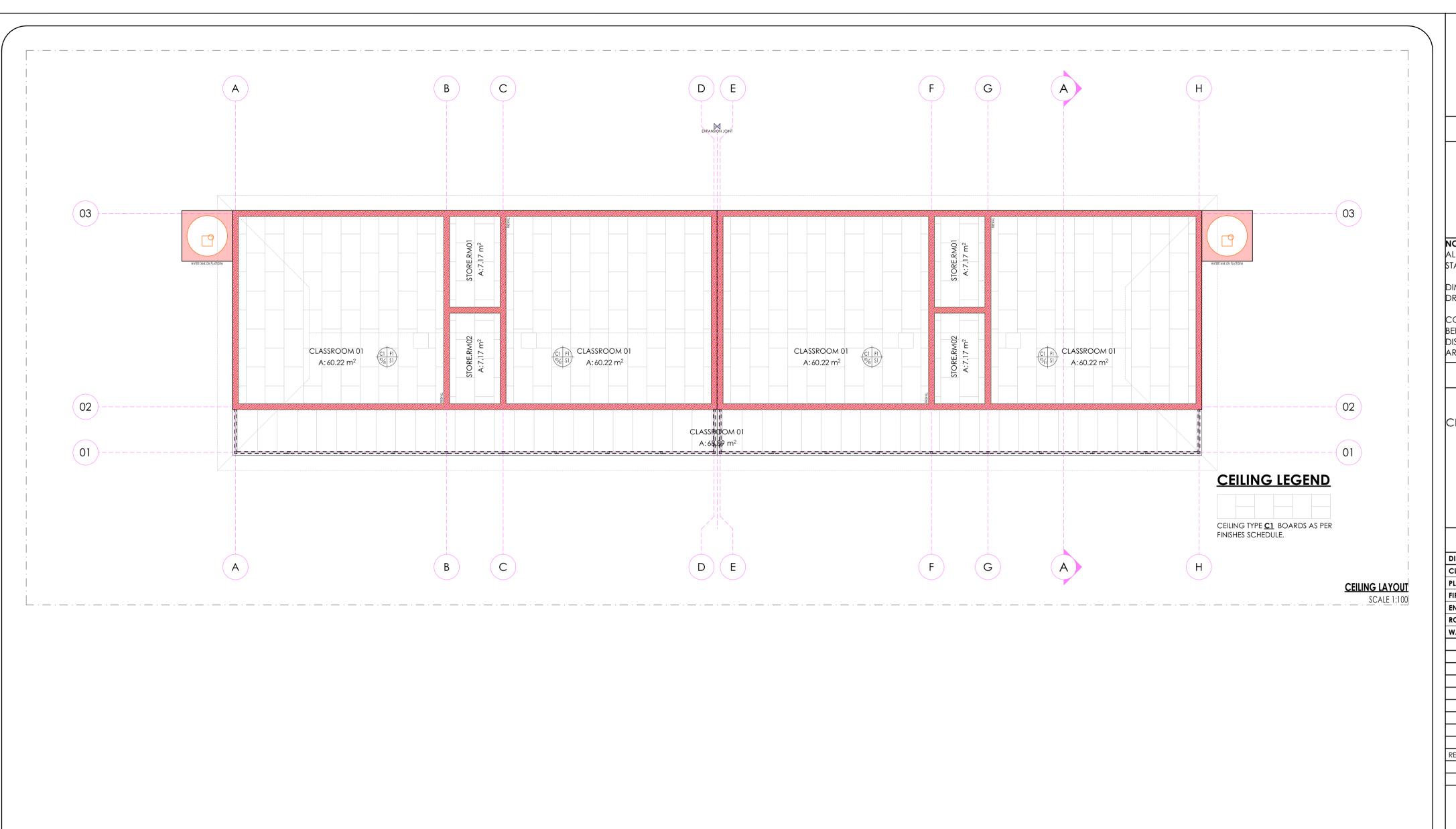
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

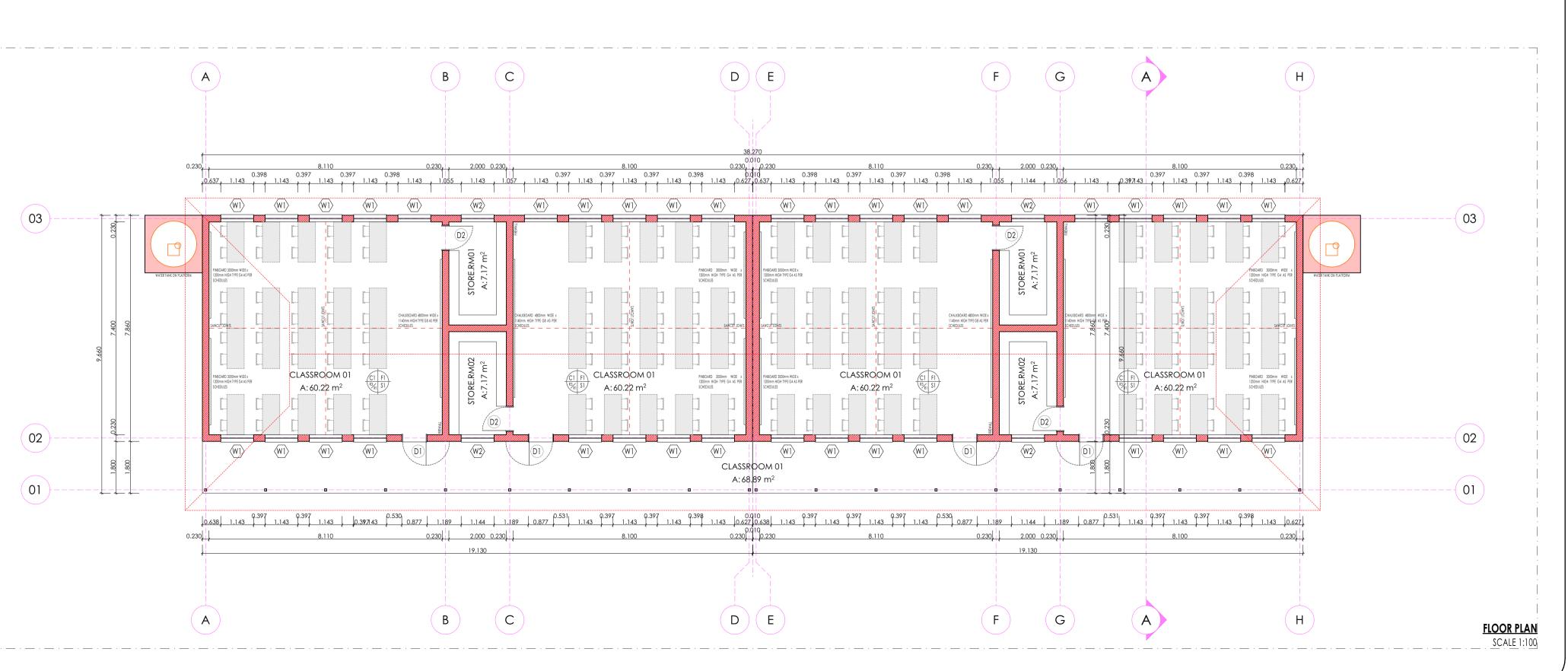
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

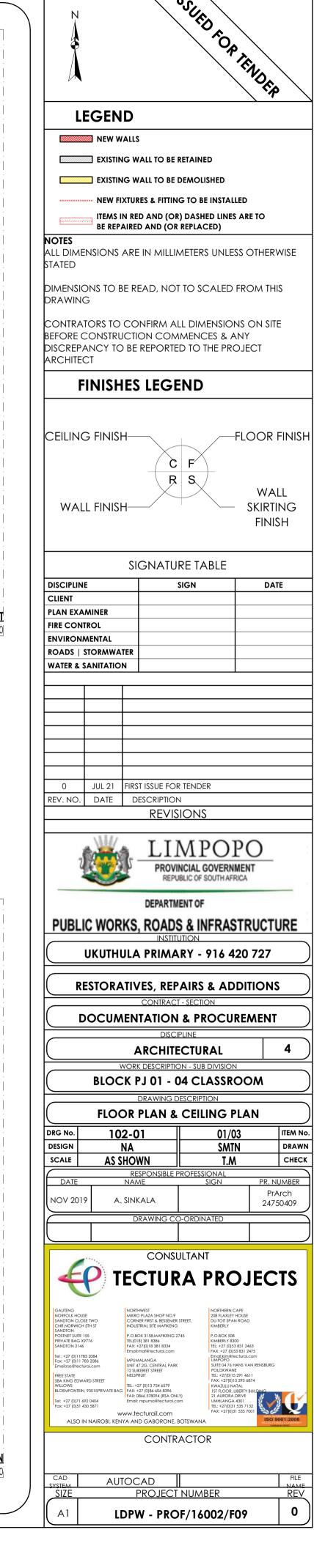
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and  $80 kg/m\tilde{N}$  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.







# FINISHES LEGEND 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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.

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.

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 \$" 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)

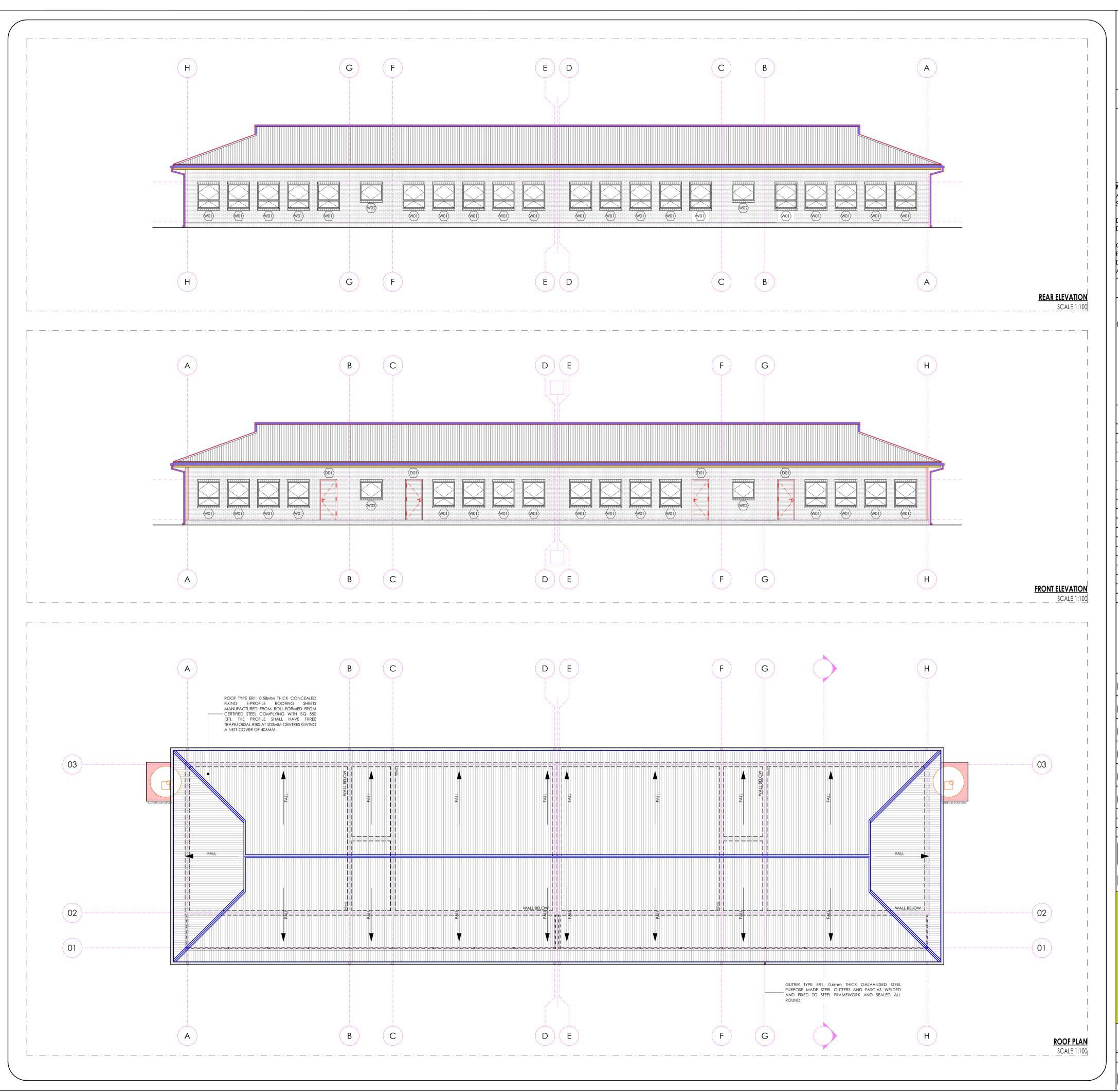
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall

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 7275 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.



## 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.

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

## 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.

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 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, SO 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 ato 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 omplying 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

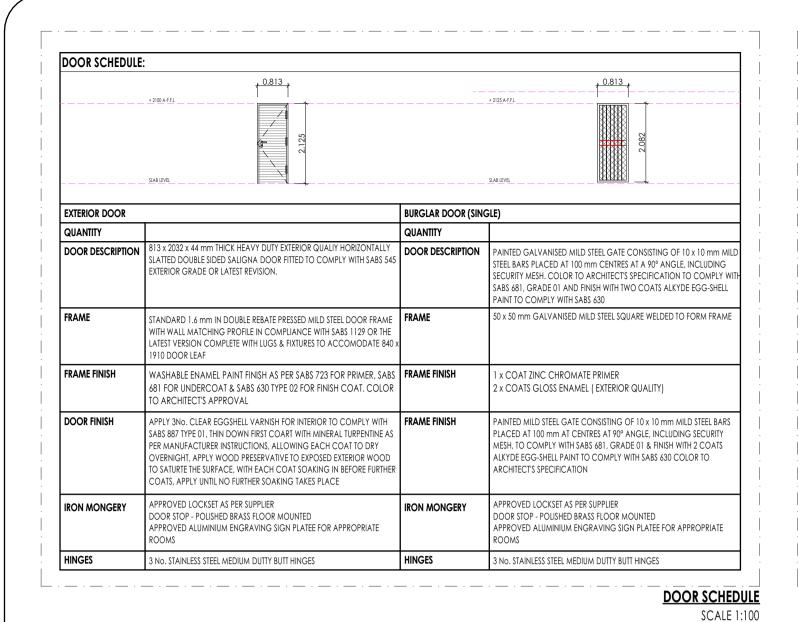
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

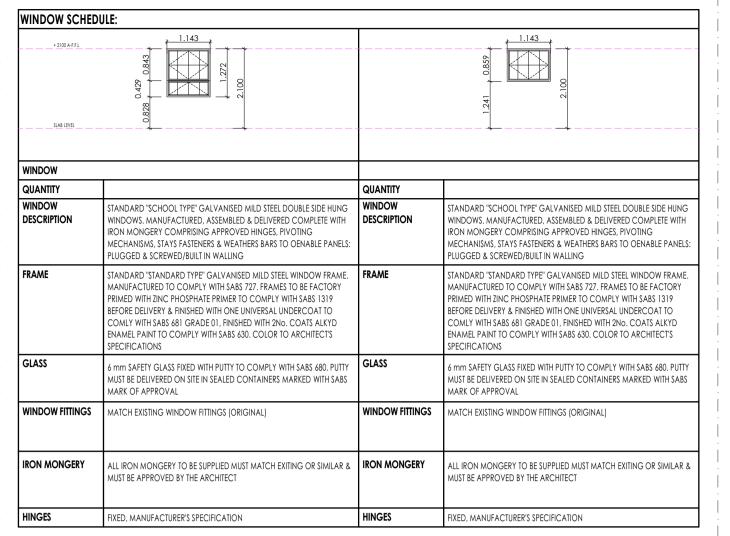
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 7275 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.

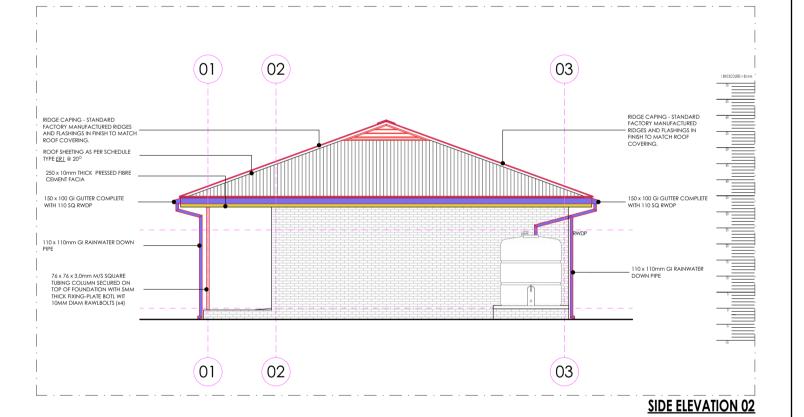


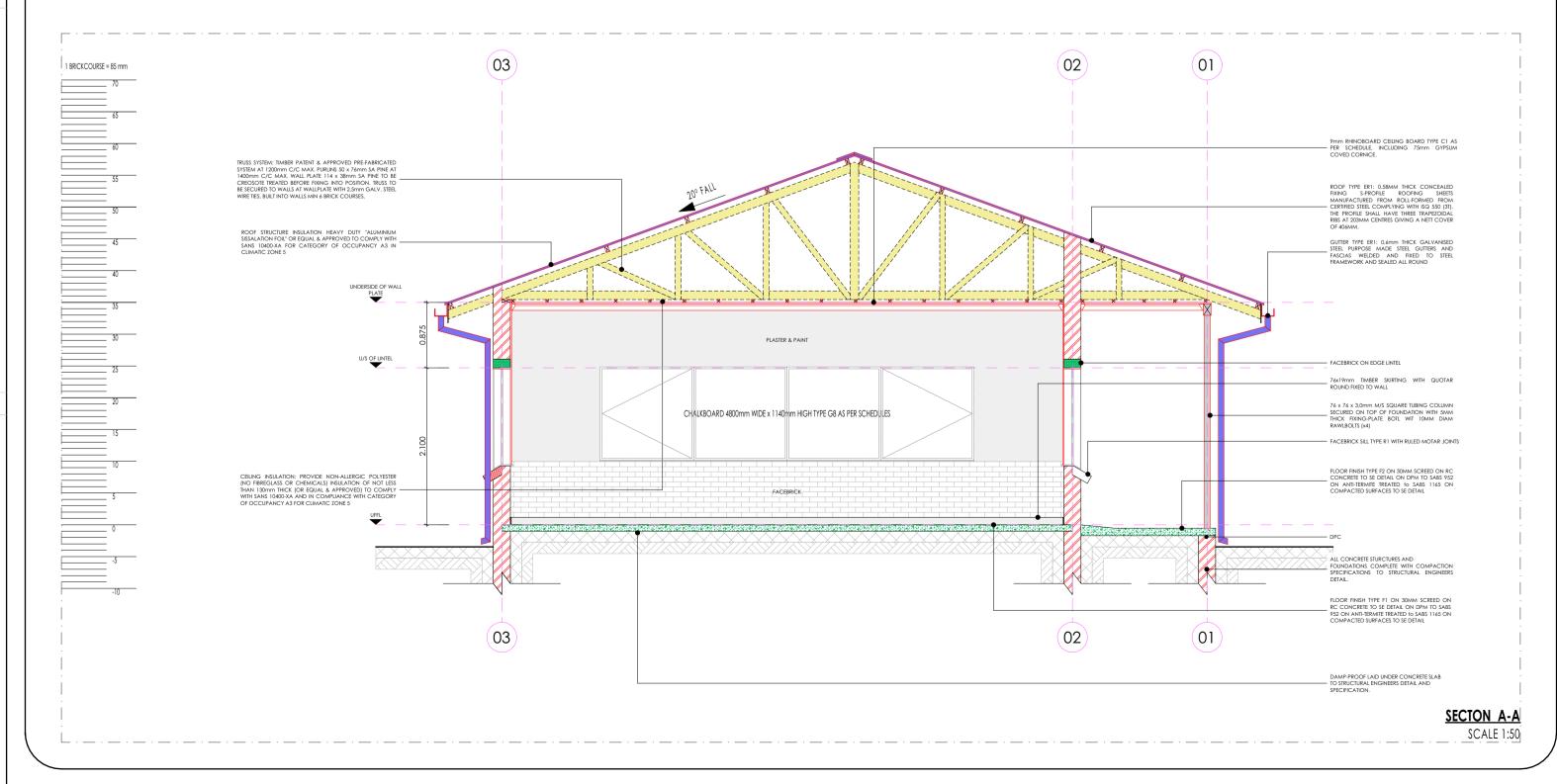


WINDOW SCHEDULE

SCALE 1:100

# (01) SIDE ELEVATION 0





# **SANITARY SCHEDULE**

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

**Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN** Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id Thermoset Plastic Seat". Fitted with Conceoled 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

treous 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

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN 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 "Ja; 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 parapleaic 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)** /itreous 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. TAIL 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

two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

**B1: WHB & MIXER TAP** 

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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) imic 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 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; 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) 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 manufacture

#### **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.

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, adjustab and supplied with suitable assesories 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 (cupboc 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-conceale brackets supplied with all necessary accessories (all to be acid resistant

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. 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 ba 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

# SANITARY ACCESSORIES

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

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, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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.

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 screw and plastic wall plugs. Installed as per manufacturer's instructions

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 specification:

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. 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

K11: HAND DRYER (Hands free)

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

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**

K5: SOAP HOLDER

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 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 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

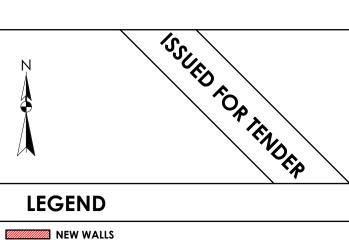
#### **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

# **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



# EXISTING WALL TO BE RETAINED

EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

BE REPAIRED AND (OR REPLACED) all dimensions are in millimeters unless otherwise

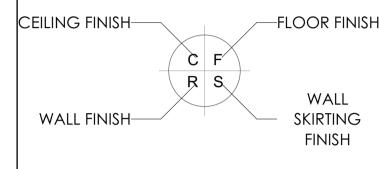
ITEMS IN RED AND (OR) DASHED LINES ARE TO

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT

# FINISHES LEGEND

ARCHITECT



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RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** BLOCK PJ 01 - 04 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES

102-03 **SMTN** NΔ CHECK AS SHOWN T.M A. SINKALA

NOV 2019 24750409 **CONSULTANT** 



www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

# FINISHES LEGEND 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.

#### 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

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)

F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

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.

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

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)

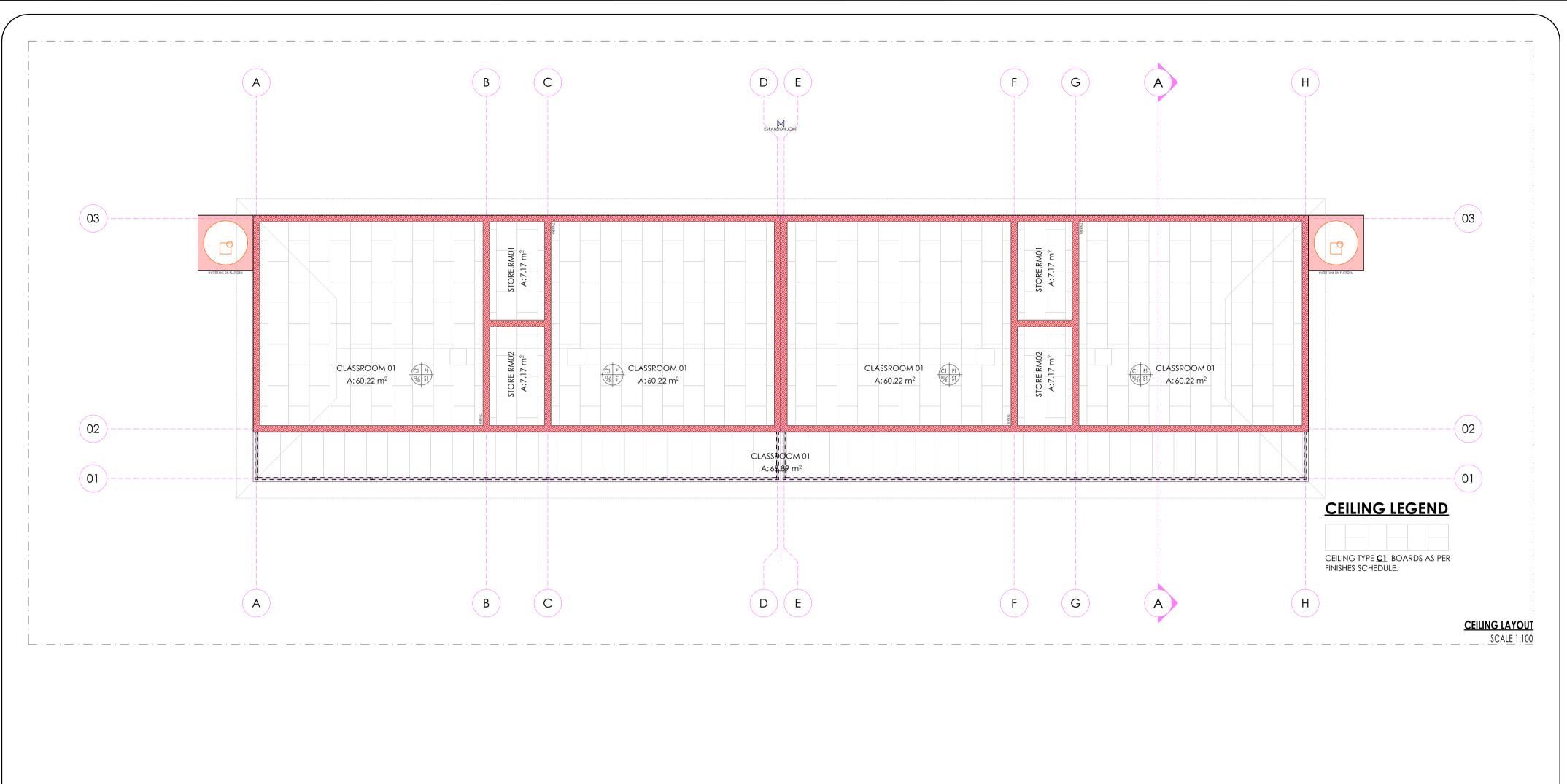
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

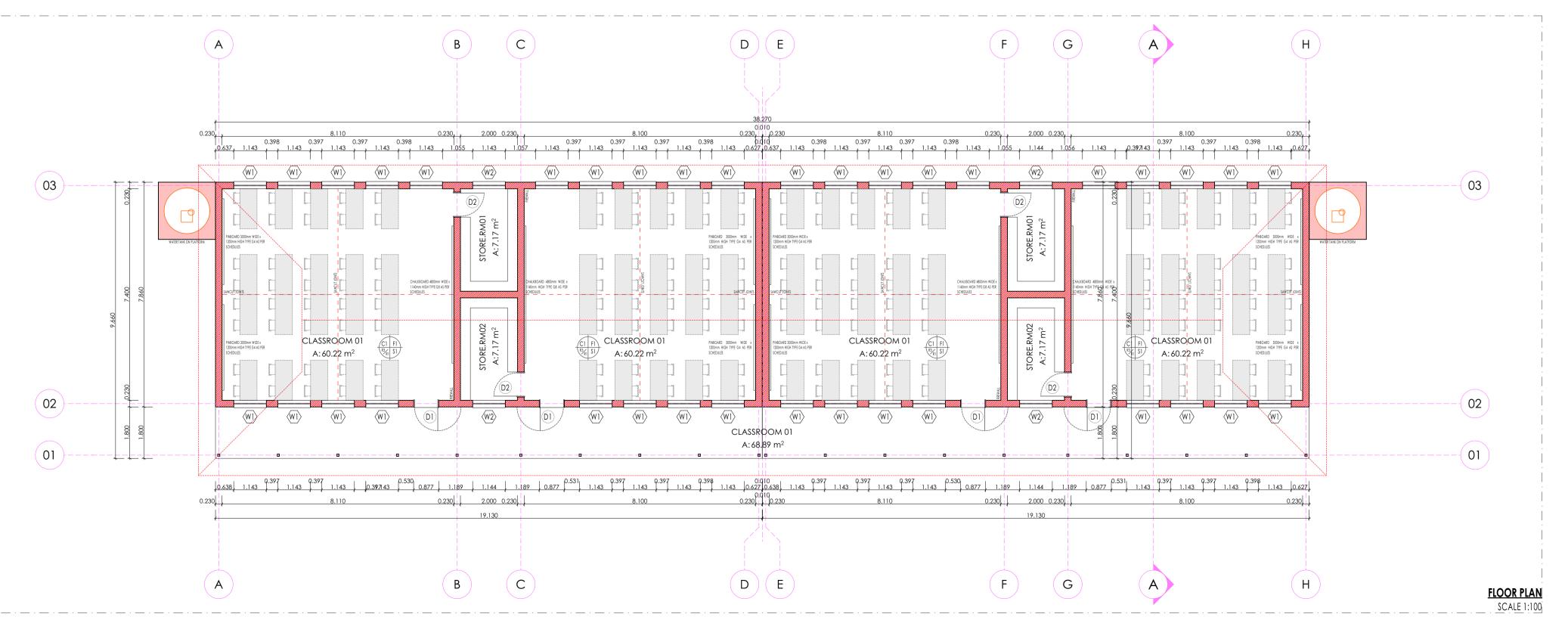
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

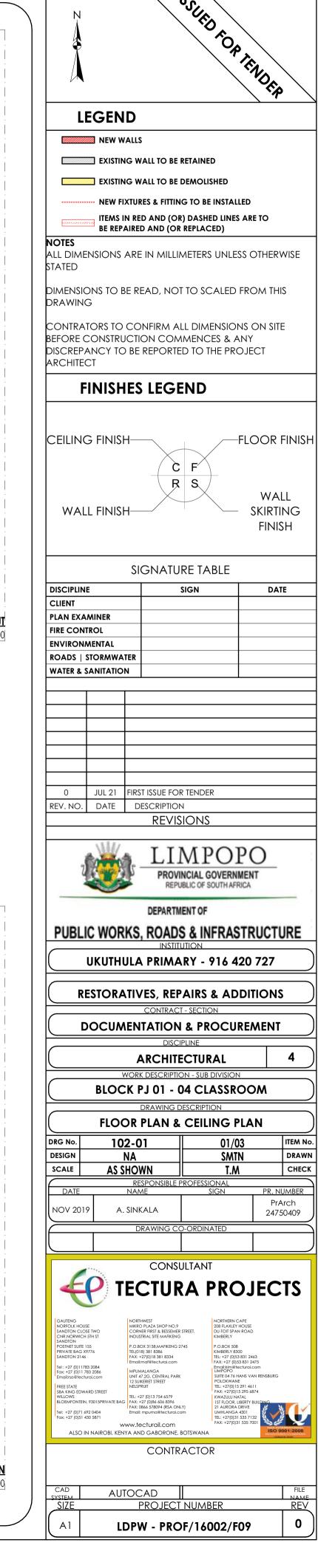
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and  $80 kg/m\tilde{N}$  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.







# FINISHES LEGEND 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

#### 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.

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.

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.

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 \$" 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:**

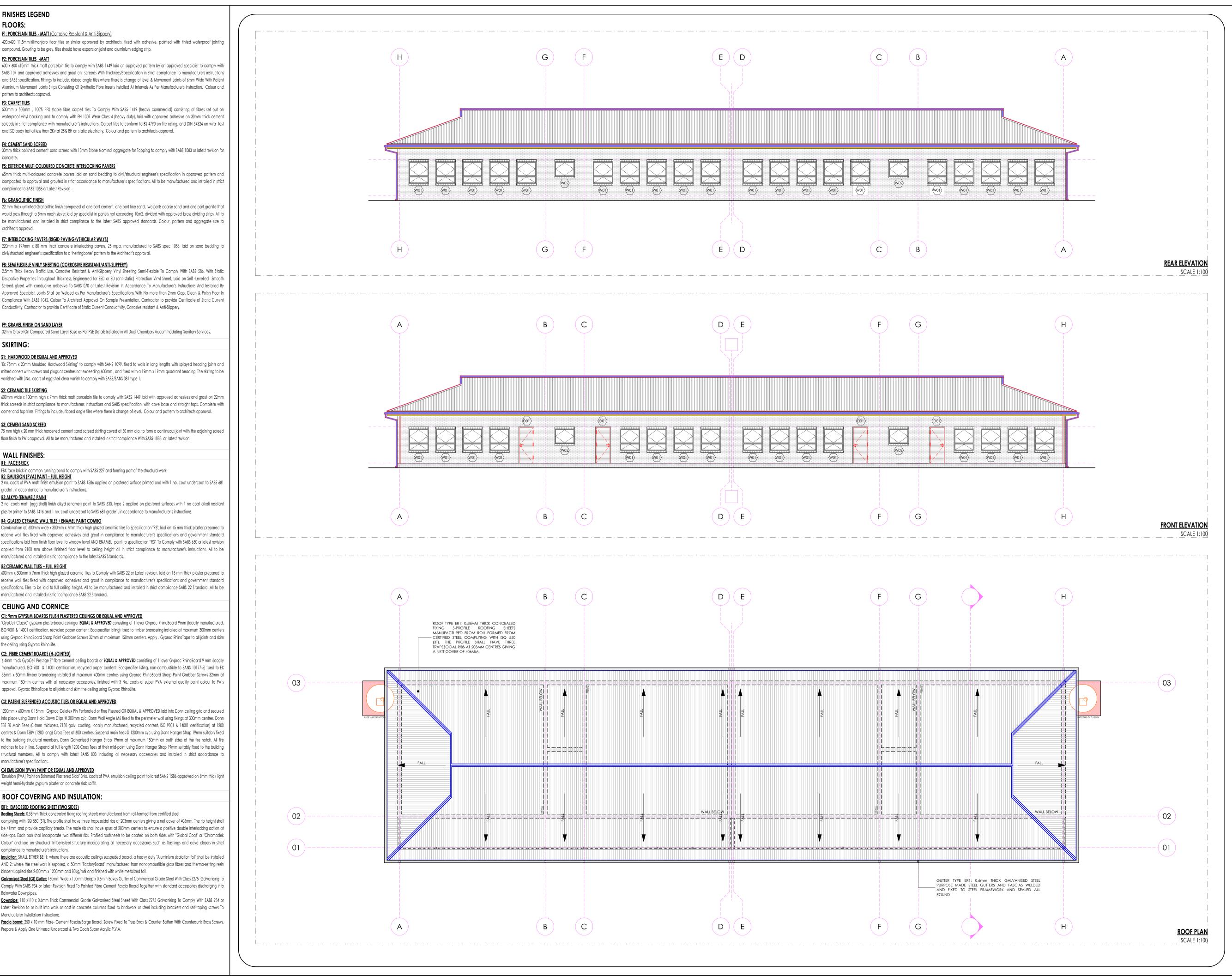
# ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

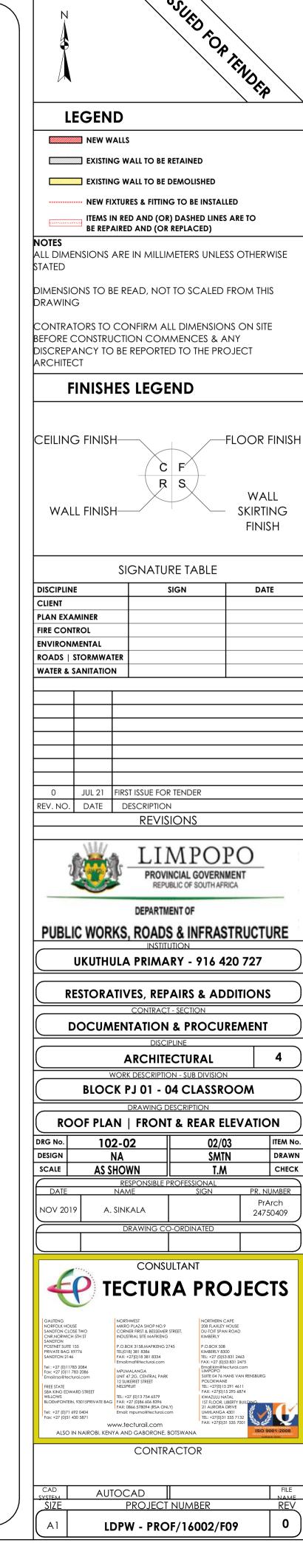
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

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 7275 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





## 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.

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

#### 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.

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 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, SO 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 ato 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 omplying 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

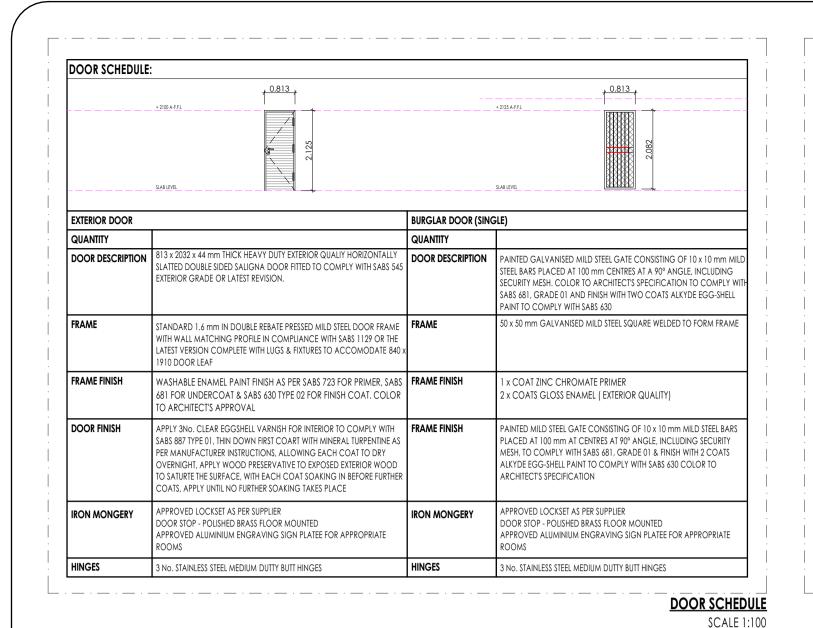
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

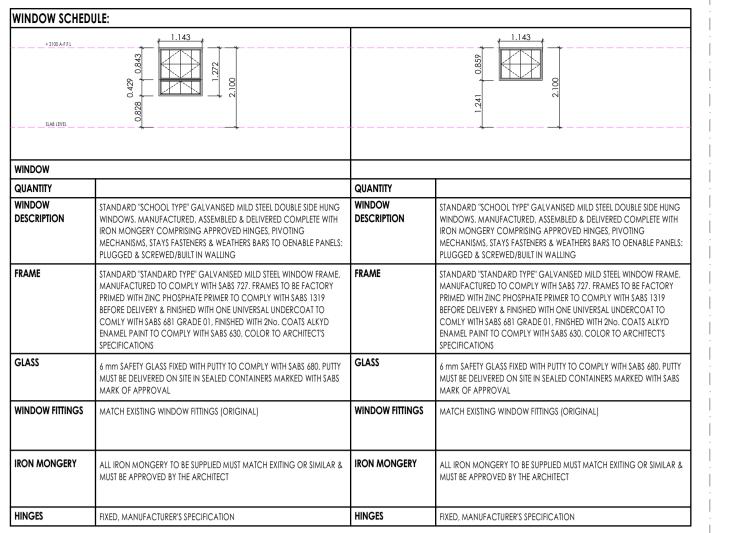
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 7275 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.

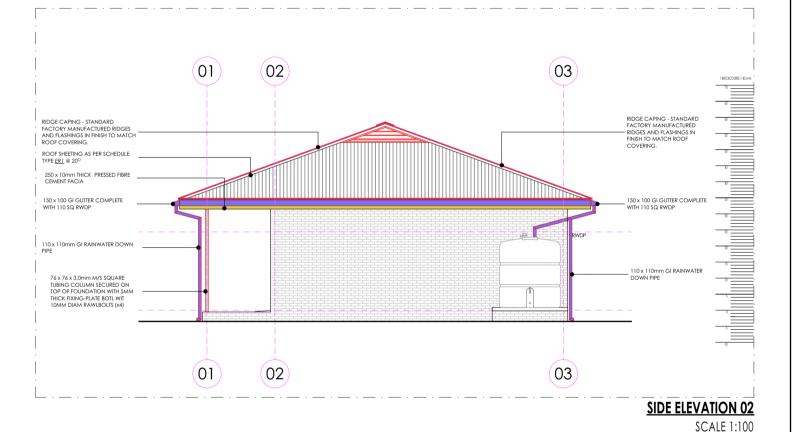
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

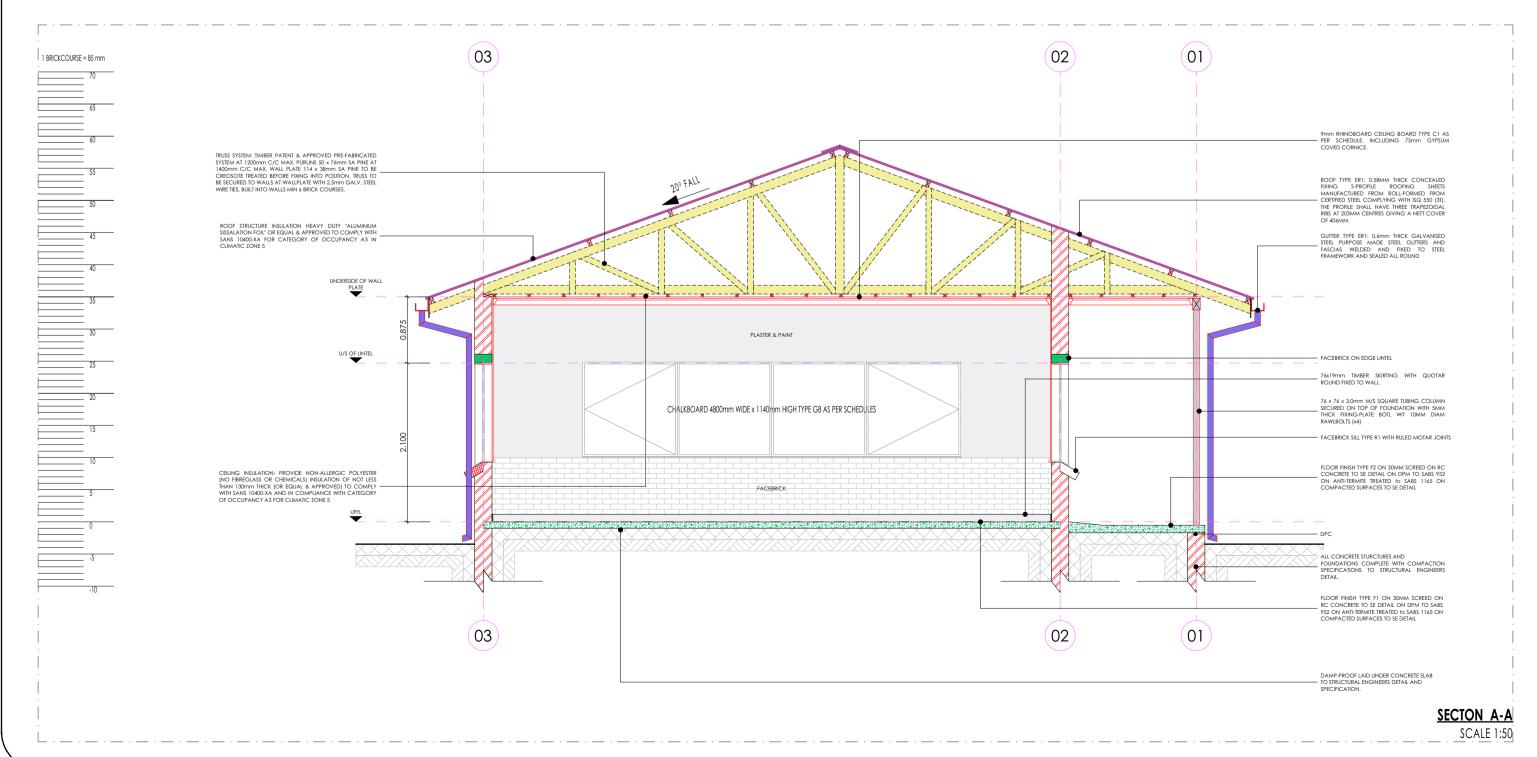




WINDOW SCHEDULI

# (01) SIDE ELEVATION 0





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

# **Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN**

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id Thermoset Plastic Seat". Fitted with Concealed Flushina 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

treous 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

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

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 "Ja; 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 parapleaic access

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 quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

## TAIL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

#### **WASH-HAND BASIN B1: WHB & MIXER TAP**

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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

# B3: WHITE GLAZED PORCELAIN WHB (VANITY)

imic 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 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; 2Nc

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) 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

# **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.

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, adjustab and supplied with suitable assesories 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 (cupboar 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 brackets supplied with all necessary accessories (all to be acid resistant

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitte 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. 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 bar 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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome headed mirror screws K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessar

accessories in accordance to manufacturer's specifications.

#### 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 screw and plastic wall plugs. Installed as per manufacturer's instructions

#### 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 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.

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

# K11: HAND DRYER (Hands free)

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

# 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**

G2: PROJECTOR SCREEN

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.

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 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

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.

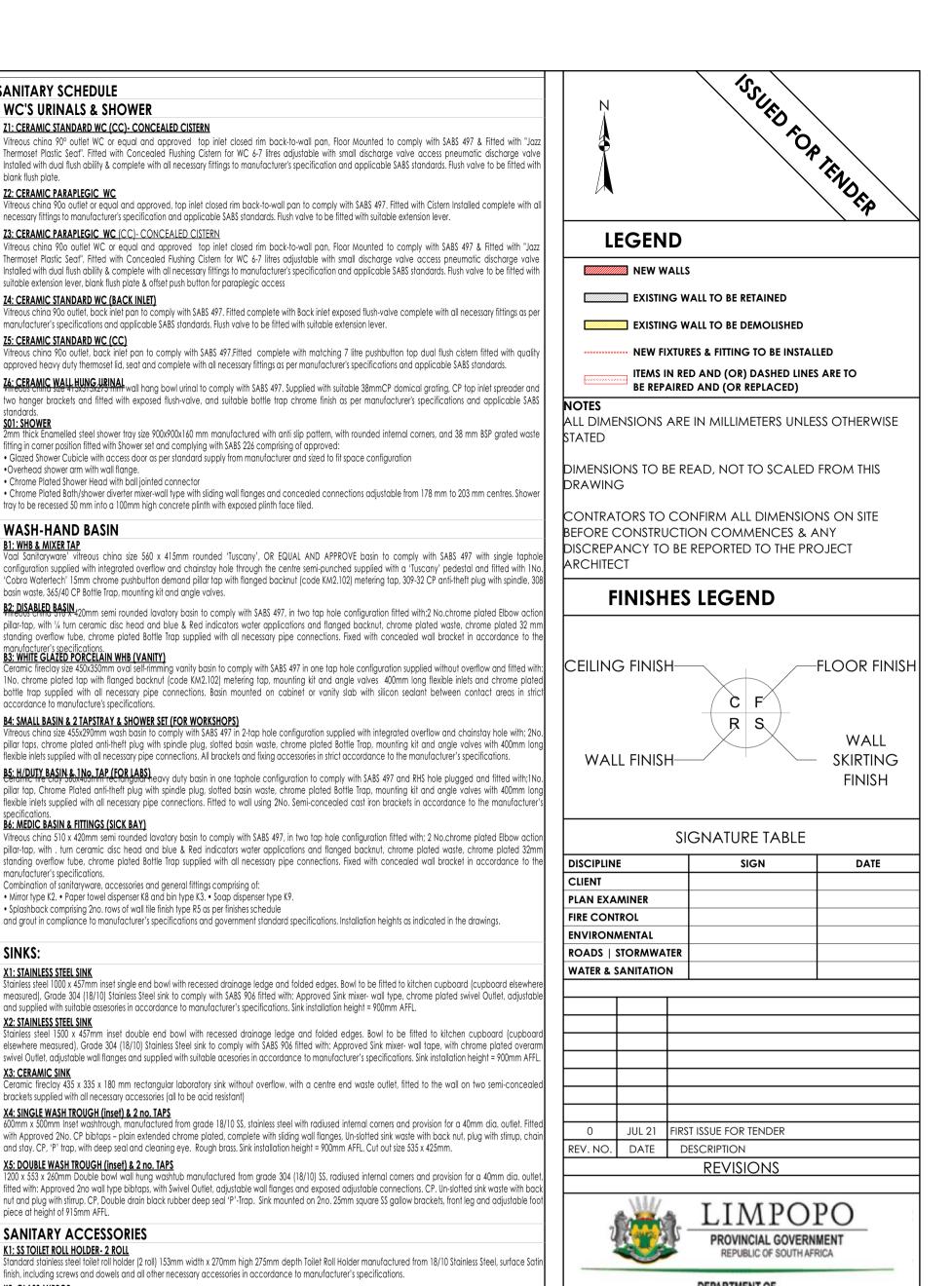
#### **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

#### **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

accordance with the manufacturer's instructions

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





UKUTHULA PRIMARY - 916 420 727

RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

BLOCK PJ 01 - 04 CLASSROOM

**ARCHITECTURAL** 

SECTION | SIDE ELEVATION | SCHEDULES 102-03 **SMTN** NΔ

CHECK AS SHOWN T.M NOV 201 A. SINKALA 24750409 **CONSULTANT** 



ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR

# FINISHES LEGEND 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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.

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.

# 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

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)

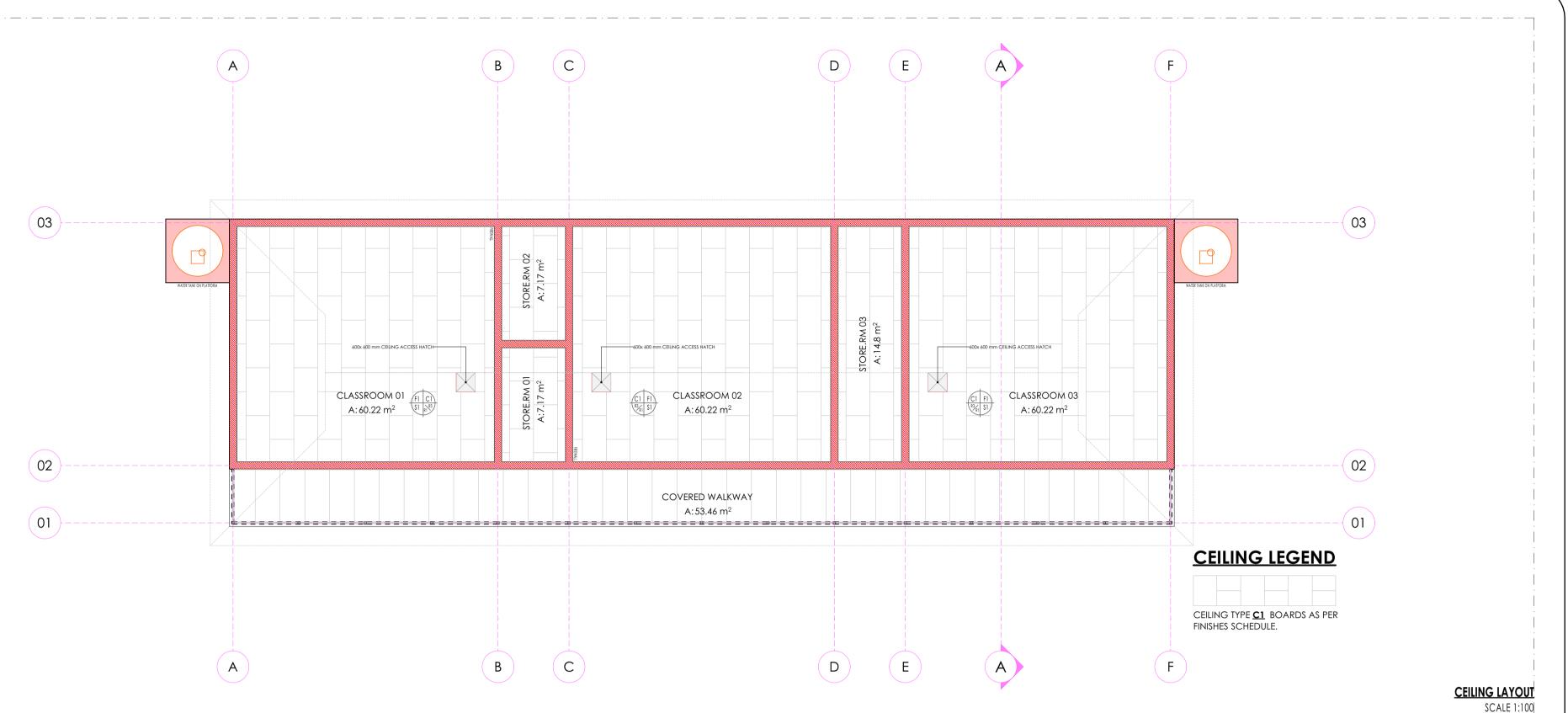
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall

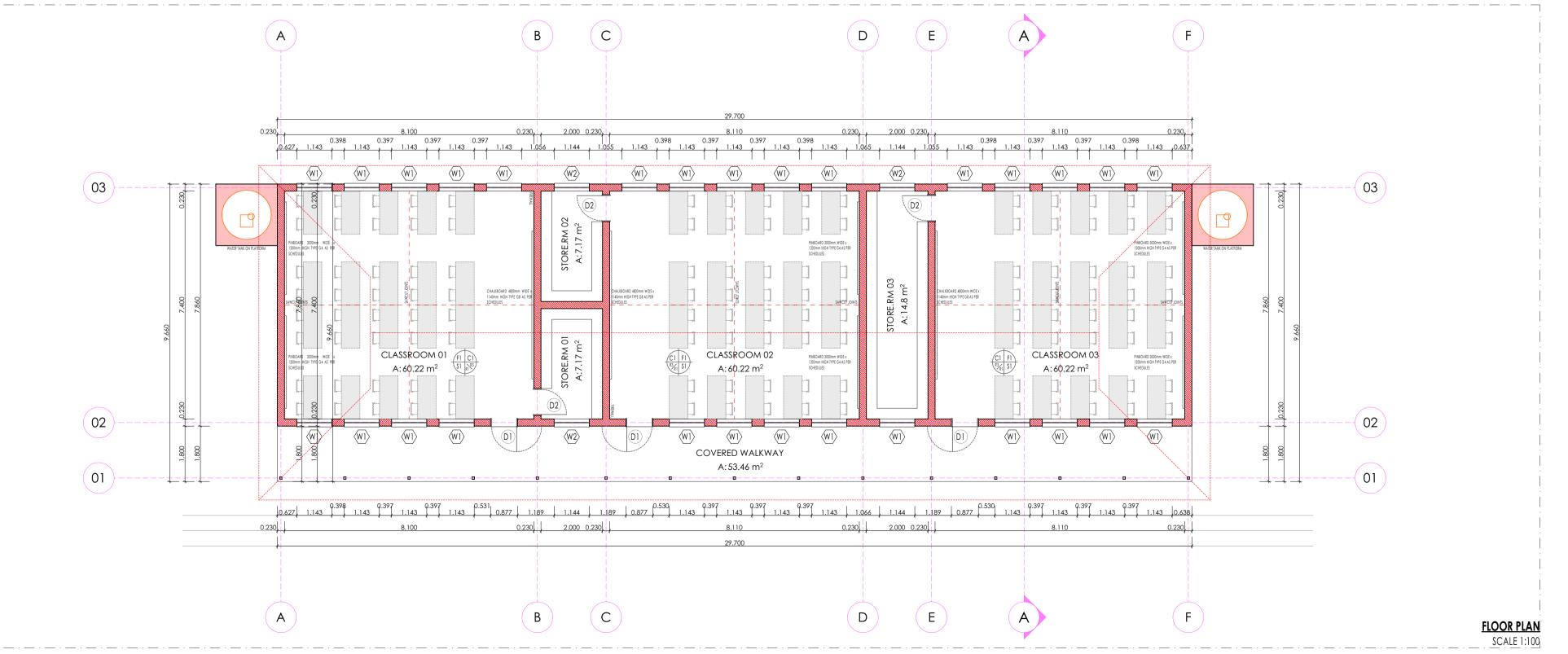
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural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

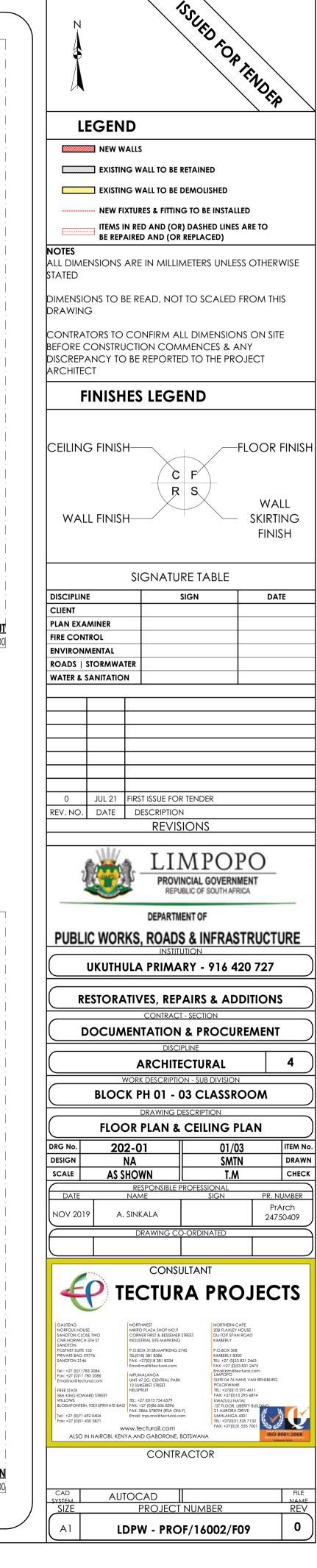
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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







# FINISHES LEGEND 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. 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. 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for 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. 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 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 manufactured and installed in strict compliance to the latest SABS Standards.

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

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

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

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

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:**

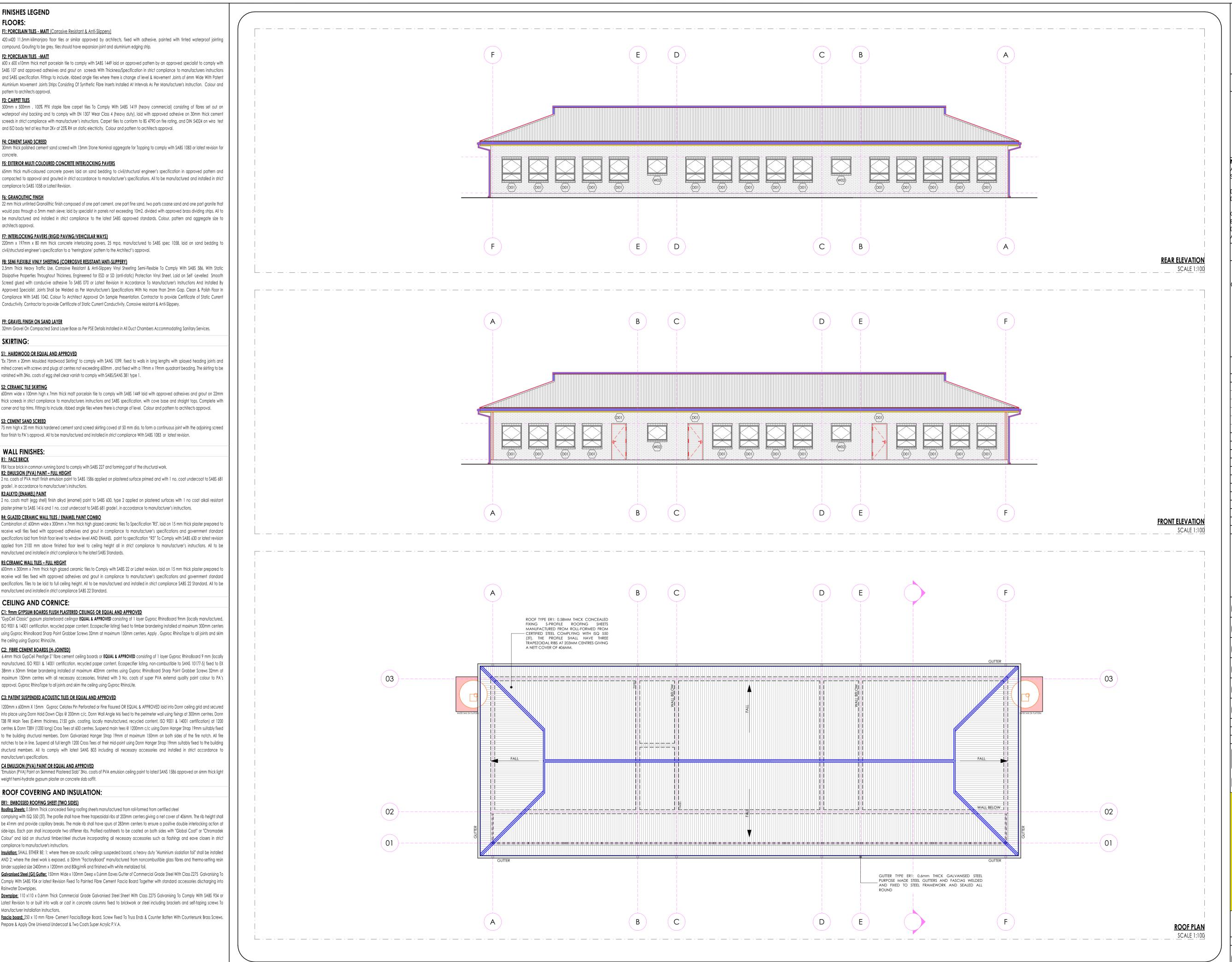
ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

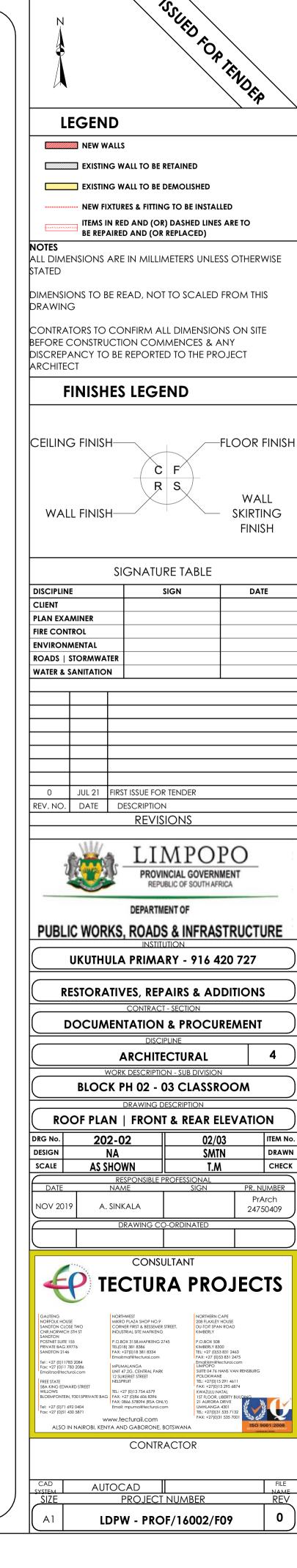
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

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 7275 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.





## 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.

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

#### 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.

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 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, SO 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 ato 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 omplying 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

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

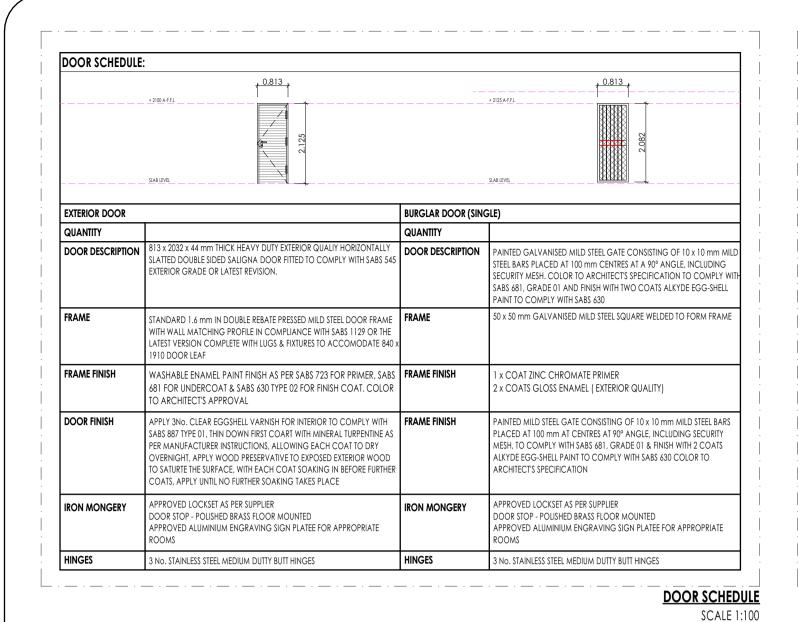
side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

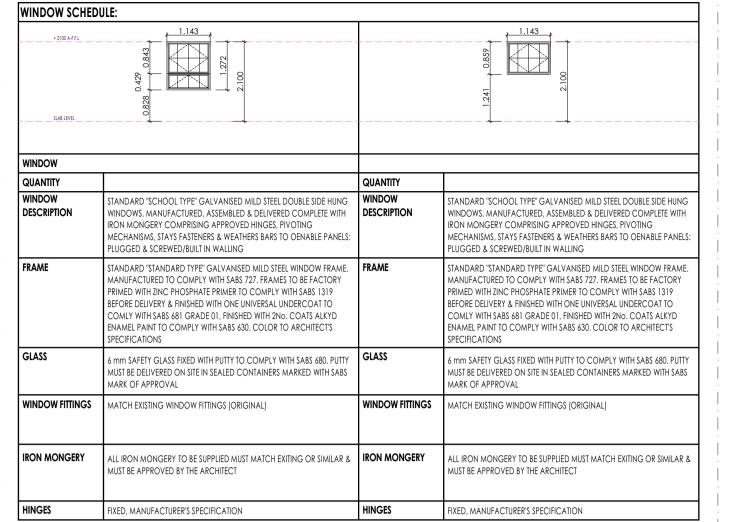
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 7275 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.

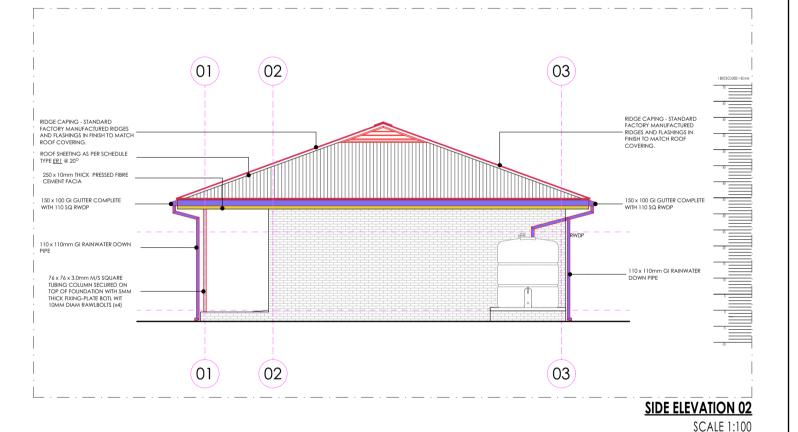
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

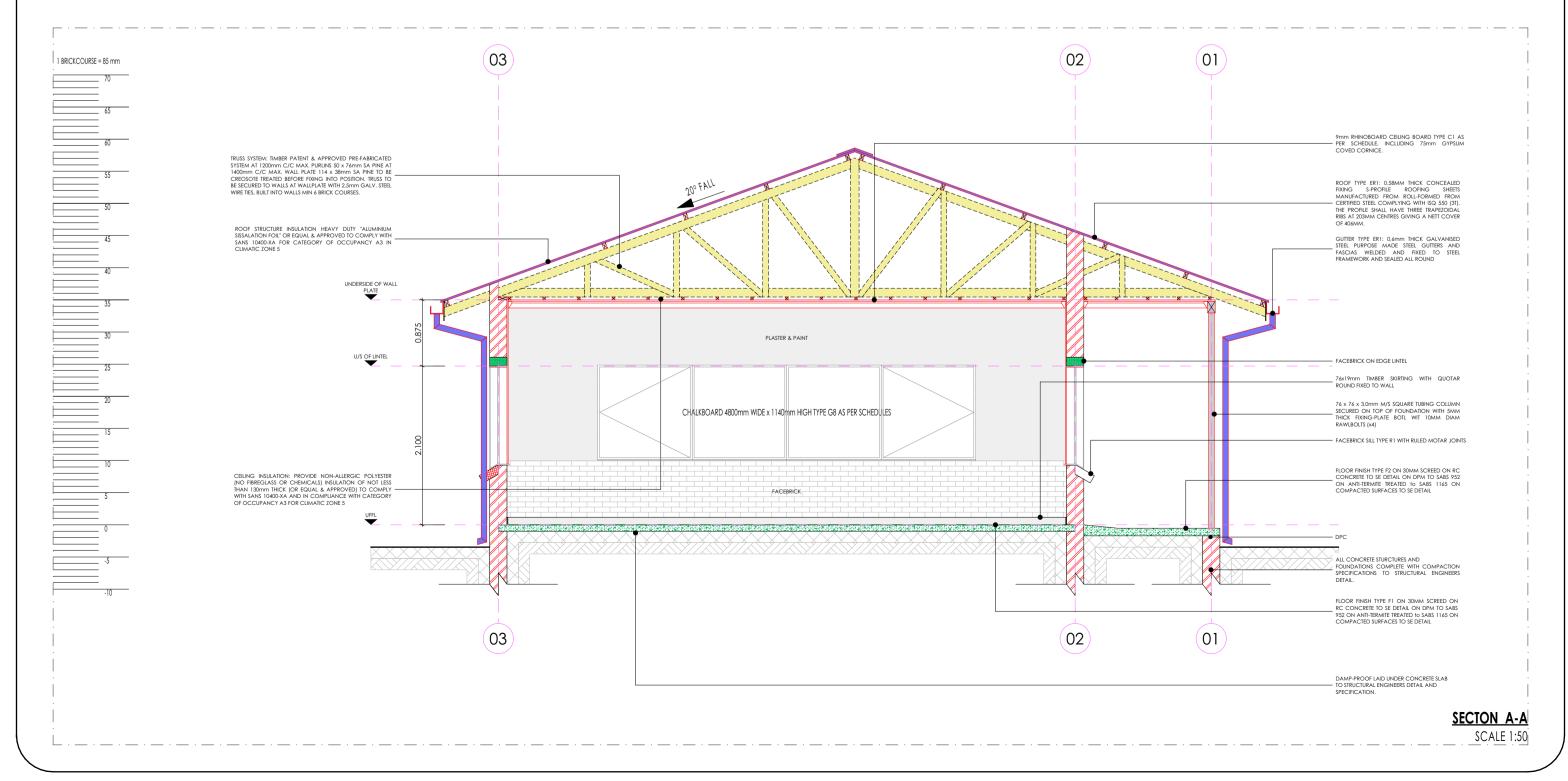




WINDOW SCHEDULE

# (01) SIDE ELEVATION 0





# **SANITARY SCHEDULE**

#### **WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN**

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id 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

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

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN 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 "Ja; 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 parapleaic 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)** /itreous 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.

# TAIL 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 fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration Overhead shower arm with wall flange.

## Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

#### **WASH-HAND BASIN**

**B1: WHB & MIXER TAP** 

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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) imic 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 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; 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)
Evaluation for 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 **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 32m 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.

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, adjustab and supplied with suitable assesories 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 (cupboc 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-conceale brackets supplied with all necessary accessories (all to be acid resistant

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. 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 ba 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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

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, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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.

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 screw and plastic wall plugs. Installed as per manufacturer's instructions

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 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.

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 K11: HAND DRYER (Hands free)

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

K5: SOAP HOLDER

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 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 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

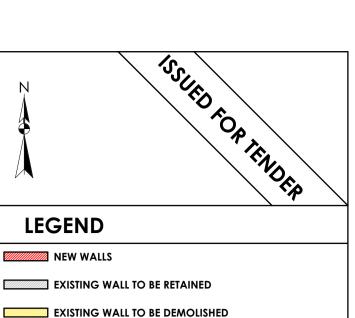
#### **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

# **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 in accordance with the manufacturer's instructions



# WWW NEW WALLS EXISTING WALL TO BE RETAINED

NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

BE REPAIRED AND (OR REPLACED)

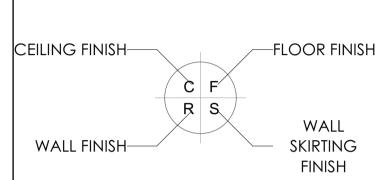
all dimensions are in millimeters unless otherwise

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT

# FINISHES LEGEND

ARCHITECT



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UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT ARCHITECTURAL**

BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES **SMTN** NΔ AS SHOWN T.M

CHECK NOV 2019 A. SINKALA 24750409 **CONSULTANT** 



www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR

AUTOCAD PROJECT NUMBER

LDPW - PROF/16002/F09

# FINISHES LEGEND 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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.

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.

## 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 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)

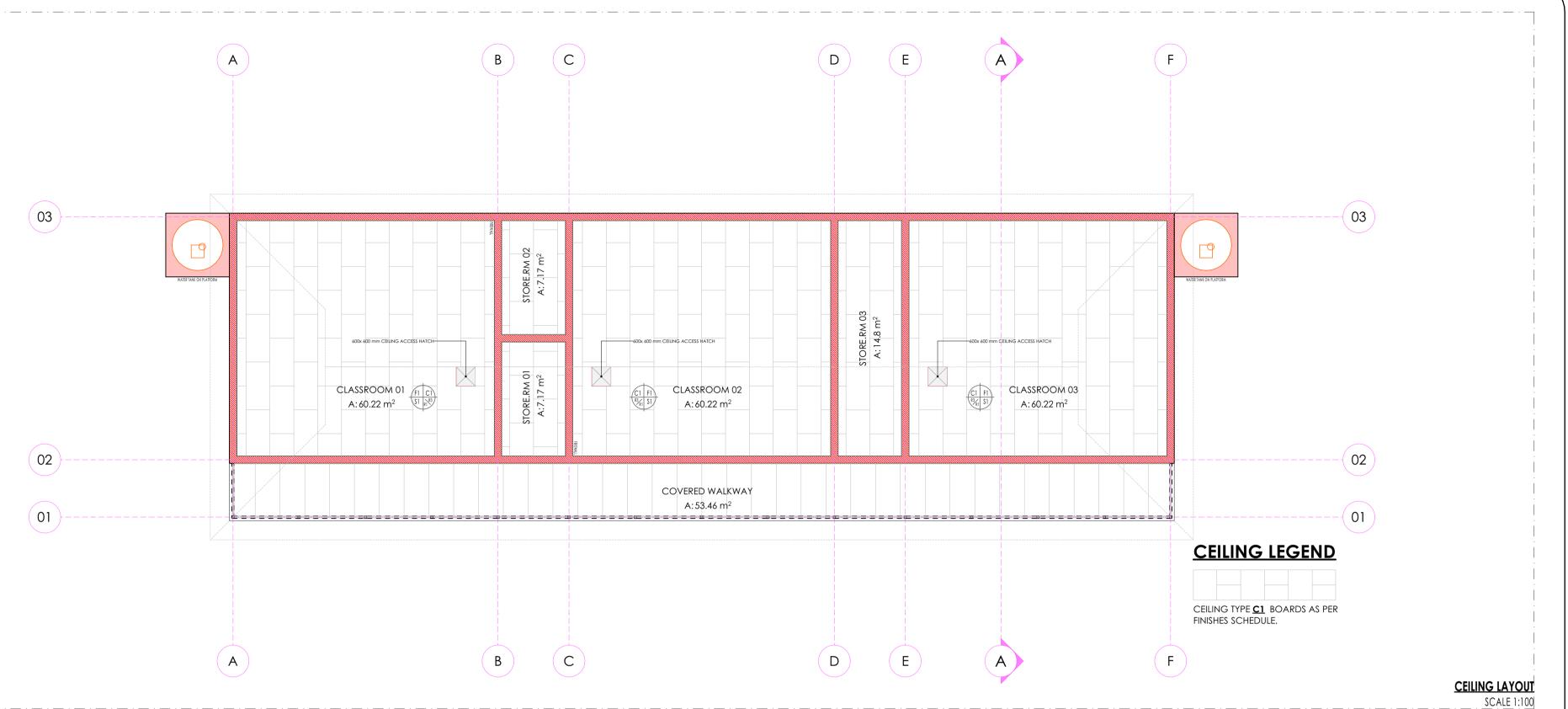
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

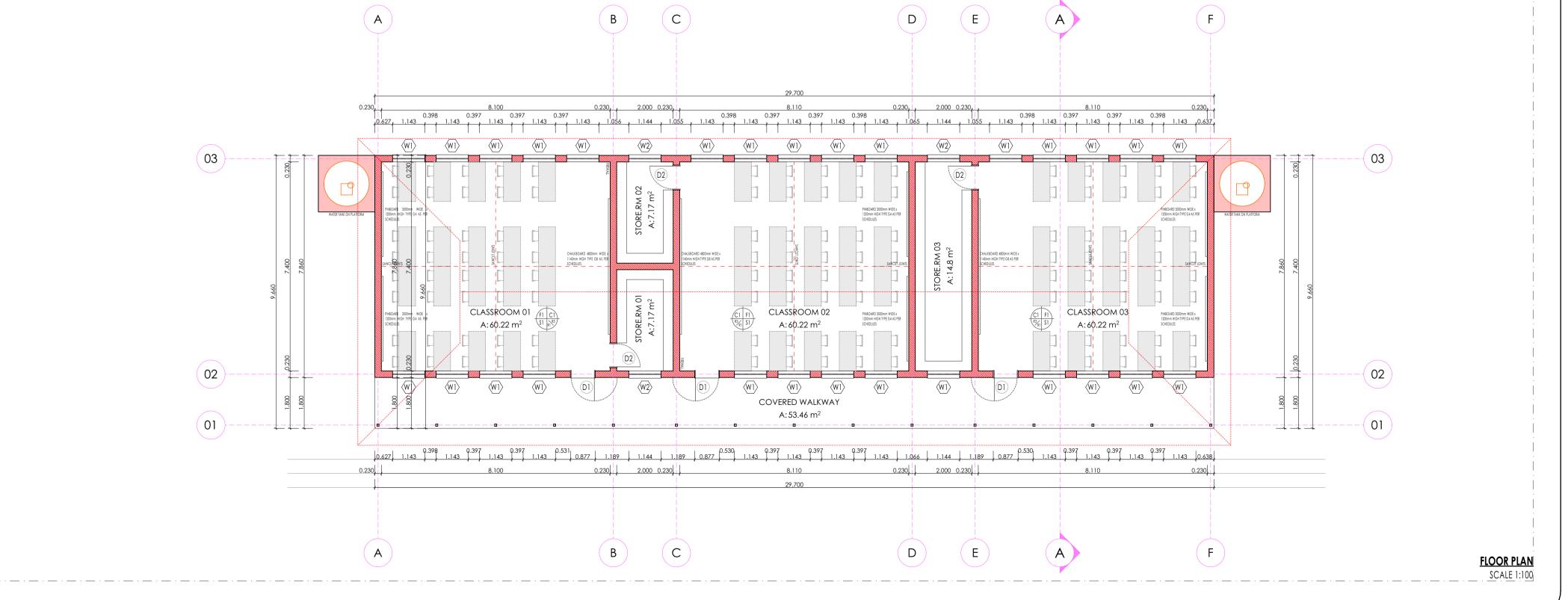
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

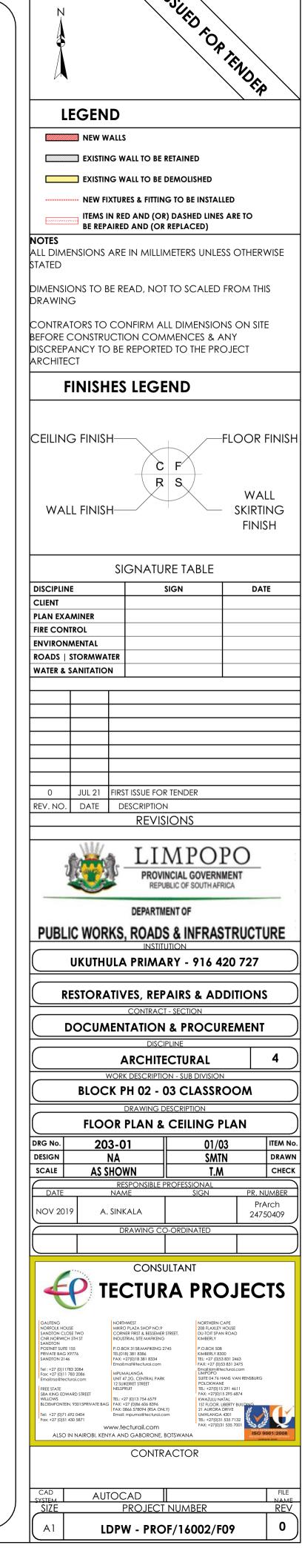
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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







# FINISHES LEGEND 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. 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. 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for 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. 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 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 manufactured and installed in strict compliance to the latest SABS Standards.

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

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

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

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:**

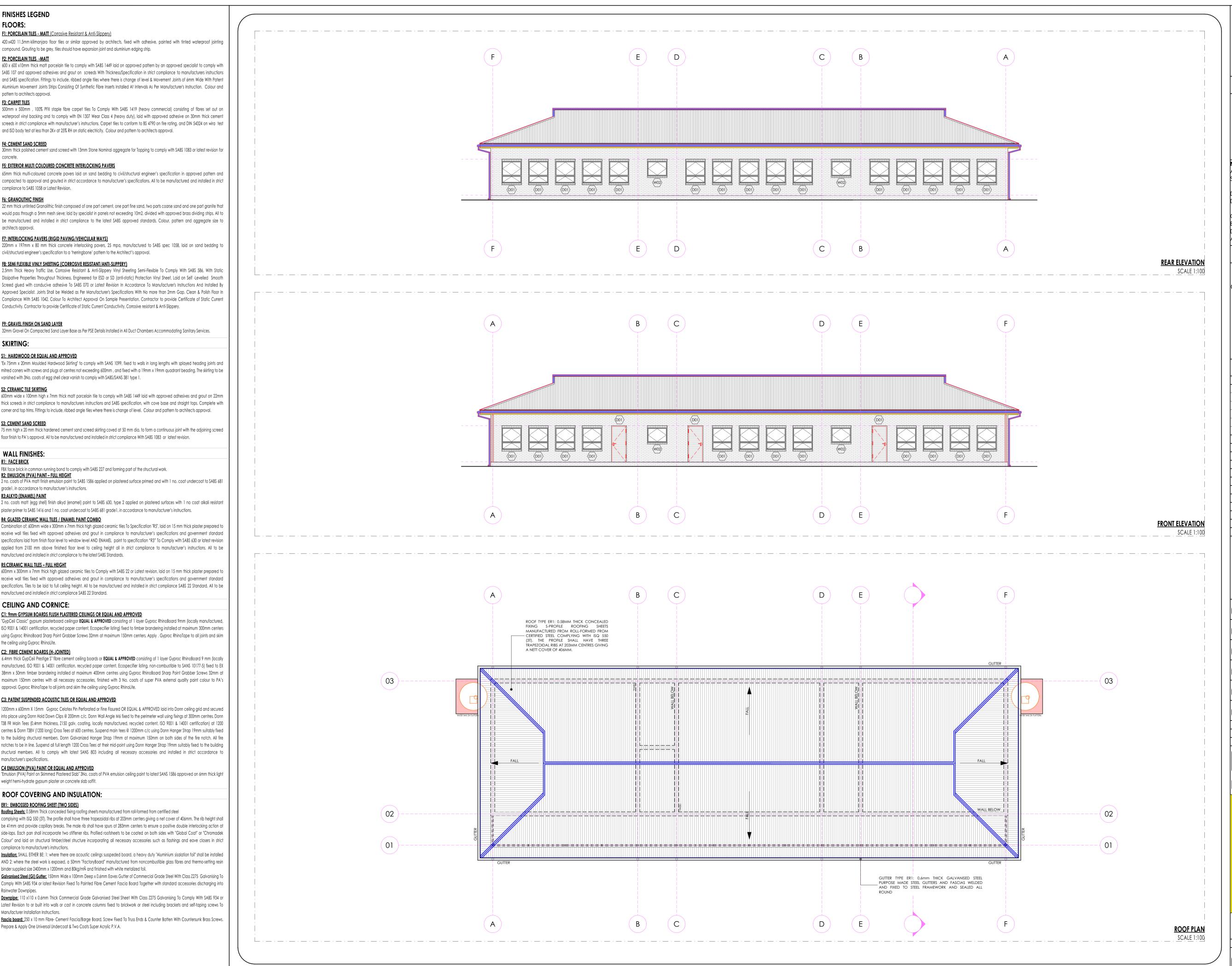
# ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

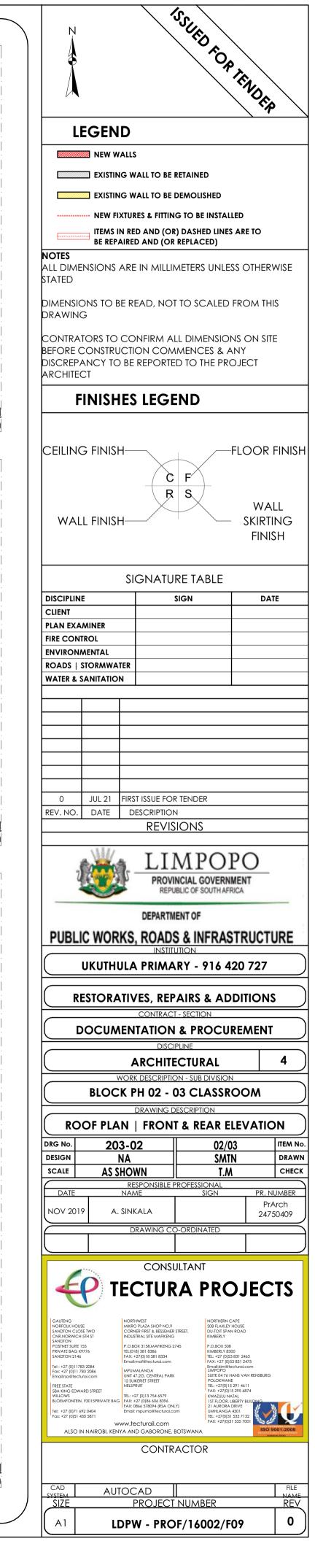
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

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 7275 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





## 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.

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

## 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.

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 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, SO 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 ato 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 omplying 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

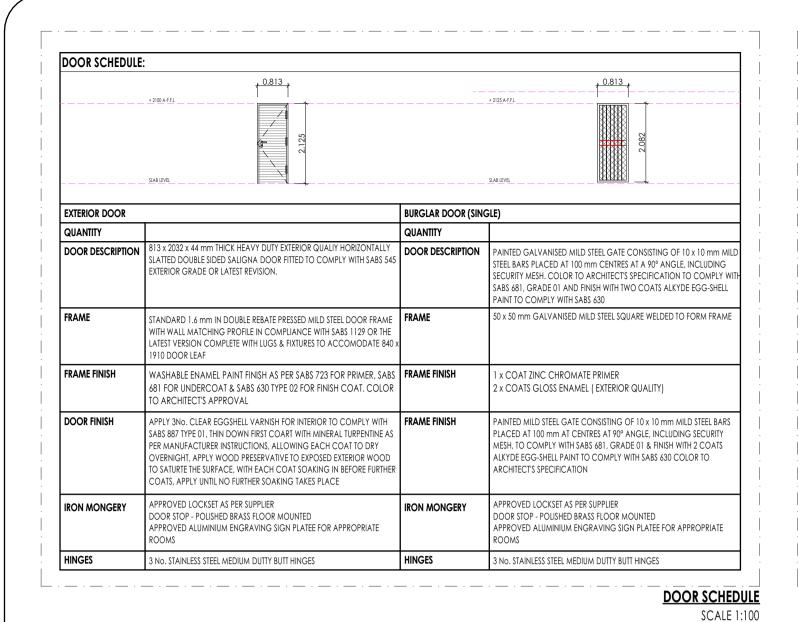
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

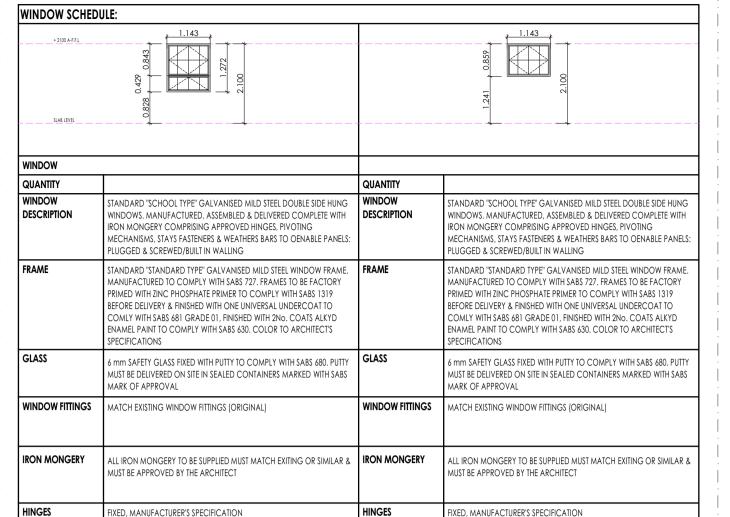
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 7275 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.

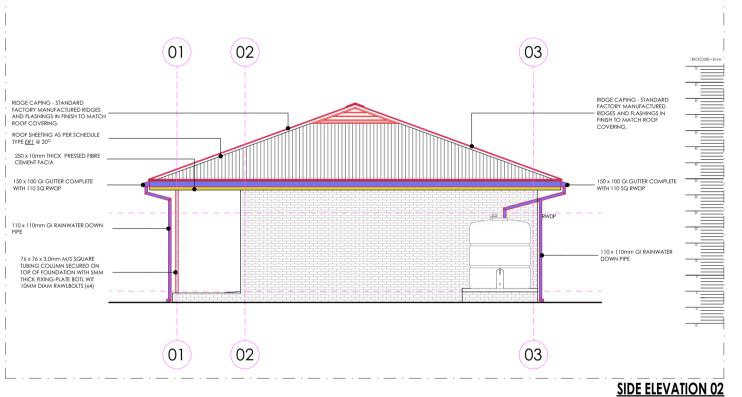


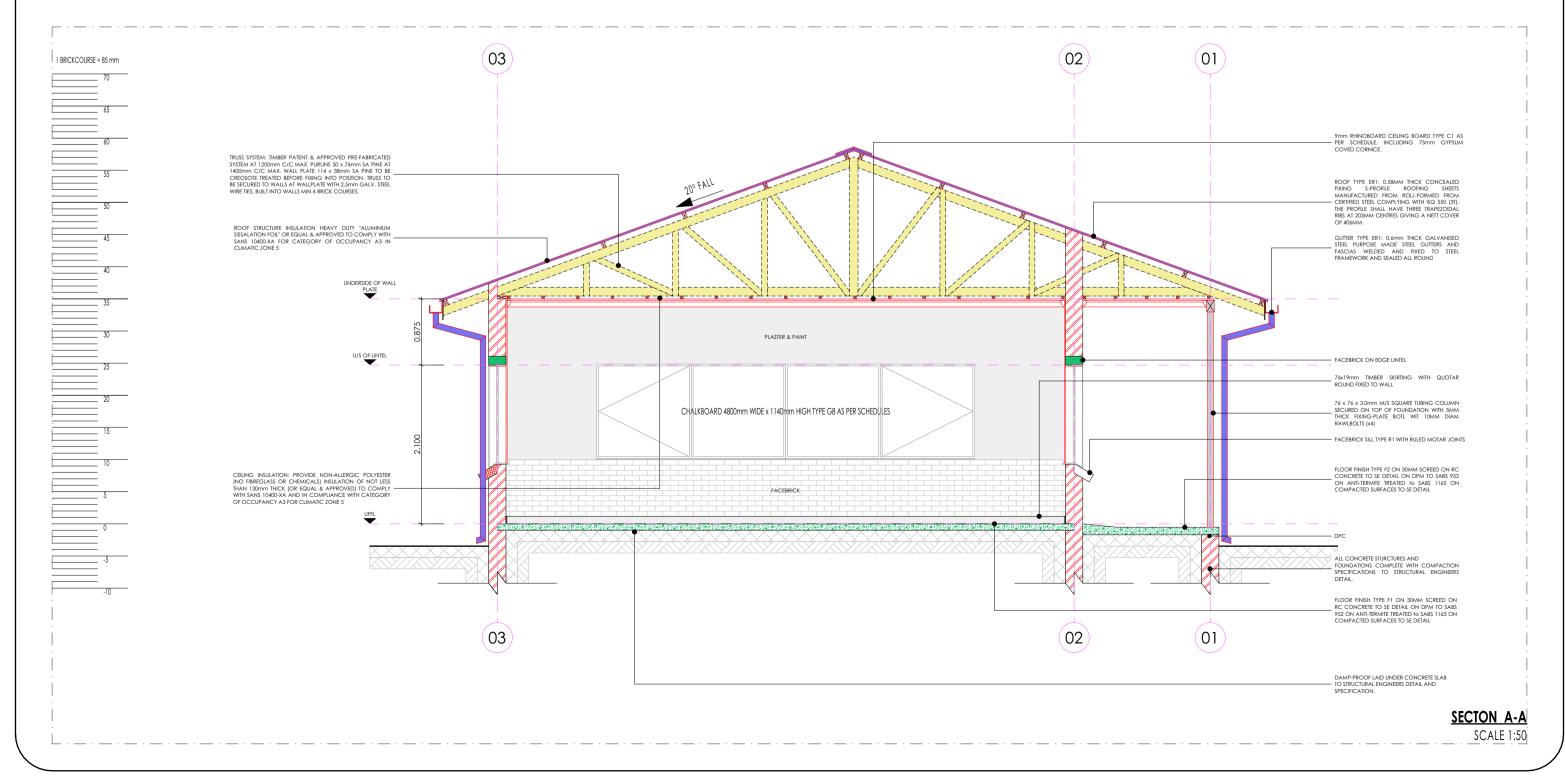


WINDOW SCHEDULE

SCALE 1:100

# (01) SIDE ELEVATION 0





# **SANITARY SCHEDULE**

#### **WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN**

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id 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

treous 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

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

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 "Ja; 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 parapleaic 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)** 

#### /itreous 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.

TAIL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

Overhead shower arm with wall flange.

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

## tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled. **WASH-HAND BASIN**

**B1: WHB & MIXER TAP** 

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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) imic 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 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; 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)
Evaluation for 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

# 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 32m 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.

**B6: MEDIC BASIN & FITTINGS (SICK BAY)** 

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 fittled with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustab and supplied with suitable assesories 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 (cupboc 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-conceale brackets supplied with all necessary accessories (all to be acid resistant

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. 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 ba 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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

64 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

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.

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 screw and plastic wall plugs. Installed as per manufacturer's instructions

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 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.

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 K11: HAND DRYER (Hands free)

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

#### 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** 

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 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 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

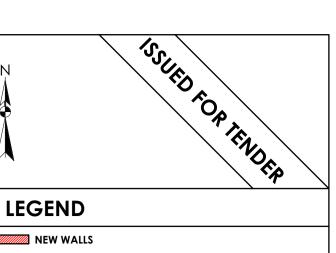
#### cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. **G6: FLOOR DRAIN** Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

**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

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

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 in accordance with the manufacturer's instructions



# WWW NEW WALLS

EXISTING WALL TO BE RETAINED EXISTING WALL TO BE DEMOLISHED

ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

all dimensions are in millimeters unless otherwise

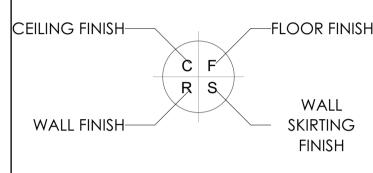
NEW FIXTURES & FITTING TO BE INSTALLED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT

# FINISHES LEGEND

ARCHITECT



			GNATURE TABLE	
DISCIPLINE			SIGN	DATE
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FIRE CON				
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ROADS	STORMWAT	ΓER		
WATER & S	OITATION	١		
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RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** 

BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES **SMTN** NΔ AS SHOWN T.M

CHECK NOV 2019 A. SINKALA 24750409



TEL: +27 (0)13 754 6579

www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

## 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.

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 ccreeds 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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.

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

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.

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 nto 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

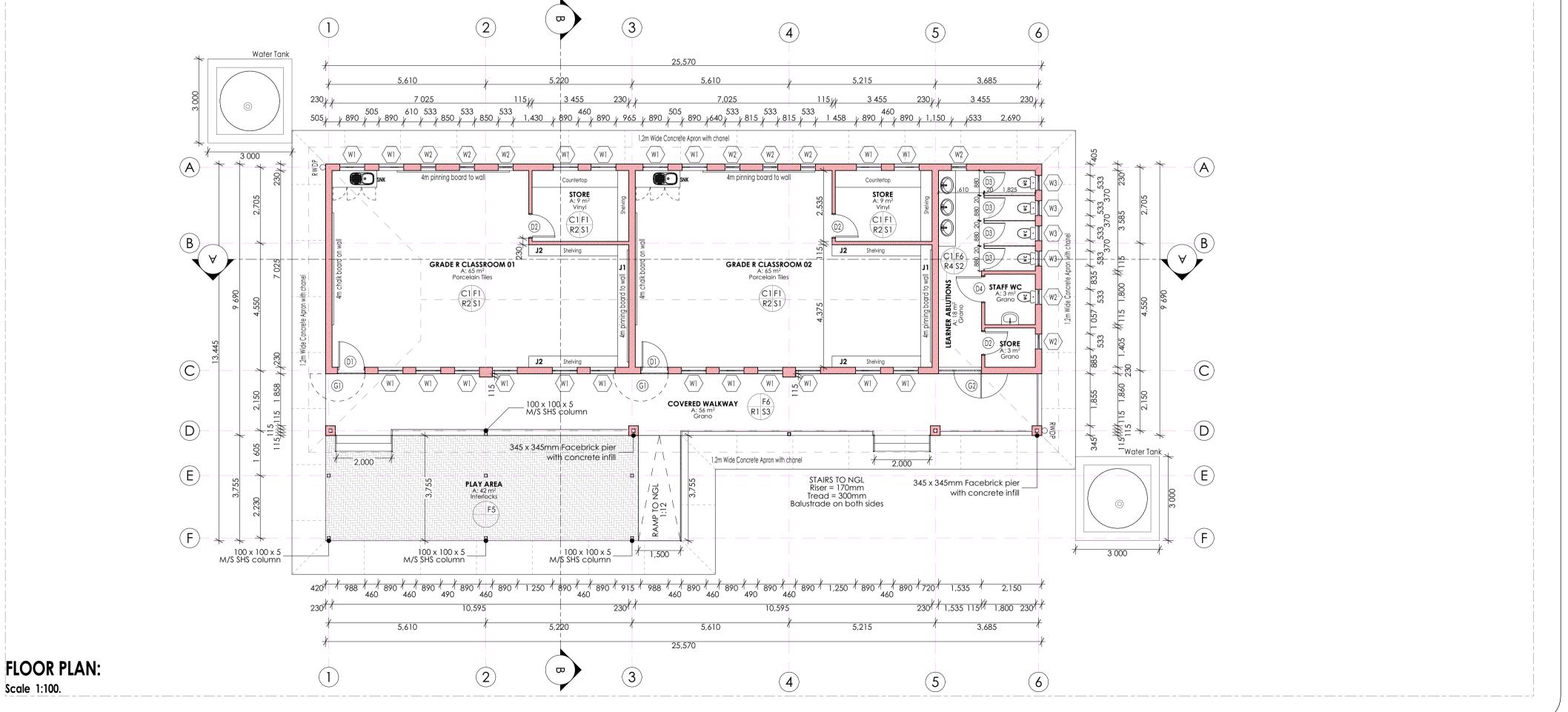
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

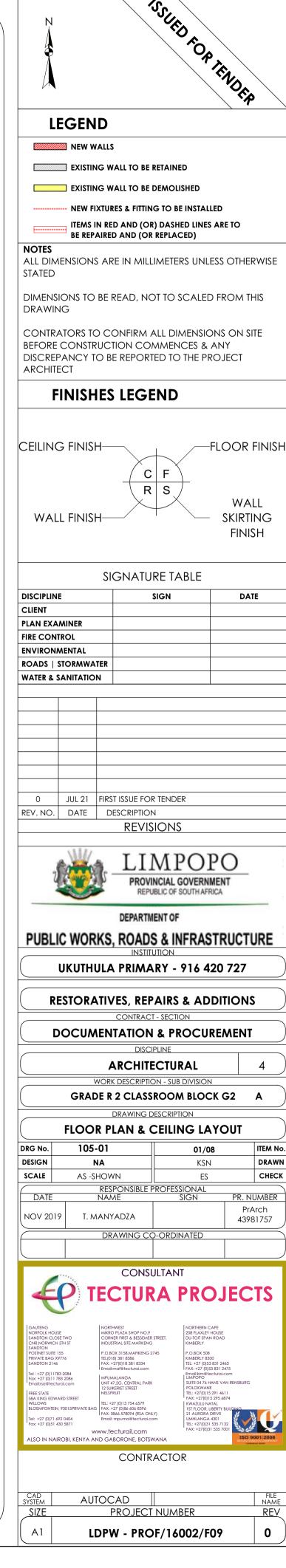
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

<u>Downpipe:</u> 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.







## 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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:**

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.

# 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 t

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.

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 nto 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)

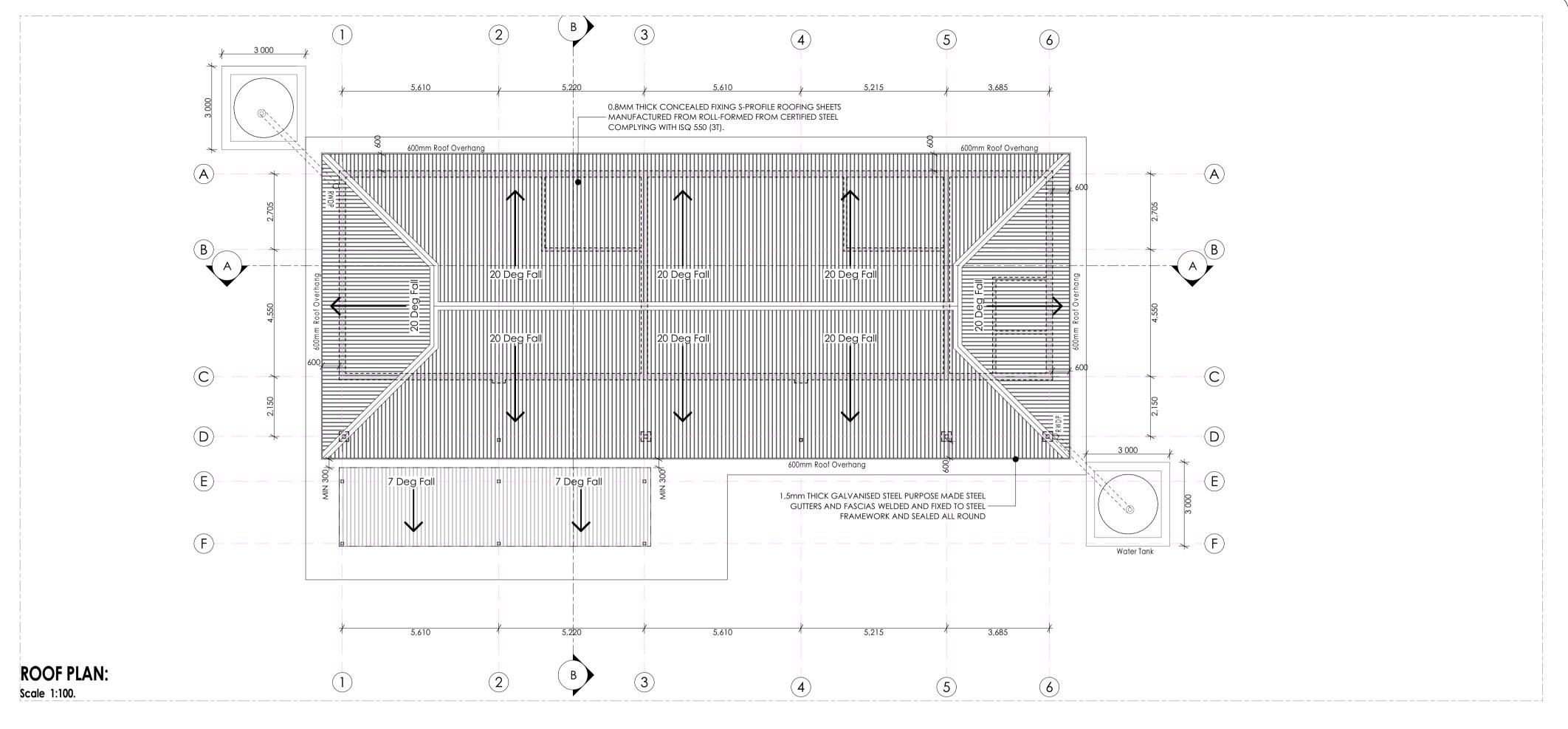
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

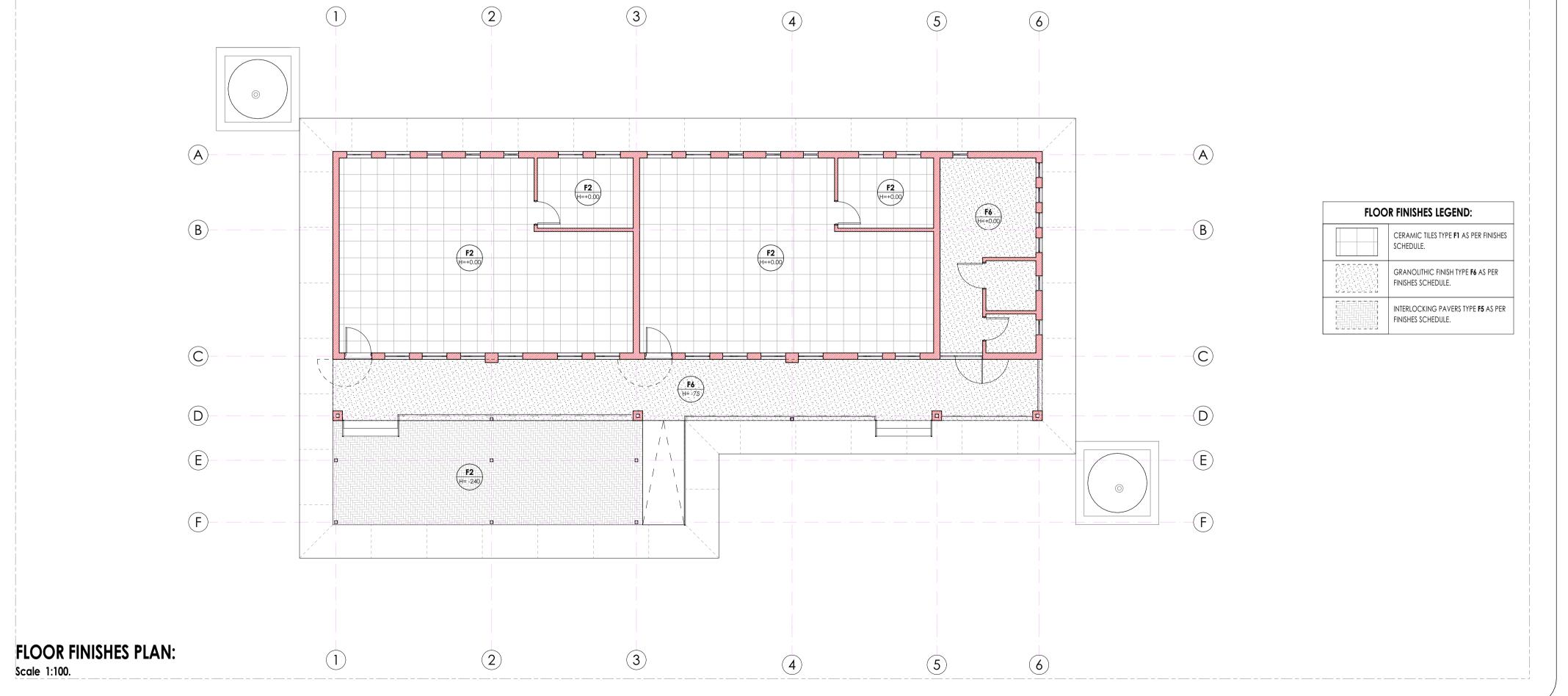
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

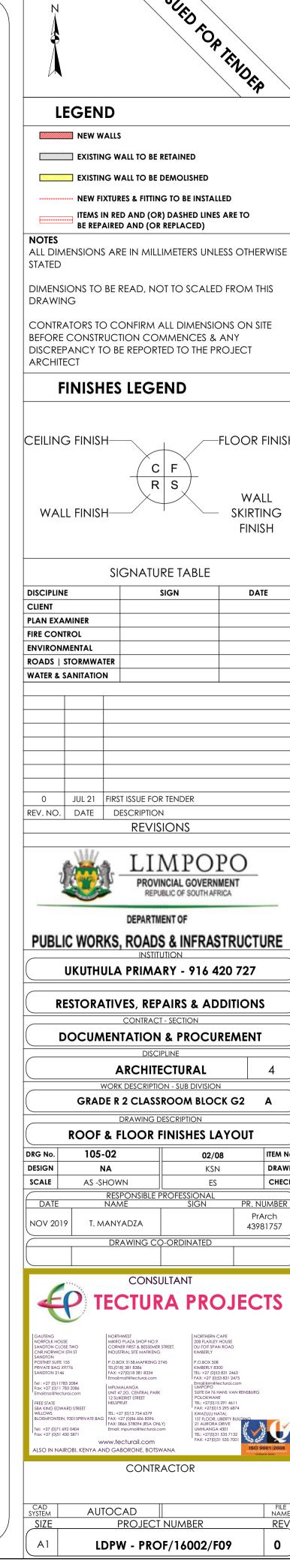
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

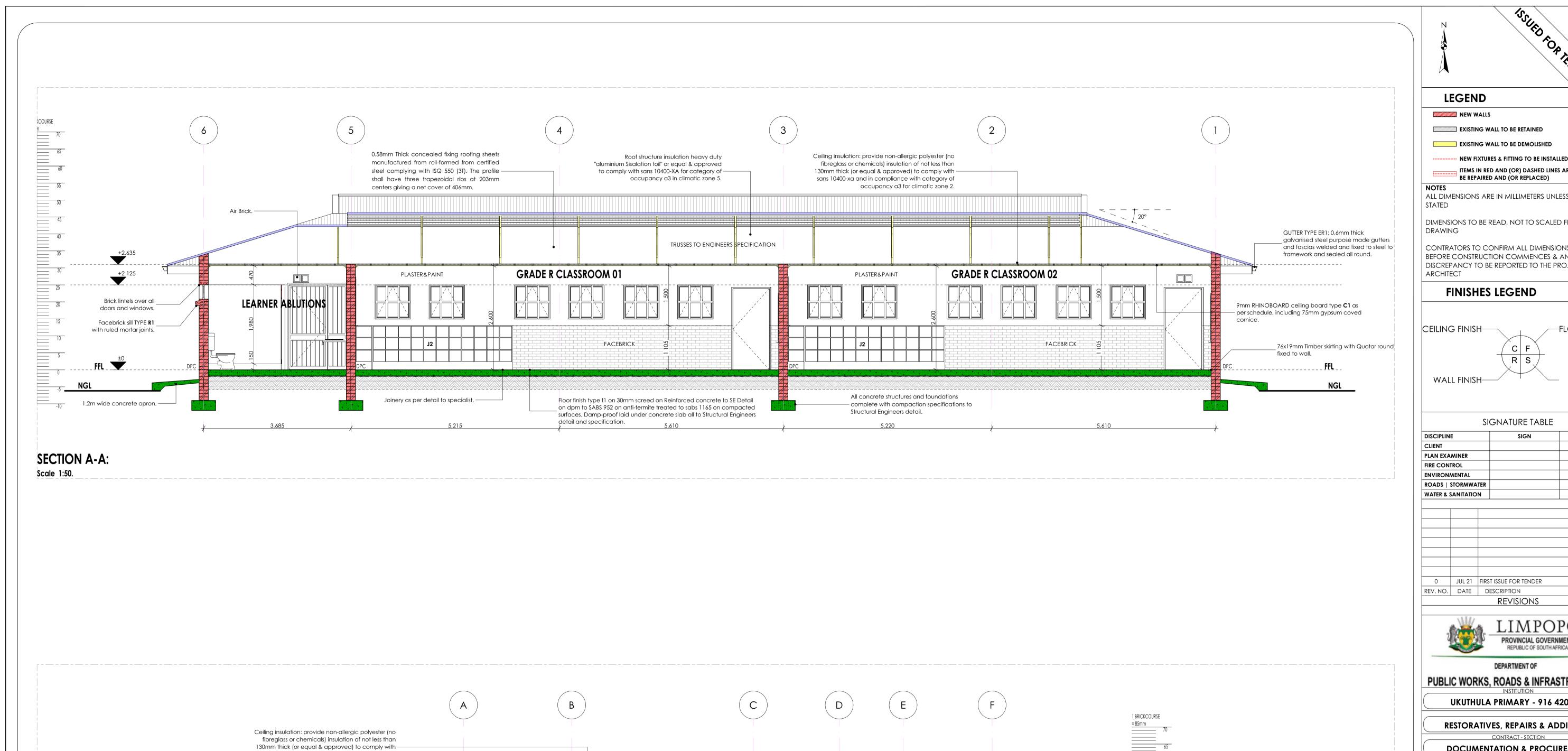
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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.









sans 10400-xa and in compliance with category of

"aluminium Sisalation foil" or equal & approved

to comply with sans 10400-XA for category of

occupancy a3 for climatic zone 2.

Roof structure insulation heavy duty

occupancy a3 in climatic zone 5.

GUTTER TYPE ER1: 0,6mm thick

gutters and fascias welded and -

fixed to steel to framework and

9mm RHINOBOARD ceiling board

type C1 as per schedule, including

**SECTION B-B:** 

Scale 1:50.

75mm gypsum coved cornice.

sealed all round.

Brick lintels over all

doors and windows.

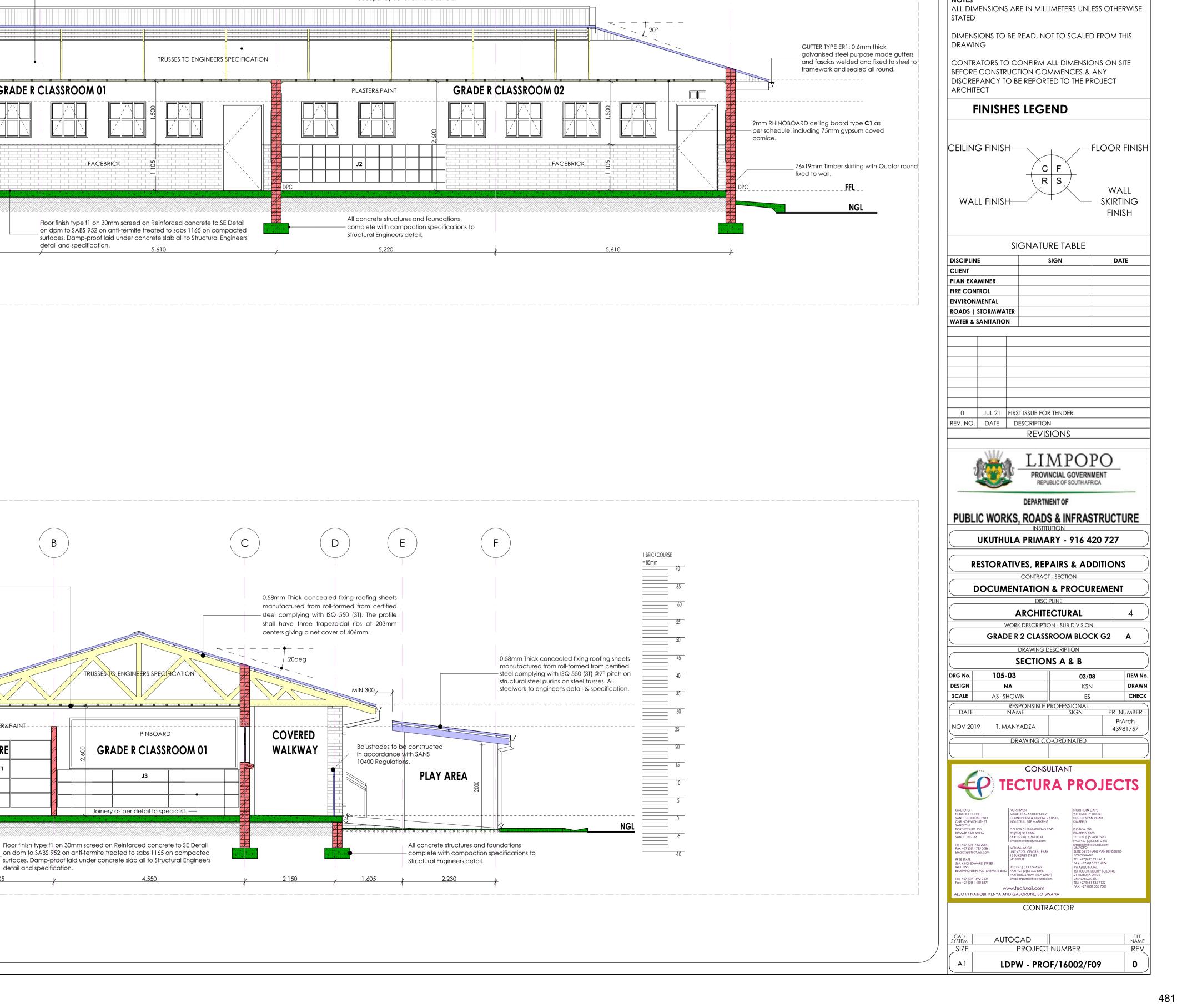
Facebrick sill TYPE R1 with ruled mortar joints.

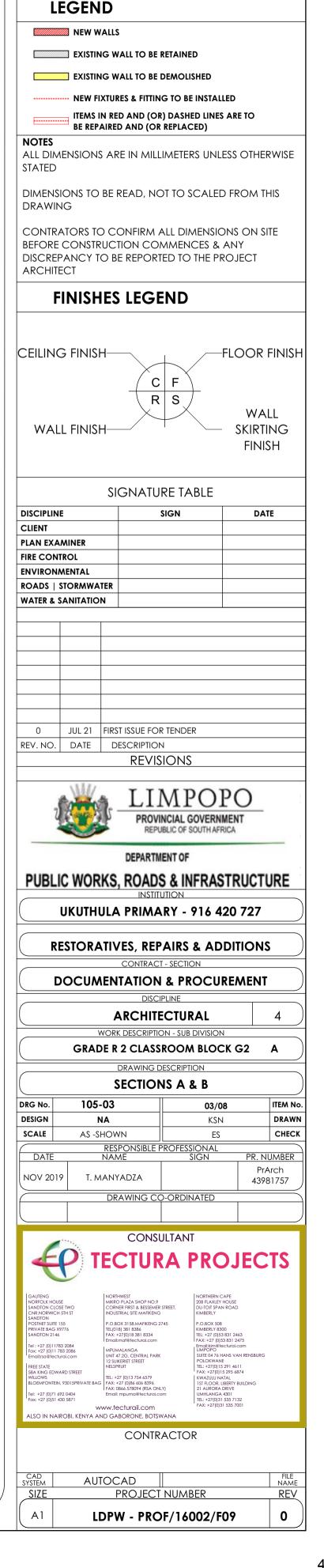
1.2m wide concrete apron. –

- PLASTER&PAINT -

STORE

galvanised steel purpose made





## 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.

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

#### 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.

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.

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 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 ato 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)

compliance to manufacturer's instructions.

**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

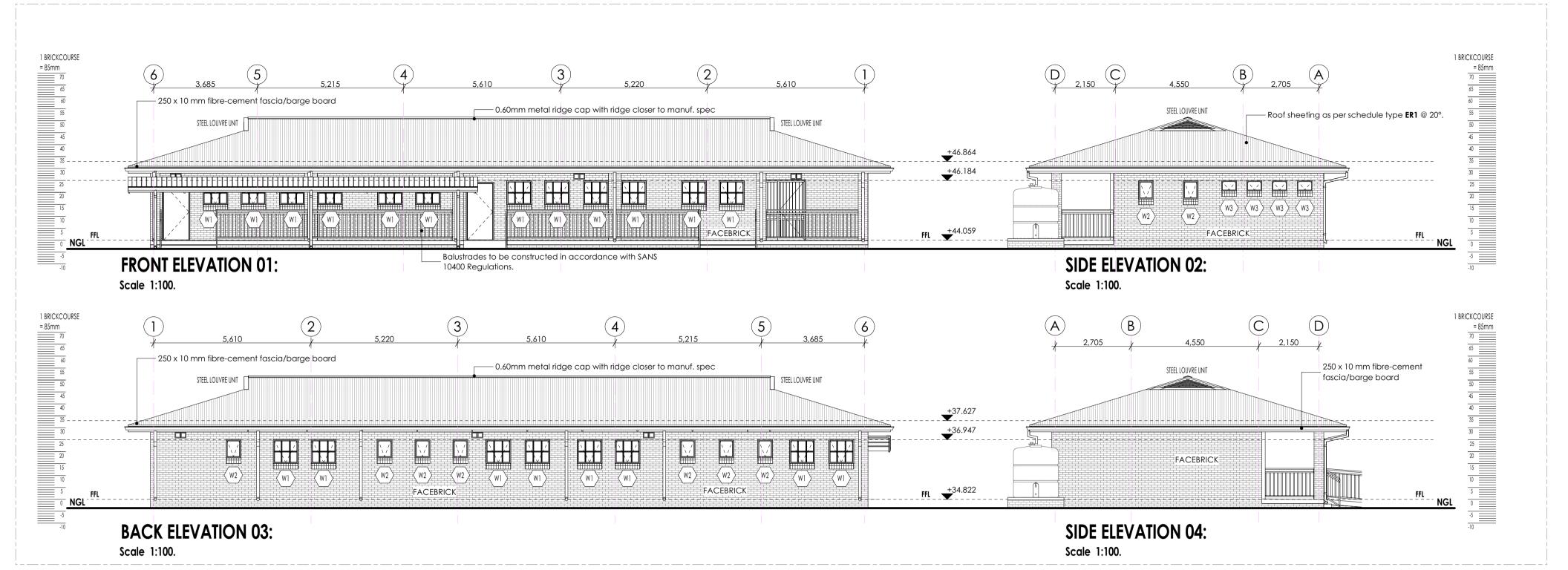
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

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.

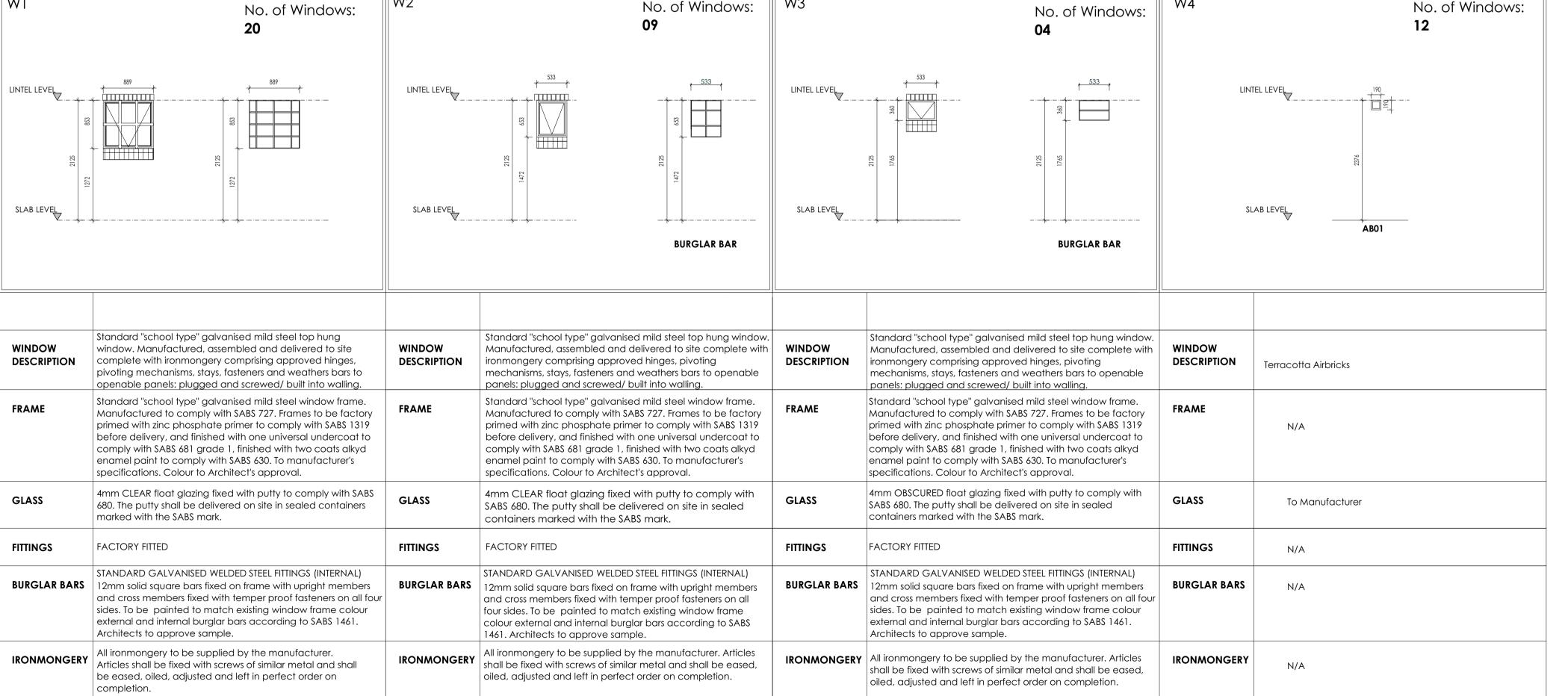
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

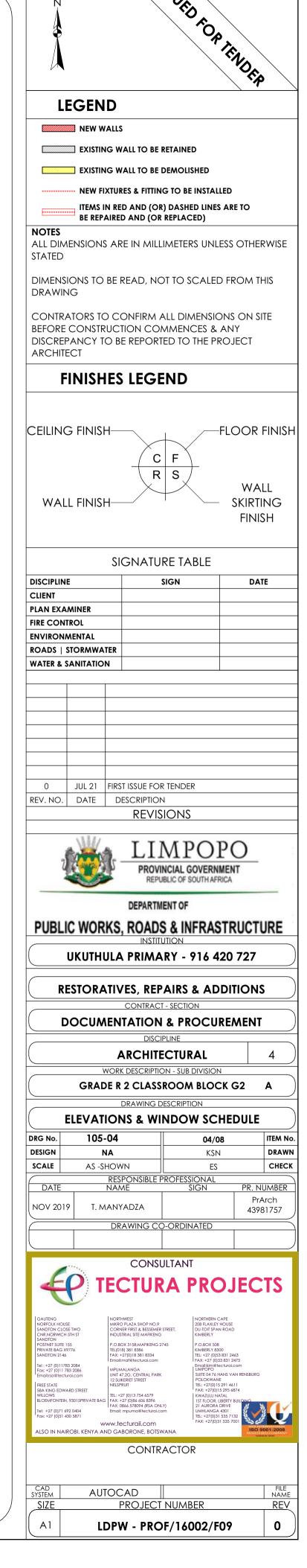
**Downpipe:** 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

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.



# WINDOW SCHEDULE:





#### 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.

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 ccreeds 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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

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 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.

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:**

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.

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.

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 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 ato 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

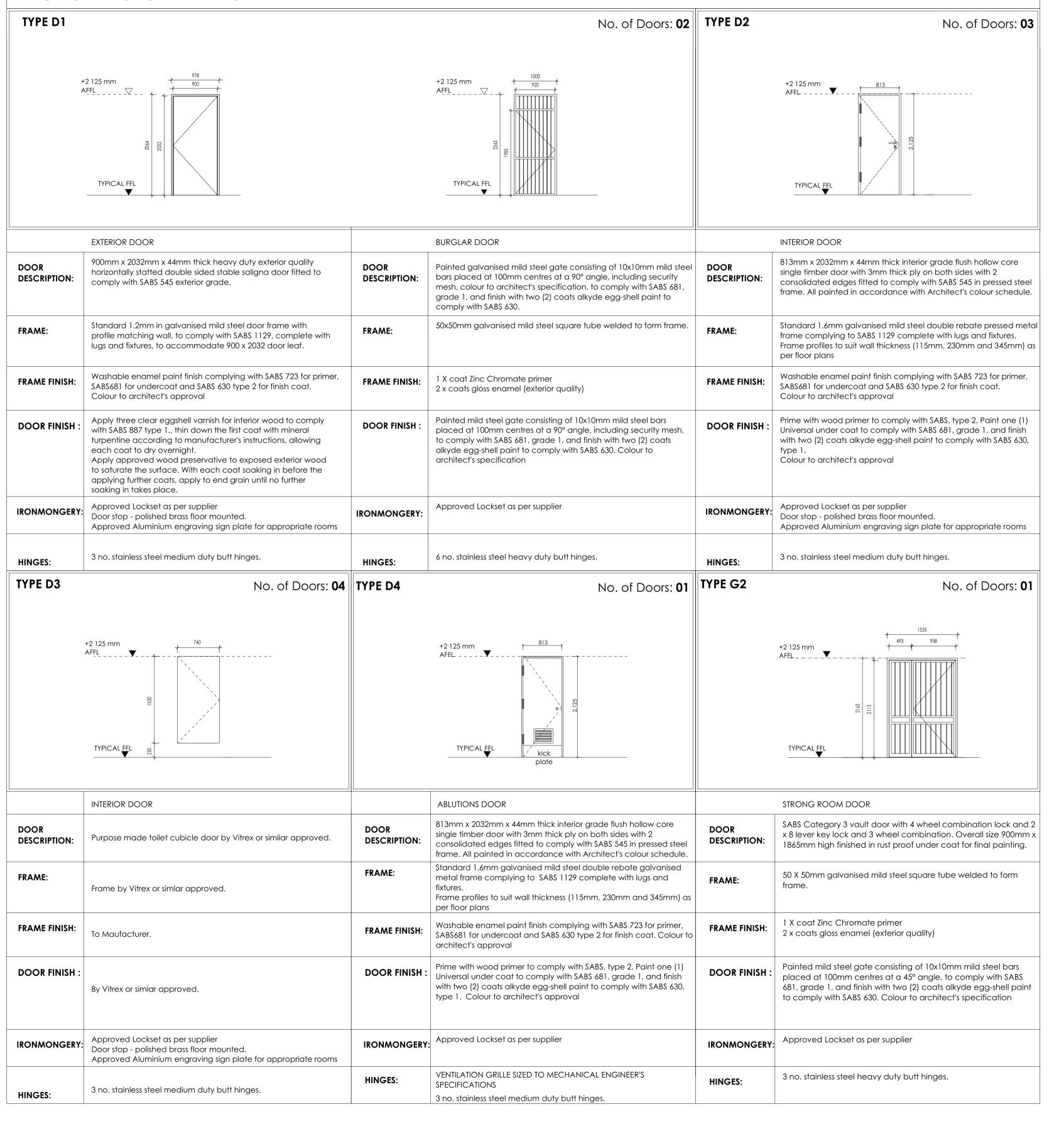
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

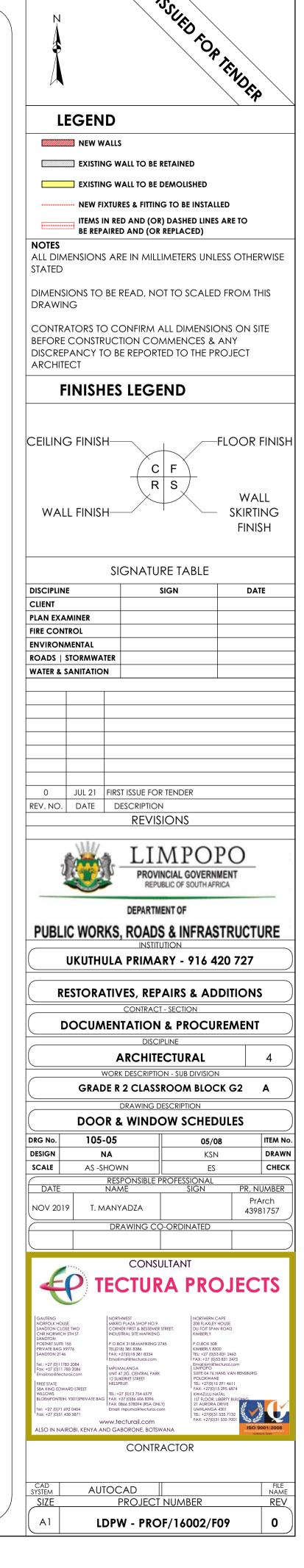
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

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

# DOOR SCHEDULE:





# **SANITARY SCHEDULE** WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with 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 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. **Z5: CERAMIC STANDARD WC (CC)** Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. **WASH-HAND BASIN** basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves. **B2: DISABLED BASIN** itreous 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

## 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.

# 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

# Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with

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

pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

# **B3: WHITE GLAZED PORCELAIN WHB (VANITY)**

Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict

# **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)**

**B6: MEDIC BASIN & FITTINGS (SICK BAY)** 

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

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

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 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 assessmes 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 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-conceoled 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

# SANITARY ACCESSORIES

piece at height of 915mm AFFL.

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

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

#### K4: SANITARY BIN (PLASTIC) 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**

#### 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

# 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

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**

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.

#### 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.

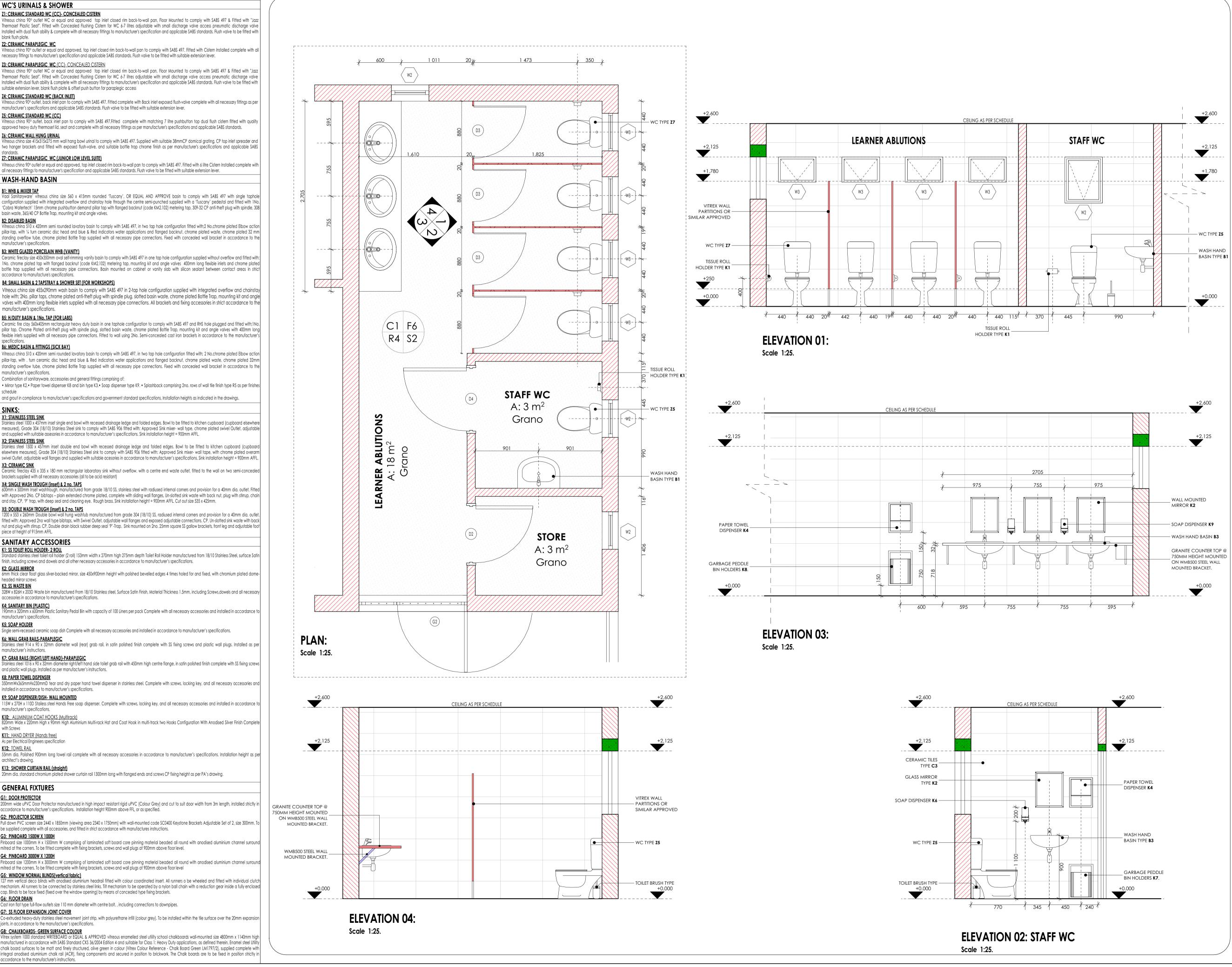
#### G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

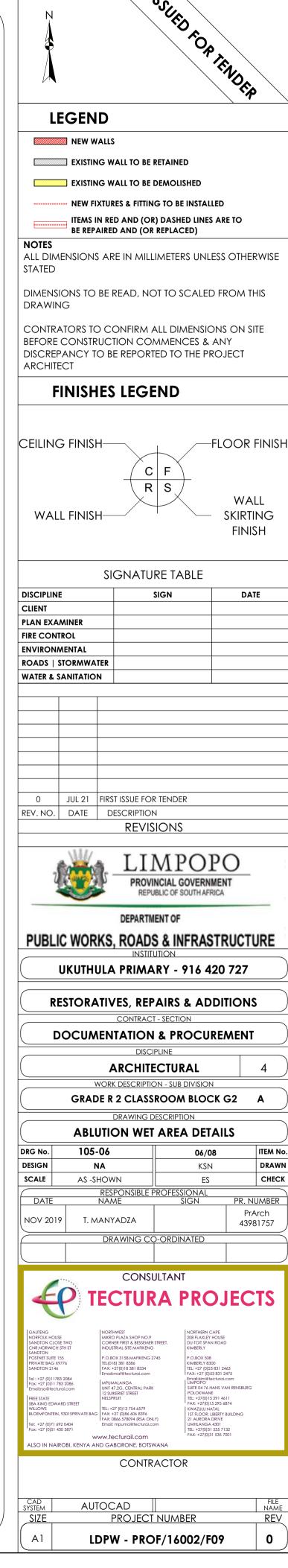
# **G7: SS FLOOR EXPANSION JOINT COVER**

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 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.





#### 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

#### 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, 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 SAN\$ 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/SAN\$ 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.

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

# CEILING AND CORNICE:

# C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

manufactured and installed in strict compliance SABS 22 Standard.

"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 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.

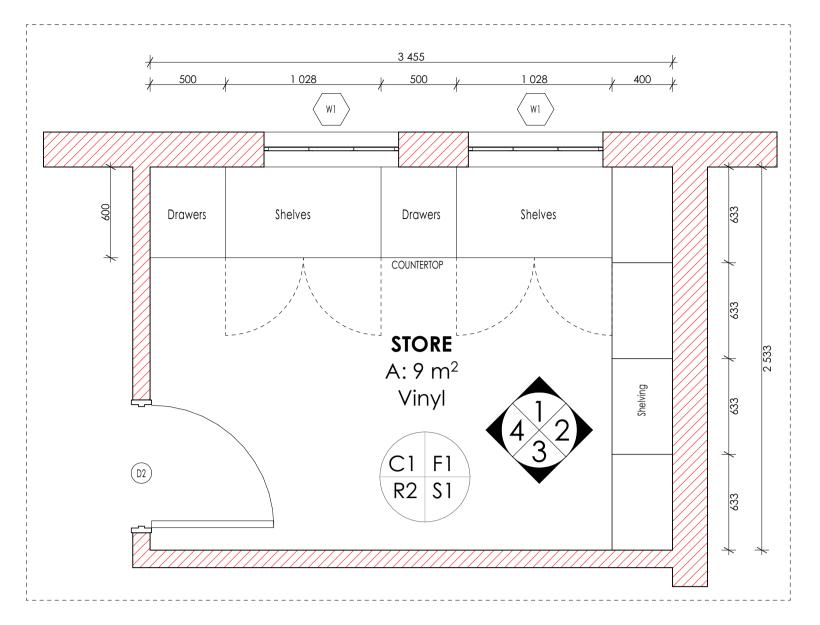
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm 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 7275 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.

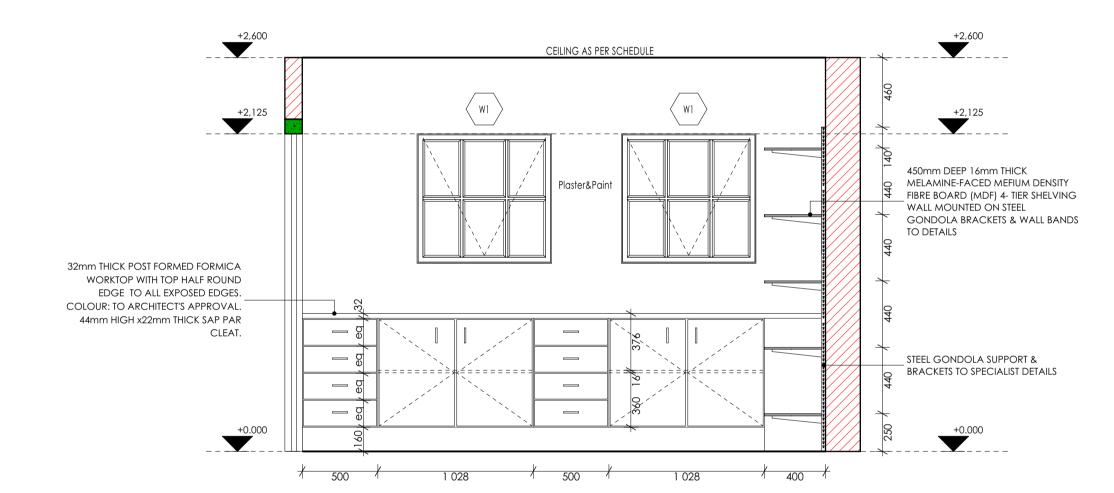
<u>Fascia board:</u> 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

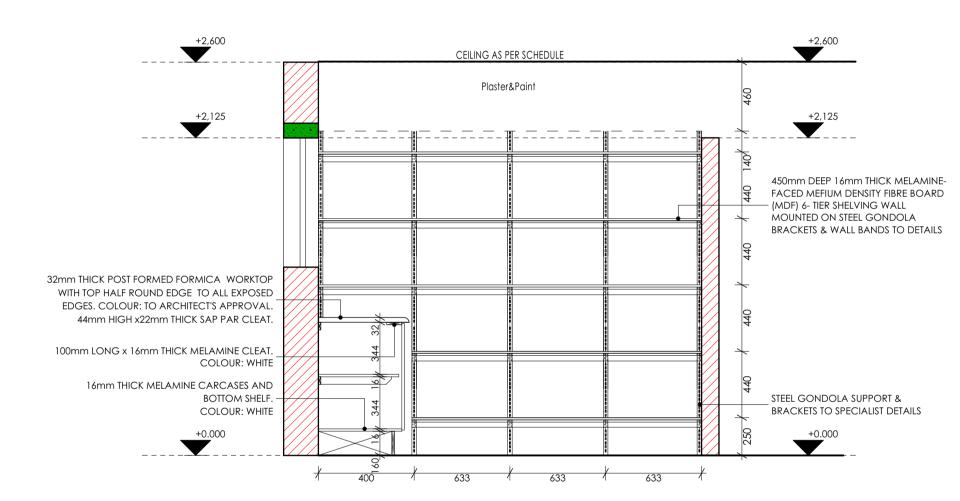


# **STORE PLAN:**

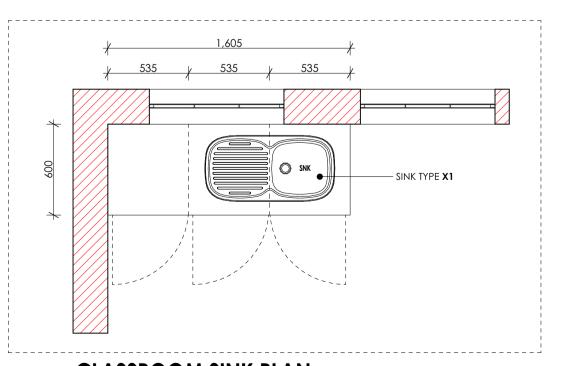
Scale 1:25.



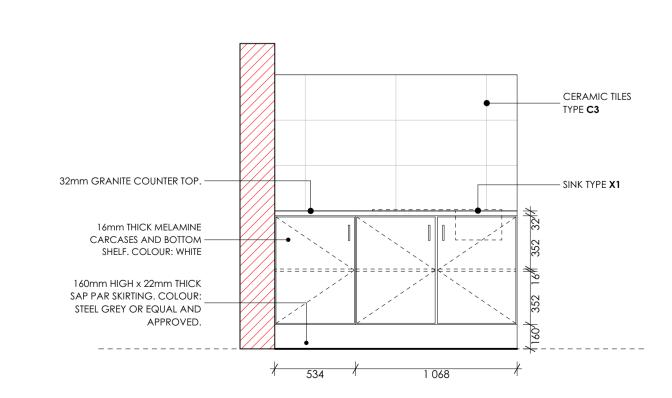
ELEVATION 01: Scale 1:25.



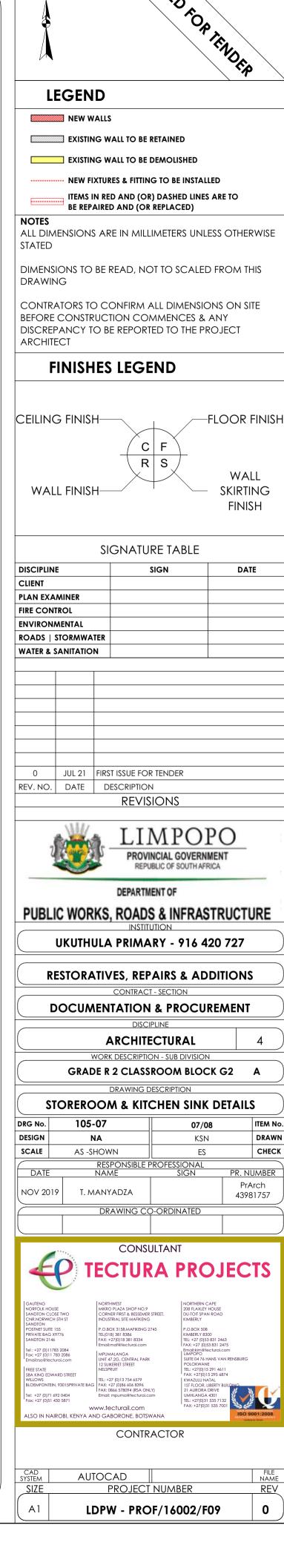
ELEVATION 02: Scale 1:25.



CLASSROOM SINK PLAN: Scale 1:25.



ELEVATION 01: Scale 1:25.



# **SANITARY SCHEDULE**

#### WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

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

Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with

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

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.

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

## /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

Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

## **WASH-HAND BASIN**

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 Waterlech' 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**

/itreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

## **B3: WHITE GLAZED PORCELAIN WHB (VANITY)**

Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict

## **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

# **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

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 elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

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

K1: SS TOILET ROLL HOLDER- 2 ROLL andard 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

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

# 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.

# 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** 

PLAN:

Scale 1:25.

#### 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.

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

K11: HAND DRYER (Hands free)

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

#### As per Electrical Engineers specification K12: TOWEL RAIL

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

# 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.

#### 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

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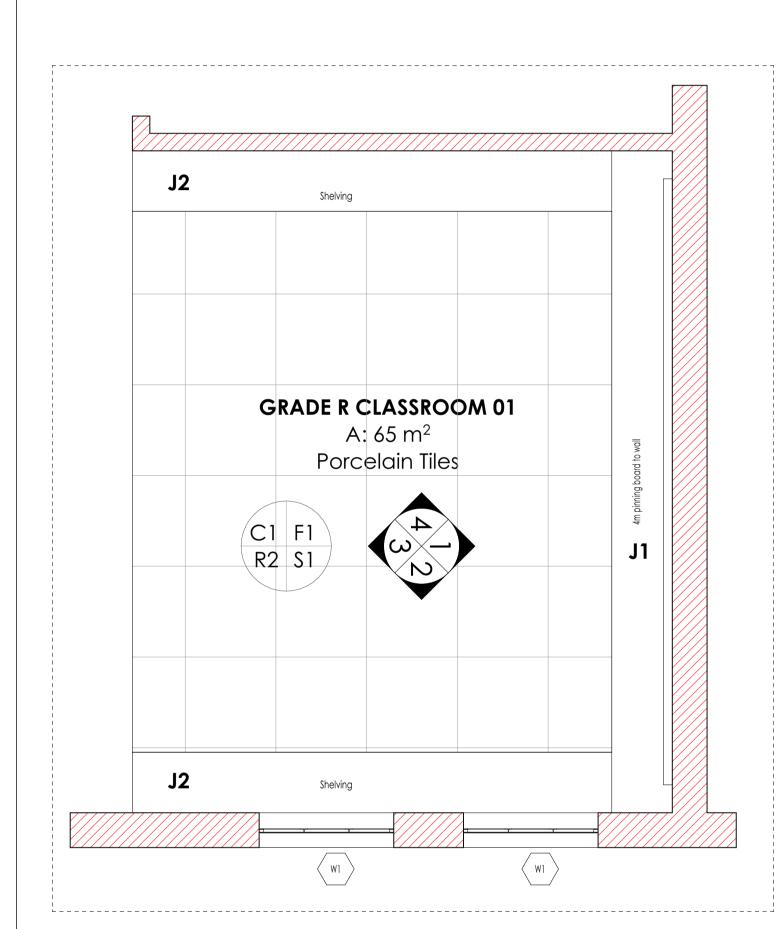
#### G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

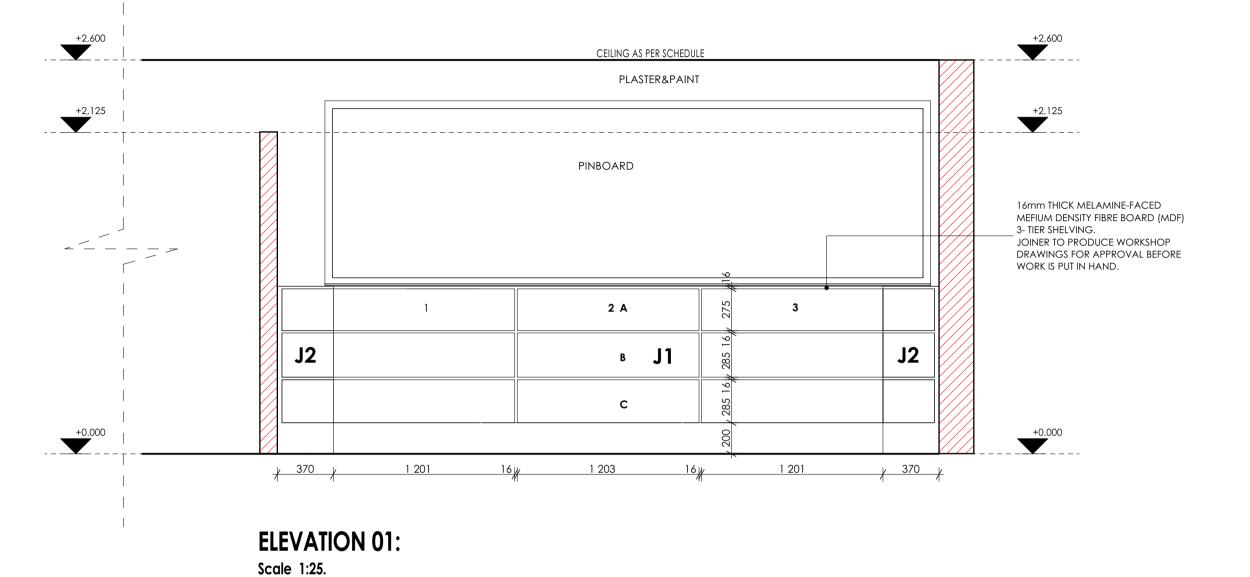
# **G7: SS FLOOR EXPANSION JOINT COVER**

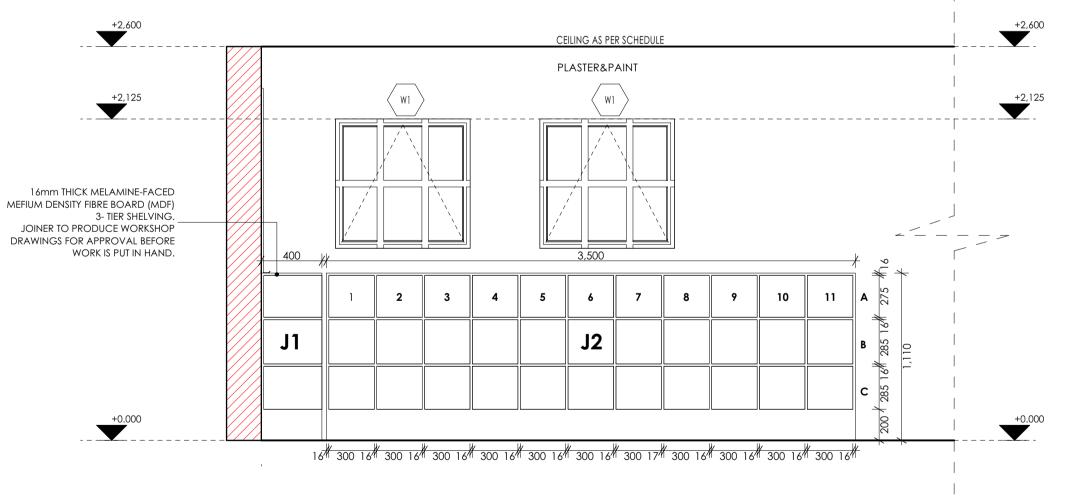
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

# **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 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.

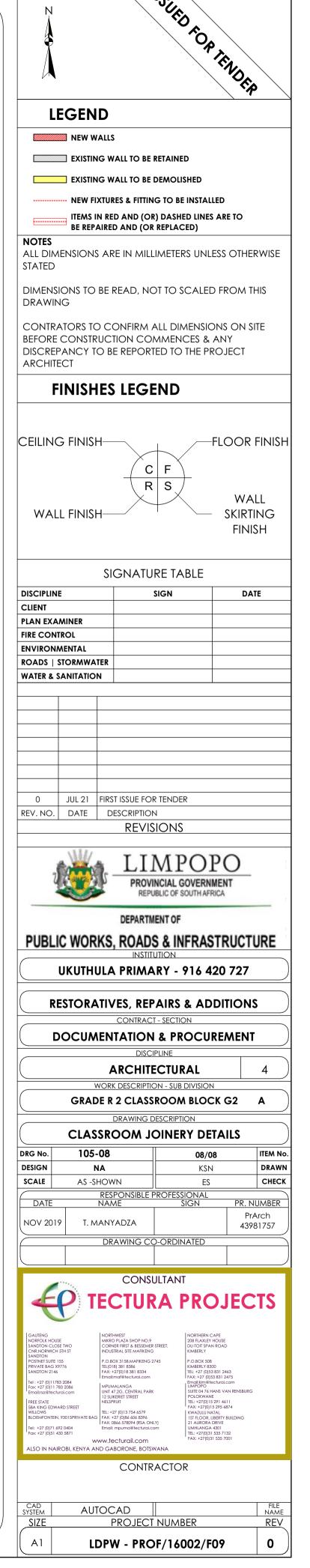






**ELEVATION 02:** 

Scale 1:25.



# 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.

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 ccreeds 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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.

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

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.

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 nto 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:**

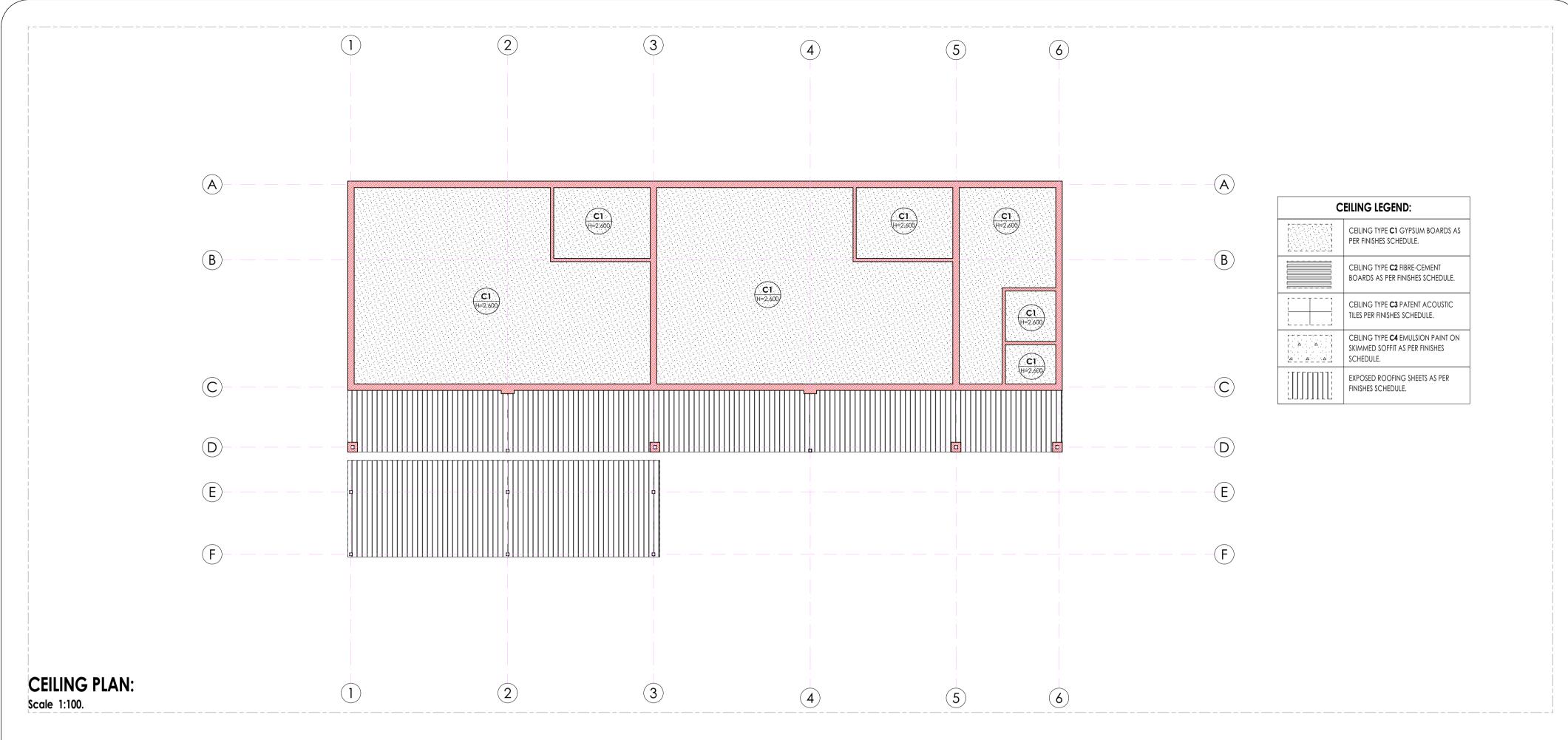
ER1: EMBOSSED ROOFING SHEET (TWO SIDES) **Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

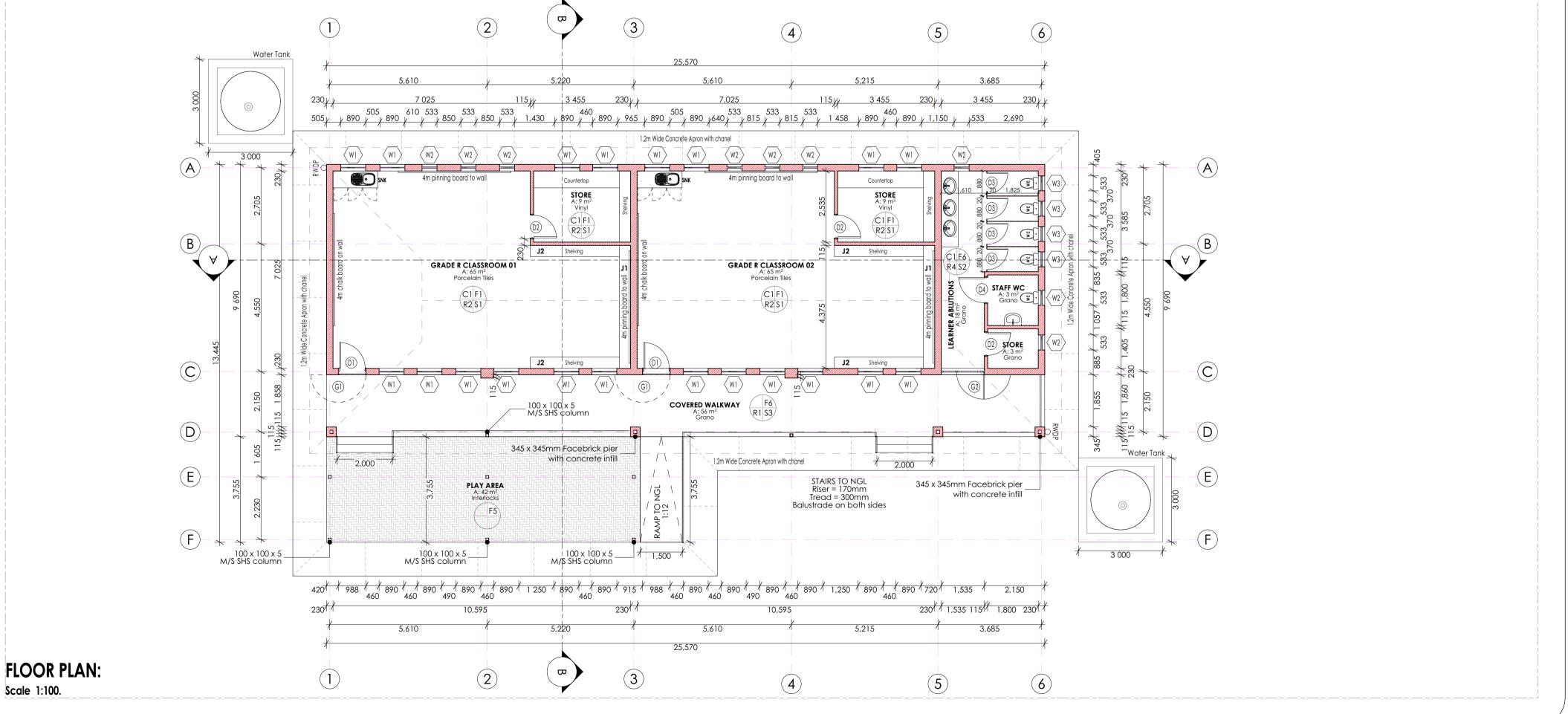
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

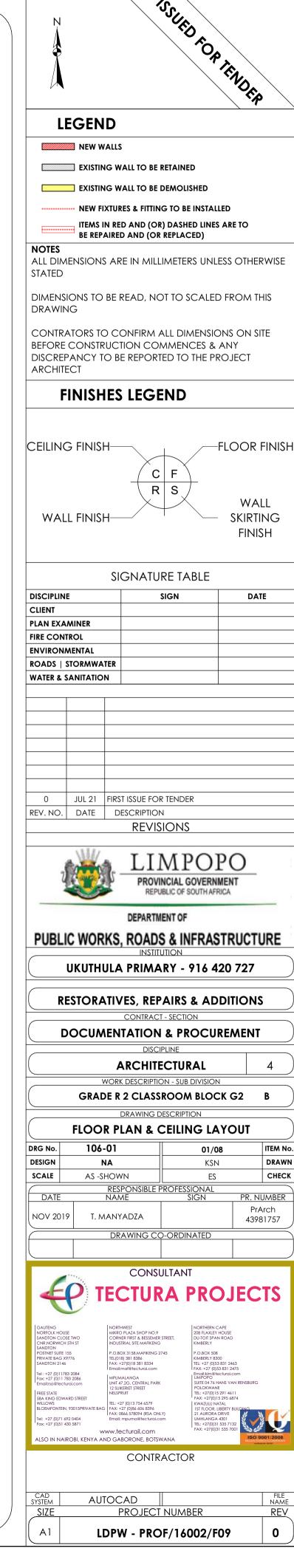
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

<u>Downpipe:</u> 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.







## 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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:**

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.

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

manufactured and installed in strict compliance SABS 22 Standard.

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

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

# 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 nto 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)

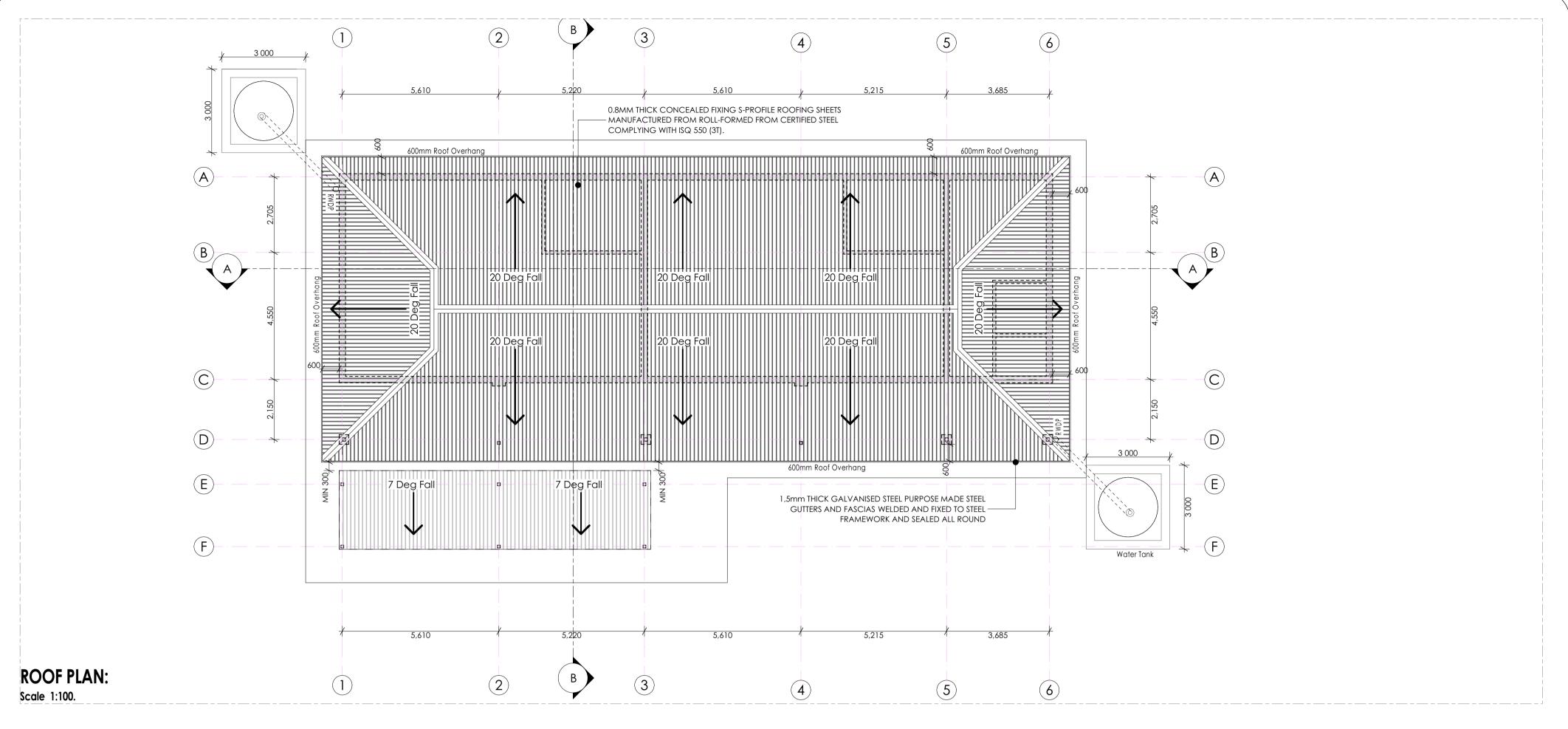
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall

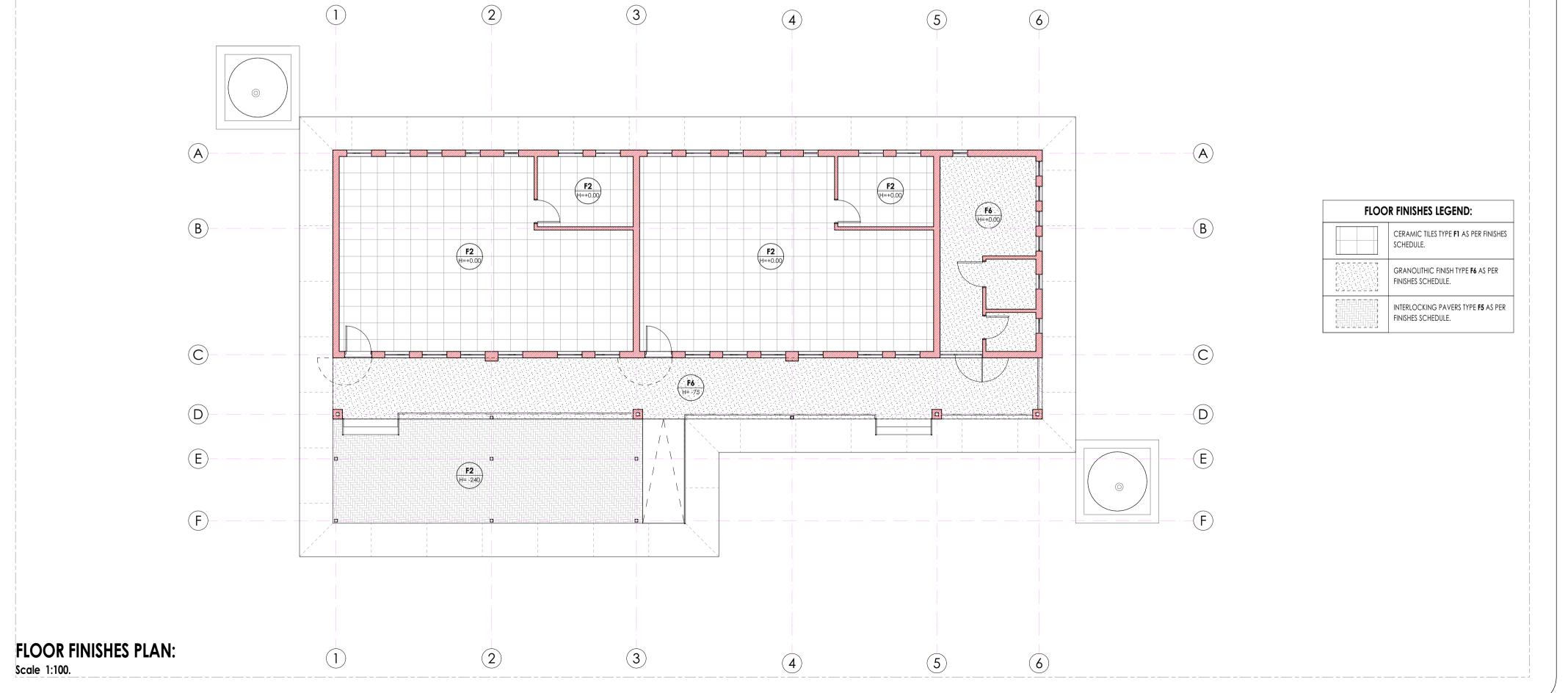
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural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

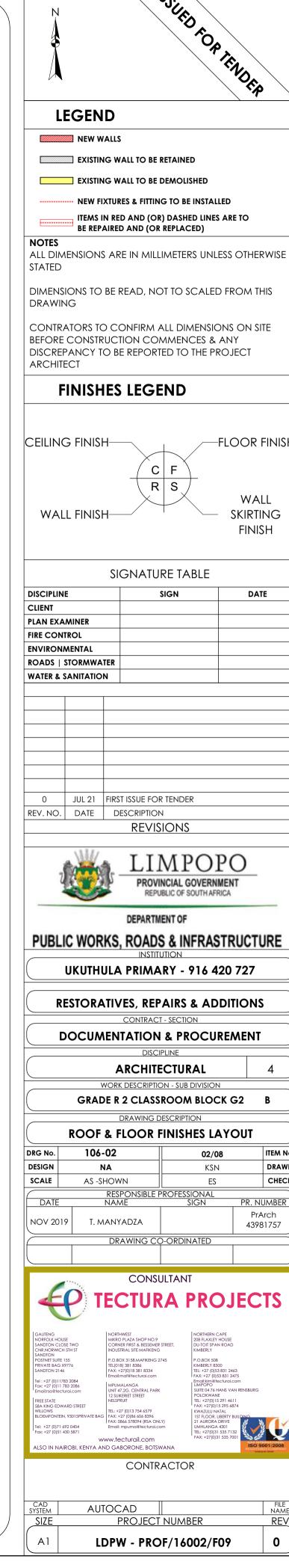
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

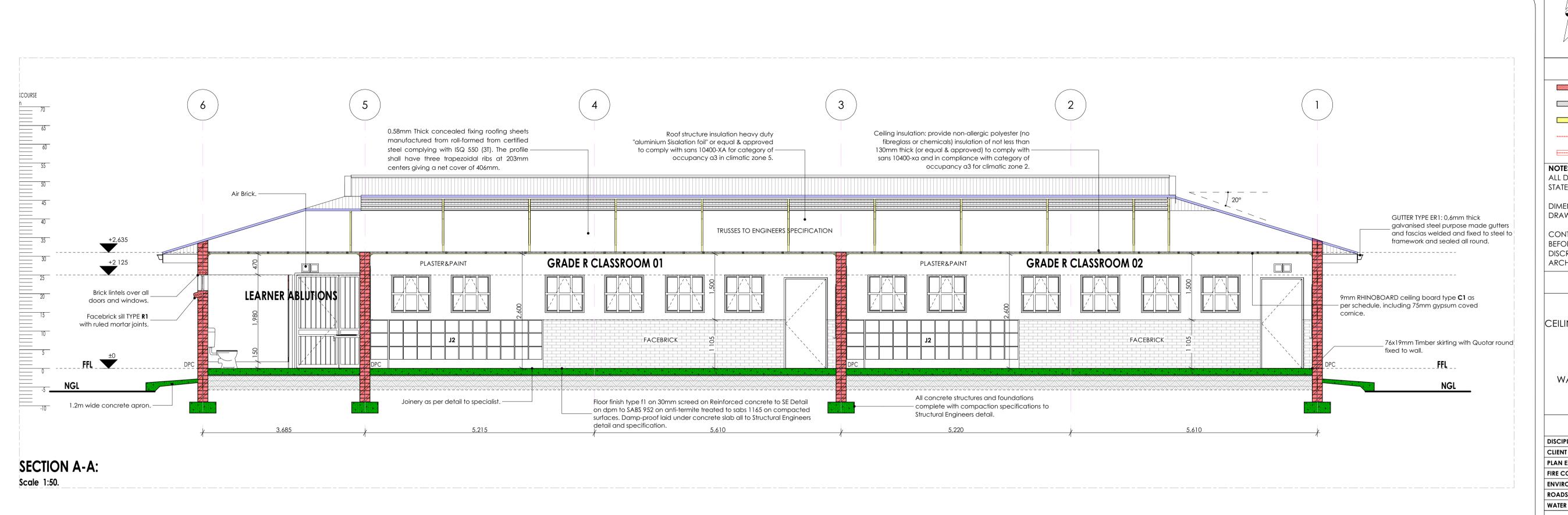
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

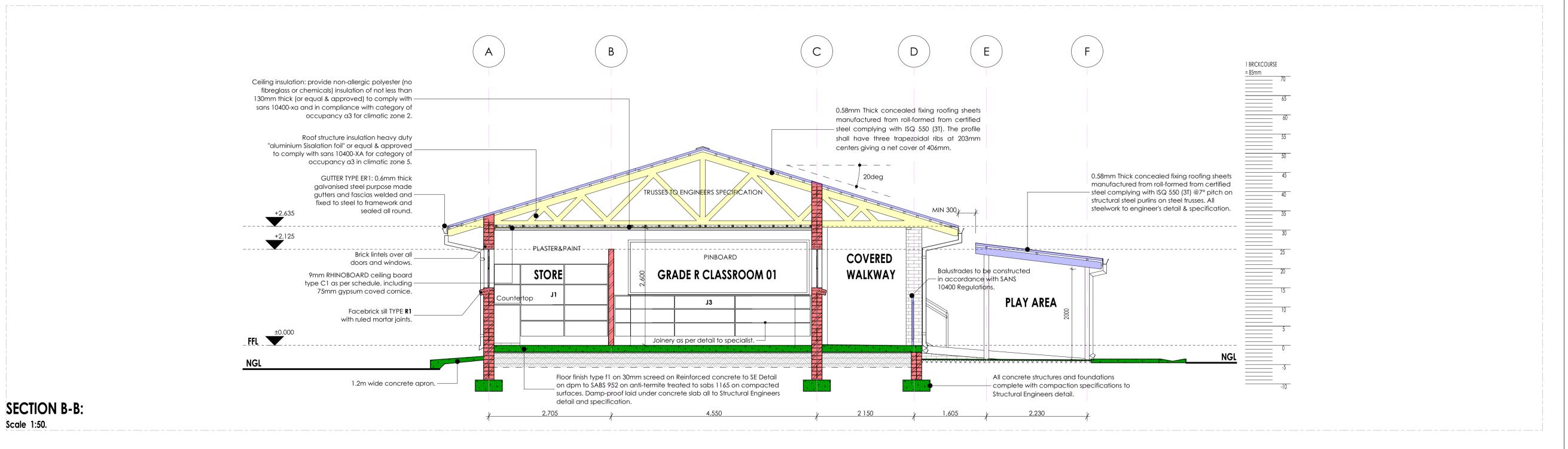
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

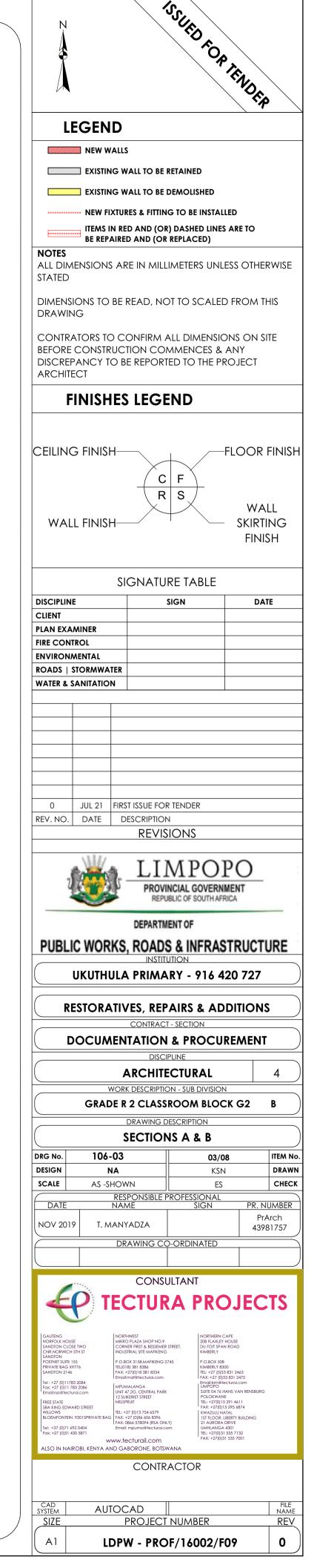












## FLOORS:

#### 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.

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

#### 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.

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.

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 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 ato 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)

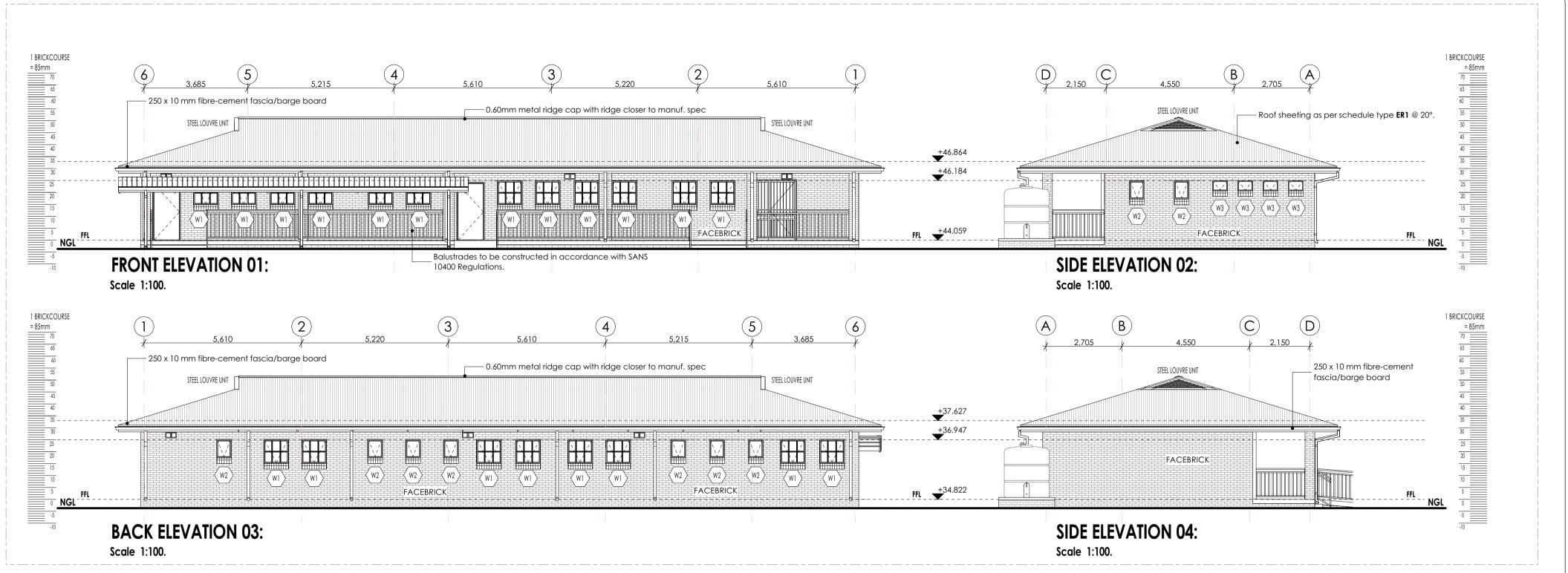
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

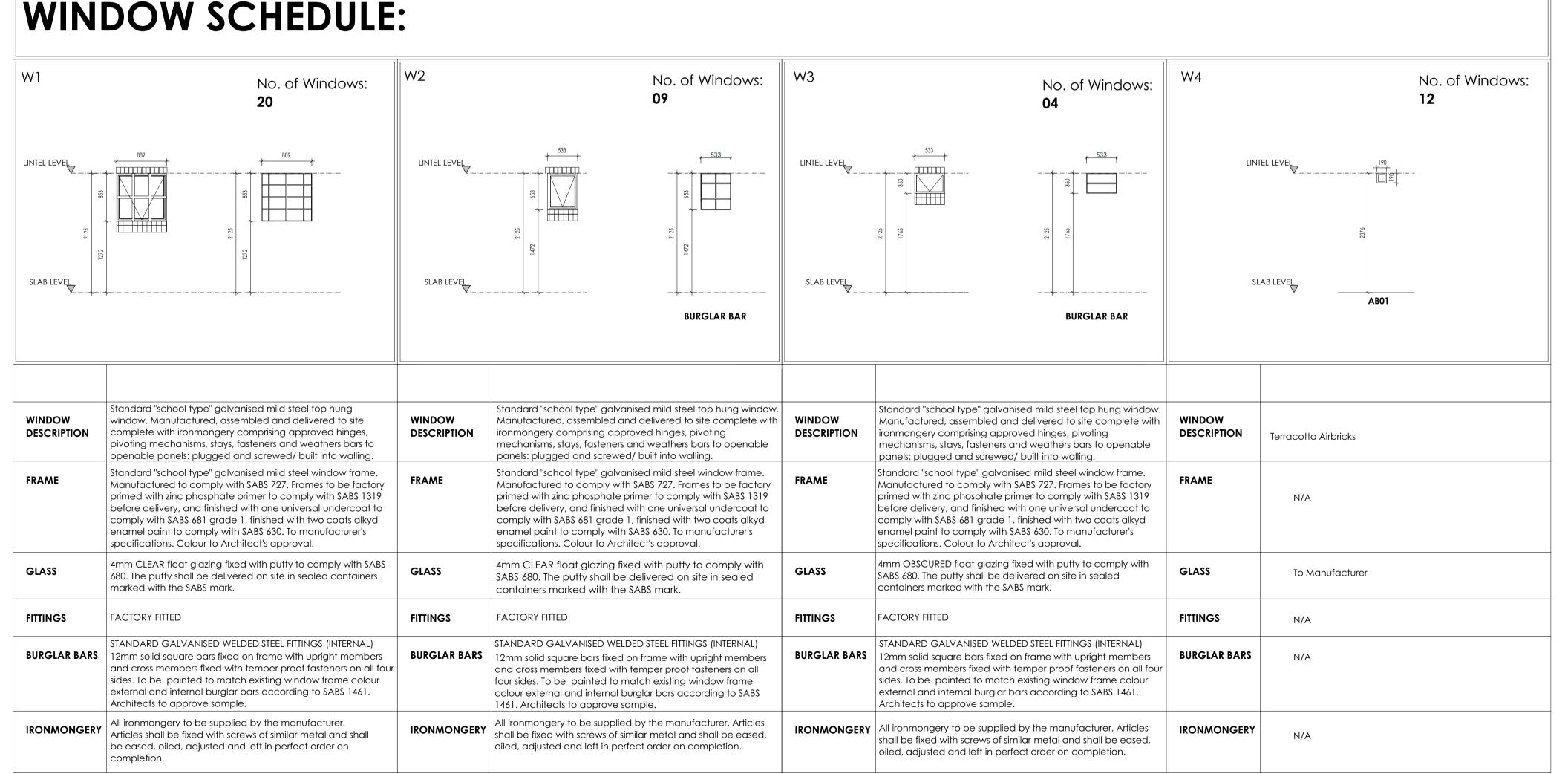
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

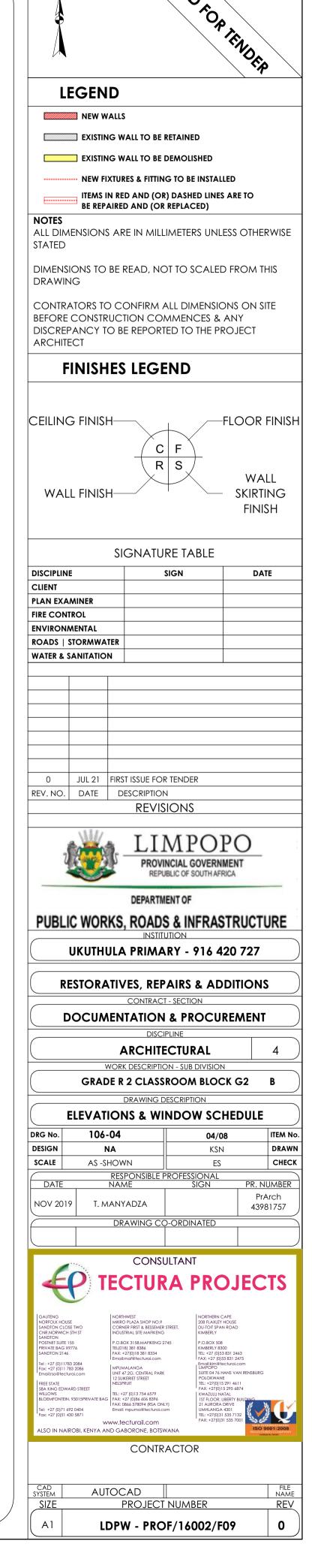
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

**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







## 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.

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 ccreeds 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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

## 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 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.

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:**

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.

# 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.

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 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 ato 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

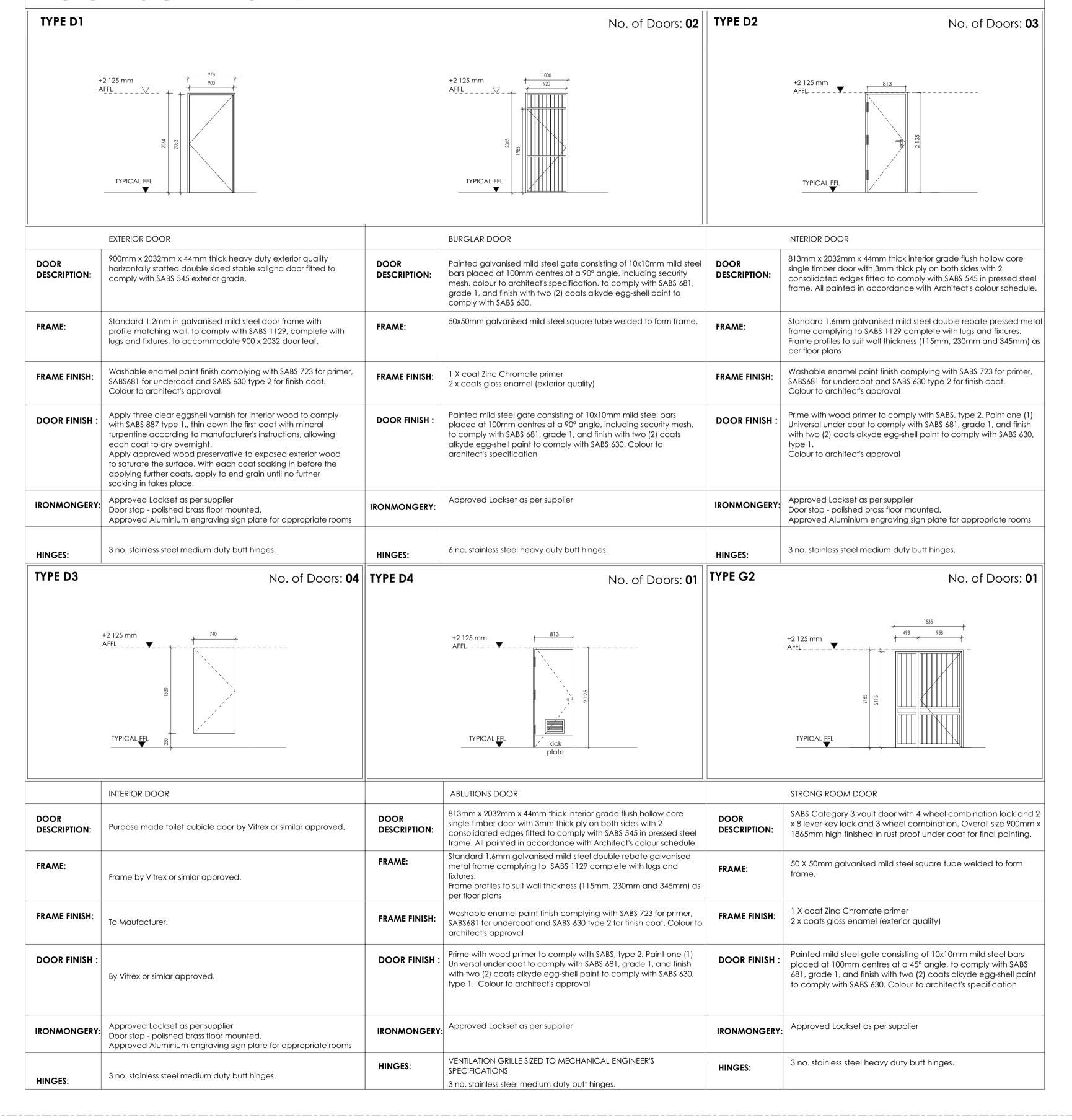
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

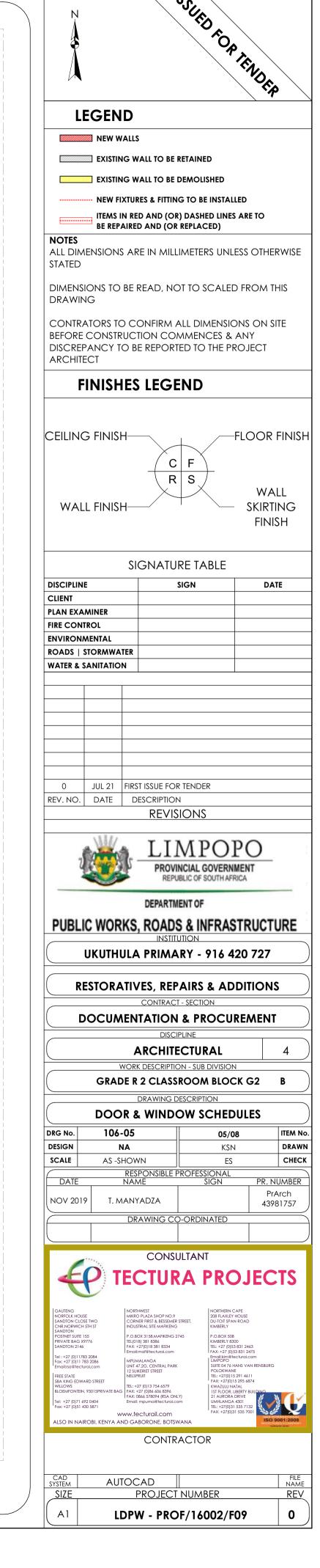
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

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

# DOOR SCHEDULE:





# **SANITARY SCHEDULE** WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermoset Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve Installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with 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 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. **Z5: CERAMIC STANDARD WC (CC)** 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. 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 Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE) Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. **WASH-HAND BASIN** basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves. **B2: DISABLED BASIN**

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

itreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

## 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:

**B3: WHITE GLAZED PORCELAIN WHB (VANITY)** 

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 **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

# **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

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 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 assessmes 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 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-conceoled 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

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

#### K4: SANITARY BIN (PLASTIC) 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

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

# 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**

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.

#### 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.

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

G6: FLOOR DRAIN

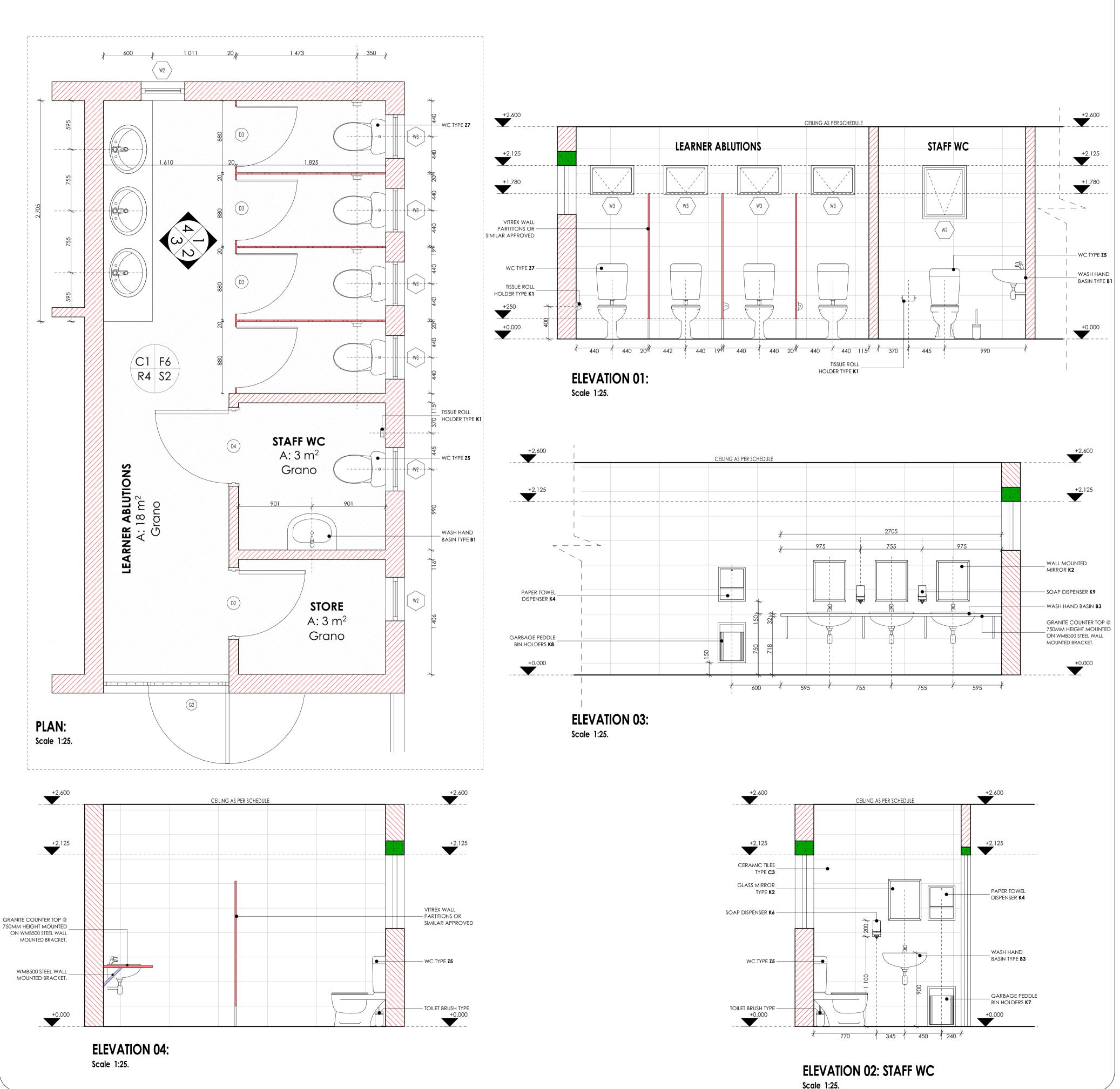
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion

# joints, in accordance to the manufacturer's specifications.

accordance to the manufacturer's instructions.

**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 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



#### 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

#### 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:

## \$1: 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.

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 t 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

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

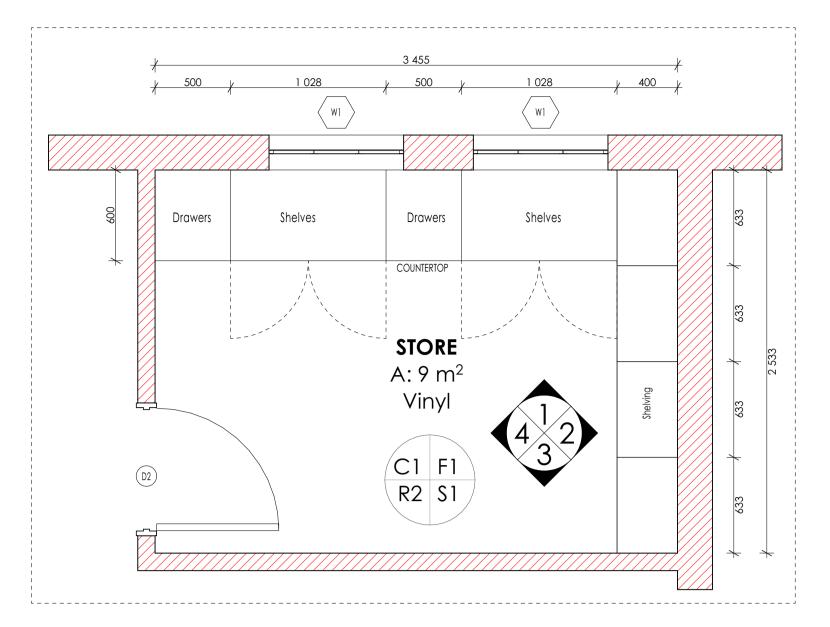
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural 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 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

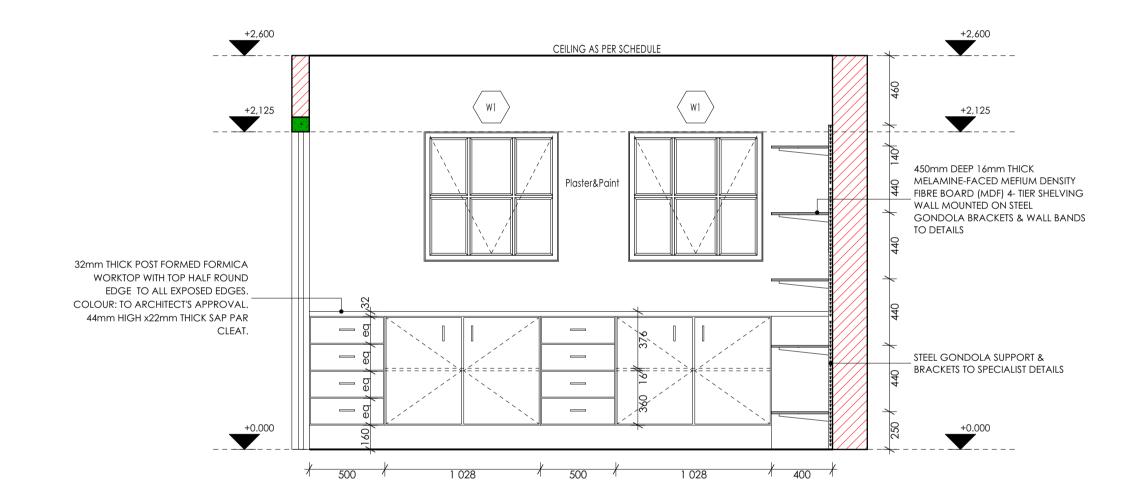
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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.

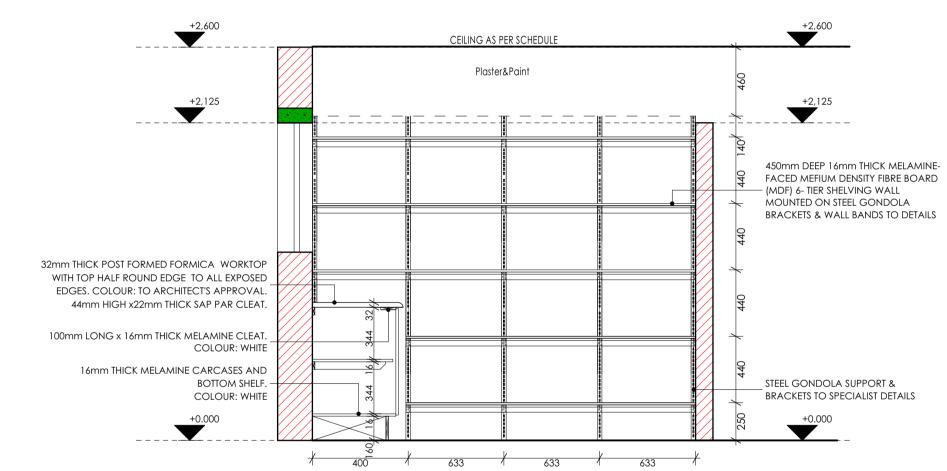


# **STORE PLAN:**

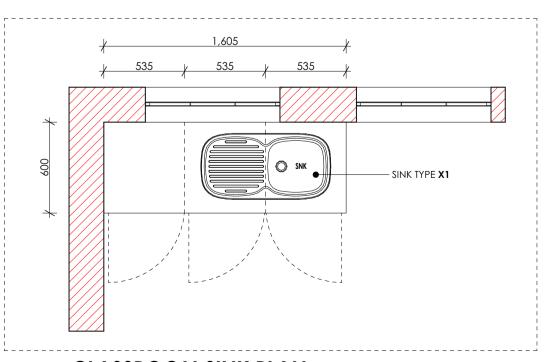
Scale 1:25.



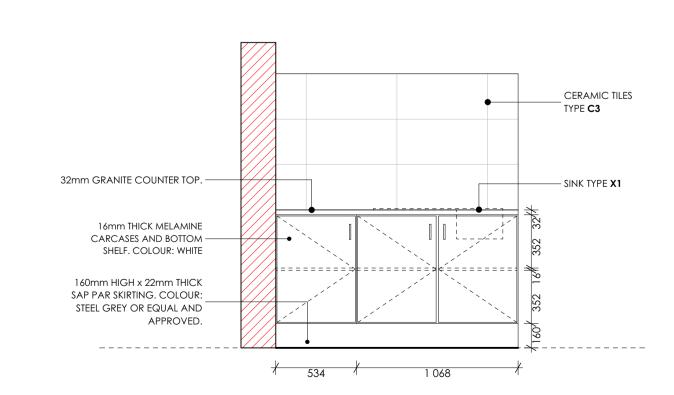




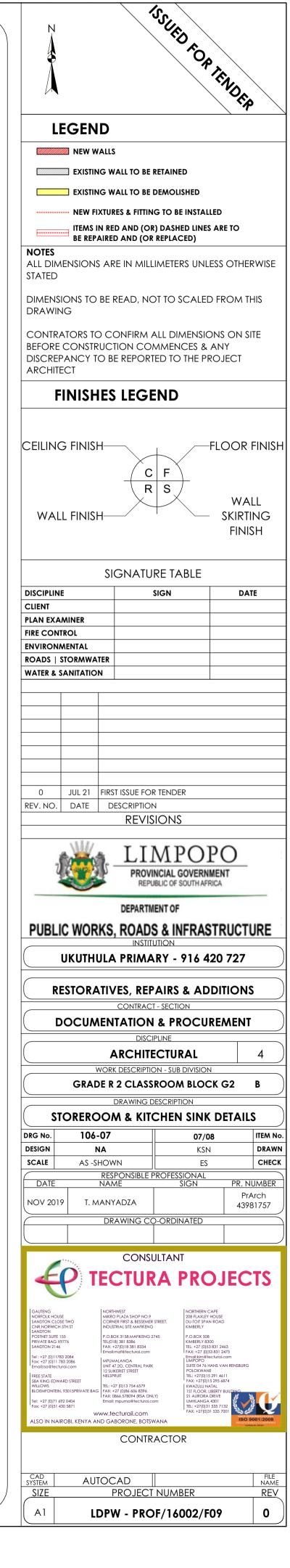
**ELEVATION 02:** Scale 1:25.



**CLASSROOM SINK PLAN:** Scale 1:25.



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



# **SANITARY SCHEDULE**

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

# 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

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

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

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.

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

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.

/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

# Z7: CERAMIC PARAPLEGIC WC (JUNIOR LOW LEVEL SUITE)

Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with 6 litre Cistern Installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

# **WASH-HAND BASIN**

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 Waterlech' 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**

/itreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with;2 No.chrome plated Elbow action pillar-tap, with ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

# **B3: WHITE GLAZED PORCELAIN WHB (VANITY)**

Ceramic fireclay size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged backnut (code KM2.102) metering tap, mounting kit and angle valves 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict

# **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 **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

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 elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall type, chrome plated swivel Outlet, adjustable and supplied with suitable assesories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

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-conceoled brackets supplied with all necessary accessories (all to be acid resistant)

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

K1: SS TOILET ROLL HOLDER- 2 ROLL andard 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

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

#### 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.

# 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

PLAN:

Scale 1:25.

#### 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.

# 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

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

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

# K12: TOWEL RAIL

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

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.

# 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

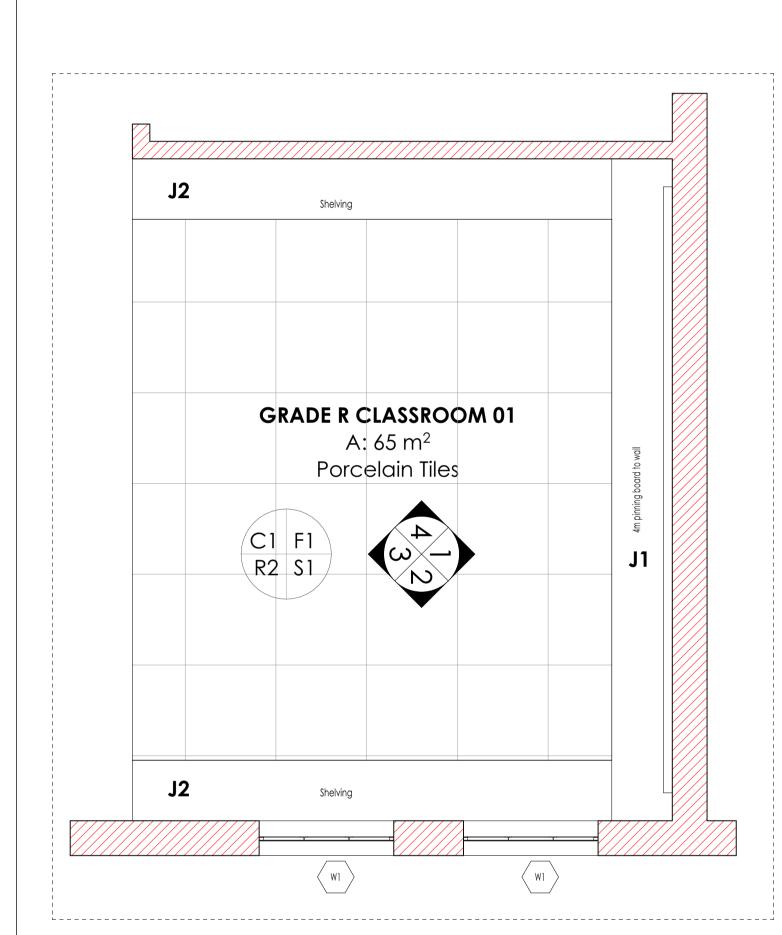
# Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

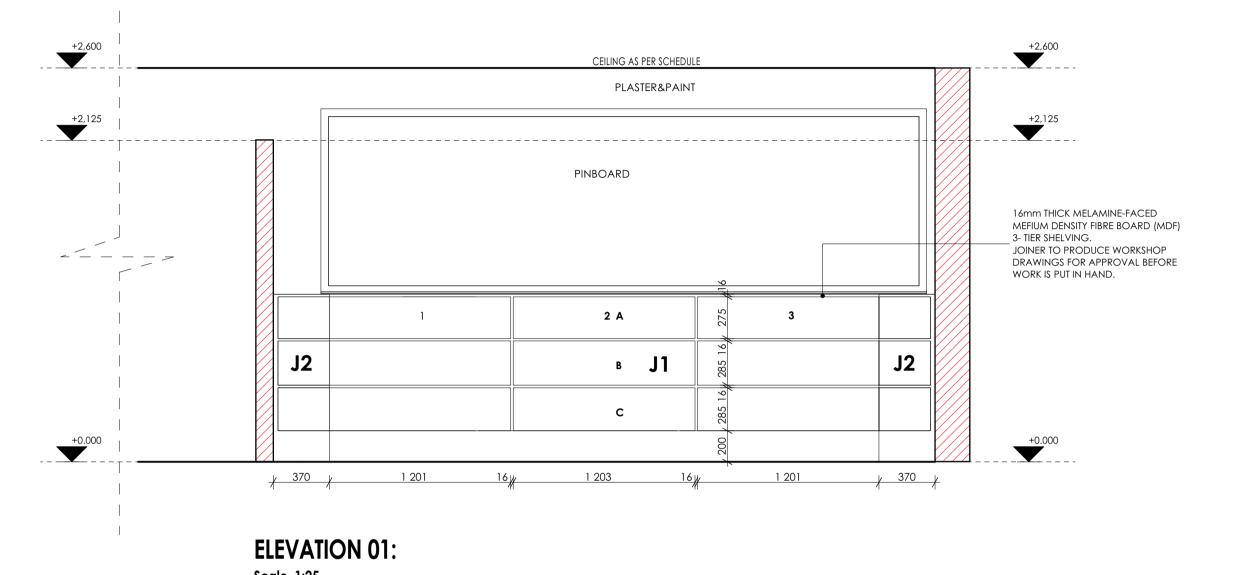
# **G7: SS FLOOR EXPANSION JOINT COVER**

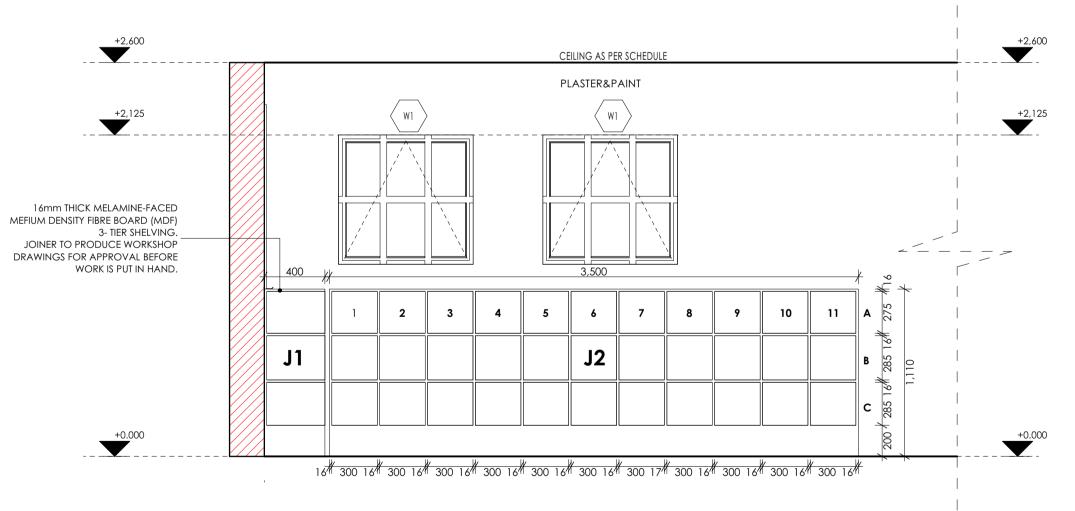
Co-extruded heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

# **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 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.

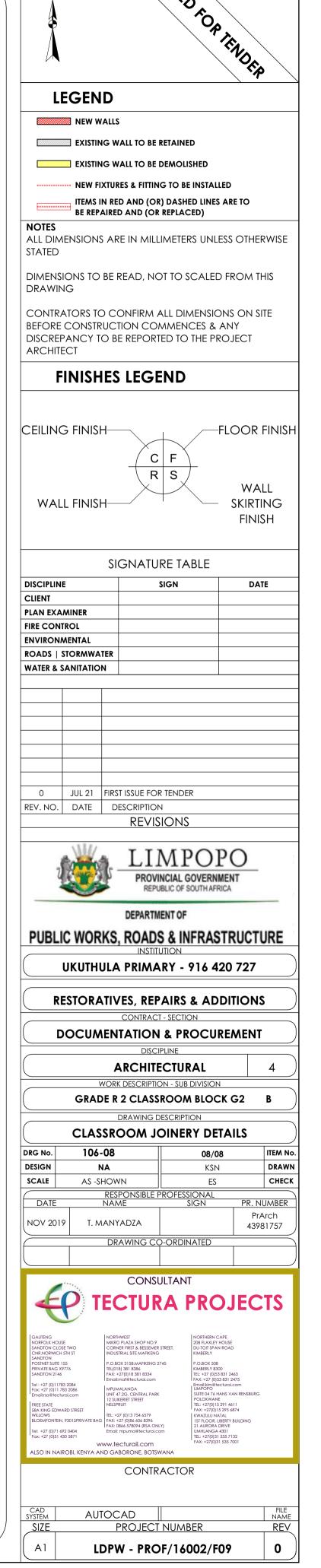






**ELEVATION 02:** 

Scale 1:25.



#### 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 ccreeds 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

## 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.

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

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

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

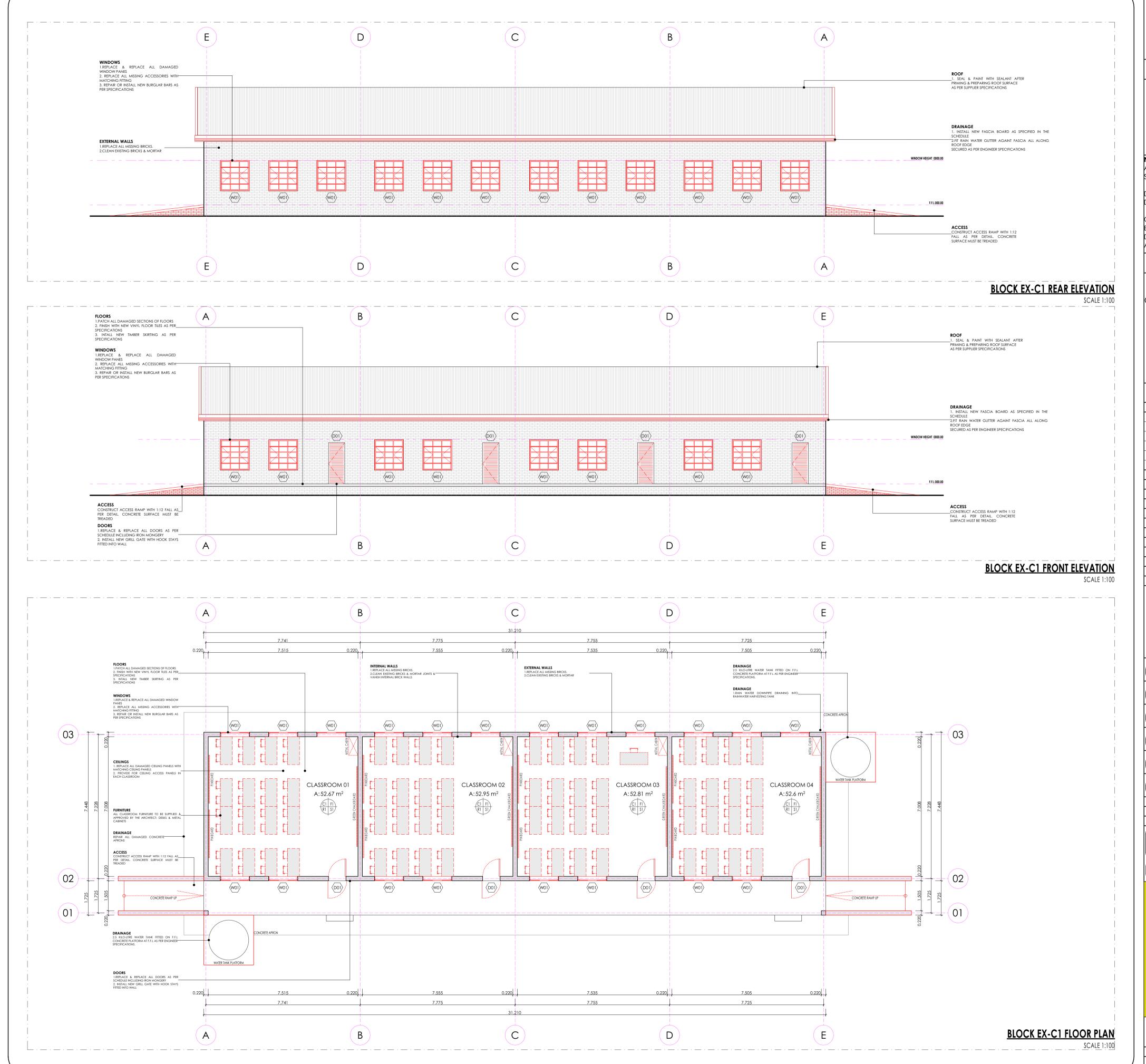
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

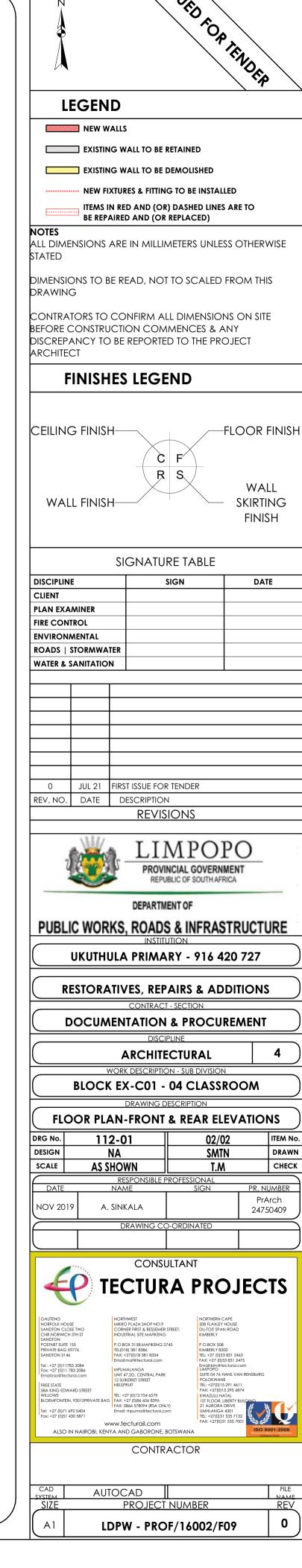
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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 7275 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.





## 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.

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 tes 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 fo

#### 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.

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 SAB\$ 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 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, SO 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 ato 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

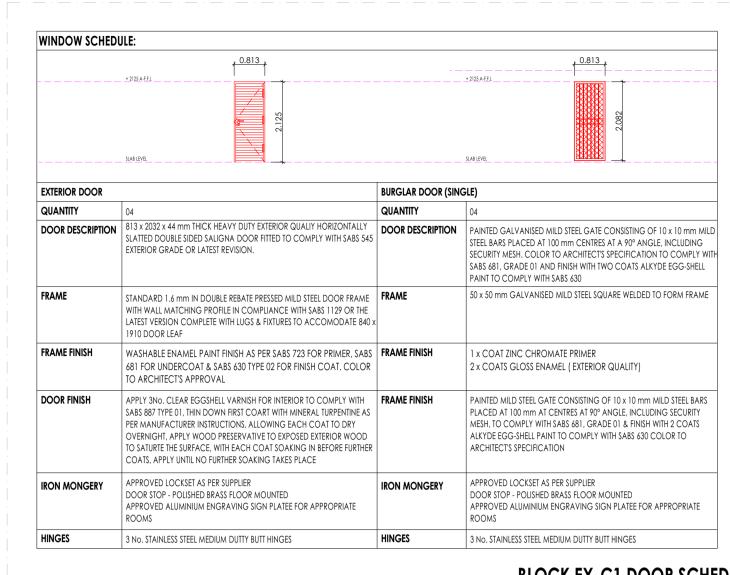
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 7275 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.



WINDOW HEIGHT 0000.00



STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG

WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH

MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS

STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME.

MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORS

PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319

BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO

COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD

ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S

6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680.

PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED

ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR &

IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING

PLUGGED & SCREWED/BUILT IN WALLING

WITH SARS MARK OF APPROVAL

MUST BE APPROVED BY THE ARCHITECT

WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL)

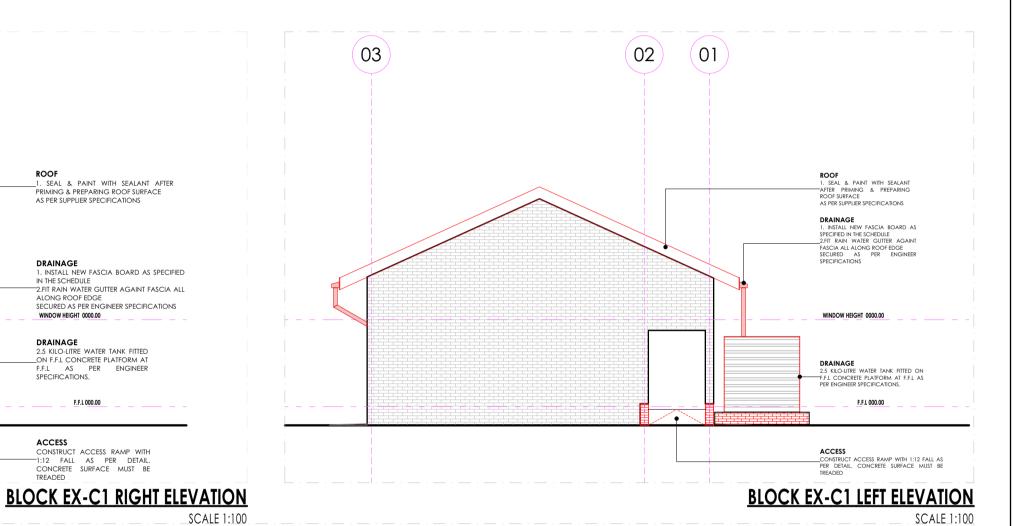
**DOOR SCHEDULE:** 

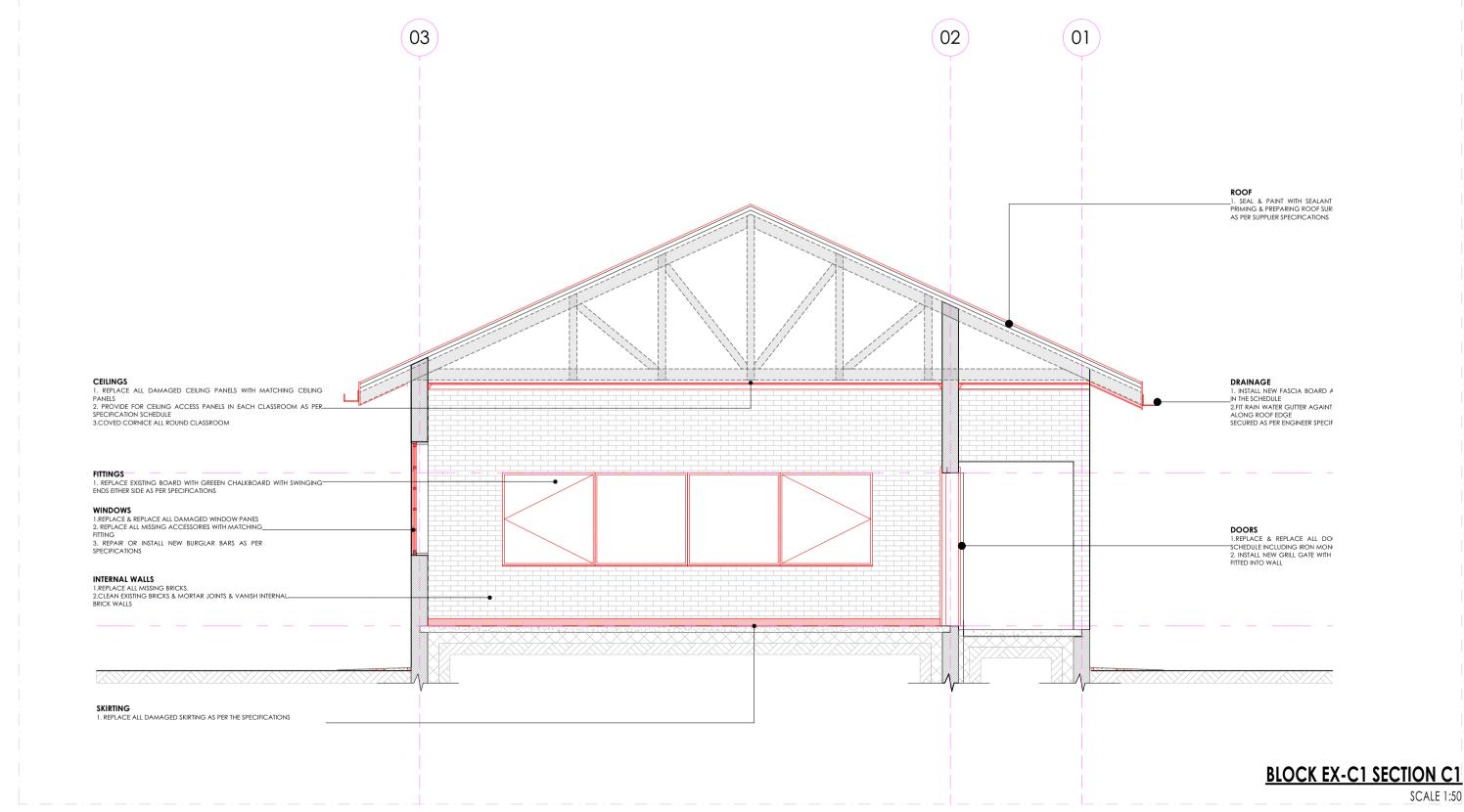
SLAB LEVEL

EXTERIOR DOOR

QUANTITY

DESCRIPTION





# **SANITARY SCHEDULE**

#### **WC'S URINALS & SHOWER** Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

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 "Ja Thermoset Plastic Seal". Fitted with Concealed Flushina 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

/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

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

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; 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 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 quality

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. This CERAMIC WALL HUNG JURINAL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

# • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

#### **WASH-HAND BASIN B1: WHB & MIXER TAP**

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 basin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

B2: DISABLED BASIN A 20mm 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 mn standing everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) nming 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 stri 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; 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. B5: H/DUTY BASIN & INC. TAP (FOR LABS) Evaluation to comply with SABS 497 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' **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 32m

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.

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhe 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 assesories 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 (cupboc elsewhere measured), Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer- wall tape, with chrome plated overar 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 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, 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. 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 ba 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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

**K2: GLASS MIRROR** 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 headed mirror screws

K3: SS WASTE BIN 328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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 pe 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 screw and plastic wall plugs. Installed as per manufacturer's instructions

# 350mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories are installed in accordance to manufacturer's specification:

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.

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 Complet-K11: HAND DRYER (Hands free)

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

K13: SHOWER CURTAIN RAIL (straight)

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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**

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.

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 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 surrou mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

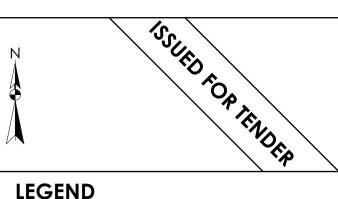
G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon 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 wit 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



# WWW NEW WALLS EXISTING WALL TO BE RETAINED

# EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

BE REPAIRED AND (OR REPLACED)

all dimensions are in millimeters unless otherwise

ITEMS IN RED AND (OR) DASHED LINES ARE TO

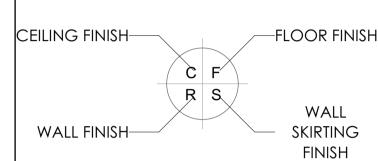
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY

# FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

ARCHITECT



		SI	GNATURE TABLE	
DISCIPLINE	E		SIGN	DATE
CLIENT PLAN EXAMINER				
FIRE CONTROL				
ENVIRONA	MENTAL			
ROADS   S	STORMWAT	ER		
WATER & S	ANITATION	ı		
0	JUL 21	FIRS	ST ISSUE FOR TENDER	
REV. NO.	DATE	D	ESCRIPTION	
			revisions	
V.		ľ	PROVINCIAL GOVERN REPUBLIC OF SOUTH AFF	MENT
			DEPARTMENT OF	



UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** WORK DESCRIPTION - SUB DIVISION

# **BLOCK EX-C01 - 04 CLASSROOM** SECTION C1, SIDE ELEVATIONS & SCHEDULES

DRG No.	112-02	02/02		ITEM N	
DESIGN	NA	SMTN		DRAW	
SCALE	AS SHOWN	T.M		CHEC	
	RESPONSIBLE PROFESSIONAL				
DATE	NAME	SIGN	PR. NI	JMBER	
NOV 20	19 A. SINKALA			krch 50409	
	DRAWING CO	D-ORDINATED			





www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

# 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

## 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.

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 \$" 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:

Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

# 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.

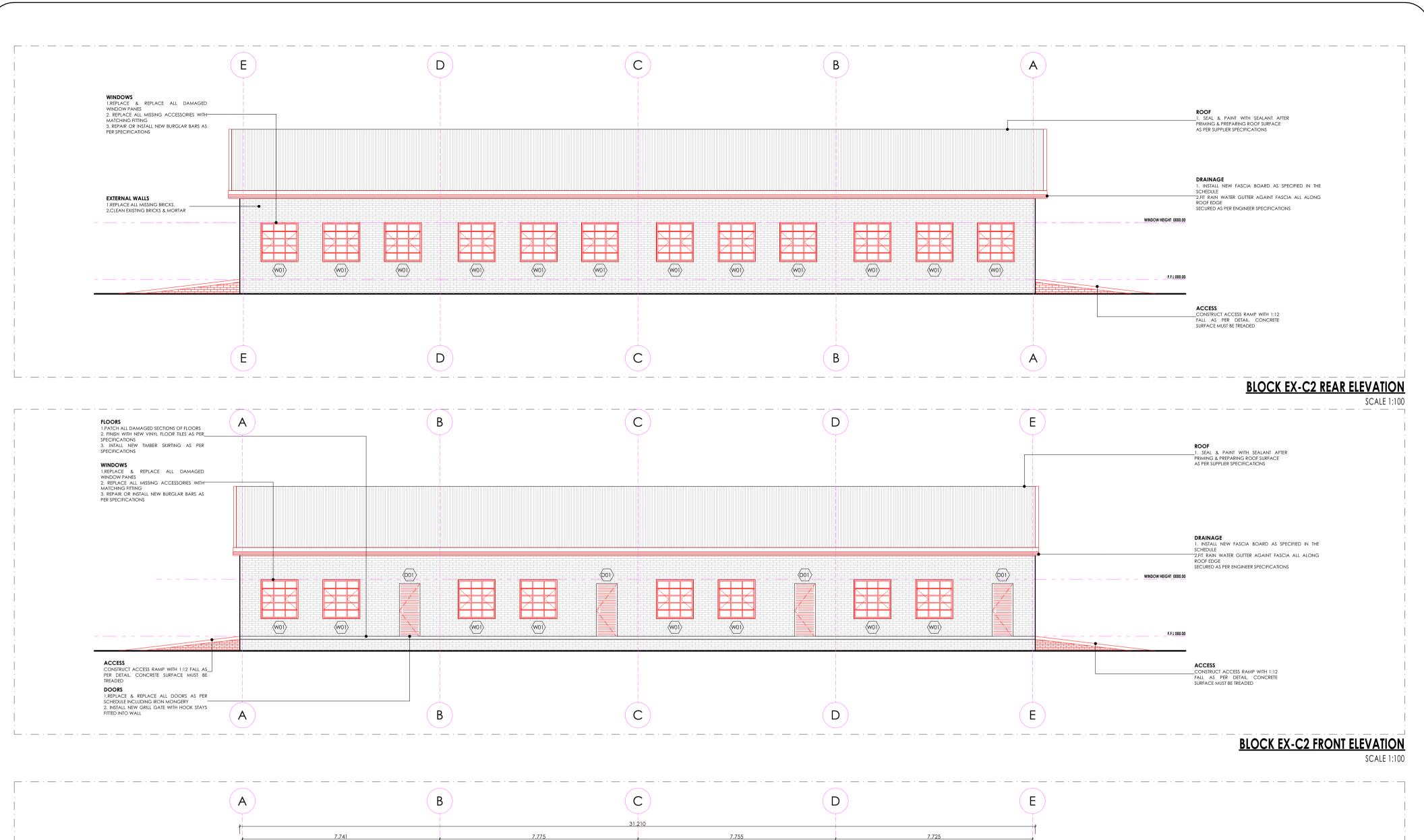
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To

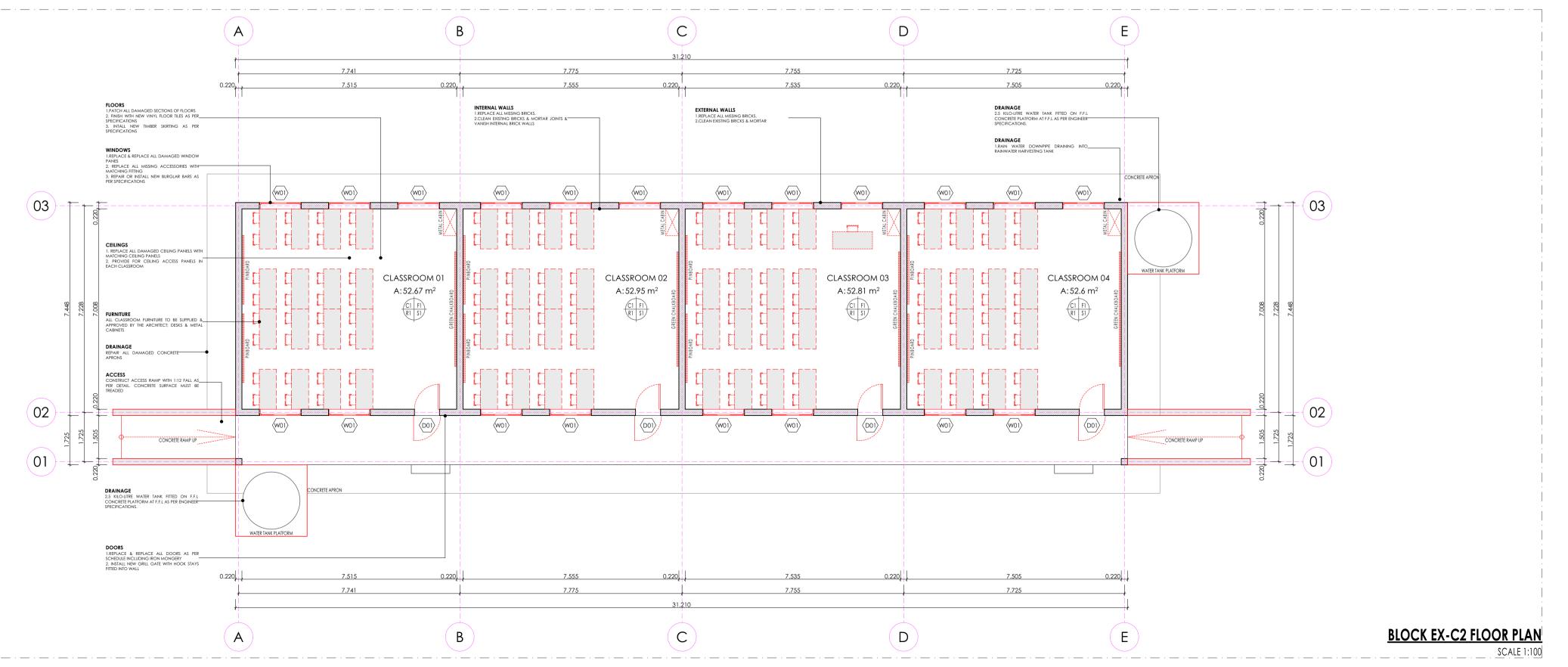
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

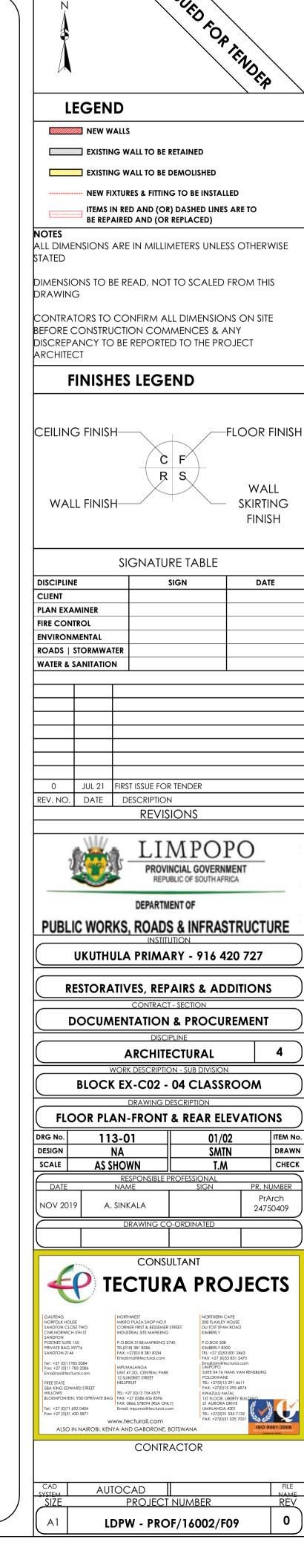
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or

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.







## 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 tes 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

#### 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.

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 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, SO 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 ato 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

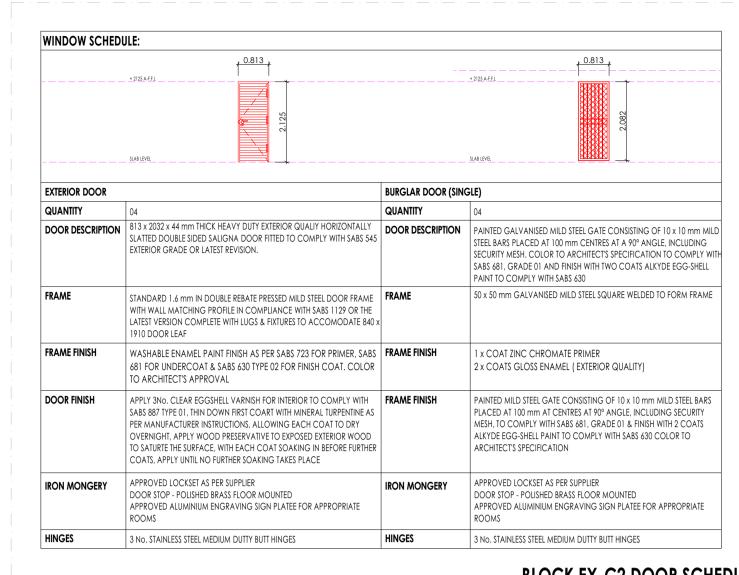
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 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.

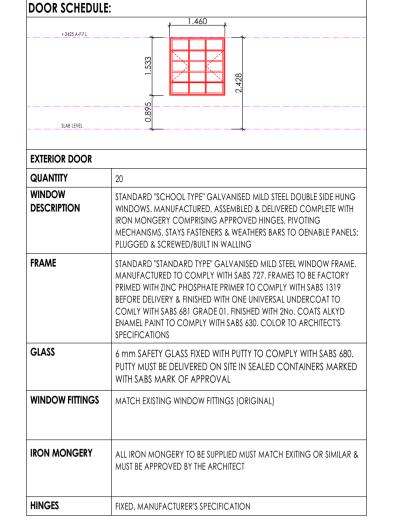


NSTALL NEW FASCIA BOARD AS SPECIFIED

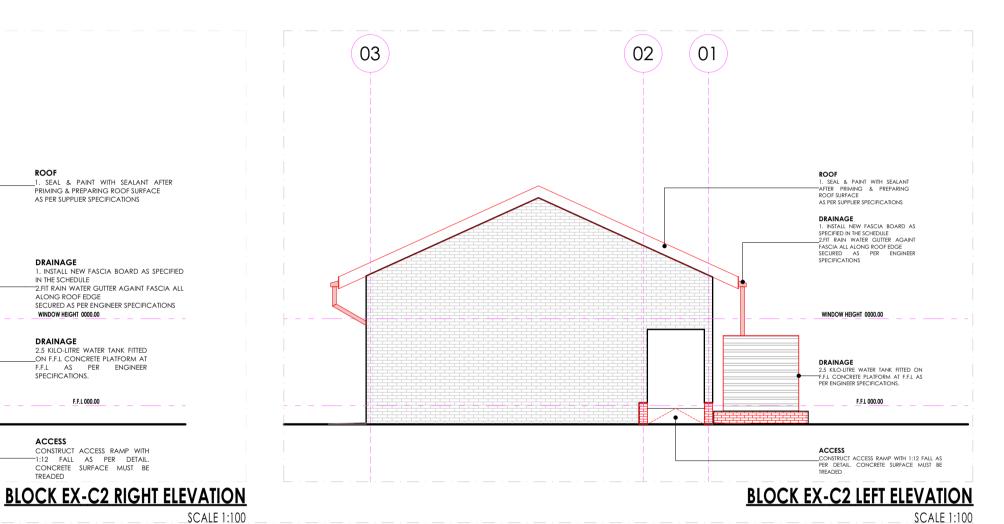
PAIN WATER GUTTER AGAINT FASCIA ALL

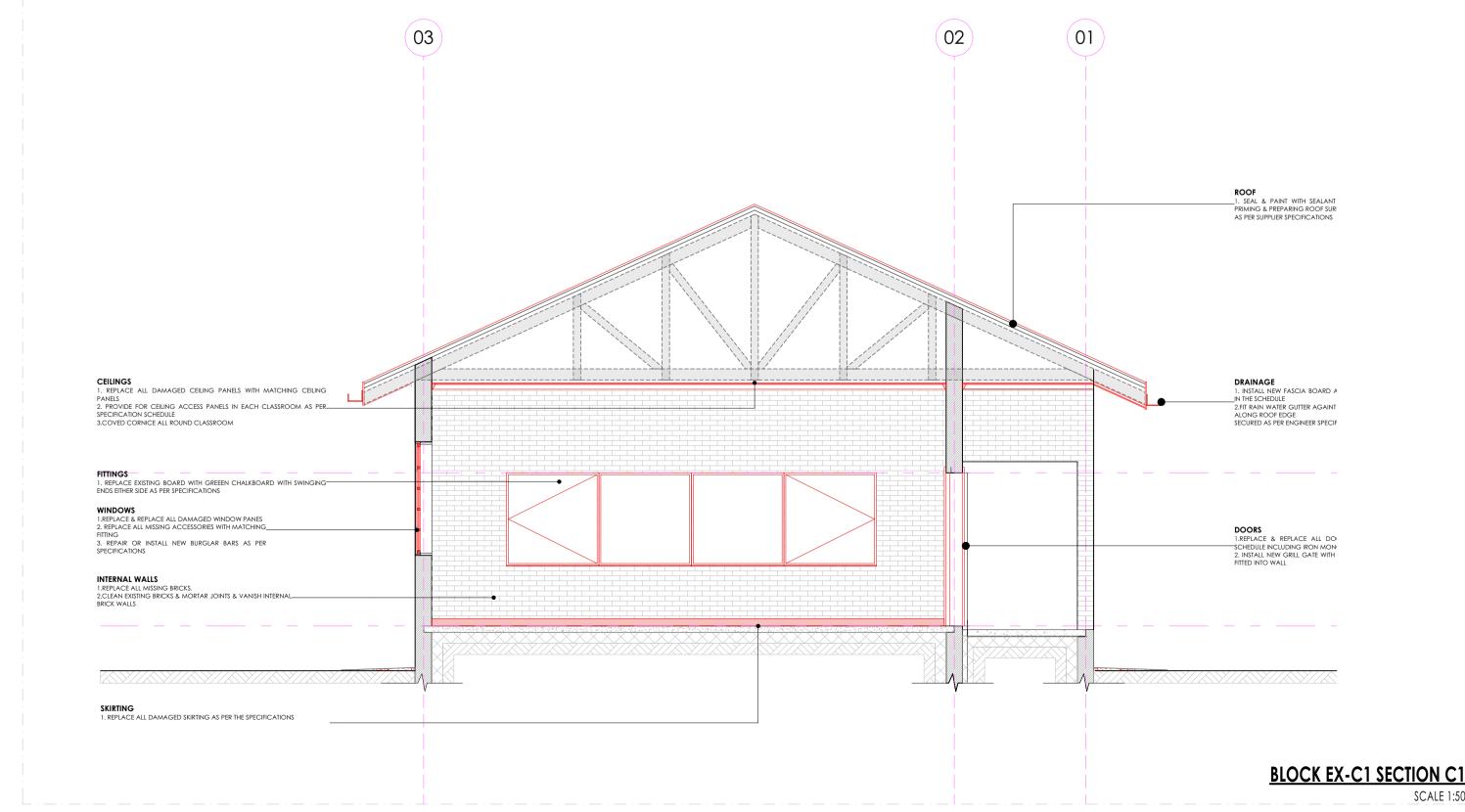
WINDOW HEIGHT 0000.00

2.5 KILO-LITRE WATER TANK FITTE



# **BLOCK EX-C2 WINDOW SCHEDULE**





# **SANITARY SCHEDULE**

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

**Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN** Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ja Thermoset Plastic Seal". Fitted with Concealed Flushina 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

/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

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; 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 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 quality

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. This CERAMIC WALL HUNG JURINAL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

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

B2: DISABLED BASIN A 20mm 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 mn standing everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) mic firector 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 stri 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; 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 & INC. TAP (FOR LABS)

Evaluation to comply with SABS 497 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

#### 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.

**B6: MEDIC BASIN & FITTINGS (SICK BAY)** 

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, adjustab and supplied with suitable assesories 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 (cupboar 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 brackets supplied with all necessary accessories (all to be acid resistant

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. 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

# 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.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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 pe

#### 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 screw

and plastic wall plugs. Installed as per manufacturer's instructions

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 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. 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

K11: HAND DRYER (Hands free)

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

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**

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.

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 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

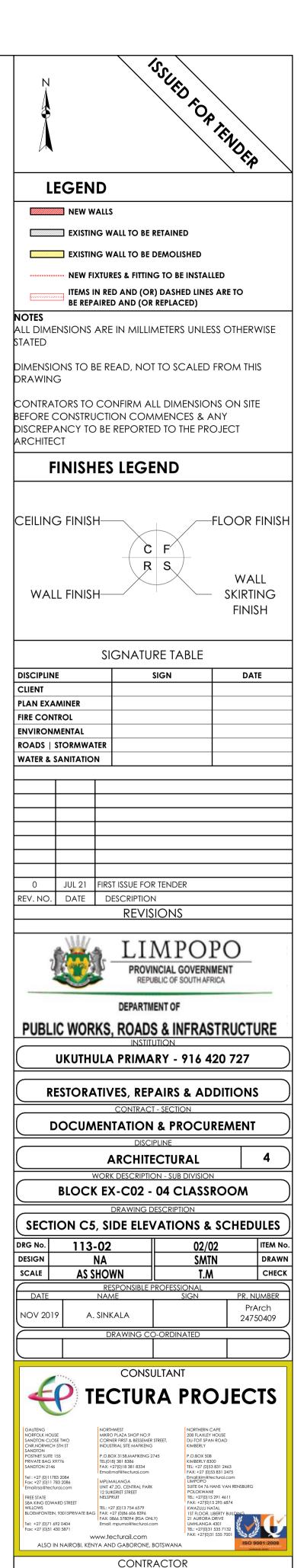
G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon 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 Util chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM1797/2), supplied complete wit ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly accordance with the manufacturer's instructions



AUTOCAD

PROJECT NUMBER

LDPW - PROF/16002/F09

# FINISHES LEGEND 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 and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

creeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test

#### 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

#### 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.

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 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

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.

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

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

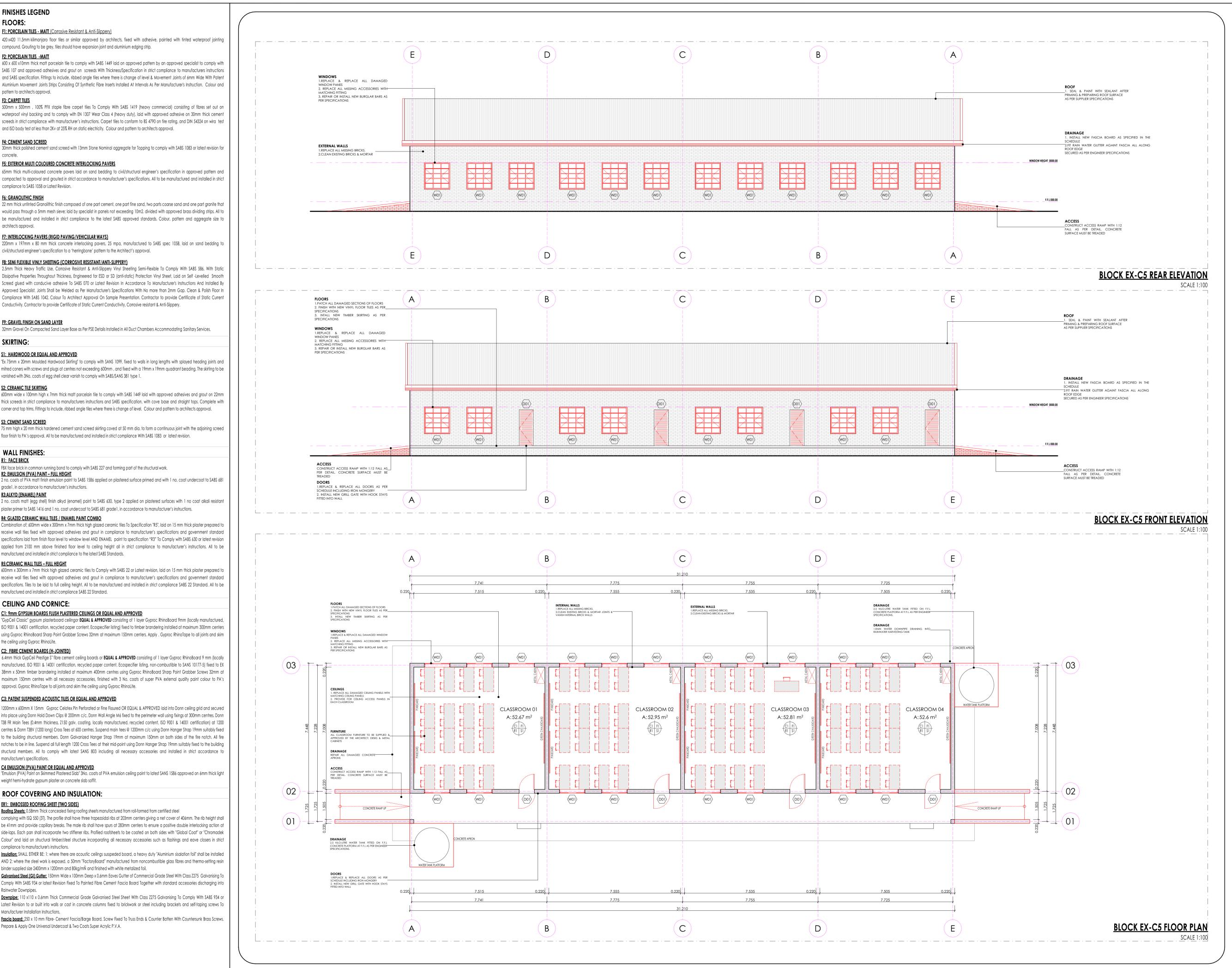
# ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

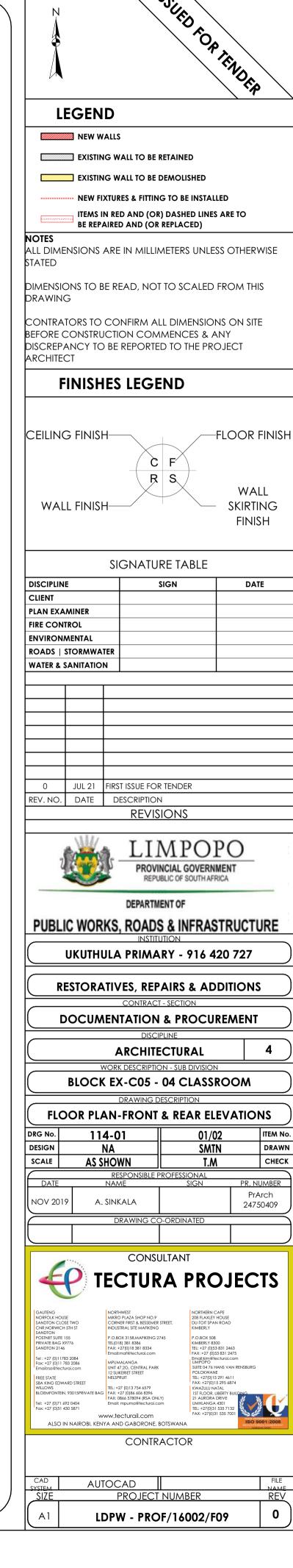
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

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 7275 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.





## 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 tes 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

## 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.

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 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, SO 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 ato 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

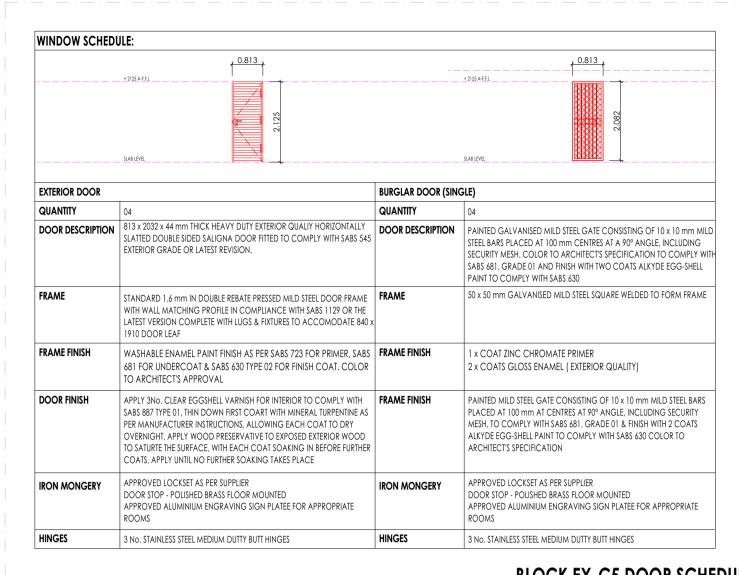
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

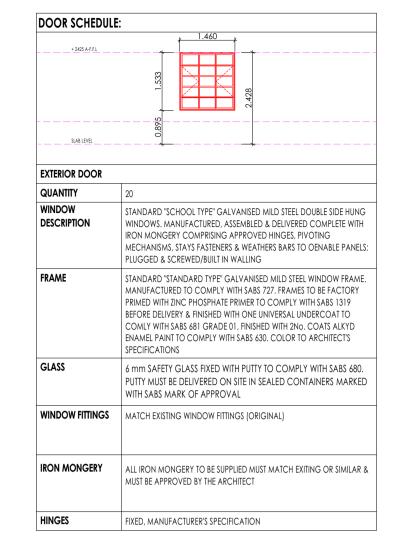
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

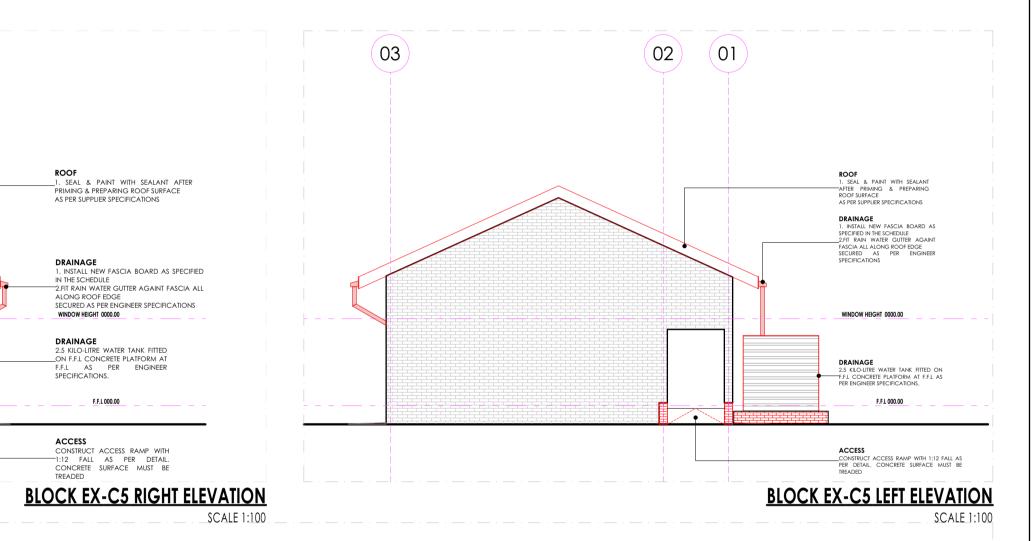
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

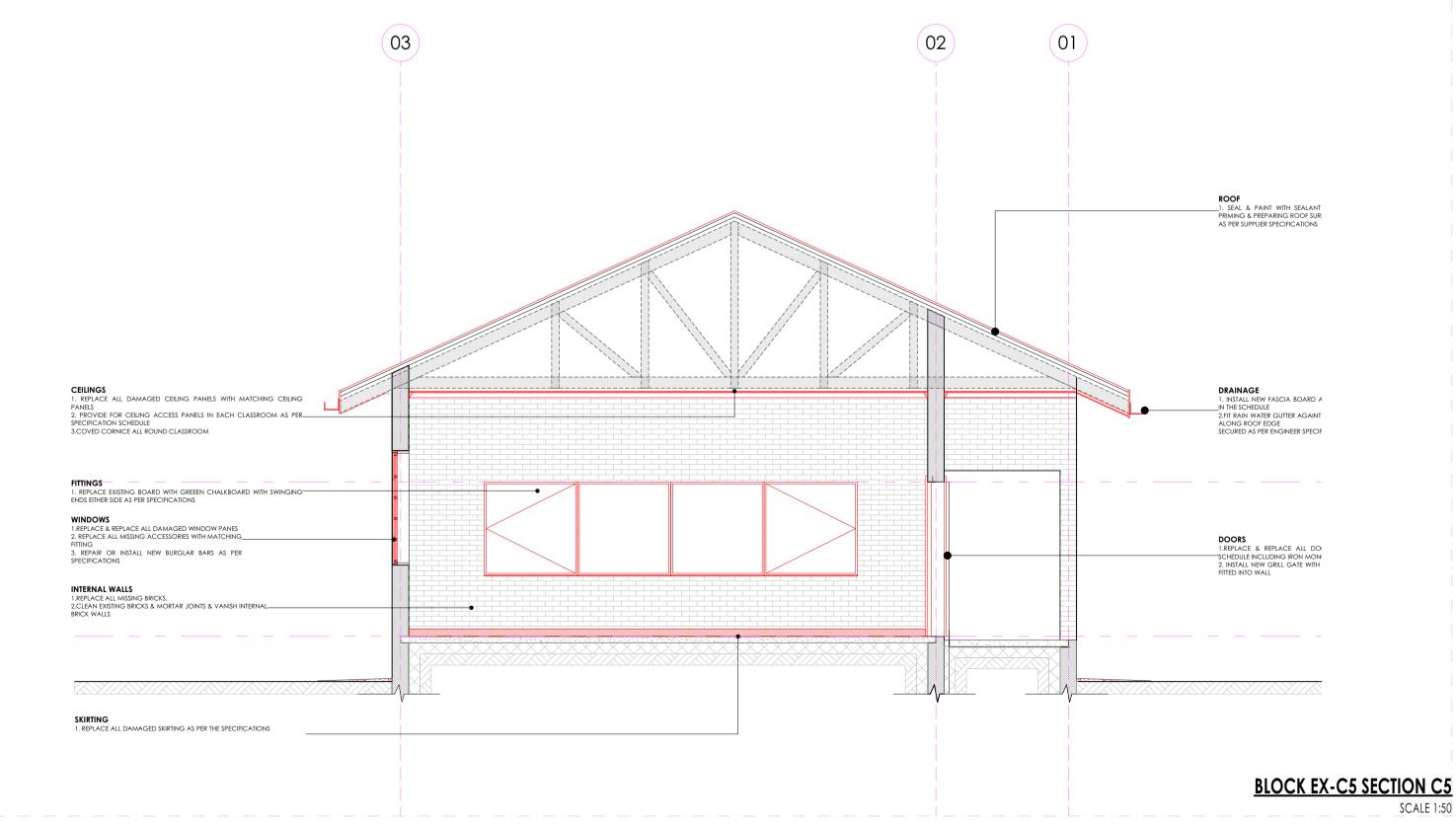
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.





# **BLOCK EX-C5 WINDOW SCHEDULE**





# **SANITARY SCHEDULE**

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

**Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN** Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ja Thermoset Plastic Seal". Fitted with Concealed Flushina 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

/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

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

Vitreous china 900 outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with \$AB\$ 497 & Fitted with "Ja; 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 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 quality

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. This CERAMIC WALL HUNG JURINAL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

#### Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

#### **WASH-HAND BASIN**

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

B2: DISABLED BASIN A 20mm 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 mn standing everflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) mic firector 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 stri 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; 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 & INC. TAP (FOR LABS)

Evaluation to comply with SABS 497 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

#### 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.

**B6: MEDIC BASIN & FITTINGS (SICK BAY)** 

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, adjustab and supplied with suitable assesories 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 (cupboar 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 brackets supplied with all necessary accessories (all to be acid resistant

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.

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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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 pe

#### 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 screw

and plastic wall plugs. Installed as per manufacturer's instructions

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

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

K11: HAND DRYER (Hands free)

manufacturer's specifications.

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

# 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**

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.

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



PROJECT NUMBER

LDPW - PROF/16002/F09

# 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

# 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.

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.

## 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 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)

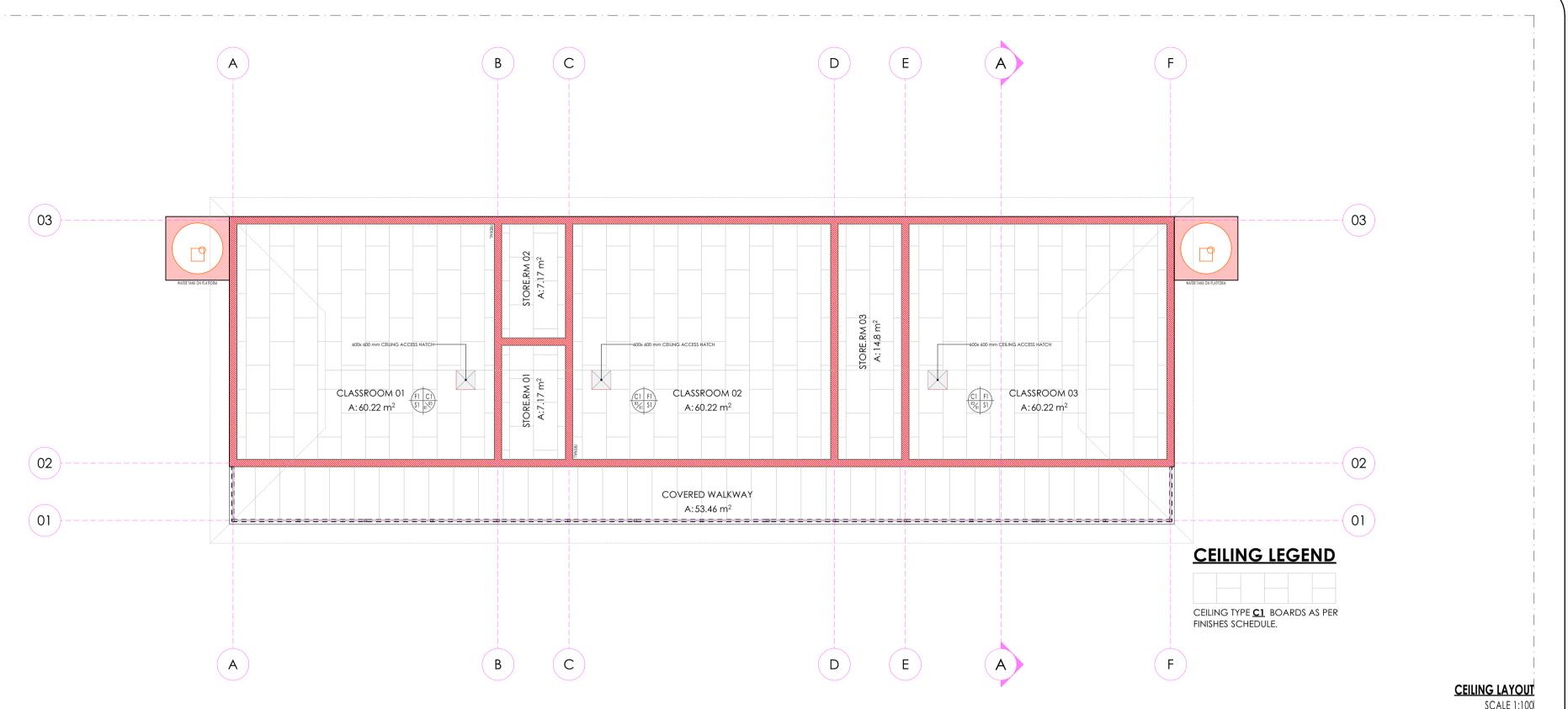
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

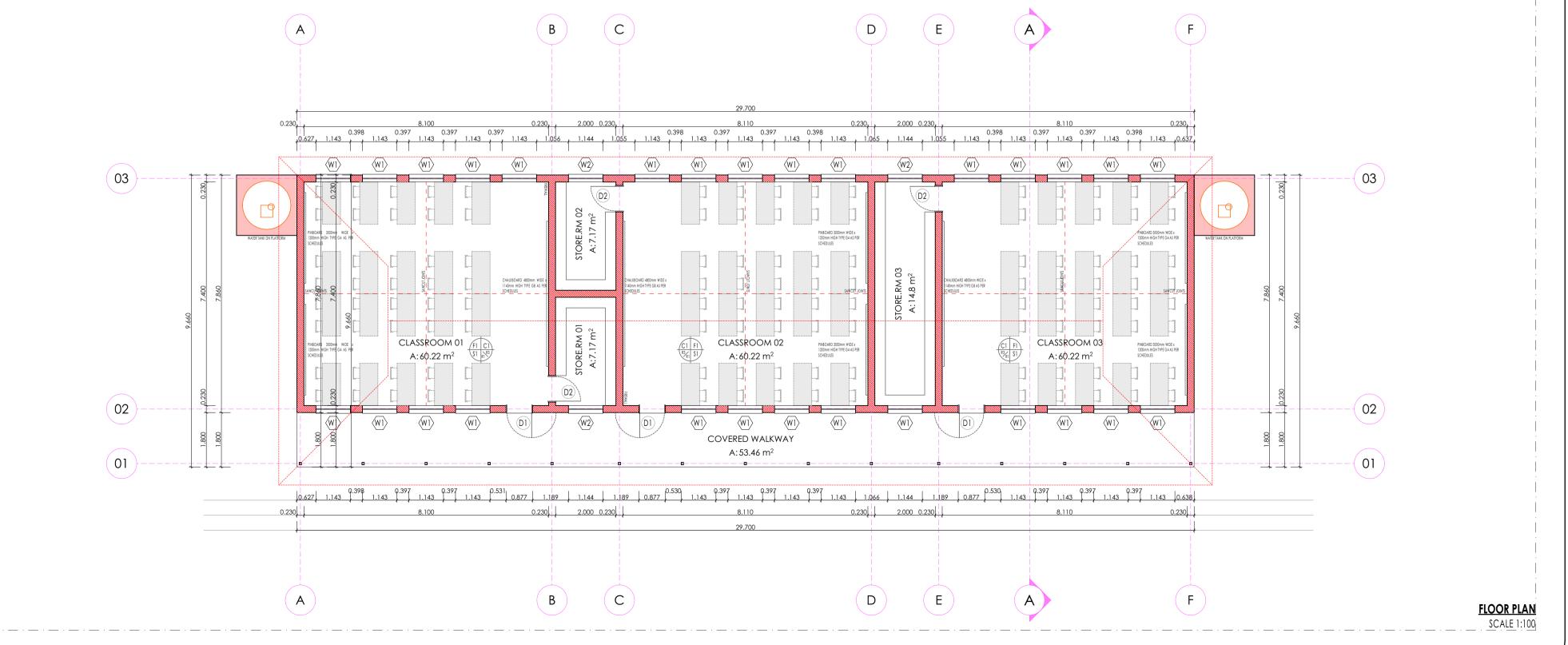
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

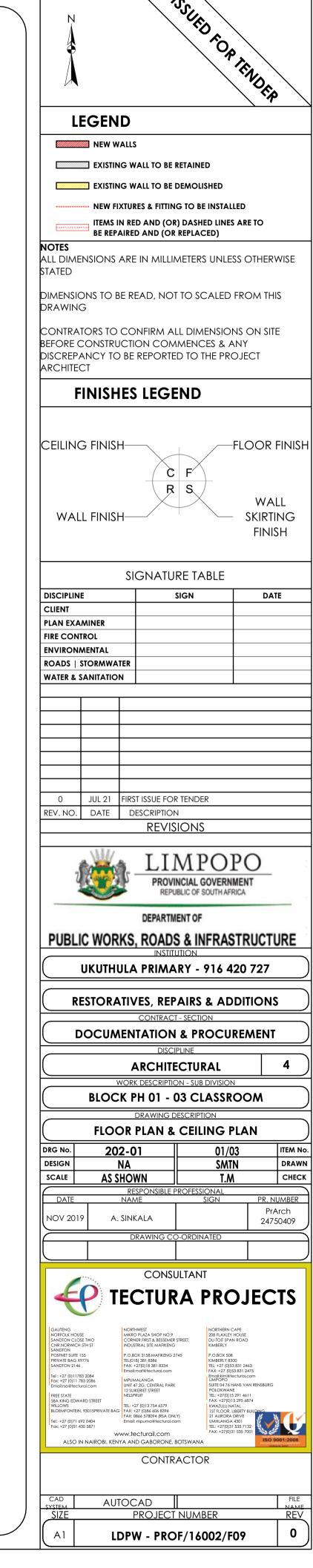
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and  $80 kg/m\tilde{N}$  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.







# FINISHES LEGEND 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. 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 ccreeds 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. 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for 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. 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

# 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

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.

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

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:**

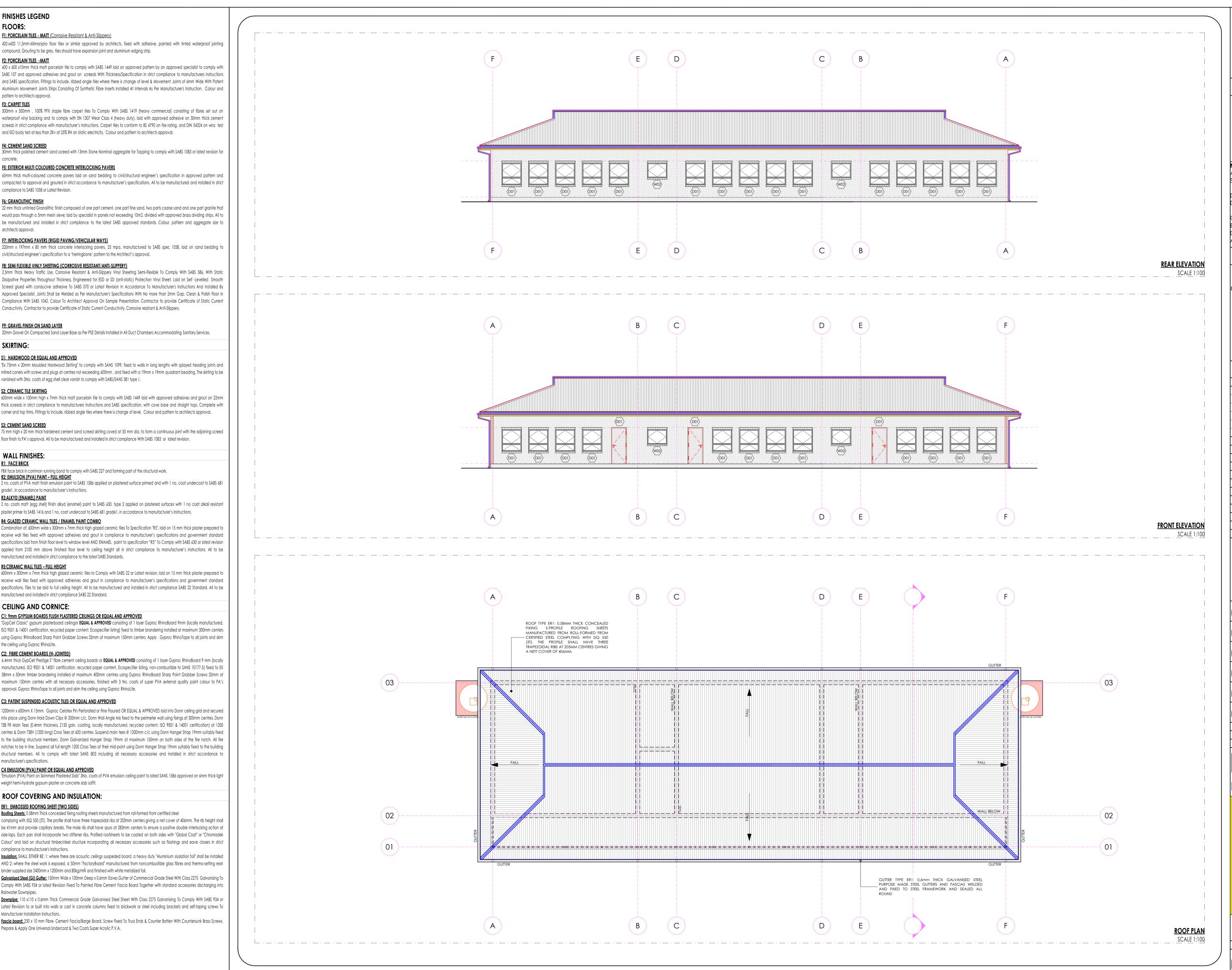
# ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

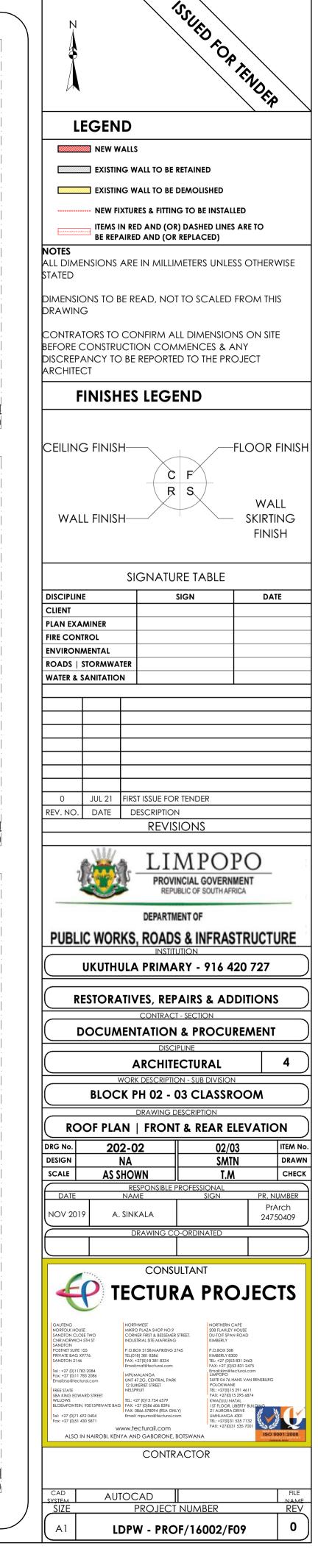
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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

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 7275 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





## 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.

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

## 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.

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 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, SO 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 ato 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 omplying 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

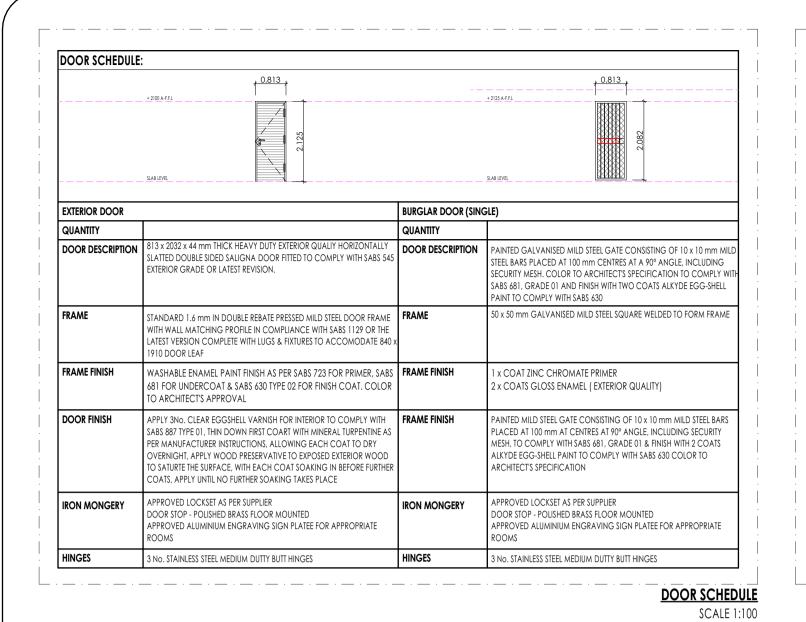
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

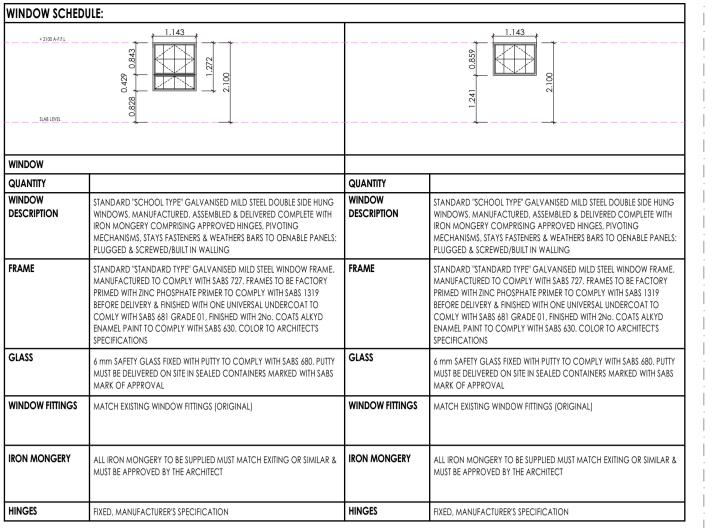
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 7275 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.

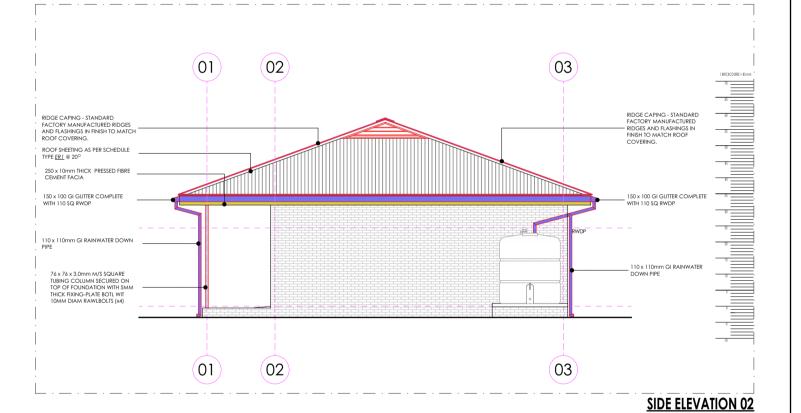


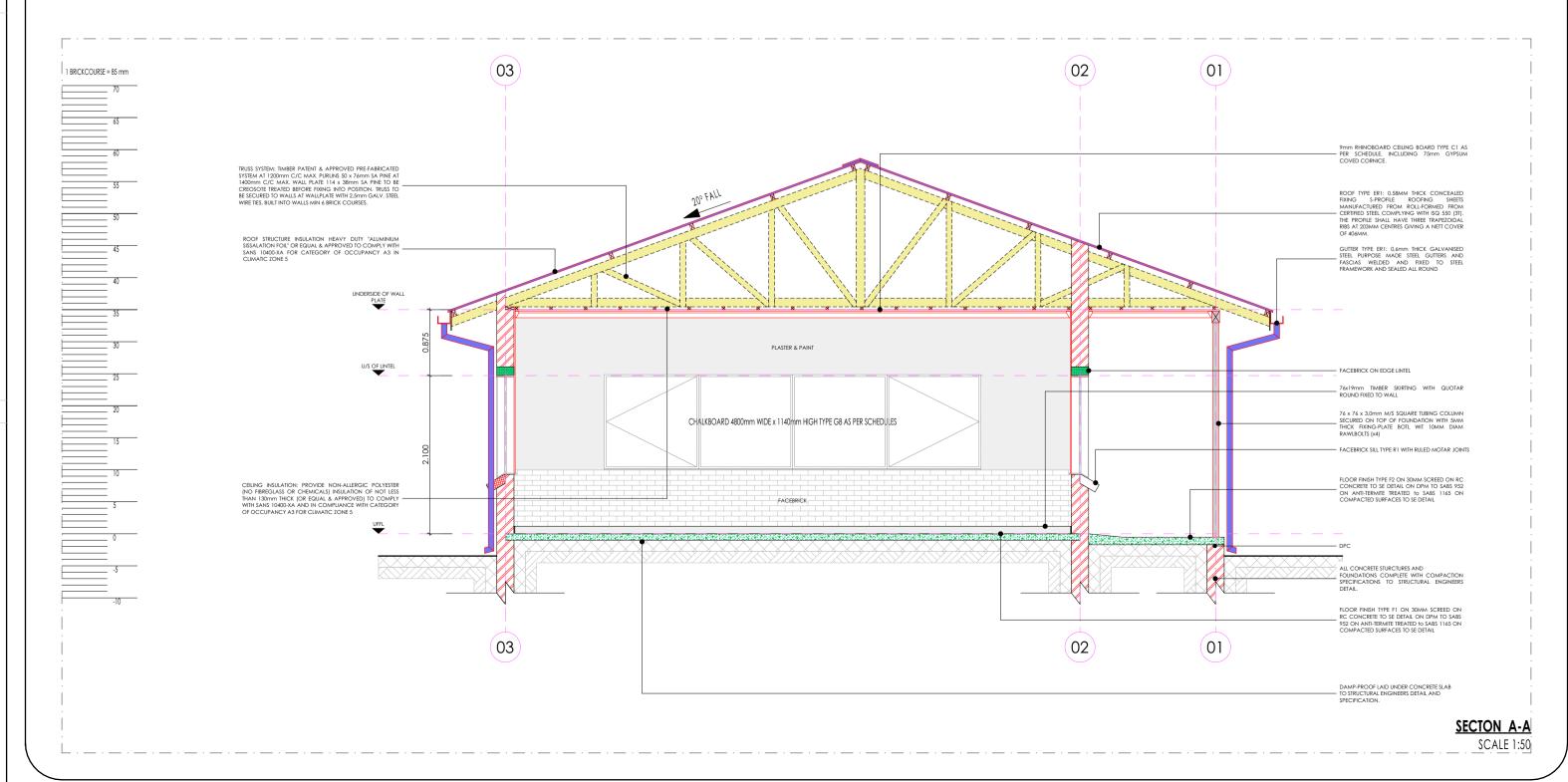


WINDOW SCHEDULE

SCALE 1:100

# (01) SIDE ELEVATION 0





# **SANITARY SCHEDULE**

#### **WC'S URINALS & SHOWER Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN**

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id 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

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

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 "Ja; 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 parapleaic 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 quality

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. TAIL 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

# **WASH-HAND BASIN**

accordance to manufacture's specifications.

**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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) imic 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

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; 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)
Evaluation for 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

# **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.

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

Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboar 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 brackets supplied with all necessary accessories (all to be acid resistant

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 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 fooi

# 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 Satii finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

64 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

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.

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.

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 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 specification:

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

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.

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 K11: HAND DRYER (Hands free)

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

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**

K5: SOAP HOLDER

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 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 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

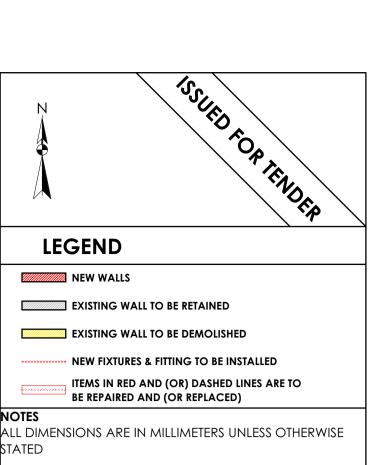
mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

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 in accordance with the manufacturer's instructions



DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

FINISHES LEGEND

# -FLOOR FINISH CEILING FINISH-WALL FINISH SKIRTING

FINISH

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PUBLIC WORKS, ROADS & INFRASTRUCTURE

UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

**DOCUMENTATION & PROCUREMENT** 

**ARCHITECTURAL** BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES **SMTN** NΔ CHECK AS SHOWN T.M

NOV 2019 A. SINKALA 24750409 **CONSULTANT** 



ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA CONTRACTOR

AUTOCAD PROJECT NUMBER

LDPW - PROF/16002/F09

## 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.

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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.

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.

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

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)

compliance to manufacturer's instructions.

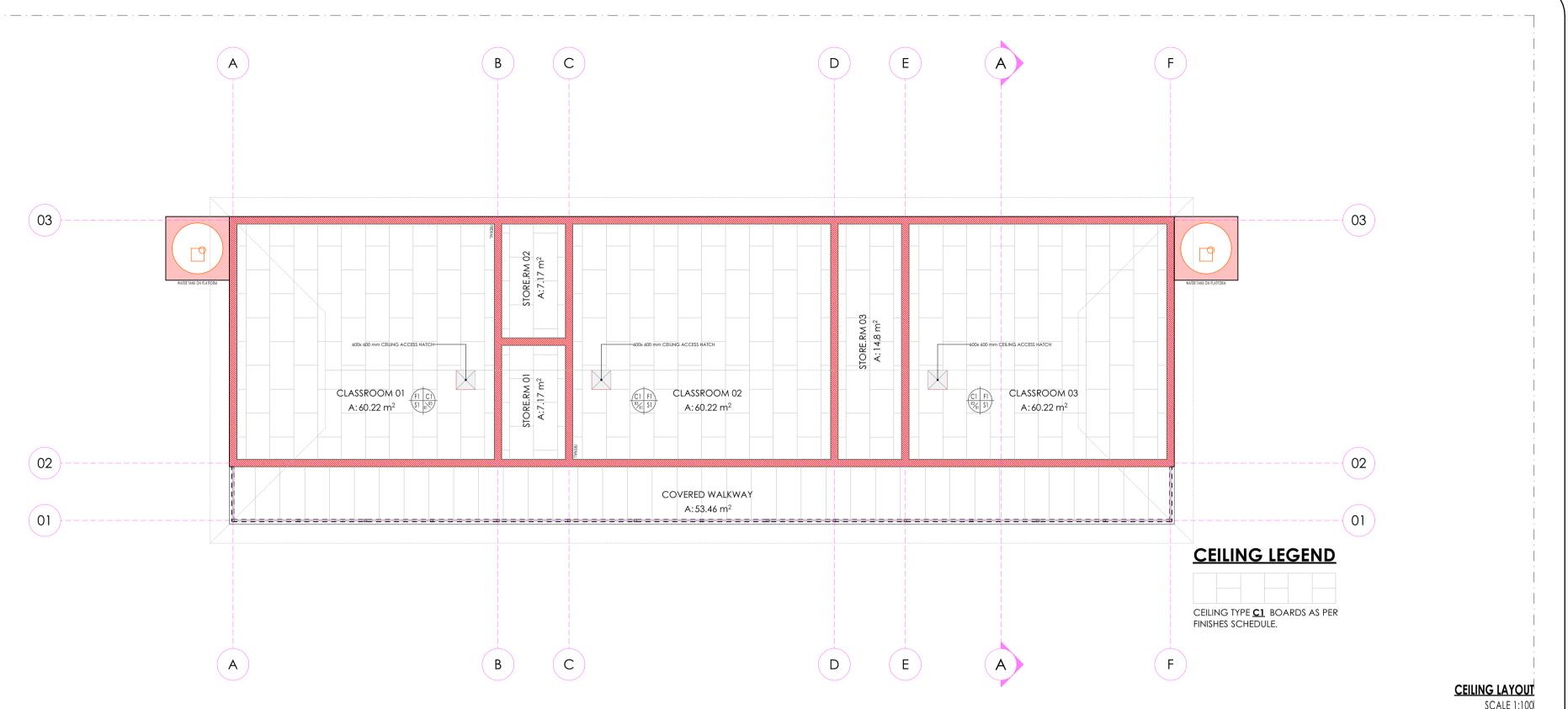
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

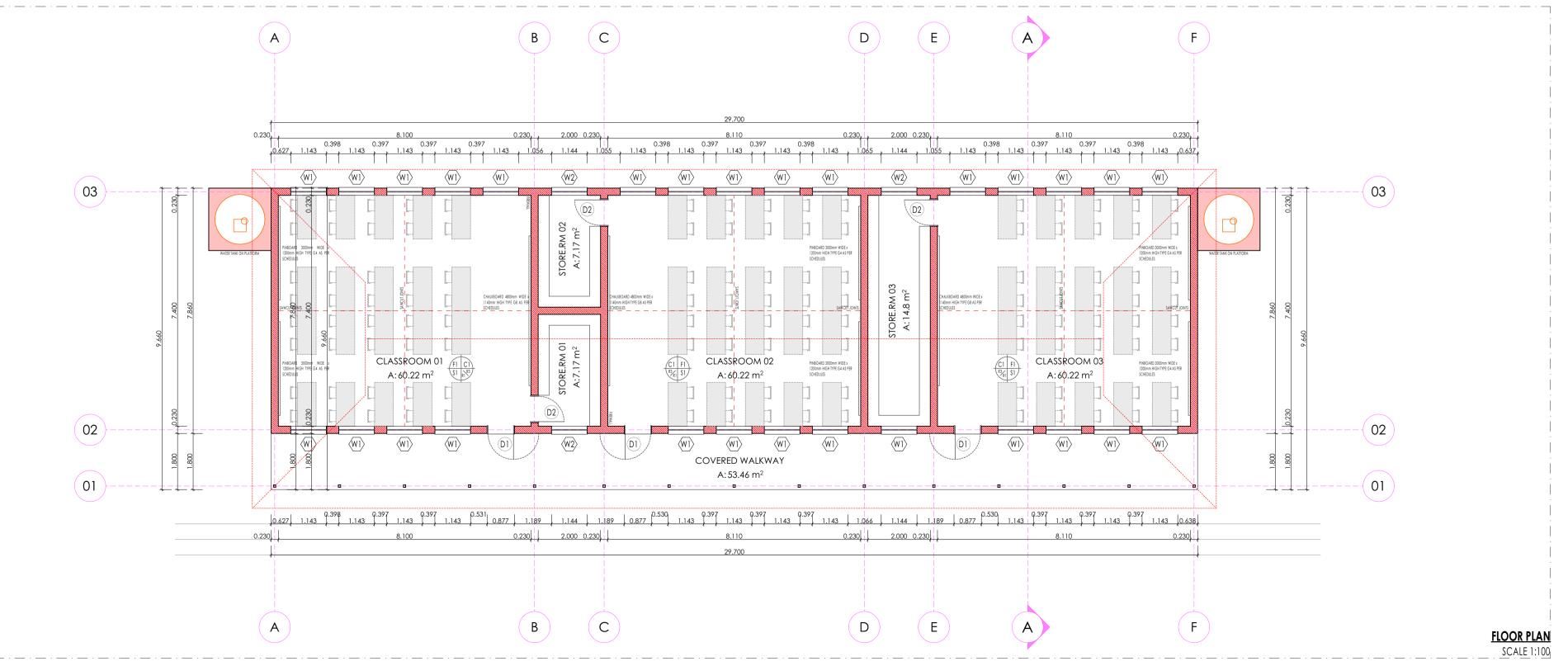
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

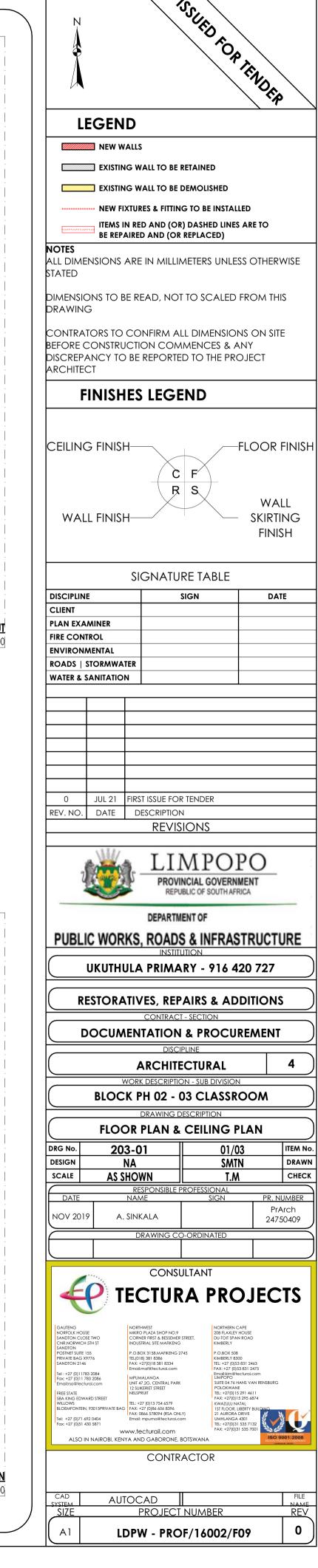
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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







# FINISHES LEGEND 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. 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. 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for 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. 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 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 manufactured and installed in strict compliance to the latest SABS Standards.

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

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

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

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

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:**

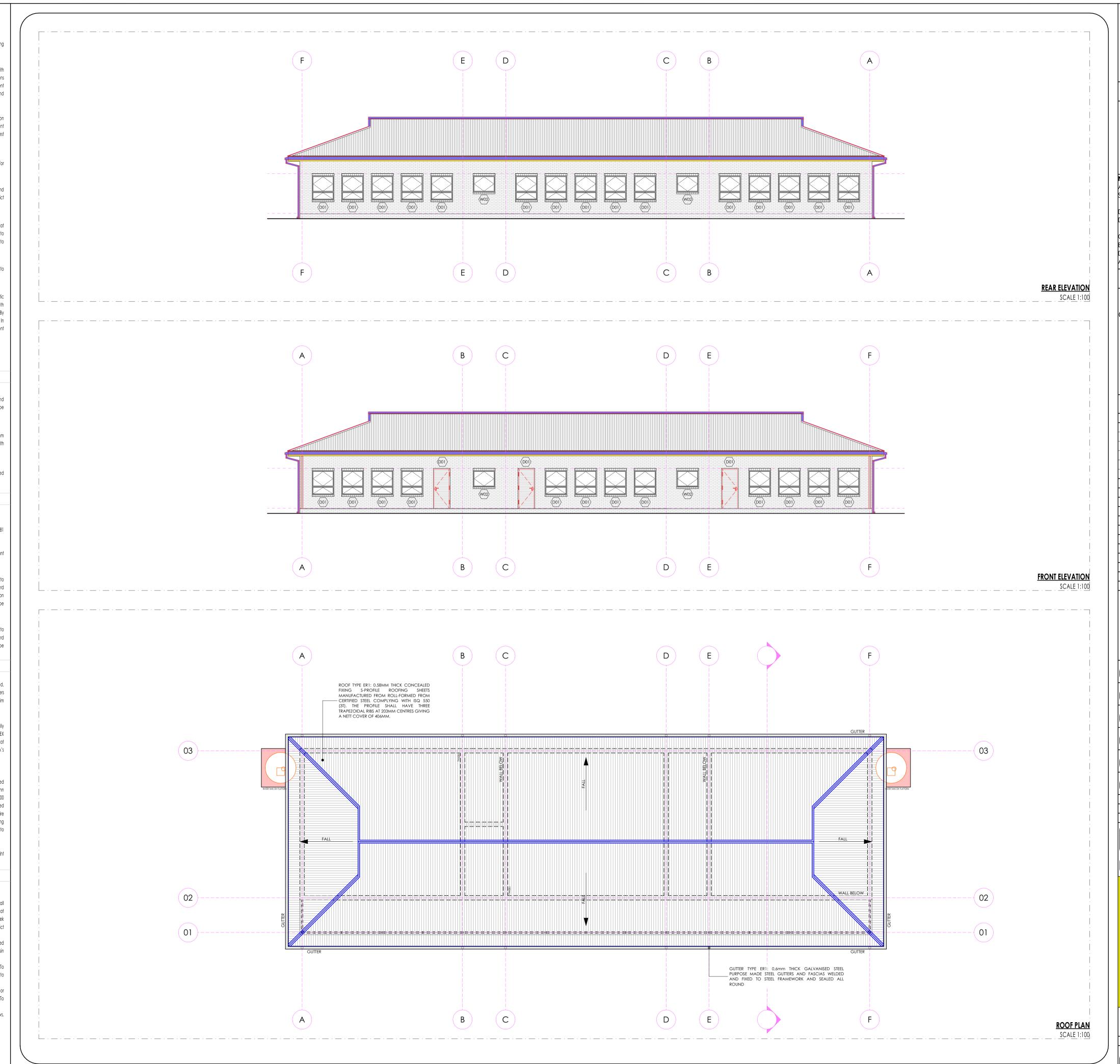
# ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

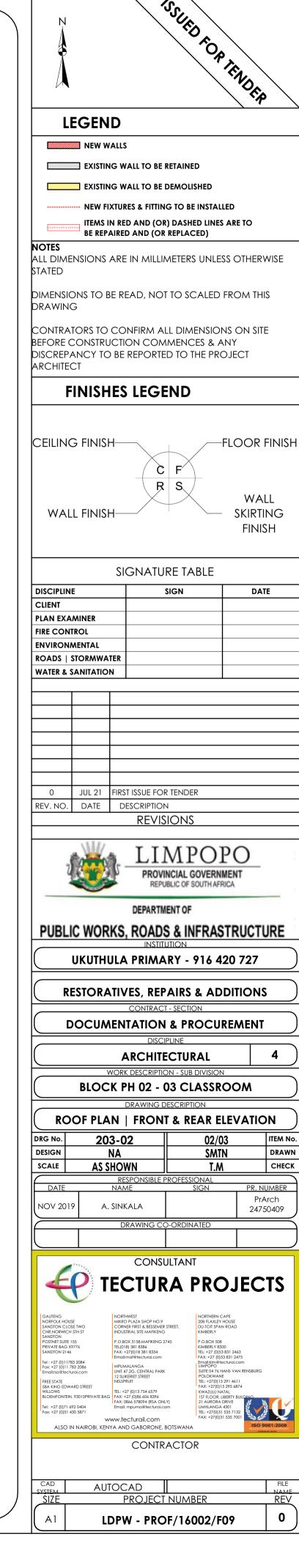
**Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male 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 7275 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





## 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.

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

## 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.

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 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, SO 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 ato 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 omplying 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

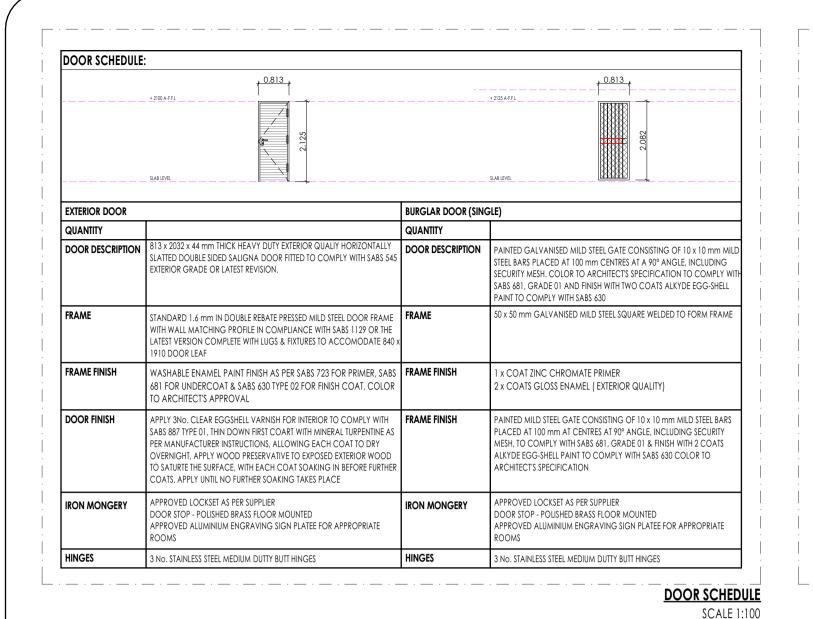
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

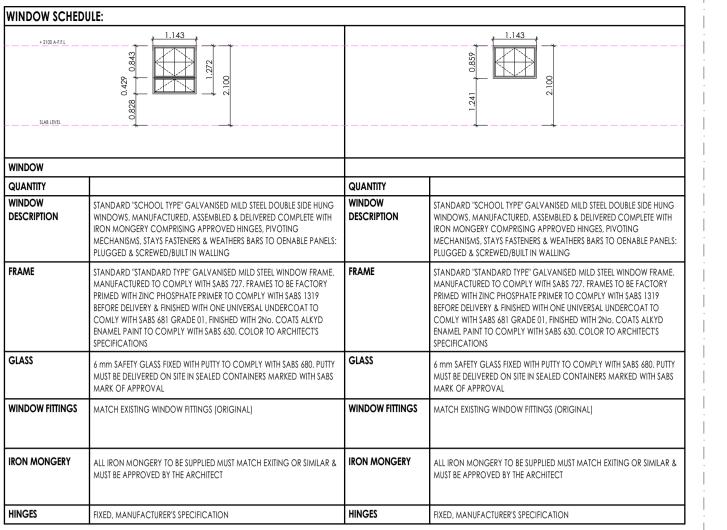
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting 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 7275 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.

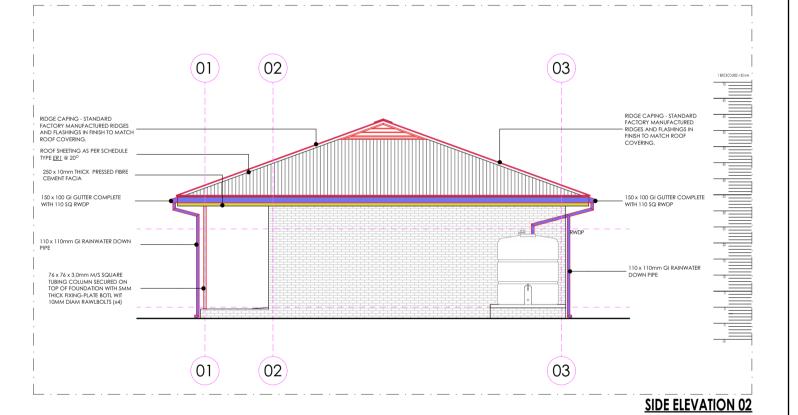
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

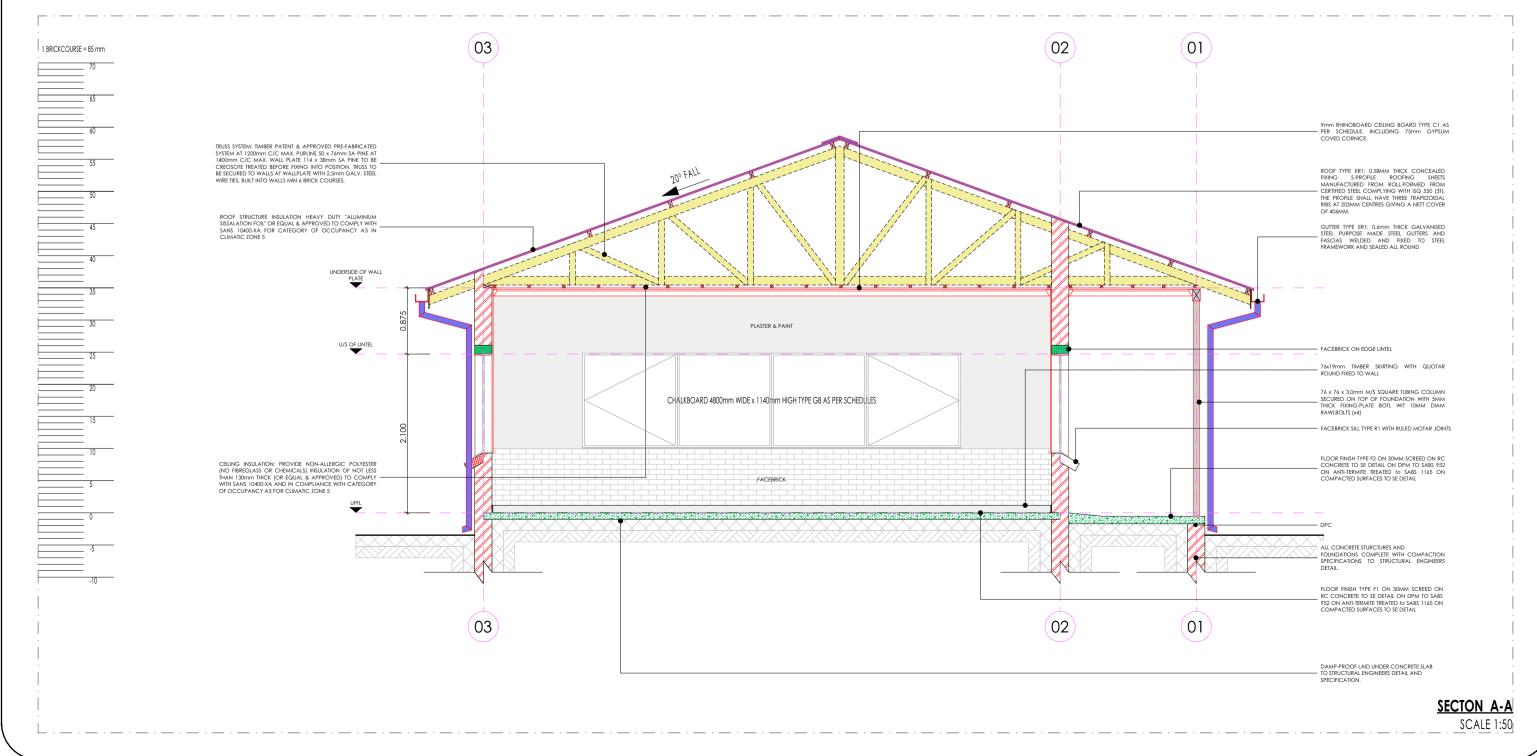




WINDOW SCHEDULE

# (01) SIDE ELEVATION 0





# **SANITARY SCHEDULE**

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

**Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN** 

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id 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

treous 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

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN 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 "Ja;

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 parapleaic 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)** 

## /itreous 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.

TAIL 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 fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration Overhead shower arm with wall flange.

# Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

**B1: WHB & MIXER TAP** 

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.

B2: DISABLED BASIN A 20mm 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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) imic 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 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; 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) 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 manufacture **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.

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, adjustab and supplied with suitable assesories 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 (cupboc 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-conceale brackets supplied with all necessary accessories (all to be acid resistant

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.

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 ba 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

# 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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

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, including Screws, dowels and all necessar

accessories in accordance to manufacturer's specifications.

#### 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

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.

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

#### 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 screw

and plastic wall plugs. Installed as per manufacturer's instructions 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 manufacturer's specifications.

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

# K11: HAND DRYER (Hands free)

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

# 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**

G2: PROJECTOR SCREEN

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.

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.

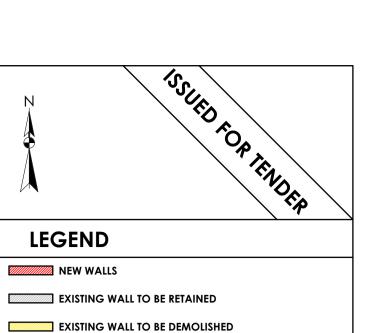
G3: PINBOARD 1500W X 1000H Pinboard size 1000mm H x 1500mm W comprising of laminated soft board core pinning material beaded all round with anodised aluminium channel surrour mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

#### 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 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



all dimensions are in millimeters unless otherwise

NEW FIXTURES & FITTING TO BE INSTALLED

ITEMS IN RED AND (OR) DASHED LINES ARE TO

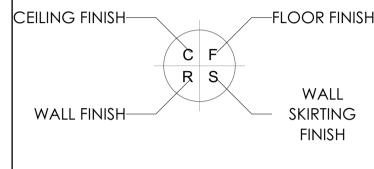
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

BE REPAIRED AND (OR REPLACED)

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT



ARCHITECT



		SIC	GNATURE TABLE	
DISCIPLIN	E	T	SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	TROL			
ENVIRON/	MENTAL			
ROADS	STORMWATE	R		
WATER & S	SANITATION			
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UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** BLOCK PH 02 - 03 CLASSROOM

SECTION | SIDE ELEVATION | SCHEDULES **SMTN** NΔ AS SHOWN T.M

CHECK NOV 201 A. SINKALA 24750409 **CONSULTANT** 



TEL: +27 (0)13 754 6579

www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

# F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval

## F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES 500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

#### F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

55mm 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.

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 alued 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 Curren 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.

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.

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.

## 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

**WALL FINISHES:** 

R1: FACE BRICK BX 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

floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

#### 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.

nanufactured and installed in strict compliance SABS 22 Standard.

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

# 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 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 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

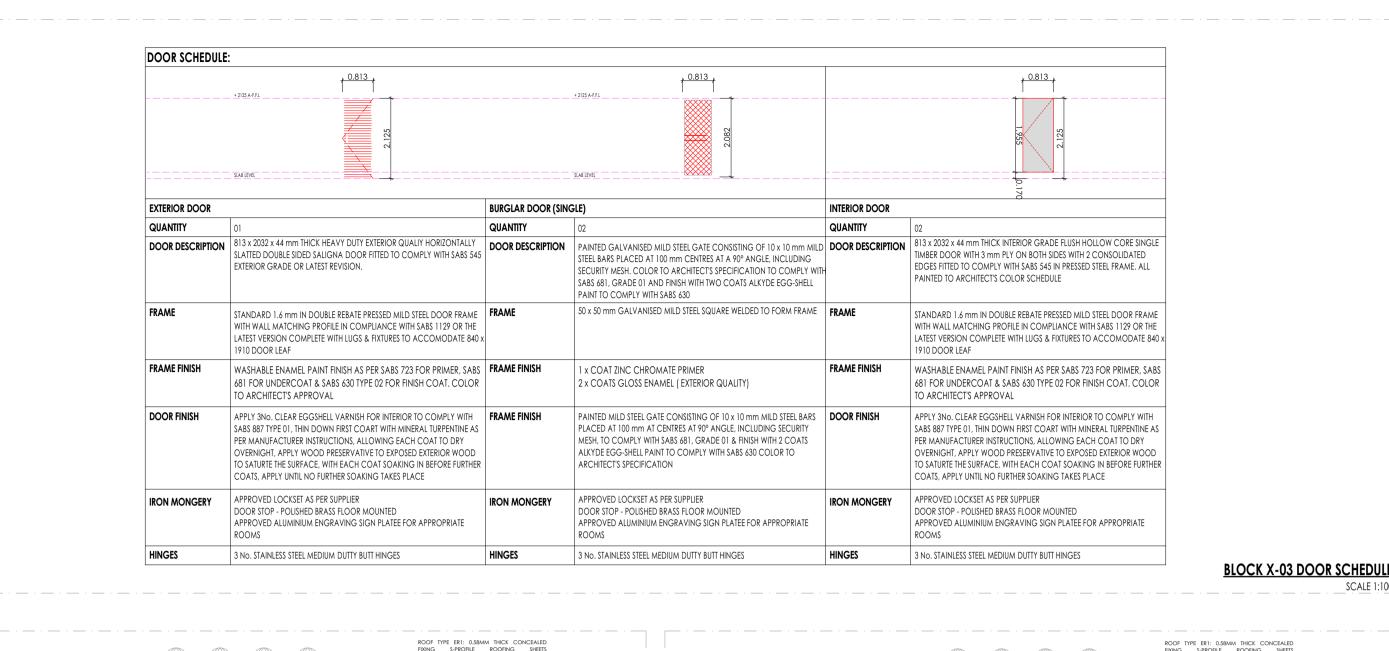
omplying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

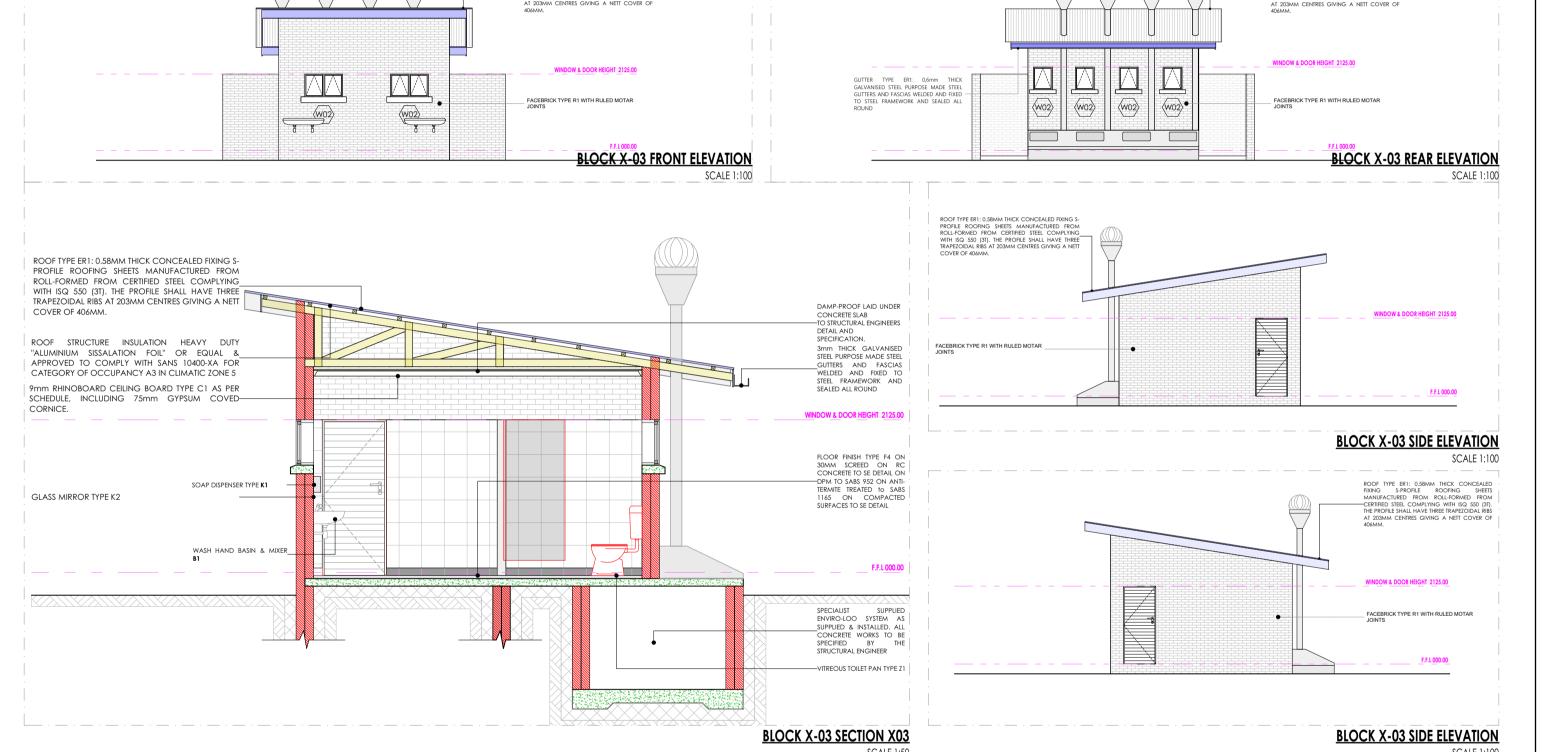
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

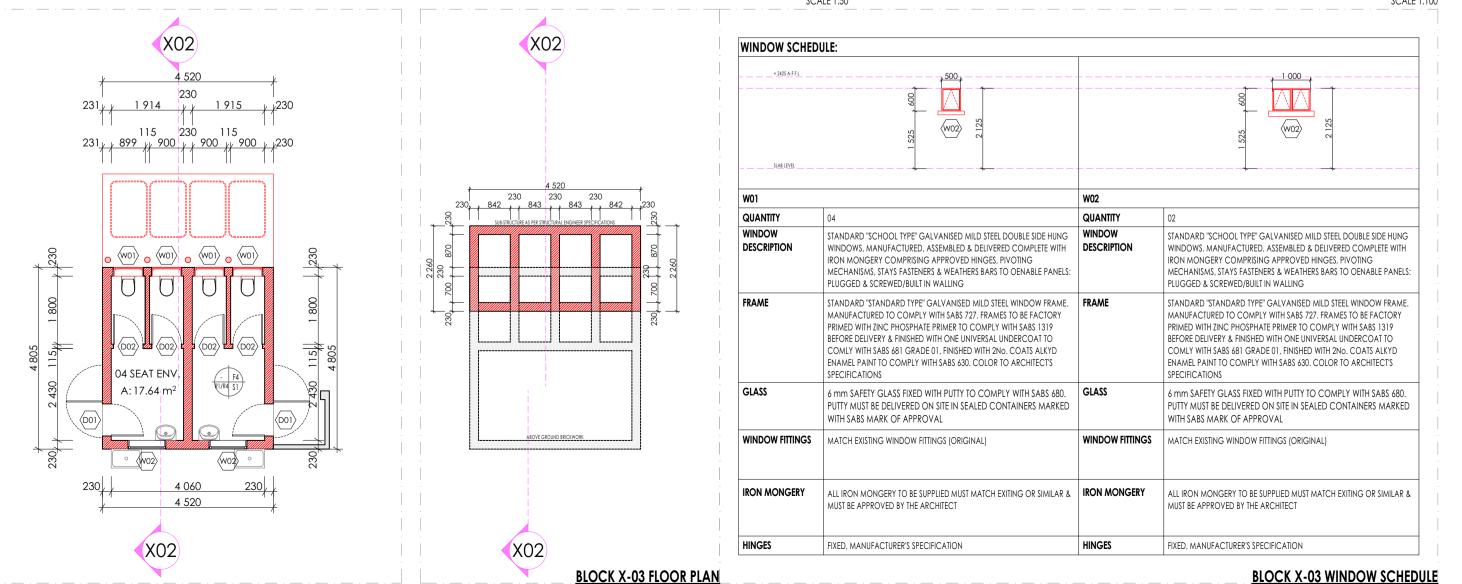
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

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







SCALE 1:100

# **SANITARY SCHEDULE**

#### WC'S URINALS & SHOWER

Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id Thermoset Plastic Seat" Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge 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 c necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN 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 "J 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.

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

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

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.

## 74: 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 fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration Overhead shower arm with wall flange.

 Chrome Plated Shower Head with ball jointed connector • Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

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, 30 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

**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 mn

#### 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) 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:

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 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; 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) 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

#### 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

B6: MEDIC BASIN & FITTINGS (SICK BAY)

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 assesories 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 (cupboar 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 brackets supplied with all necessary accessories (all to be acid resistant

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, 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.

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. 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

# **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 Sat 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, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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

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 specifications.

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 manufacturer's specifications. 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

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

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

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

and plastic wall plugs. Installed as per manufacturer's instructions

K9: SOAP DISPENSER/DISH- WALL MOUNTED

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 SCO400 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.

#### 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)

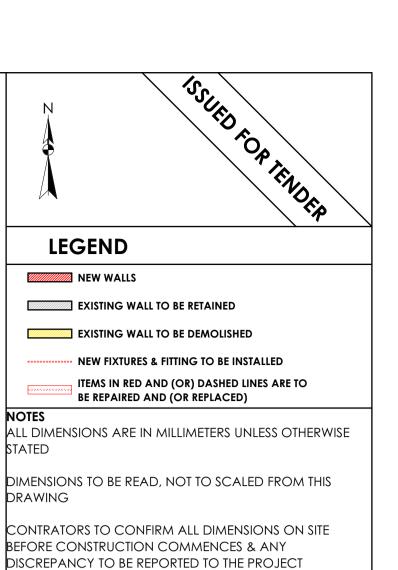
27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.

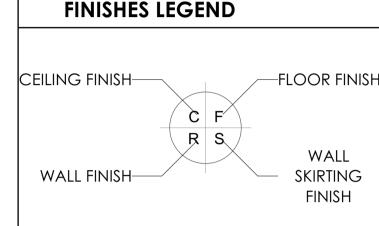
#### G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

**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

m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig 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 wit ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.





ARCHITECT



UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

**DOCUMENTATION & PROCUREMENT** 

**ARCHITECTURAL** STAGE 04 ARCHITECTURAL

X-03 FLOOR | SECTION | SIDES | SCHEDULES F08-108-01 01/01 **SMTN** SCALE AS SHOWN T.M CHECK NOV 201 T. MANYADZA 43981757





TABLE 1: SUMMARY FOR HUMAN CAPITAL							
	BOYS	GIRLS	TOTAL				
GRADE R	69	59	128				
GRADE 1	59	71	130				
GRADE 2	49	58	107				
GRADE 3	31	87	118				
GRADE 4	49	70	119				
GRADE 5	49	61	110				
GRADE 6	64	41	105				
GRADE 7	55	65	120				
TOTAL NO. LEARNERS 945							
TOTAL OF EDUCATORS 26							

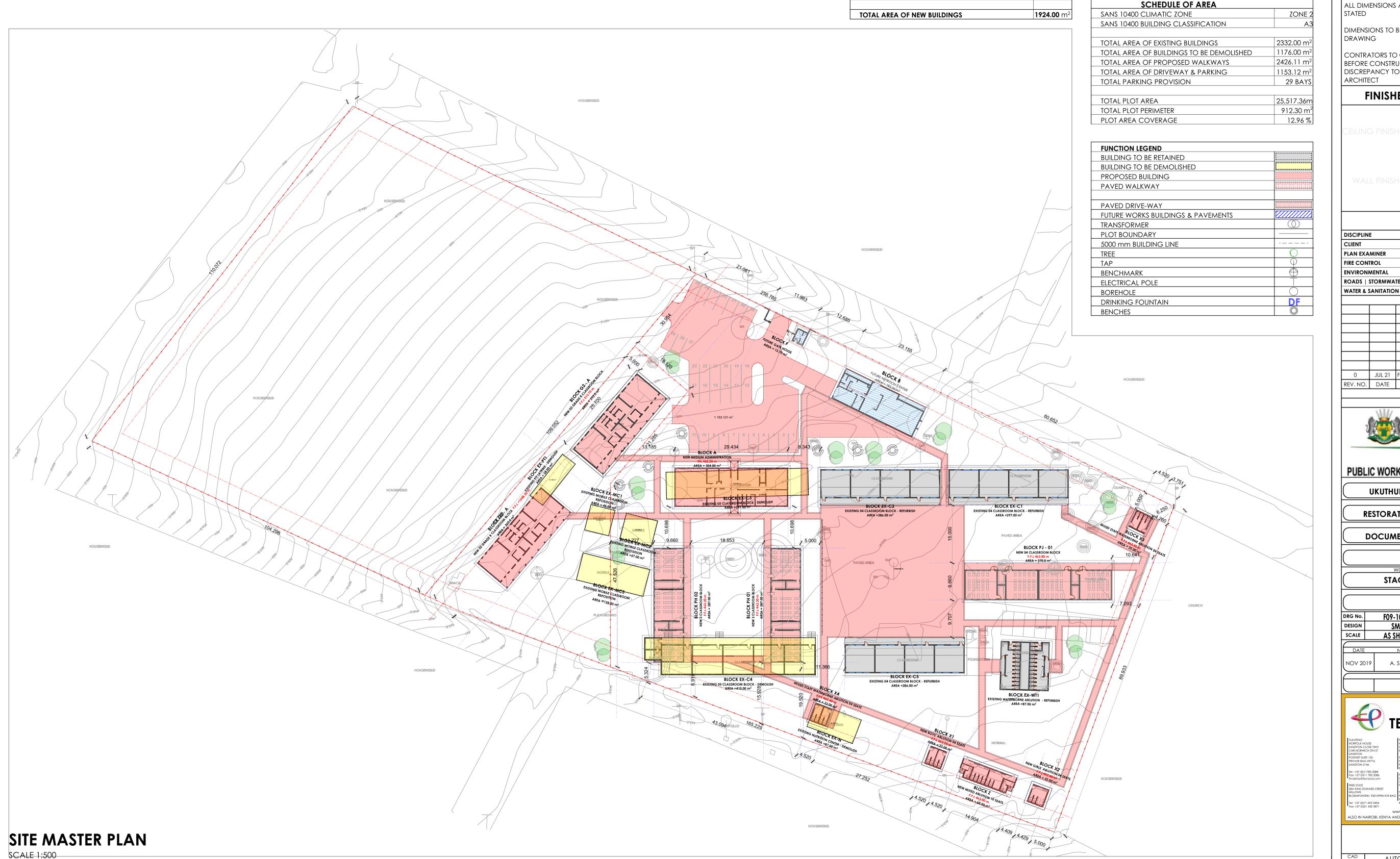
TABLE 2A: DEMOLITION WORKS	AREA
BLOCK EX-C3: 05 CLASSROOM BLOCK	391.00 m
BLOCK EX-C4: 05 CLASSROOM BLOCK	410.00 m
BLOCK EX-N: NUTRITION CENTER	87.00 m
BLOCK EX-PT1: PIT ABLUTION	58.00 m
BLOCK EX-MC01: MOBILE CLASSROOM	45.00 m
BLOCK EX-MC02: MOBILE CLASSROOM	57.00 m
BLOCK EX-MC03: MOBILE CLASSROOM	128.00 m
TOTAL AREA OF DEMOLITION	<b>1176.00</b> n

TABLE 2B: RENOVATION   REFURBISHMENT	AREA
BLOCK EX-C1: 05 CLASSROOM BLOCK	397.00 m <sup>2</sup>
BLOCK EX-C2: 04 CLASSROOM BLOCK	286.00 m <sup>2</sup>
BLOCK EX-C5: 04 CLASSROOM BLOCK	286.00 m <sup>2</sup>
BLOCK EX-WT1: 24 SEAT ENVIRO-LOO	87.00 m <sup>2</sup>
TOTAL AREA: EXISTING BUILDINGS FOR REFURB	1056.00m <sup>2</sup>

TABLE 2C: NEW WORKS	AREA
BLOCK A - ADMINISTRATION BLOCK	304.00 m <sup>2</sup>
BLOCK PJ 01 - 4 CLASSROOM BLOCK	370.00 m <sup>2</sup>
BLOCK PH 01 - 3 CLASSROOM BLOCK	287.00 m <sup>2</sup>
BLOCK PH 02 - 3 CLASSROOM BLOCK	287.00 m <sup>2</sup>
BLOCK G2 A - 2 CLASSROOM BLOCK	260.00 m <sup>2</sup>
BLOCK G2 B - 2 CLASSROOM BLOCK	260.00 m <sup>2</sup>
BLOCK X1 - 04 SEAT ENVIRO-LOO	22.00 m <sup>2</sup>
BLOCK X2 - 04 SEAT ENVIRO-LOO	22.00 m <sup>2</sup>
BLOCK X3 - 04 SEAT WATERBORNE TOILET - STAFF	22.00 m <sup>2</sup>
BLOCK X4 - 04 SEAT WATERBORNE TOILET - STAFF	22.00 m <sup>2</sup>
BLOCK Z - 10 SEAT ENVIRO-LOO	68.00 m <sup>2</sup>
TOTAL AREA OF NEW BUILDINGS	<b>1924.00</b> m <sup>2</sup>

TABLE 2D: FUTURE WORKS	
BLOCK B - NUTRITION CENTER	183.36 m <sup>2</sup>
BLOCK F - GATE HOUSE	13.70 m <sup>2</sup>
TOTAL AREA OF FUTURE BUILDINGS	<b>197.06</b> m <sup>2</sup>

TABLE 2E: CLASSROOMS SUMMARY	
TOTAL NUMBER FOR ALL CURRENTLY PROVIDED CLASSROOMS	22
TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS	12
TOTAL NUMBER FOR ALL NEW CLASSROOMS	10





LDPW - PROF/16002/F09

# F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval

## F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES 500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

55mm 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.

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 alued 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.

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

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.

COVER OF 406MM.

## 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

**WALL FINISHES:** 

R1: FACE BRICK BX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

#### 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

# 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

# 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

applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be

# CEILING AND CORNICE:

# C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED

nanufactured and installed in strict compliance SABS 22 Standard.

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 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 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

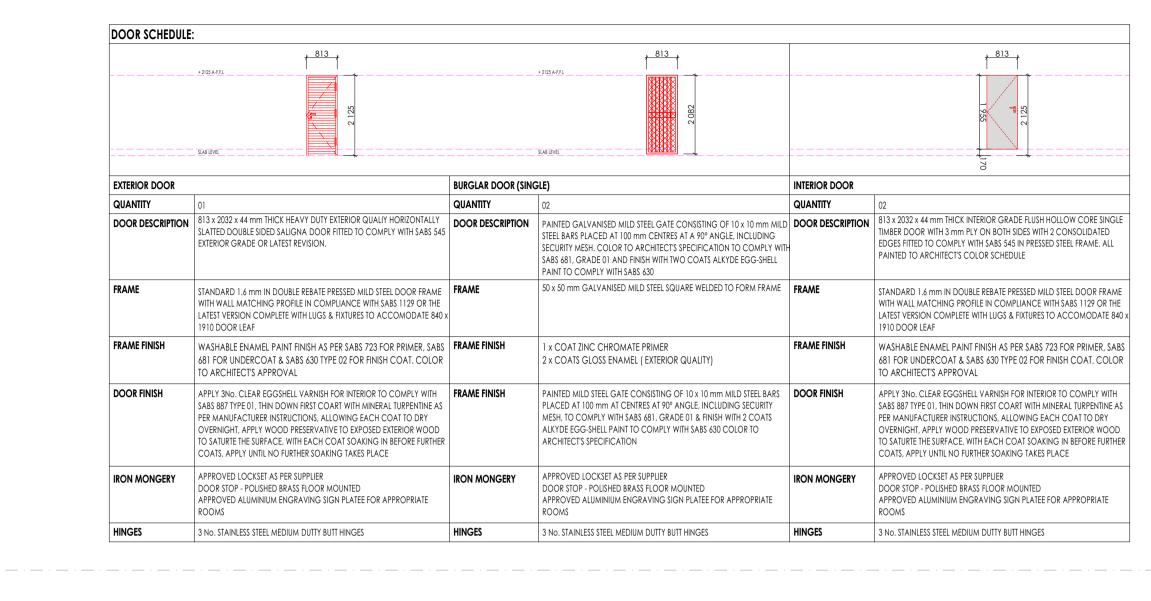
omplying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

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 7275 Galvanising To

Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

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



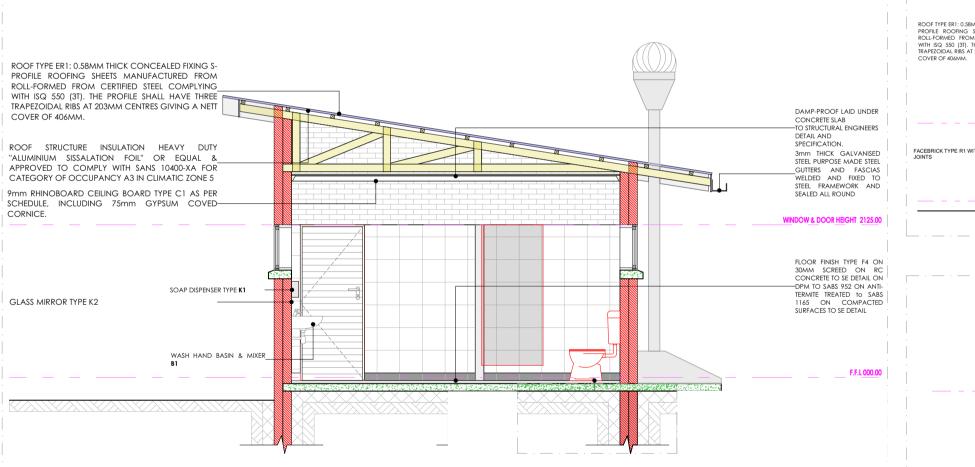
**BLOCK X-01 SECTION XO** 

**BLOCK X-01 FLOOR PLAN** 

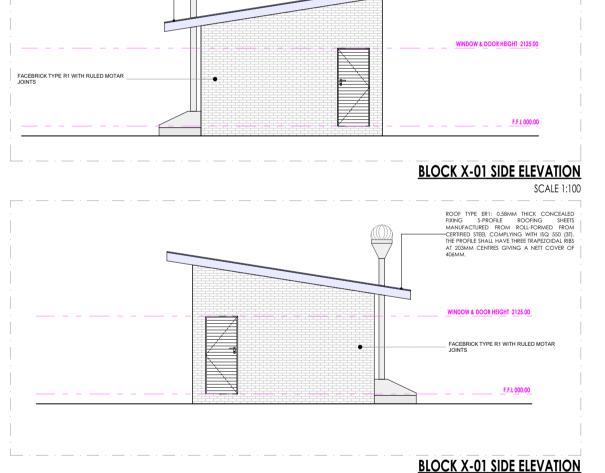
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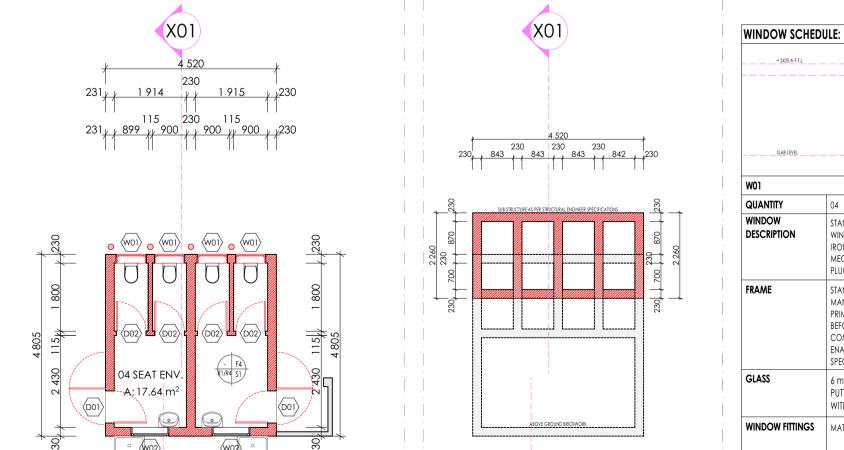
# **BLOCK X-01 DOOR SCHEDULI**

FACEBRICK TYPE R1 WITH RULED MOTAR BLOCK X-01 REAR ELEVATION



FACEBRICK TYPE R1 WITH RULED MOTAR





W02 QUANTIT STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG | WINDOW STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG DESCRIPTION WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH DESCRIPTION WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING I IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: MECHANISMS, STAYS FASTENERS & WEATHERS BARS TO OENABLE PANELS: PLUGGED & SCREWED/BUILT IN WALLING PLUGGED & SCREWED/BUILT IN WALLING STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. FRAME STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD COMLY WITH SABS 681 GRADE 01, FINISHED WITH 2No. COATS ALKYD NAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S NAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. GLASS PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL WITH SABS MARK OF APPROVAL WINDOW FITTINGS | MATCH EXISTING WINDOW FITTINGS (ORIGINAL) WINDOW FITTINGS | MATCH EXISTING WINDOW FITTINGS (ORIGINAL) ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & IRON MONGERY IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT MUST BE APPROVED BY THE ARCHITECT FIXED, MANUFACTURER'S SPECIFICATION FIXED, MANUFACTURER'S SPECIFICATION

# **SANITARY SCHEDULE**

#### WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ju Thermoset Plastic Seat". Fitted with Concealed Flushina 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

Vitreous china 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with c 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 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 "J 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

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 quality

# approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: 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 fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

#### Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

#### **WASH-HAND BASIN**

B1: WHB & MIXER TAP 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, 30 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

**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 ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

#### 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: 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 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; 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) 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 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.

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

x 500mm Inset washtrough, manufactured from grade 18/10.SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fittee with Approved 2No. CP bibtaps - plain extended chrome plated, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with stirrup, chair 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 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 fooi

# 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 Satii 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 domheaded mirror screws K3: SS WASTE BIN

328W x 826H x 203D Waste bin manufactured From 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1,5mm, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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 101 & 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 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 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.

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

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

#### 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.

accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.

GENERAL FIXTURES 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

**G2: PROJECTOR SCREEN** Pull down PVC screen size 2440 x 1850mm (viewing area 2340 x 1750mm) with wall-mounted code SCO400 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.

#### 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.

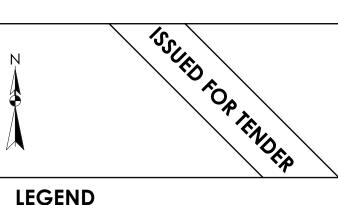
#### G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

# **G7: SS FLOOR EXPANSION JOINT COVER**

**BLOCK X-01 WINDOW SCHEDULE** 

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

m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig 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 wit 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.



# MEW WALLS

# EXISTING WALL TO BE RETAINED

# EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

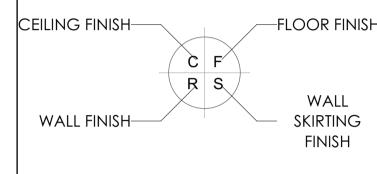
BE REPAIRED AND (OR REPLACED)

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

# FINISHES LEGEND



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UKUTHULA PRIMARY - 916 420 727 RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION X-01 FLOOR | SECTION | SIDES | SCHEDULES F09-107-01

DRAWN **SMTN** CHECK SCALE AS SHOWN T.M NOV 2019 T. MANYADZA 43981757



www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

## F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval

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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

55mm 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.

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 Curren 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.

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.

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.

#### 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.

R1: FACE BRICK

**WALL FINISHES:** 

# BX 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 6 grade1, in accordance to manufacturer's instructions.

# R3:ALKYD (ENAMEL) PAINT

R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO

! 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.

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** 

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

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 nanufactured 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 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 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

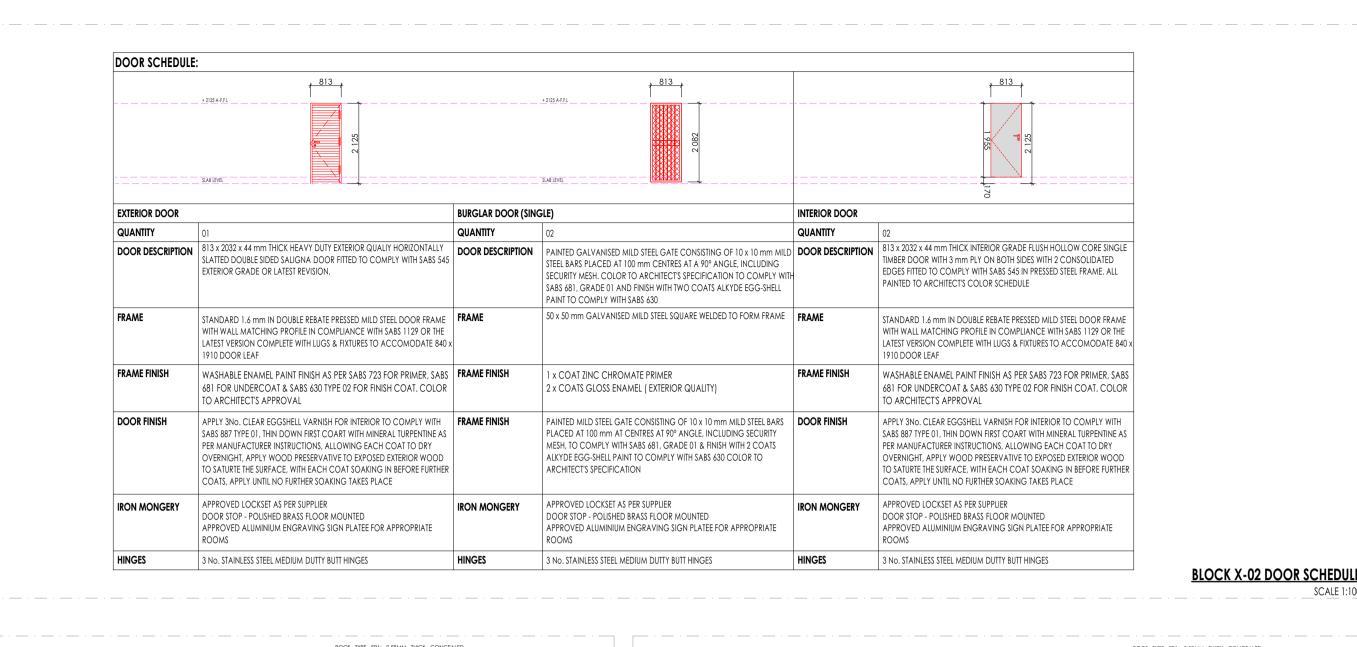
omplying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

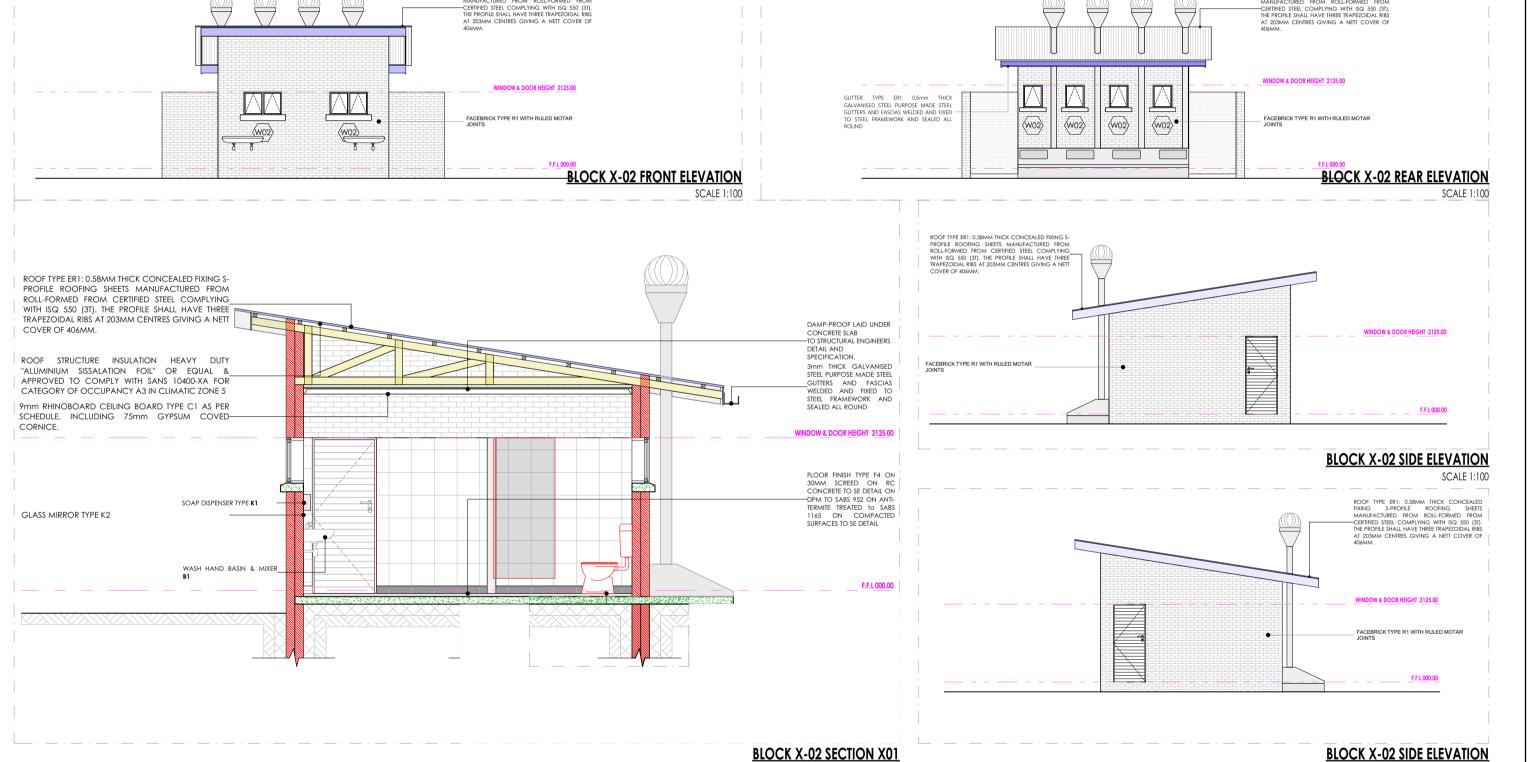
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

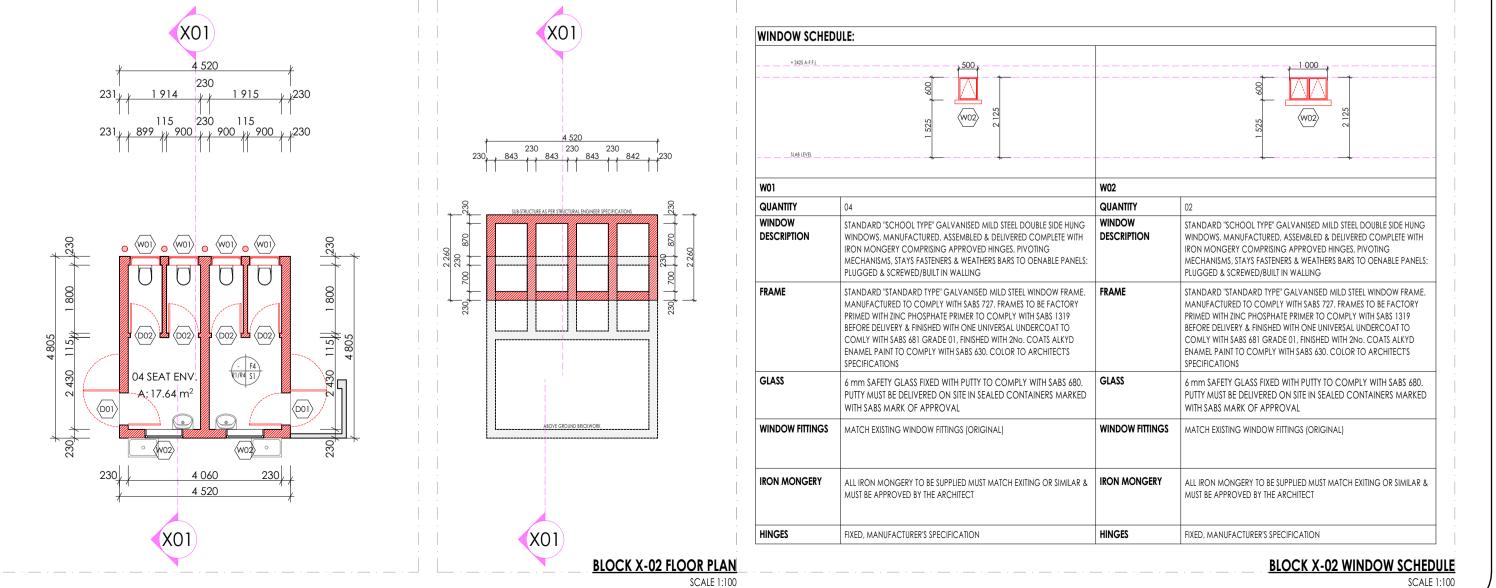
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

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







# **SANITARY SCHEDULE**

#### WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous china 90° outlet WC or eaual and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "J 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 90o outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern Installed complete with c necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "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

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

#### 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)**

ritreous 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.

74: 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

 Overhead shower arm with wall flange Chrome Plated Shower Head with ball jointed connector

 Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

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, 30 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

**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 ¼ turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t

#### 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: 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 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; 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.

B5: H/DUTY BASIN & 1No. TAP (FOR LABS) 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 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

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewl 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 assesories 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 (cupboal 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 brackets supplied with all necessary accessories (all to be acid resistant

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, 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. 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 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

# **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 Sat finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

**K2: GLASS MIRROR** 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holed for and fixed, with chromium plated dome headed mirror screws K3: SS WASTE BIN

accessories in accordance to manufacturer's specifications.

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 screw and plastic wall plugs. Installed as per manufacturer's instructions 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 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

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

As per Electrical Engineers specification

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

#### 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

manufacturer's specifications.

K11: HAND DRYER (Hands free)

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 SCO400 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.

#### 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 m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig 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 wit ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



LDPW - PROF/16002/F09

# F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval

## F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES 500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

55mm 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.

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)

vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

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 alued with conducive adhesive To SARS 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 Curren 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.

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

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.

#### 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.

S3: CEMENT SAND SCREED

**WALL FINISHES:** 

R1: FACE BRICK BX 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 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 nanufactured 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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)

**<u>Roofing Sheets:</u>** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

omplying 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

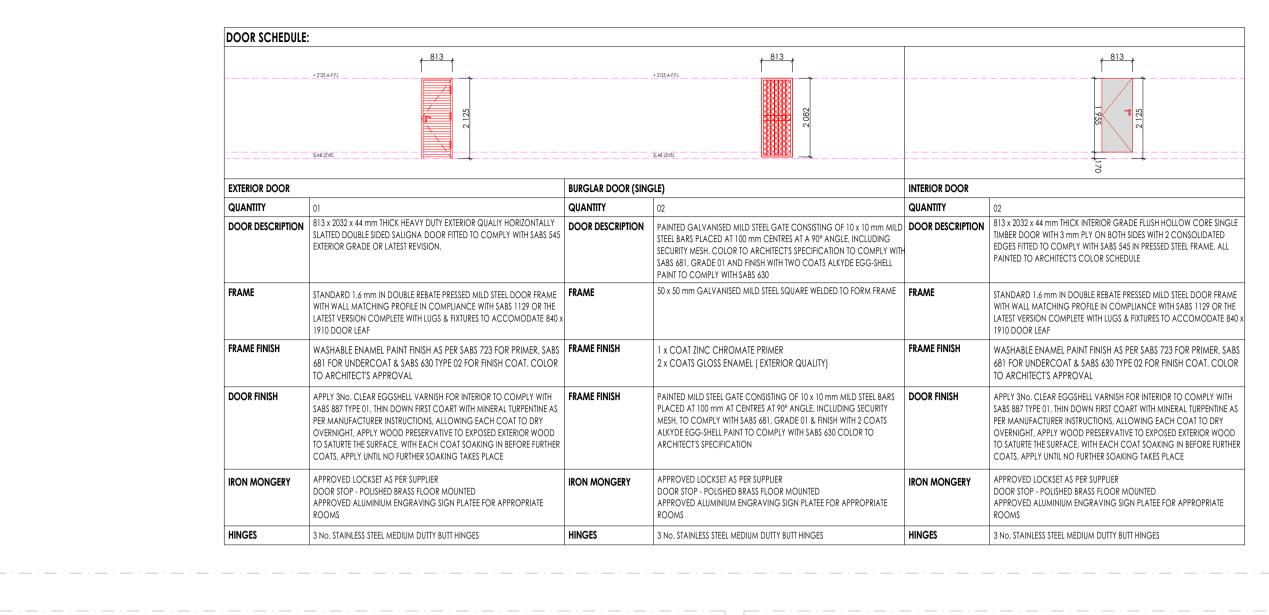
AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

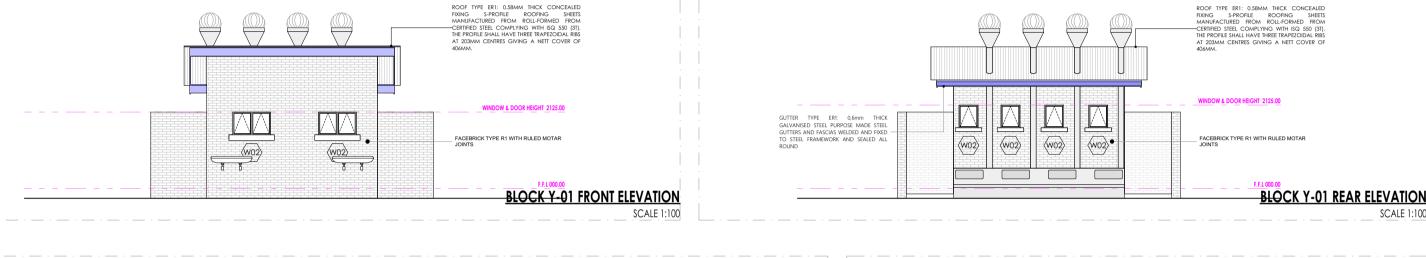
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

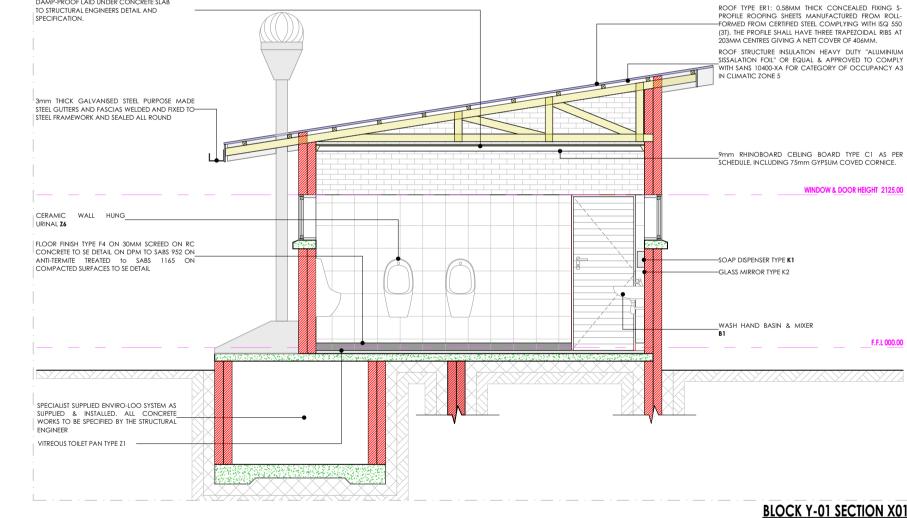
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class 2275 Galvanising To Comply With SABS 934 or

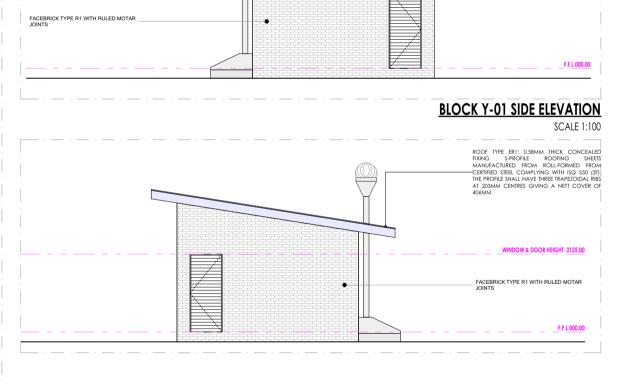
Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

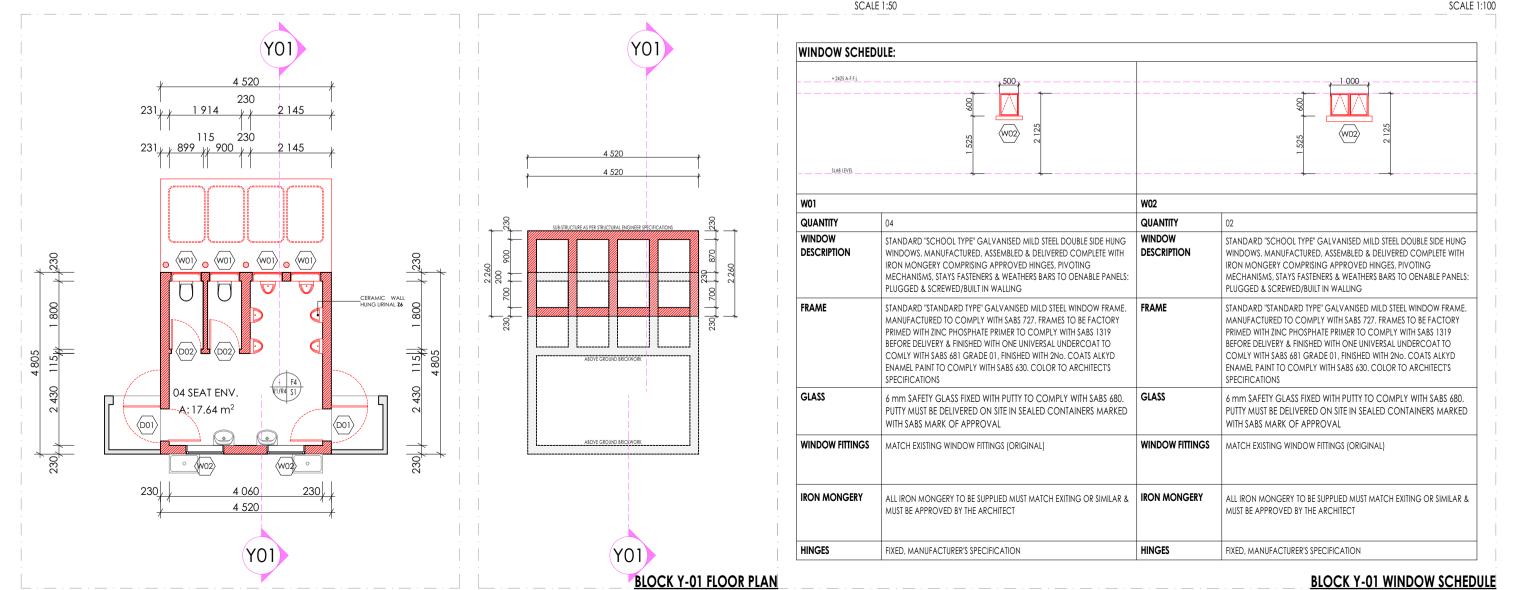
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.











SCALE 1:100

# **SANITARY SCHEDULE**

#### WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN Vitreous ching 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SARS 497 & Fitted with "Id 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

/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.

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

Z3: CERAMIC PARAPLEGIC WC [CC]- CONCEALED CISTERN Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "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 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 quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

# 74: 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 fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:

• Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

#### Overhead shower arm with wall flange. Chrome Plated Shower Head with ball jointed connector

accordance to manufacture's specifications.

• 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

**BLOCK Y-01 DOOR SCHEDULE** 

**BLOCK Y-01 SIDE ELEVATION** 

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, 30 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

**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 mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the

#### B3: WHITE GLAZED PORCELAIN WHB (VANITY) ramic 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

**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; 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. B5: H/DUTY BASIN & 1No. TAP (FOR LABS) heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1N 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 manufacture

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

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.

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 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, adjustab and supplied with suitable assesories 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 (cupboc 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-conceale brackets supplied with all necessary accessories (all to be acid resistant)

x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet. Fitte 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. 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. outle fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with ba 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

# **SANITARY ACCESSORIES**

K5: SOAP HOLDER

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 Sat 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, including Screws, dowels and all necessar accessories in accordance to manufacturer's specifications.

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 to manufacturer's specifications.

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 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 screw and plastic wall plugs. Installed as per manufacturer's instructions

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.

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 Complete K11: HAND DRYER (Hands free)

As per Electrical Engineers specification

installed in accordance to manufacturer's specifications.

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

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

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 SCO400 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.

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

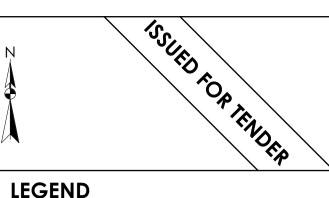
mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual 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

m 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm hig 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 wit 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.



# WWW NEW WALLS EXISTING WALL TO BE RETAINED

# EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED

BE REPAIRED AND (OR REPLACED) all dimensions are in millimeters unless otherwise

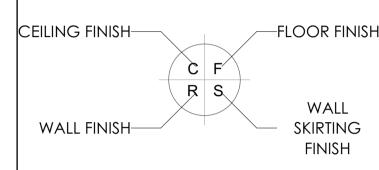
ITEMS IN RED AND (OR) DASHED LINES ARE TO

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT

# FINISHES LEGEND

ARCHITECT



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**RESTORATIVES, REPAIRS & ADDITIONS** 

**DOCUMENTATION & PROCUREMENT ARCHITECTURAL** 

**STAGE 04 ARCHITECTURAL** 

Y-01 FLOOR | SECTION | SIDES | SCHEDULES

F09-109-01 **SMTN** CHECK SCALE AS SHOWN T.M NOV 201 T. MANYADZA 43981757



www.tecturail.com ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

#### FLOORS:

# F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

## F2: PORCELAIN TILES -MATT

600 x 600 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 files 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 SCRE

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

## 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. Contractor to provide Certificate of Static Current

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.

## SKIKIING:

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

## S2: CERAMIC TILE SKIRTIN

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

R1: FACE BRICK

WALL FINISHES:

floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

vanished with 3No. coats of egg shell clear vanish to comply with SABS/SANS 381 type 1.

# 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 SARS 630, type 2 applied on plastered surfaces with 1 no coats

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

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 \$" 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.

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

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

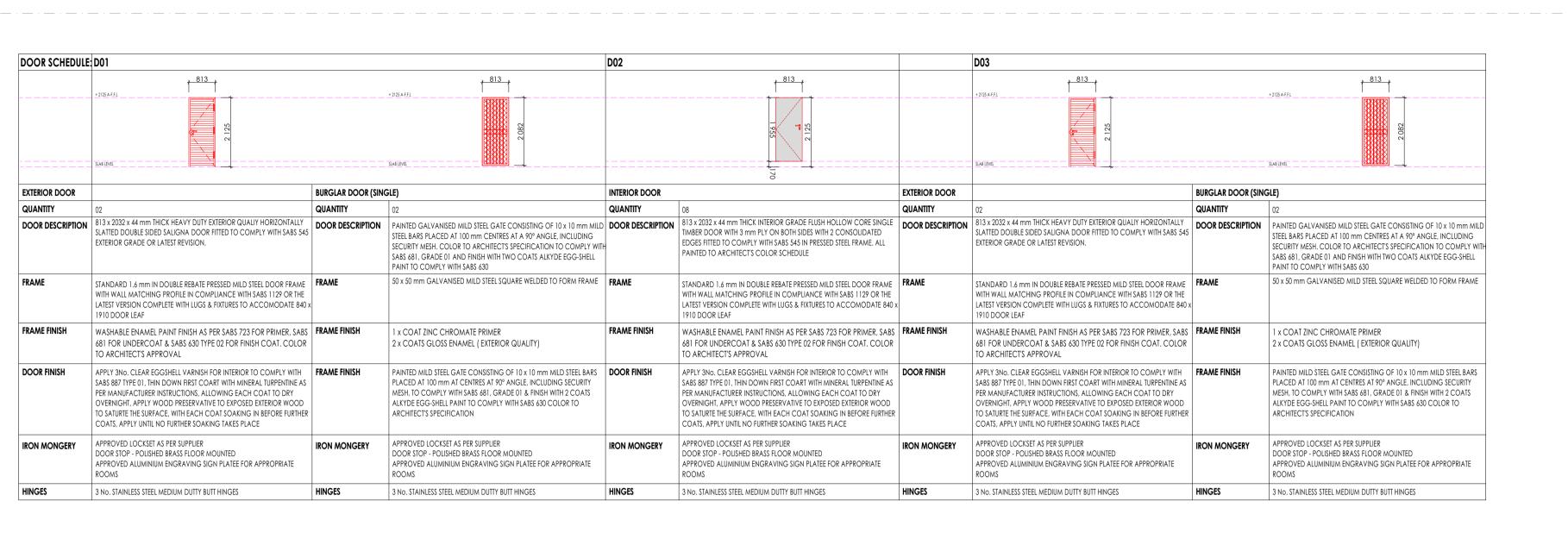
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

Manufacturer Installation Instructions.

Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws.

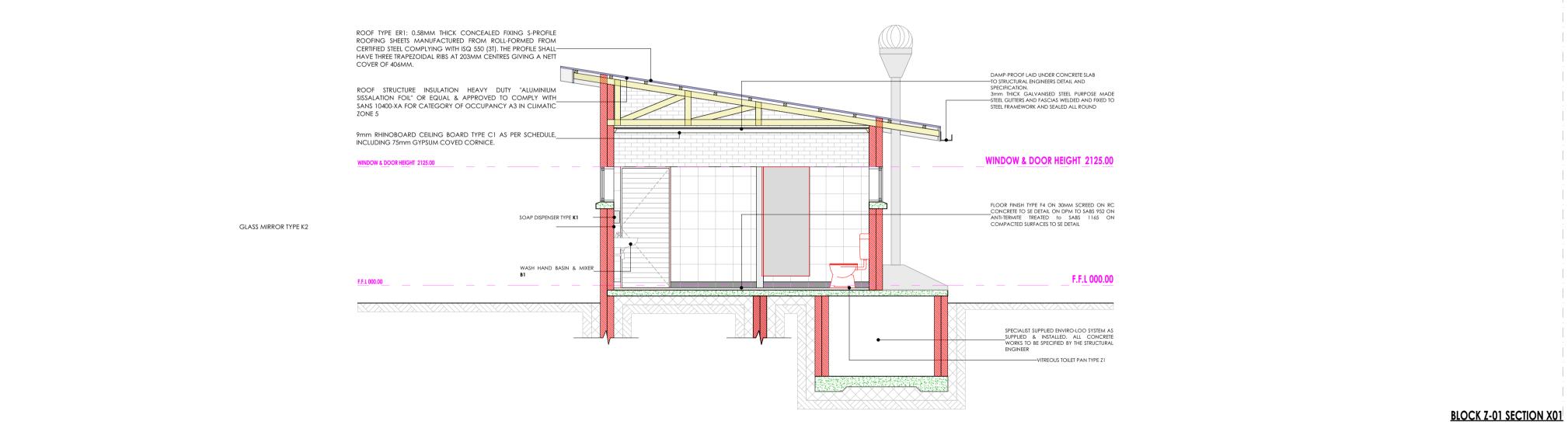
Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

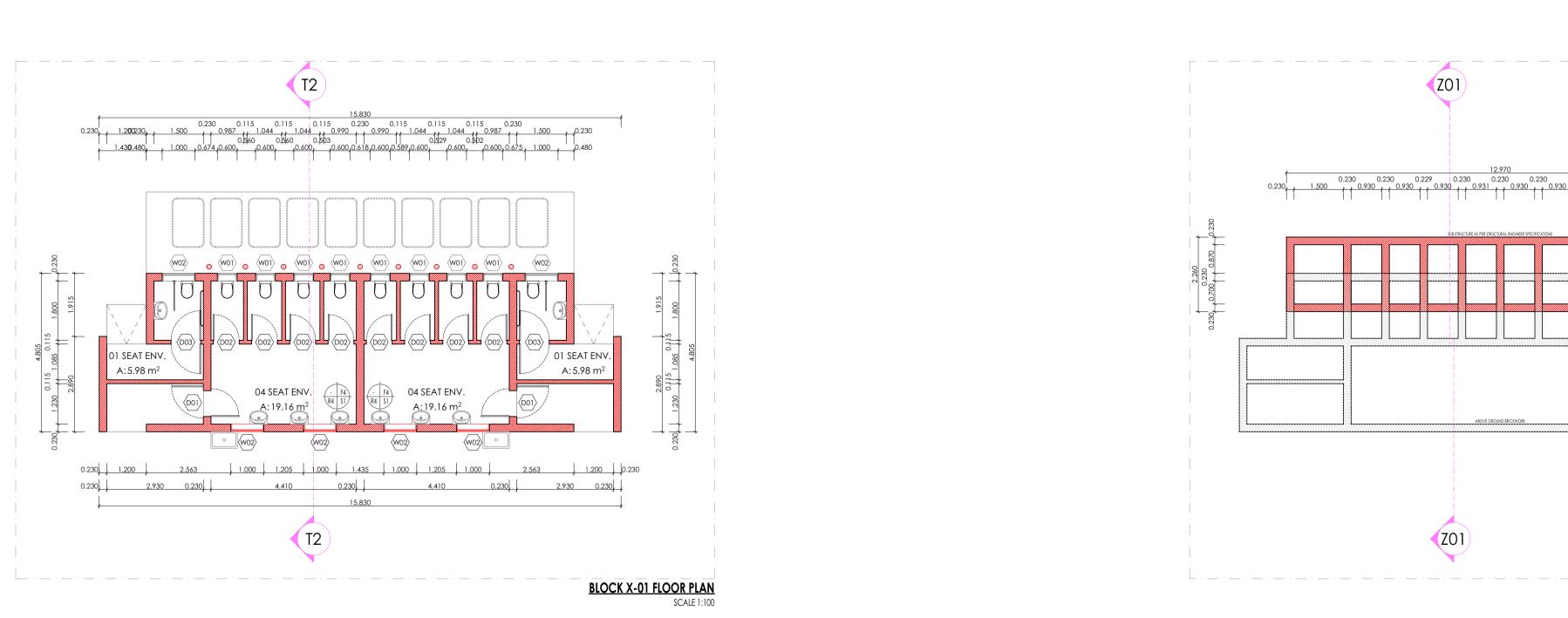


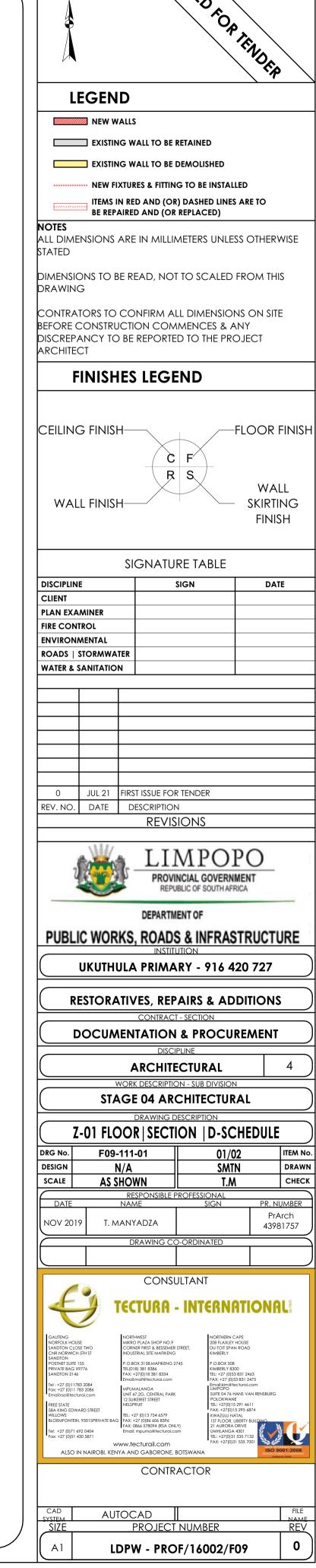
BLOCK Z-01 DOOR SCHEDULE SCALE 1:100

**BLOCK X-01 SUB-FLOOR PLAN** 

SCALE 1:100







## F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)

300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval

# F2: PORCELAIN TILES -MATT

600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

F3: CARPET TILES 500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement 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.

30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for

#### F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS

55mm 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.

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 alued with conducive adhesive To SARS 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.

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.

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.

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 BX 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

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 nanufactured 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed o the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire otches 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

mulsion (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

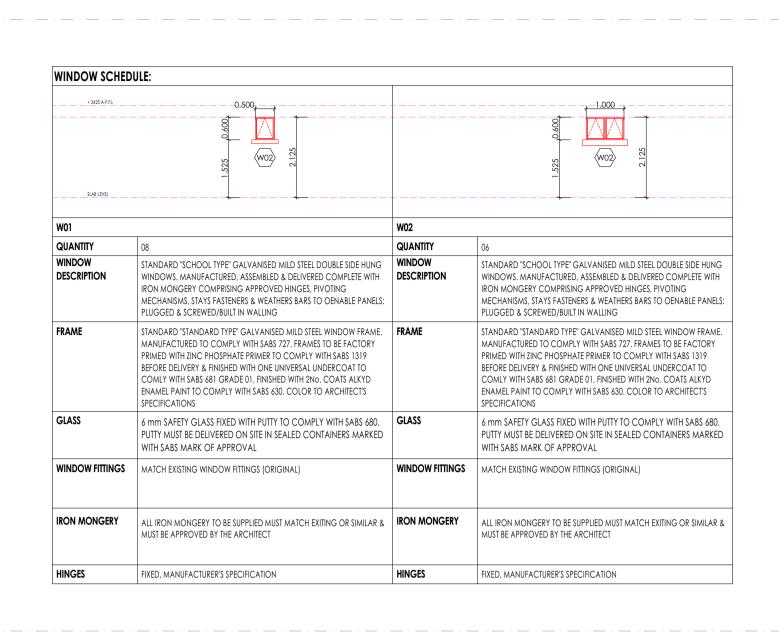
omplying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

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.

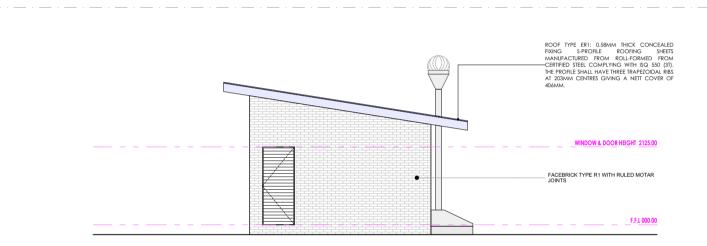
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

Downpipe: 110 x 110 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

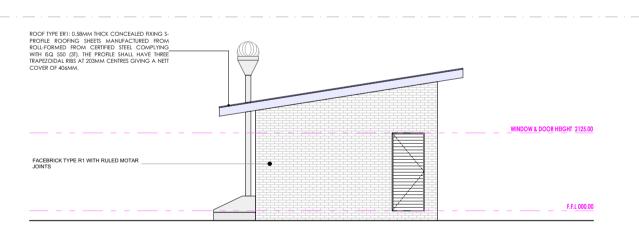
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



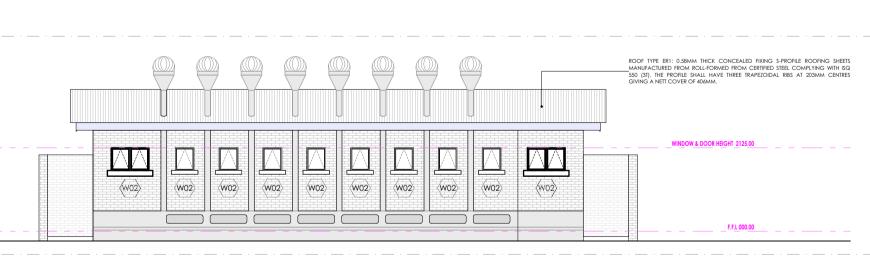
**BLOCK Z-01 WINDOW SCHEDULE** 



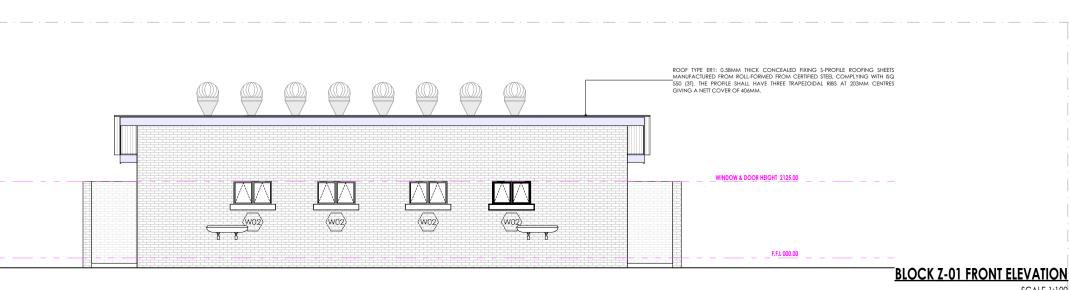
**BLOCK Z-01 SIDE ELEVATION** 



**BLOCK Z-01 SIDE ELEVATION** SCALE 1:100



**BLOCK Z-01 REAR ELEVATION** 



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

## Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

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

necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Z3: CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN

Vitreous china 90o outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "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 suitable extension lever, blank flush plate & offset push button for paraplegic access

#### 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 quality

approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. 74: 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

fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved: • Glazed Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration

Overhead shower arm with wall flange.

Chrome Plated Shower Head with ball jointed connector

• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connections adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face tiled.

## **WASH-HAND BASIN**

B1: WHB & MIXER TAP 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, 308 pasin waste, 365/40 CP Bottle Trap, mounting kit and angle valves.

**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 mn 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)

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: 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 accordance to manufacture's specifications.

#### **B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)** eous 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 for 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) heavy duty basin in one taphole configuration to comply with SABS 497 and RHS hole plugged and fitted with;1N

# 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

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.

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawinas.

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

Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewl 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 assesories 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 (cupboa 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-conceale brackets supplied with all necessary accessories (all to be acid resistant

#### x 500mm Inset washtrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia, outlet, Fitte 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. 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. outle' fitted with: Approved 2no wall type bibtaps, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with ba 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

# SANITARY ACCESSORIES

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.

64 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

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 necessar accessories in accordance to manufacturer's specifications.

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 to manufacturer's specifications.

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

# 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.

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 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. 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

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.

K11: HAND DRYER (Hands free)

**GENERAL FIXTURES** 

# 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.

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. be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions. 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 surrou 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

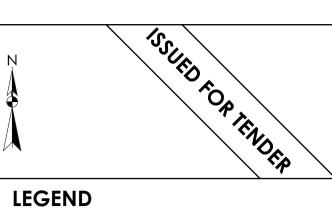
mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

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 file surface over the 20mm expansic joints, in accordance to the manufacturer's specifications. **G8: CHALKBOARDS- GREEN SURFACE COLOUR** 

rm 1000 standard WRITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 4800mm x 1140mm his 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 ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly accordance with the manufacturer's instructions.



# WWW NEW WALLS

EXISTING WALL TO BE RETAINED

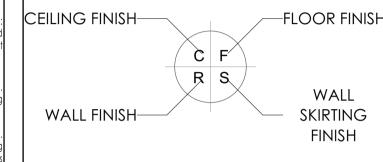
EXISTING WALL TO BE DEMOLISHED NEW FIXTURES & FITTING TO BE INSTALLED ITEMS IN RED AND (OR) DASHED LINES ARE TO

BE REPAIRED AND (OR REPLACED) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

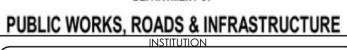
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS

CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

# FINISHES LEGEND



		SI	GNATURE TABLE			
DISCIPLINE			SIGN	DATE		
CLIENT						
PLAN EXAMINER						
FIRE CONTROL ENVIRONMENTAL						
ROADS	STORMWAT	ER				
WATER & S	OITATINA	1				
0	JUL 21	FIRST ISSUE FOR TENDER				
REV. NO.	DATE	DESCRIPTION				
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			DEPARTMENT OF			



**UKUTHULA PRIMARY - 916 420 727** RESTORATIVES, REPAIRS & ADDITIONS

# **DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** 

STAGE 04 ARCHITECTURAL **Z-01 ELEVATIONS | W-SCHEDULE** 

F09-111-02 **SMTN** AS SHOWN T.M CHECK NOV 2019 T. MANYADZA 43981757



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