

BID NUMBER: LDPWRI-B/20306

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITIONS OF 3 CLASSROOMS, 20 PIT TOILETS AND 2 x TANK HOUSE, RENOVATIONS TO 27 ENVIROLOO TOILETS AND 12 CLASSROOMS AND THE CONSTRUCTION OF MEDIUM ADMIN, 14 CLASSROOMS, 8 ENVIROLOO TOILET SEATS AND 6 SEATER WATERBORNE TOILETS AND EXTERNAL WORKS AT MATIMU SECONDARY SCHOOL IN MOPANI DISTRICT.

for

LIMPOPO DEPARTMENT OF EDUCATION (LDOE),

LIMPOPO PROVINCE

FRAMEWORK CATEGORY A CONTRACTORS ONLY (7GB AND ABOVE)

Issued by:

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

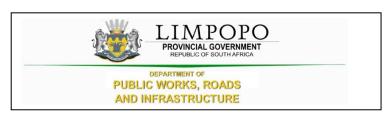
Contact Person: General Queries
Name : Mr NJ Motsopye,
Tel No. : 015 284 7126

Email : motsopyen@dpw.limpopo.gov.za

Technical: Technical QueriesName : Mr K Modjadji
Tel No. : 083 673 5436

Email : ModjadjiM@dpw.limpopo.gov.za

Name of the Bidder:



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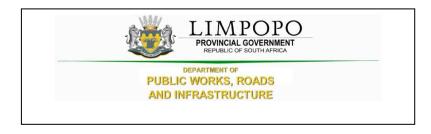
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PART T1: TENDERING PROCEDURE

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 DEMOLITIONS OF 3 CLASSROOMS, 20 PIT TOILETS AND 2 x TANK HOUSE, RENOVATIONS TO 27 ENVIROLOO TOILETS AND 12 CLASSROOMS AND THE CONSTRUCTION OF MEDIUM ADMIN, 14 CLASSROOMS, 8 ENVIROLOO TOILET SEATS AND 6 SEATER WATERBORNE TOILETS AND EXTERNAL WORKS AT MATIMU SECONDARY SCHOOL IN MOPANI DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) for a period of 18 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 Indirect Targeting for Enterprise Development through Construction Works Contracts **Gazette Notice No. 36190 of 25 February 2013** will be applicable on this project

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITIONS OF 3 CLASSROOMS, 20 PIT TOILETS AND 2 x TANK HOUSE, RENOVATIONS TO 27 ENVIROLOO TOILETS AND 12 CLASSROOMS AND THE CONSTRUCTION OF MEDIUM ADMIN, 14 CLASSROOMS, 8 ENVIROLOO TOILET SEATS AND 6 SEATER WATERBORNE TOILETS AND EXTERNAL WORKS AT MATIMU SECONDARY SCHOOL IN MOPANI DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 18 MONTHS. LDPWRI- B/20306				
	of Public Works, Roads and Infrastructure website			
	JBLIC WORKS, ROADS & INFRASTRUCTURE.			
Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699. As per Tender invite				
As per Tender invite				
Yes ⊠ No □				
Meeting venue As per Tender invite				
Date As per Tender invite				
Time: As per Tender invite				
Compliance with mandatory or compulsory requirements Risk assessment on current projects Price Preference				
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				
	CLASSROOMS, 20 PIT ENVIROLOO TOILETS A MEDIUM ADMIN, 14 CLASEATER WATERBORNE SECONDARY SCHOOL EDUCATION (LDOE) FO LDPWRI- B/20306 Limpopo Department of DEPARTMENT OF PLOT Physical address: Corresponding to the construction invite. 1. Compliance with 2. Risk assessment 3. Price 4. Preference Only tenderers who are Construction Industry I or higher than a contrawith the sum tendered, 25 (1B) or 25(7A) of the eligible to have their tempriced Bills of Quantities SBD 1. Declaration on the statement of the priced Bills of Quantities SBD 1.			



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

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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.

CONTIN	ACT No. LDPWRI-B/20306
C.2.7	Compulsory site briefing
	A compulsory briefing meeting will be held as per Tender invite
	Failure to attend the site briefing will result in the bidders not being considered for the project
	Tenderers must sign the attendance list in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance list.
C.2.11	Alterations to the documents
	Bidders are required to not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations
C.2.12	Alternative tender offer
	No alternative tender offer is permitted in this tender.
C.2.13.2	Replace sub-clause C.2.13.2 with the following; Return all returnable documents to the employer after completing them in 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 Gra	nding Certificate			
		are required to provide proof of registration with the CIDB register of contractors indicating bry of registration, grading as well as the CRS number of the tenderer.			
	Letter of	Good Standing			
		s are required to submit, bound with the tender submission, a letter of good standing from ensation commissioner indicating that the bidder is in good standing.			
C3.2	Notwithstanding any requests for confirmation of receipt of Addenda issued, the tenderer shall be deemed to have received such addenda if the employer can show proof of transmission thereof (or a notice in respect thereof) via electronic mail, facsimile or registered post.				
C.3.4.1	Tenders v	vill not be opened immediately after the closing time for tenders.			
C.3.11	The tende (i) (ii) (iii) (iv)	erers 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 contractor have simi contractor	nical 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 lar 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 and submit the required SBD document/forms in such cases.			
	grading a	d will only be issued to contractors with valid Tax Clearance certificates, active CIDB and the contractor who meets all the legislative requirement – this shall be verified by SCM at 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 returnable 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.

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

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

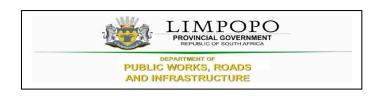
b) N_P is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

REFURBISHMENT AND ADDITIONS AT MATIMU SECONDARY SCHOOL IN MOPANI DISTRICT.

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PART T2: RETURNABLE DOCUMENTS



T2.1: LIST OF RETURNABLE DOCUMENTS

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

A -- MANDATORY REQUIREMENTS

- 2.1 Fully completed Form of Offer (Fully Completed and Signed Form of Offer)
- 2.2 Bills of Quantities (P&Gs are allowed to have a lump sum total in the P&Gs Summary Page and the rest of the Bill of Quantities trades must be completed in full (Rates and Amounts))
- 2.3 Record of Addenda to tender documents (Records of addendum must be captured in full, Whether applicable or not)
- 2.4 Proposed amendments and qualifications (Amendments and qualifications must be captured in full, Whether applicable or not)
- 2.5 Declaration on the status of Administration compliance.
- 2.6 CIDB grading certificate (Valid CIDB Certificate)
- 2.7 Declaration of current projects

B - NON- MANDATORY REQUIREMENTS

- 2.8 SBD 1 (Fully Completed and Signed)
- 2.9 SBD 4 (Fully Completed and Signed)
- 2.10 SBD 6.1 (Failure on the part of a tenderer to claim and submit proof or documentation required in terms of this tender to claim points for specific goals with tender, will be interpreted to mean that preference points for specific goals are not claimed)

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

- 2.10 Full CSD Report
- 2.11 Bidders Tax matters should comply during the award

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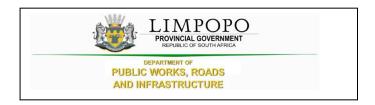
Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, and 2.7 will render their proposal not responsive and will not be considered.

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

C -- SPECIAL NOTES TO BIDDERS AND DEPARTMENTAL RIGHTS

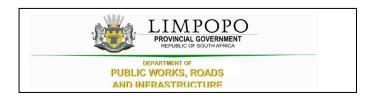
The following special conditions are for compliance and attention to bidders:

- I.1 LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- I.2 LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- I.3 LDPWR&I reserves the right to appoint the bidder that proves to be fully capable and qualifies to handle and execute the job.
- I.4 The proposals submitted must be in line with the detailed specification.
- I.5 LDPWR&I reserve the right to cancel or withdraw this bid if:
- i. Due to changed circumstances, there is no longer a need for these services; or
- ii. Funds are no longer available to cover the total envisaged expenditure; or
- iii. No acceptable bods are received; or
- iv. There is a material irregularity in the Bid process.
- 1.6 In the case of sub-contracting or joint venture agreement, LDPWR&I will enter into a single contract with the principal bidder.
- 1.7 Bidders who are not registered on Central Supplier Database (CSD) must register before submission of bids.
- 1.8 Any completion of the bid document in pencil or erasable ink will not be acceptable and will automatically disqualify the submitted bid.
- 1.9 Successful bidder will be required to sign and enter into a formal contract upon the award.
- 1.10 Not withstanding shortcomings and/or inconsistencies, if any, in this specification, which is only a minimum specification, a bidder shall make provision for a complete solution that will deliver the required service efficiently and cost-effectively.
- 1.11 Bid documents must be submitted physically to the closing address as reflected on the Request for Quotation/Tender.
- 1.12 Quotations 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



T 2.2: RETURNABLE SCHEDULE CHECKLIST

	Document Name	Retur docu	
1.	Fully completed Form of Offer	□Yes	□ No
2.	Priced Bills of Quantities	□Yes	□ No
3.	Record of Addenda to tender documents	□Yes	□ No
4.	Proposed amendments and qualifications	□Yes	□ No
5.	Proof of specific goals for award of the preference points	□Yes	□ No
6.	SBD 1. Invitation to Tender	□Yes	□ No
7.	Sbd4 Declaration Of Interest	□Yes	□ No
8.	SBD 6.1: Reference Points claim form in terms of the Preferential Procurement Regulations 2022 or amended	□Yes	□ No
9.	Declaration on the status of Administration compliance.	□Yes	□ No
10.	Proof of CIDB class grading: 7GB or higher.	□Yes	□ No
11.	Full CSD Report	□Yes	□ No
12.	Original tax clearance certificate or tax pin	□Yes	□ No
13.	Declaration of current projects	□Yes	□ No



Declaration on the status of administrative compliance

Please indicate, by	circling either Yes or No , whethe	r the administrative informati	on submitted with the original
framework tender	documents have changed or no	ot. If yes, kindly provide the	e particulars below with any
supporting docume	ents.		
Signed		Date	
3.9.13		24.0	
		D 18	
Name		Position	
Enterprise			

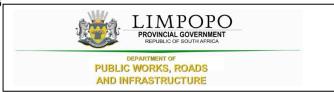
10.



Record of Addenda to tender documents

CONTRACT No. LDPWRI-B/20306		
Attach additional pages if more space is re	quired.	
Signed	Date	
Name	Position	
Tenderer		

CONTRACT No. LDPWRI-B/20306



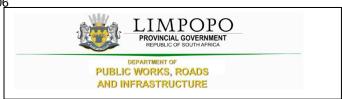
Proposed amendments and qualifications

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		Date	
Signe	u 	Dale	
Name	-	Position	
Tende	erer		

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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								
BID NUMBER:	LDPWRI-B/20306		CLOSING D	OATE	As per Tender Advert	CLOSII	NG TIME:	As per Tender Advert
DESCRIPTION	REFURBISHME						IN MOPANI D	ISTRICT
BID RESPONSE	DOCUMENTS MAY E	BE DEPOSITED IN	THE BID BOX	SITUATED A	T (STREET ADD	RESS)		
	T OF PUBLIC WC							
Physical addre	ess: Corner River	and Blaauwberg	Streets, La	danna, 069	9.			
BIDDING PROCE	EDURE ENQUIRIES N	AY BE DIRECTED	TO					
CONTACT PERS	SON	Mr. NJ Motsopye						
TELEPHONE NU	MBER	0152847126	E-MAIL AI	DDRESS		motsop	yen@dpw.limpop	o.gov.za
CONTACT PERS	ON (TECHNICAL)	Mr. K Modjadji						
TELEPHONE NU	MBER	083 673 5436	E-MAIL AI	DDRESS		Modjad	jiM@dpw.limpopo	o.gov.za
SUPPLIER INFO	RMATION							
NAME OF BIDDE	R							
POSTAL ADDRE	SS							
STREET ADDRE	SS		Г				Γ	
TELEPHONE NU	MBER	CODE			NUMBER			
CELLPHONE NU	MBER							
E-MAIL ADDRES	S							
VAT REGISTRAT		TAV		I	OENTRAL			
SUPPLIER COM	PLIANCE STATUS	TAX COMPLIANCE		OR	CENTRAL SUPPLIER			
		SYSTEM PIN:			DATABASE No	: MAA	4A	
				455.4611	. = 0 = 1 0 1			
REPRESENTA	E ACCREDITED ATIVE IN	-			A FOREIGN UPPLIER FOR	THE	□Yes	□No
SOUTH AFRIC	CA FOR THE	□Yes	□No	GOODS /S	SERVICES /W	ORKS	[IF YES, ANSW	/ER THE
GOODS /SERVICES /WORKS OFFERED?		[IF YES ENCLOSE PROOF] OFFERED?			QUESTIONNAL			
QUESTIONNAIR	E TO BIDDING FORE	IGN SUPPLIERS						
IS THE ENTITY A	A RESIDENT OF THE	REPUBLIC OF SO	UTH AFRICA	(RSA)?				ES NO
` '				_				
	TY HAVE A PERMAN		ENT IN THE F	RSA?				ES NO
	TY HAVE ANY SOUR						_	ES NO
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.								

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."

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

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

SBD 4

DECLARATION OF INTEREST

- 1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes a price quotation, advertised competitive bid, limited bid or proposal). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-
 - the bidder is employed by the state; and/or

Name of person / director / trustee / shareholder/ member:

Name of state institution at which you or the person

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

	such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.
2.	In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
2.1	Full Name of bidder or his or her representative:
2.2	Identity Number:
2.3	Position occupied in the Company (director, trustee, shareholder²):
2.4	Company Registration Number:
2.5	Tax Reference Number:
2.6	VAT Registration Number:
2.6.1 "State"	The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / persal numbers must be indicated in paragraph 3 below. means — (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999); (b) any municipality or municipal entity; (c) provincial legislature; (d) national Assembly or the national Council of provinces; or (e) Parliament.
	nolder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and ses control over the enterprise.
2.7	Are you or any person connected with the bidder presently employed by the state? YES / NO
2.7.1	If so, furnish the following particulars:

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CONTRACT No. LDPWRI-B/20306 connected to the bidder is employed :	
Position occupied in the state institution:	
Any other portionary	
Any other particulars:	
2.7.2 If you are presently employed by the state, did you obtain the appropriate authority to undertake remunerative work outside employment in the public sector?	YES / NO
2.7.2.1 If yes, did you attached proof of such authority to the bid document?	YES / NO
(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.	
2.7.2.2 If no, furnish reasons for non-submission of such proof:	
2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months?	YES / NO
2.8.1 If so, furnish particulars:	
	VEC (NO
2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid?	YES / NO
2.9.1lf so, furnish particulars.	
Are you, or any person connected with the bidder, aware of any relationship (family, friend, other) between	YES/NO
aware or any relationship (lamily, mend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?	
.1If so, furnish particulars.	

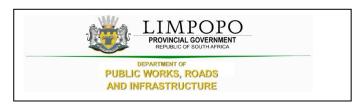
2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

YES/NO

	1					
I, THE UNDERSIGNED (NAME)						
CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT. I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 2 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.						
	FORMATION FURNISI TATE MAY REJECT T	FORMATION FURNISHED IN PARAGRAPHS 2 and 3 STATE MAY REJECT THE BID OR ACT AGAINST ME				

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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.

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).

FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES 3.

POINTS AWARDED FOR PRICE 3.1.

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 90/10 or

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

Where

Ps Points scored for price of tender under consideration

Pt Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. POINTS AWARDED FOR PRICE

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

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

Where

4.3.

Pmax =

Ps Points scored for price of tender under consideration

Pt Price of tender under consideration Price of highest acceptable tender

POINTS AWARDED FOR SPECIFIC GOALS 4.

- 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-
 - (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.)

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

DECLARATION WITH REGARD TO COMPANY/FIRM

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

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:

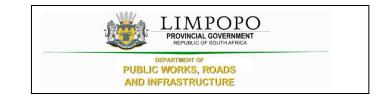
i) The information furnished is true and correct;

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- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

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



DECLARATION OF CURRENT PROJECTS

Current value refers to current value of projects for both General Building (GB) and Civil Engineering (CE).

Please list the current projects which your company is busy executing in the table below.

If no projects at the moment the 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:

REFURBISHMENT AND ADDITIONS AT MATIMU SECONDARY SCHOOL IN 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)

Rand (in words); R
in figures) R
This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the ender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract dentified in the contract data.
Signature(s)
Name(s)
Capacity
For the tenderer:
Name & signature of witness

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 and Name of Witness				
Signature				
Name				
Capacity				

Schedule of Deviations

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



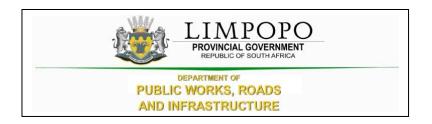
C2.1 CONTRACT DATA

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

Item No			Quantity	Rate	Amount
	<u>SE</u>	ECTION NO. 1			
	BII	LL NO. 1			
	PR	RELIMINARIES			
	<u>NO</u>	DTE			
	i)	The agreement is to be the JBCC Series 2000 Principal Building Agreement (Edition 4.1) prepared by the Joint Building Contracts Committee, March 2005			
	ii)	The preliminaries are to be the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, March 2005 edition and shall be deemed to be incorporated herein			
	iv)	Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading			
	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			
	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			
	PRI Bill PRI	Carried Forward ction No. 1 ELIMINARIES No. 1 ELIMINARIES		R	
	CLI	USTER G			

	Brought Forward	R	
	vii) Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"		
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT		
	Definitions (A1)		
1	Definitions and interpretation (clause 1)		
	Clause 1.1 Definition of "Agreement" is amended by replacing it with the following:		
	Agreement means the agreement arising from the signing of the Form of Offer and Acceptance by the parties.		
	Clause 1.1 Definition of "Bills of Quantities" is amended by adding the following:		
	"and the Pricing Instructions contained in the Pricing Data" after the word measuring system.		
	Clause 1.1 Definition of "Contract Documents" is amended by adding the following:		
	"this Agreement and all other documents referenced therein" after the word this document		
	Clause 1.1 Definition of "Contract Drawings" is amended by replacing it with the following:		
	Contract Drawings means the drawings upon which the tender was accepted and used in preparing the bills of quantities and are available for viewing at the offices of the Principal Agent at the time of tender		
	Clause 1.1 Definition of "Contract Sum" is amended by replacing it with the following:		
	Contract Sum means the total of prices in the Form of Offer and Acceptance.		
	Carried Forward	R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		

Brought Forward	R	
Clause 1.1 Definition of " Schedule" is amended by adding the following:		
"and in the Contract Data" . at the end on the sentence ending with agreement		
Clause 1.1 Definition of "Commencement Date" is added:		
"Commencement date" means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect		
Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:		
"Construction guarantee" means guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule		
Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:		
"Construction period" means the period commencing on the commencement date and ending on the date of practical completion		
Clause 1.1 Definition of "Corrupt Practice" is added:		
"Corrupt Practice" means the offering , giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution		
Clause 1.1 Definition of "Fraudulent Practice" is added:		
"Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open		
Comind Forward		_
Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G	R	

	Brought Forward		R	
,	competition.			
	Clause 1.1 Definition of " Interest " is amended by replacing it with the following:			
	"Interest" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).			
	Clause 1.1 Definition of " Principal Agent " is amended by replacing it with the following:			
	"Principal Agent" means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule.			
	Clause 1.1 Definition of " Security " is amended by replacing it with the following:			
	Security" means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss			
	1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:			
	1.6.4 No clause			
	Fixed	Item		
	Value Related	Item		
	Carried Forward		R	_
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G			

	Brought Forward		R	
	Time Related	Item		
	Objective and Preparation (A2 - A14)			
2	Offer, acceptance and performance (clause 2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
3	Documents (clause 3)			
	Clause 3.2.1 is amended by replacing "14.1" with "14.0"			
	Clause 3.7 is amended by the addition of the following:			
	The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times.			
	Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
4	Design responsibility (clause 4)			
	Contractor is permitted to design the prefabricated building to the satisfaction or written approval from the client			
	Fixed	Item		
	Value Related	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G			

	Brought Forward		R	
	Time Related	Item		
5	Employer's agents (clause 5) Fixed			
	i ixeu	Item		
	Value Related	Item		
	Time Related	Item		
6	Contractor's site representative (clause 6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
7	Compliance with laws and regulations (clause 7)			
	Note: A separate clause has been included in Section C: Specific Preliminaries of the bills of quantities for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
8	Works risk (clause 8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

	Brought Forward		R	
9	Indemnities (clause 9)			
	Clause 9.0 is amended by adding Clause 9.1.4: The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgments (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor , but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or by installments or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the			
	employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party. Fixed Value Related	ltem Item		
	Time Related	Item		
10	Works insurances (clause 10) Clause 10.0 is amended by the addition of the following clauses 10.5 Damage to the Works (a) Without in any way limiting the contractor's obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

Ī	Brought Forward	R	
	employer against any such damage. The contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary		
	The contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works		
	The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6		
	Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof		
	10.6 Injury to Persons or loss of or damage to Properties		
	The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable		
	The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site , whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any		
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	act or neglect of any person for whose actions the employer is legally liable		
c)	The contractor shall, upon receiving a contract instruction from the principal agent , cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor		
(0	The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion		
(€	Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall ogtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed		
(f	The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works		
1	0.7 High risk insurance		
g a c m	the event of the project being executed in a eological area classified as a "High Risk Area", that is a area which is subject to highly unstable subsurface onditions that might result in catastrophic ground sovement evident by sinkhole or doline formation the ollowing will apply:		
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10.7.1 Damage to the works		
The contractor shall, from the commencement date of the works until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary		
When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs.		
10.7.2 Injury to persons or loss of or damage to property		
The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above		
The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site , whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract		
10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the		
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contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works , submit to the employer proof of such insurance policy, if requested to do so				
10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole				
Fixed	Item			
Value Related	Item			
Time Related	Item			
Liability insurances (clause 11)				
Fixed	Item			
Value Related	Item			
Time Related	Item			
Effecting insurances (clause 12)				
Fixed	Item			
Value Related	Item			
Time Related	Item			
No clause (clause 13)	Item			
Security (clause 14)				
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	contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole Fixed Value Related Liability insurances (clause 11) Fixed Value Related Effecting insurances (clause 12) Fixed Value Related Time Related Time Related No clause (clause 13) Security (clause 14) Carried Forward Section No. 1 PRELIMINARIES	contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole Fixed Item Value Related Item Liability insurances (clause 11) Fixed Item Value Related Item Time Related Item Time Related Item Time Related Item Time Related Item No clause (clause 13) Item Security (clause 13) Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES	contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1, 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible Whole Fixed Item Value Related Item Time Related Item Time Related Item Time Related Item Time Related Item Value Related Item Time Related Item Time Related Item Time Related Item Value Related Item Time Related Item Value Related Item Prized Item Value Related Item Value Related Item Prized Item Value Related Item Related Item Prized Item Value Related Item Related Item Prized Item Prized Item Prized Item Prized Item Prized Item Related Item Prized Item	contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so 10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole Fixed Item Value Related Item Liability insurances (clause 11) Fixed Item Value Related Item Time Related Item Time Related Item Value Related Item Time Related Item Value Related Item Time Related Item No clause (clause 13) Item Security (clause 13) Carried Forward R Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES

14.0 Replace the entire clause 14.0 with the following:				
The replace the characteristic man the removing.				
14.0 Security				
14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT)				
14.1.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 31.8(A)				
14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor				
14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule . Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date . Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date , the security in terms of 14.7 shall be deemed to have been selected.				
14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:				
14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date .				
14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer				
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THE THE TAX TO THE TAX	14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected. 14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date. 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES	14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date. Should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected. 14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date. 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer	14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected: 14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date. 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer Carried Forward R PRELIMINARIES	14.1 In respect of contracts with a contract sum up to R1 million, the security to be provided by the contractor to the employer will be a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) 14.1.1 The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A) 14.1.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the contractor 14.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with he selected security within twenty-one (21) calendar days from commencement date, the security in terms of 14.7 shall be deemed to have been selected. 14.3 Where the security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected: 14.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date. 14.3.2 Within twenty-one (21) calendar days for commencement date. 14.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer

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shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor.		
14.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor .		
14.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.		
14.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor .		
14.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party.		
14.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:		
14.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date		
14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender		
14.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring		
14.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer		
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shall issue a written demand in terms of the variable construction guarantee		
14.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:		
14.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT)		
14.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion		
14.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring		
14.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of 31.8(A) and 34.8		
14.5.5 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both		
14.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected:		
14.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date		
14.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor		
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14.6	The payment reduction of the value certified in a payment certificate shall be mutatis mutandi in terms of 31.8(A)			
14.6	3.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both			
14.7	Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected:			
pay	7.1 The payment reduction of the value certified in a ment certificate shall be <i>mutatis mutandi</i> in terms 1.8(B)			
expe of 33 prov entit refu	2.2 The employer shall be entitled to recover ense and loss from the payment reduction in terms 3.0 provided that the employer complies with the risions of 33.4 in which event the employer's lement shall take precedence over his obligations to and the payment reduction or portions thereof to the tractor			
in te	Payments made by the guarantor to the employer rms of the fixed or variable construction rantee shall not prejudice the rights of the employer contractor in terms of this agreement			
in te and char that valu	Should the contractor fail to furnish the security rms of 14.2 the employer , in his sole discretion, without notification to the contractor , is entitled to age the contractor 's selected form of security to of a ten per cent (10%) payment reduction of the e certified in the payment certificate (excluding), where after 14.7 shall be applicable			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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ļ	Execution (A15 - A23)			
15	Preparation for and execution of the works (clause 15)			
	Clause 15.1.1 is amended by replacing it with:			
	No clause			
	Clause 15.1.2 is amended by replacing it with:			
	The security selected in terms of 14.0			
	Clause 15.1 is amended by the addition of the following clause:			
	15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993) or latest edition, revision and ammendments, within twenty-one (21) calendar days of commencement date			
	Clause 15.2.1 is amended by replacing it with the following clause:			
	Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 15.1.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
16	Access to the works (clause 16)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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17	Contract instructions (clause 17)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
18	Setting out of the works (clause 18)			
	The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments			
	The contractor shall perform tolerance control checks regularly throughout the contract period and report on this at regular interval to the Principal Agent in the approved format. Should the contractor fail to comply with this requirement to the satisfaction of the the Principal Agent, progressively as the structure is being constructed, the Employer will commission a Registered Land Surveyor to do so on the Contractor's behalf and at the Contractor's Expense.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
19	Assignment (clause 19)	Item		
	Value Related	Item		
	Time Related	Item		
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20	Nominated sub-contractors (clause 20)			
	Clause 20.0			
	Clause 20.1.3 is amended by replacing it with the following:			
	No Clause			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
21	Selected sub-contractors (clause 21)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
22	Employer's direct contractors (clause 22)			
	The Contractor shall allow the direct contractors and employers agents access to the work, allocate reasonable space in the building for storage of their materials, tools and equipment, all to the satisfaction of the Principal Agent. The contractor shall also allow the direct contractors, etc. free of charge, use of their ablution facilities and water and power supply to the and shall in no way hinder or prevent the execution of their works. Attendance may be priced against the relevant specified items in the bills of quantities.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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23	Contractor's domestic sub-contractors (Clause 23)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	COMPLETION			
	Completion (A24-A30)			
24	Practical completion (clause 24)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
25	Works completion (clause 25)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
26	Final completion (clause 26)			
	Fixed	Item		
	Value Related	Item		
		Item		
07	Time Related	item		
27	Latent defects liability period (clause 27) Fixed	Item		
	Value Related			
	Value Related	Item		
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	Time Related	Item	
Sectional	al completion (clause 28)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
Revision	n of date of practical completion (clause 29)		
	29.1.1 shall be deemed to be omitted and I by the following:		
excess of each cal recorded	nt weather shall be defined as weather in of the average rainfall (volume and period) for lender month over the past ten (10) years as d by the nearest commonly recognised weather n the region of the project		
allowed expense	be deemed that the contractor has adequately in his programme and tendered rates for es which might result from delays due to average a rainfall as described above		
Д	dd Clause 29.9 as follows:		
s C	Revision to the date for practical completion hall only be considered when work on the ritical path of the agreed programme for the vorks is delayed."		
Add Cla	ause 29.10 as follows:		
Clause	29.10 - Acceleration		
lr rı e p n	clause 29.10.1 respective of whether or not the principal agent ules that the contractor is entitled to an xtension of time or a revision of the date for iractical completion , the principal agent shall evertheless, at any time, be entitled to instruct the contractor in writing to accelerate the		
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	progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be.			
	Clause 29.10.2 Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The contractor shall prove that such steps are being taken if called upon to do so.			
	Clause 29.10.3 The contractor's entitlement to compensation arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor to accelerate, shall be adjudicated strictly in terms of clause 32.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
30	Penalty for non-completion (clause 30)			
	Clause 30 is amended by replacing reference to 36.3 at end of sentence with 36.0			
	The penalty per calender day shall be calculated at 0.05% of contract sum excluding contingency allowance and CPAP			
	Fixed	Item		
	Value Related	Item		
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	Brought Forward		R	
	Time Related	Item		
	Payment (A31 - A35)			
31	31.5.2 Security adjustments in terms of 14.0 or 31.8			
	31.8 Amend as follows:			
	31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and of the materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:			
	31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion			
	31.8.(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion			
	31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6			
	31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the employer . In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate .			
	31.8(B) Where security is a payment reduction in term of 14.7 has been selected the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:			
	31.8(B).1 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion			<u> </u>
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9	31.8(B).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of practical completion and up to but excluding the date of final completion			
	31.8(B).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of final completion and up to but excluding the final payment certificate in terms of 34.6			
	31.8(B).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except were the amount certified is in favour of the employer . In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate			
	Clause 31.9 is amended by replacing "seven (7) calender days" with "thirty (30) calender days" and by deleting the words "subject to the contractor giving the employer a tax invoice for the amount due			
	31.12 Delete the following: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
32	Adjustment to the contract value (clause 32)			
	Clause 32.0			
	Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:			
	"due to no fault of the contractor "			
	Fixed	Item		
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	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
33	Recovery of expense and loss (clause 33)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
34	Final account and final payment (clause 34)			
	Clause 34.0			
	Clause 34.2 is amended by inserting # next to 34.2			
	Clause 34.8 is amended by replacing with "The principal agent shall certify one hundred per cent (100%) of the amount of the final account in the final payment certificate.			
	Clause 34.13 is amended by replacing "seven (7) calendar days" with "thirty (30) calendar days" and deleting the words "subject to the employer giving the contractor a tax invoice for the amount due"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
35	Payment to other parties (clause 35)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	Cancellation (A36-A39)			
36	Cancellation by employer - contractor's default (clause 36)			
	Clause 36.1 is amended by the additions of the following clauses:			
	36.1.3 refuses or neglects to comply strictly with any of the conditions of contract			
	36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa			
	36.1.5 in the judgement of the employer , has engaged in corrupt or fraudulent practices in competing for or in executing the contract			
	Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "principal agent" with "employer"			
	Clause 36.0 is amended by the addition of the following clause:			
	Clause 36.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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37	Cancellation by employer - loss and damage (clause 37)			
	Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"			
	Clause 37.0 is amended by the addition of the following clause:			
	37.5 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
38	Cancellation by contractor - employer's default (clause 38)			
	Clause 38.5.4 is amended by replacing "ninety (90) with "one-hundred and twenty (120)"			
	Clause 38.0 is amended by the addition of the following clause:			
	Clause 38.7 Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor ; or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a date stated and withdraw himself from the site . The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever			
	Fixed	Item		
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	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
39	Cancellation - cessation of the works (clause 39)			
	Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one-hundred and twenty (120) working days of completion of such report"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Dispute Settlement (A40)			
40	Disputes Settlement (clause 40)			
	Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"			
	Clause 40.6 is amended by removing the reference to:			
	No clause			
	Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:			
	Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the mediator and related costs.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	State Provision (A41)			
41	State Substitutions (clause 41)			
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Delete in the Substitute Provisions (41.0 State Clauses) clauses 40.2.1, 40.2.2, 40.3, 40.4, 40.5 and 40.6 and replace with the following:		
40.1 Should any dispute between the employer , his agents or principal agent on the one hand and the contractors on the other arise out of this agreement , such dispute shall be referred to adjudication.		
40.2 Adjudication shall be conducted in accordance with the edition of the JBCC Rules for Adjudication current at the time when the dispute is declared. The party, which raises the dispute, shall select three adjudicators from the panel of adjudicators published by the South African Institution of Civil Engineering or Association of Arbitrators (Southern Africa), determine their hourly fees and confirm that these adjudicators are available to adjudicate the dispute in question. The other party shall then select within 7 days one of the three nominated adjudicators, failing which the chairman for the time being of the Association of Arbitrators (Southern Africa) shall nominate an adjudicator. The adjudicator shall be appointed in terms of the Adjudicators Agreement set out in C1.4.		
40.3 If provided in the schedule , a dispute shall be finally settled by a single Arbitrator to be agreed on between the parties or, failing such agreement within 28 days after referring the dispute to Arbitration, an Arbitrator nominated by the chairman for the time being of the Association of Arbitrators (Southern Africa). Any such reference shall be deemed to be a submission to the arbitration of a single arbitrator in terms of the Arbitration Act (Act No 42 of 1965, as amended), or any legislation passed in substitution therefore. In the absence of any other agreed procedure, the arbitration shall take place in accordance with the Rules for the Conduct of Arbitrations issued		
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	by the Association of Arbitrators (Southern Africa) which are current at the time of the referral to arbitration. The Arbitrator shall, in his award, set out the facts and the provisions of the contract on which his award is based.			
	40.4 If the schedule provides for court proceedings to finally resolve disputes, disputes shall be determined by court proceedings.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Contract Variables (A41)			
42	The Schedule (clause 42)			
	Tenderers are referred to the Contract Data and Notes to Tenderes for variable pertaining to this contract			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	SECTION B: PRELIMINARIES			
	Definition and interpretation (B1)			
43	Definition and interpretation			
	See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section			
	Fixed	Item		
	Value Related	Item		
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	Time Related	Item		
	Documents (B2)			
44	Checking of documents (B2.1)			
	These bills of quantities:			
	(1) contain pages and annexes as indexed, and;			
	(2) are in multiple procurement format, i.e. all trades are fully measured with minor budgetary allowances			
	Items in these bills of quantities are to be read and priced in conjunction with and the descriptions regarded as amplified by the Model Preambles for Trades, 2008 edition, as recommended and published by the Association of South African Quantity Surveyors and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
45	Provisional bills of quantities (B2.2) Yes			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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46	Availability of construction documentation (B2.3)			
	The minor budgetary allowances included in this document will be separately procured, based on multiple procurement of selected sub-contractors during the construction period			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
47	Interests of agents (B2.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
48	Priced documents (B2.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
49	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause tenders shall be valid for a period of ninety (90) days from the closing date of tenders			
	Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance C1.1"			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	The site (B3)			
50	Defined works area (B3.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
51	Geotechnical investigation (B3.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
52	Inspection of the site (B3.3)			
	Tenderers are instructed to familiarise themself before submission of their tender with regard to the relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining thereto, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.			
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
53	Existing premises occupied (B3.4)			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
54	Previous work - dimensional accuracy (B3.5)			
	Work executed under a previous contract and the extent thereof will be pointed out to the contractor by the principal agent on handing over of the site			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
55	Previous work - defects (B3.6)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
56	Services - known (B3.7)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
57	Services - unknown (B3.8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
58	Protection of trees, etc (B3.9)			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
59	Articles of value (B3.10)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
60	Inspection of adjoining properties, etc (B3.11)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Management of contract (B4)			
61	Management of the works (B4.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
62	Programming for the works (B4.2)			
	Clause B4.2 is hereby amended by the addition of the following:			
	Programme:			
	The contractor and the principal agent shall agree to a Contract Programme for the control of the Works.			
	The contractor shall submit a draft of the Contract Programme and method statement to the principal agent for approval together with the tender.			
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The contractor shall ensure that the contract programme:		
Shall be prepared and drawn up to comply in all respects with the requirements of this		
Agreement. 2. shall be drawn up using logic developed during the tender period and complies with the		
planning requirements of the Client. 3. shall be in accordance with the dates given herein for possession and practical completion;		
and 4. shall be in sufficient and approved detail to ensure effective control of the work, including all items necessary to enable calculations to be		
made for the distribution of finance during the cashflow analysis. 5. shall be accompanied by a full written method statement		
The principal agent shall examine and comment on the contract programme and method statement within two weeks of its submission.		
Following on these comments the contractor shall amend the contract programme and method statement as may be necessary and submit the final contract programme and method statement to the principal agent for approval within a further two weeks thereafter.		
The contract programme shall be processed by computer and be presented to the principal agent in the form of logic charts and bar charts in such a way as to determine the critical path and the float on non-critical activities. All supporting printouts must be available to the principal agent on demand.		
The acceptance by the principal agent of the contract programme, or any revision thereof, does not necessarily sanction the accuracy of validity of the network logic, the correctness of individual activities in terms of description or duration, the comprehensiveness of networks or the discrepancies between drawings and any other documents presented by the contractor, and in no way relieves the responsibility of the contractor to comply with the requirements of the Agreement.		
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No policy decisions other than the planning requirements, procedures and policies provided, will be enforced on the contractor regarding construction of the project and the contractor shall be responsible at all times for ensuring the accuracy, validity and reasonableness of programming information.		
Documentation will not be available in complete detail at the date of award of the contract. Non-availability of information will not be deemed an excuse for non-presentation of programmes. In the event of inadequate information, the contractor shall estimate the predicted time applications on available information and quality the submission accordingly.		
Development of the contract programme and method statement		
Within two weeks of award of the contract, the contractor shall submit an updated contract programme and written method statement which shall include the latest information in sufficient detail to permit comprehensive monitoring.		
Progress of the works will be monitored by the principal agent. The contractor shall liaise with the principal agent in order to provide whatever information is required to facilitate such monitoring.		
Revisions to the contract programme		
Revisions to the contract programme may be introduced periodically by the contractor subject to compliance with the contract completion and handover dates.		
Providing the required consultation between the relevant parties has highlighted the implications of the required changes, the programming strategy on the project may be changed and the changes noted and specified on logic charts delivered to the principal agent. The changes to the programme will be recorded as firm and binding once the principal agent has sanctioned the said changes.		
A revision to the programme will not invalidate the contractual completion dates and applications for		
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extensions of time will be processed by the principal agent in accordance with the conditions of contract.			
Should the contractor fail to submit a request for revision to the construction programme, progress monitoring shall be based on the latest revised programme sanctioned by the principal agent.			
The contractor shall make all his necessary revisions on the approved network sheets clearly marking, inter-alia, the logic changes and duration changes. These will then be processed by the necessary parties and then approved in the normal manner.			
Progress Monitoring			
The contractor shall provide regular progress reports showing actual and expected progress against the latest contract programme. Progress reports shall be submitted at each site progress meeting and shall outline the progress against key target dates and deviation which has occurred against the most recently updated control programme due to the progress reflected in the as-built construction programme.			
The status of each activity must also be reported as follows:			
Target - If the activity is not complete, the latest predicted completion date shall be supplied.			
Start - If the activity has commenced, the actual date shall be supplied.			
Finish - If the activity is complete, the actual completion date shall be supplied.			
Problems which may occur during execution of the contract must be specifically identified in progress reports under a separate section of the contractor's report.			
Should problems occur during the execution of the contract or the scope of work be increased or decreased, the contractor may be requested to increase			
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ļ	the extent or the detail of the programme.		
	The principal agent may recommend action to be taken by the contractor, including the revision of resource levels, but this information will not be binding on the contractor unless the recommendations are enforced in terms of the conditions of contract by the principal agent and will in no way relieve the contractor's responsibility to comply with the requirements of the Agreement.		
	Extension of time		
	Any extension of time which is granted by the principal agent will be annotated to affect selected activities in the programme and the associated activities will be incorporated by revisions to the programme by the contractor. Should the additional activities or the extension of time on existing activities fall on a non-critical area of the programme, extension will be limited to the activities affected by the said additional activities or extensions and the contract dates shall not be affected. If, however, the additional activities fall on the critical path, the principal agent shall take this into account when granting any extension of time in terms of the conditions of contract.		
	The contractor agrees that the contract completion date (i.e. the date for practical completion) has been stipulated in the contract for the benefit of the employer, so that, without derogating from the generality of the aforegoing principle it is provide that:		
	 The contractor shall not be entitled to deliver the site and the works to the employer prior to the contract completion date and 		
	 Should there for any reason be any float period indicated in the contract programme prior to the contractual completion date then this float period shall be utilized to absorb any delays or extensions of time without affecting the contract completion date. 		
	3. The contractor shall, at all times, ensure that, notwithstanding the approval or sanctioning, reviewing or inspection of a programme or any		
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	revision of a programme by the principal agent in the aforegoing terms, practical completion and completion of the works shall take place strictly in accordance with this Agreement.			
	A defective or faulty programme, even if so sanctioned, approved, reviewed or inspected by the principal agent, shall therefore not constitute a cause for granting an extension of time for completion of the works or for entitling the contractor to the payment by the employer in terms of the contract of any loss, compensation or damage whatsoever.			
	The contractor acknowledges that the principal agent's aforegoing participation in the approval of development of, revisions to and updating of the Contract Programme shall take place in consultation with the principal agent. The contractor shall therefore provide the principal agent with such co-operation and/or information and/or access as they may reasonably require for such purposes.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
63	Progress meetings (B4.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
64	Technical meetings (B4.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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65	Labour and plant records (B4.5)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Samples, shop drawings and manufacturer's instructions (B5)			
66	Samples of materials (B5.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
67	Workmanship samples (B5.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
68	Shop drawings (B5.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
69	Compliance with manufacturer's instructions (B5.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	Temporary works and plant (B6)		
70	Deposits and fees (B6.1)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
71	Enclosure of the works (B6.2)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
72	Advertising (B6.3)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
73	Plant, equipment, sheds and offices (B6.4)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
74	Main notice board (B6.5)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
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75	Subcontractors notice board (B6.6)			
	Fixed	d Item		
	Value Related	d Item		
	Time Related	d Item		
	Temporary services (B7)			
76	Location (B7.1)			
	Fixed	d Item		
	Value Related	d Item		
	Time Related	d Item		
77	Water (B7.2)			
	Fixed	d Item		
	Value Related	d Item		
	Time Related	d Item		
78	Electricity (B7.3)			
	Fixed	d Item		
	Value Related	d Item		
	Time Related	d Item		
79	Telecommunication facilities (B7.4)			
	Fixed	d Item		
	Value Related	d Item		
	Time Related	d Item		
	Carried Forwa	rd	R	
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80	Ablution facilities (B7.5)			
	Fixed	Item		
	Value Related	Item		
81	Time Related	Item		
	Prime cost amounts (B8)			
82	Responsibility for prime cost amounts (B8.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Attendance on nominated and selected subcontractors (B9)			
83	General attendance (B9.1)			
	The schedule rates providing for attendance on nominated subcontractors and other contractors, will be adjusted only if the scope of the work has changed Fixed	Item		
	Value Related	Item		
	Time Related	Item		
84	Special attendance (B9.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
85	Commissioning - Fuel, water and electricity (B9.3)			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
	Financial aspects (B10)			
86	Statutory taxes, duties and levies (B10.1)			
	Provision is made in the summary of these bills of quantities for the inclusion of Value Added Tax (VAT)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
87	Payment of preliminaries (B10.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
88	Adjustment of preliminaries (B10.3)			
	Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site " with "when submitting his priced bills of quantities "			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
89	Payment certificate cash flow (B10.4)			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
	General (B11)			
90	Protection of works (B11.1)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
91	Protection/isolation of existing/sectionally occupied works(B11.2)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
92	Site security (B11.3)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
93	Notice before covering work (B11.4)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
94	Disturbance (B11.5)			
	Fixed	Item		
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	Value Related	Item		
	Time Related	Item		
95	Enviromental disturbance (B11.6)			
	Fixed	Item		
	Time Related	Item		
	Value Related	Item		
96	Works cleaning and clearing (B11.7)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
97	Vermin (B11.8)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
98	Overhand work (B11.9)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
99	Instruction manuals and guarantees (B11.10)			
	Fixed	Item		
	Value Related	Item		
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	Time Related	Item		
100	As built information (B11.11)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
101	Tenant installations (B11.12)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Schedule of variables (B12)			
102	Pre-tender information (B12.1)			
	This schedule contains all variables referred to in this document and is divided into pretender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries .			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	12.1.1 Provisional bills of quantities (B12.1.1)			
	The quantities are provisional: Yes			
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12.1.2	Availability of construction documentation (B12.1.2)		
	Construction documentation is complete: Yes		
12.1.3	Interest of agents (B12.1.3) No		
12.1.4	Defined works area (B12.1.4)		
	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 on handing over of the site		
12.1.5	Geotechnical investigation (B12.1.5)		
	eotechnical report is available for viewing at the of the Principal Agent		
	No No		
12.1.6	Existing premises occupied (B12.1.6)		
[3.4] little	Specific requirements: The contractor shall execute the works with as noise and disturbance as possible		
12.1.6	Existing premises occupied		
[3.4] little	Specific requirements: The contractor shall execute the works with as noise and disturbance as possible		
12.1.7 [3.5]	Previous work - Dimensional accuracy (B12.1.7) Details: No additional details		
	No		
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12.1	8 Previous work - defects		
[3.6}	Details: No additional details		
12.1	9 Services - known (B12.1.9)		
	Existing services and points of connection are shown on the site plan and/or will be pointed out on site by the principal agent		
12.1	10 Protection of trees		
[3.9]	No trees to be damaged or removed except		
those	specifically designated in writing by the Architect		
12.1	11 Inspection of adjoining properties		
[3.11	J Specific requirements:None		
12.1	12 Enclosure of the works		
[6.2}	Areas where work is taking place shall at all		
12.1	13 Offices		
[6.4.	3) Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.		
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12.1.14	Main notice board		
[6.5]	Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board size 3 x 3m constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.		
12.1.15	Subcontractors' notice board		
[6.6] NO	A notice board is required (yes/no)		
	Specific requirements:		
12.1.16	Water		
[7.2] YES	Option A (by contractor) (yes/no)		
12.1.17	Electricity		
[7.3] YES	Option A (by contractor) (yes/no)		
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		Brought Forward	F
12.1.1	8 Telecommunications		
[7.4] YES	Telephone	(yes/no)	
YES	Facsimile	(yes/no)	
YES	E-mail	(yes/no)	
12.1.1	9 Ablution facilities		
<i>[7.5</i> } YES	Option A (by contractor)	(yes/no)	
NO	Option B (by employer)	(yes/no)	
12.1.2 works	0 Protection of existing/sec	ctionally occupied	
[11.2] YES	Protection is required	(yes/no)	
12.1.2	1 Special attendance		
allowa require	The contractor must obtain subcontractors at tender st attendance that might be rence for each and every es special attendance	age regarding special equired and make subcontract that	
[9.2]	Subcontractor (1) Details:		
	Subcontractor (2) Details:		
	Subcontractor (3) Details:		
PRELI Bill No PRELI	n No. 1 IMINARIES o. 1 IMINARIES TER G	Carried Forward	R

			Brought Forward		R	Ī
	12.1.22 Prot	ection of the works	S			
		eific requirements: ork that requires pro must be adequat completion by the	ely protected up to			
	12.1.23 <i>Dist</i>	urbance				
	The etc w dust comp temp	vell watered during o and shall provide an Detion of the works	ep the site, structures, perations to prevent d erect and remove on all necessary all to the satisfaction of			
	12.1.24 <i>Envi</i>	ronmental disturba	nce			
	[11.6] Spec None	eific requirements:				
103	Post-tender i	nformation (B12.2)				
		der information for once tender is awa	this section will be rded			
			Fixed	Item		
			Value Related	Item		
			Time Related	Item		
	12.2.1 Payr	nent of preliminarie	es			
	[10.2] Option	on A (prorated)	(yes/no)			
	Optic NO	on B (calculated)	(yes/no)			
	Section No. PRELIMINAF Bill No. 1 PRELIMINAF CLUSTER G	RIES	Carried Forward		R	

	ljustment of preliminaries tion A (three categories)	(yes/no)			
		(yes/110)			
NO Opt	tion B (detailed breakdown)	(yes/no)			
12.2.3 <i>Ad</i>	lditional agreed preliminaries	items			
Det No	tails: ne				
Other post	tender infornation (B12.3)				
	ender information for this sec d once tender is awarded	tion will be			
		Fixed	Item		
		Value Related	Item		
		Time Related	Item		
SECTION	C: SPECIFIC PRELIMINAL	RIES			
apply to this					
Clause C1	- Contract drawings				
comprise the tendering p work to ena nature and	ne complete set but serve as a purposes and for indicating the able the tenderer to acquaint hi extent of the works and the m	guide only for scope of the mself with the			
understood submitting I	l by the the tenderer he shall, b his tender, obtain clarification i	efore			
		Fixed	Item		
PRELIMINA Bill No. 1 PRELIMINA	. 1 ARIES ARIES	carried Forward		R	
aa C Totewnth Susth	pply to this ppears age clause C1 The drawin omprise the endering proof to end ature and ney are to should any inderstood ubmitting the principal ection No RELIMINA CHELIMINA TERELIMINA T	pply to this contract except where N/A (Neppears against an item Clause C1 - Contract drawings The drawings issued with the tender docustomorphise the complete set but serve as a rendering purposes and for indicating the work to enable the tenderer to acquaint his ature and extent of the works and the maney are to be executed Should any part of the drawings not be claused and the expectation of the tenderer has shall, but the bubmitting his tender, obtain clarification in the principal agent The ection No. 1 The execution No. 1	pply to this contract except where N/A (Not Applicable) ppears against an item Clause C1 - Contract drawings The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for endering purposes and for indicating the scope of the vork to enable the tenderer to acquaint himself with the ature and extent of the works and the manner in which ney are to be executed Chould any part of the drawings not be clearly inderstood by the the tenderer he shall, before ubmitting his tender, obtain clarification in writing from the principal agent Carried Forward Section No. 1 RELIMINARIES III No. 1 RELIMINARIES	pply to this contract except where N/Å (Not Applicable) ppears against an item Clause C1 - Contract drawings The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for condering purposes and for indicating the scope of the vork to enable the tenderer to acquaint himself with the ature and extent of the works and the manner in which the extension of the drawings not be clearly inderstood by the the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent Carried Forward Carried Forward RELIMINARIES ill No. 1 RELIMINARIES	pply to this contract except where N/A (Not Applicable) ppears against an item Clause C1 - Contract drawings The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for rendering purposes and for indicating the scope of the vork to enable the tenderer to acquaint himself with the ature and extent of the works and the manner in which nev are to be executed Chould any part of the drawings not be clearly inderstood by the the tenderer he shall, before ubmitting his tender, obtain clarification in writing from the principal agent Carried Forward RELIMINARIES ill No. 1

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
106	Clause C2 - General Preambles			
	The "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the trades is deemed to be included herein and shall be read in conjuction with the bills of quantities and be referred to for the full decriptions of work to be done and materials to be used.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
107	Clause C3 - Site instructions			
	All site instructions issued on site shall be recorded in writing within seven (7) calendar days in site instruction book (A4 size and triplicate carbon format), which is to be provided and maintained by the contractor. The said site instruction book shall be kept on site at all times for the exclusive use of recording site instructions only			
	Site instructions may be issued by the architect or any of the consultants only. Copies of the site instructions are to be submitted to the architect and quantity surveyor within seven (7) calendar days of such recording in the site instruction book			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES BIII No. 1 PRELIMINARIES CLUSTER G		R	

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108	Clause C4 - Trade Names			
	Wherever a trade name for any product has been described in the bills of quantities , the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders			
	If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
109	Clause C5 - 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 authorized and indicated in writing, prior to the execution thereof, that costs for such overtime will to be borne by the employer			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
110	Clause C6 - 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			
	Fixed	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
	PRELIMINARIES CLUSTER G			

	Brought Forward		R	
	Value Related	Item		
	Time Related	Item		
111	Clause C5 - Labour record			
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
112	Clause C6 - Plant record			
	At the end of each calendar week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
113	Clause C7 - Cession of monies			
	The contractor may cede his rights or claims to any monies due or to become due to him under this contract with written approval from the employer			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES BIII No. 1 PRELIMINARIES CLUSTER G		R	

Brought Forward	R	
Clause C8 - Occupational Health and Safety Act		
The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993), as well as all new occupational health and safety acts requirement regarding the compliance of Covid 19		
It is required of the contractor to thoroughly study the latest Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.		
The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total noncompliance, the principal agent , notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.		
Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.		
PART A-OHS ACT COMPLIANCE-IMPLEMENTATION OF THE HEALTH AND SAFETY - Construction health & safety documentation		
Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G	R	_

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114	Clause C8.1.1 - Prepare and compile H&S plan as per			
	site specification Health and safety Specifications (Section C3, Scope of Work), OHS Act & Regulations			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
115	Clause C8.1.2 - Allow for the preparation and compilation of the site specific health and safety file, and a health and safety working file			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
116	Clause C8.1.3 - Appointment of a Registered Construction health and safety officer for the duration of the Contract as per Section 8(5) of the Construction Regulations 2014			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	PART B-OHS ACT COMPLIANCE-IMPLEMENTATION OF THE HEALTH AND SAFETY - Personal Protective Clothing & Equipment			
117	Clause C8.2.1 - Foot protection (steel toe cap, gum boots, etc)			
	Fixed	Item		
	Value Related	Item		
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

	Brought Forward		R
	Time Related	Item	
118	Clause C8.2.2 - Clothing (Overalls Depicting Contractors Company name/identification)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
119	Clause C8.2.3 - Glove (leather, PVC, Acid Resistant, etc) Item		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
120	Clause C8.2.4 - Head Protection: Hardhats with air vents Colour Coded - Supervisory (Red) Labour (Green)		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
21	Clause C8.2.5 - Ear protection (earmuffs with 30% protective value) Item		
	Fixed	Item	
	Value Related	Item	
	Time Related	Item	
122	Clause C8.2.6 - Eye Protection (Face Shield, Goggles, Spectacles, etc)		
	Fixed	Item	
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES		R
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	Value Related	Item		
	Time Related	Item		
123	Clause C8.2.7 - Visibility (luminous high visibility safety vests/ jackets/ bibs/ etc)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
124	Clause C8.2.8 - Harness(double stranded safety harness with pylon hooks)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
125	Clause C8.2.9 - Portable ladders A-frame, extendable, length, material, etc.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
126	Clause C8.2.9 - Portable ladders A-frame, extendable, length, material, etc.			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1		R	
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127	Clause C8.2.10 - Barricading/ Demarcation (Supply, Install & Removal) Demarcation perimeter (fence, shade netting, corrugated iron, shutter board, hard Barricade etc)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES BIII No. 1 PRELIMINARIES CLUSTER G		R	

PART C-OHS ACT COMPLIANCE-IMPLEMENTATION OF THE HEALTH AND SAFETY - Occupational medical surveillance				
Clause C8.3.1 - Entry Medical Examinations by a SASOHN registered Occupational Health Nurse or a SASOM registered Occupational Medical Practitioner				
Fixed	Item			
Value Related	Item			
Time Related	Item			
Clause C8.3.2 - Exit Medical Examination				
Fixed	Item			
Value Related	Item			
Time Related	Item			
Clause C8.3.3 -Provision of a first aid kit				
Fixed	Item			
Value Related	Item			
Time Related	Item			
Clause C8.3.4 - Provision of a fire-fighting measures				
Fixed	Item			
Value Related	Item			
Time Related	Item			
				_
Section No. 1 PRELIMINARIES BIII No. 1 PRELIMINARIES CLUSTER G		R		
	Clause C8.3.1 - Entry Medical Examinations by a SASOHN registered Occupational Health Nurse or a SASOM registered Occupational Medical Practitioner Fixed Value Related Time Related Clause C8.3.2 - Exit Medical Examination Fixed Value Related Time Related Clause C8.3.3 -Provision of a first aid kit Fixed Value Related Clause C8.3.4 - Provision of a fire-fighting measures Fixed Value Related Clause C8.3.4 - Provision of a fire-fighting measures Fixed Value Related Clause C8.3.5 - Provision of a fire-fighting measures Fixed Value Related Clause C8.3.6 - Provision of a fire-fighting measures	Clause C8.3.1 - Entry Medical Examinations by a SASOHN registered Occupational Health Nurse or a SASOM registered Occupational Medical Practitioner Fixed Item Value Related Item Time Related Item Clause C8.3.2 - Exit Medical Examination Fixed Item Value Related Item Time Related Item Clause C8.3.3 - Provision of a first aid kit Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.5 - Provision of a fire-fighting measures Fixed Item Clause C8.3.6 - Provision of a fire-fighting measures	medical surveillance Clause C8.3.1 - Entry Medical Examinations by a SASOHN registered Occupational Health Nurse or a SASOM registered Occupational Medical Practitioner Fixed Item Value Related Item Clause C8.3.2 - Exit Medical Examination Fixed Item Value Related Item Clause C8.3.3 - Provision of a first aid kit Fixed Item Clause C8.3.3 - Provision of a first aid kit Fixed Item Value Related Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.5 - Provision of a fire-fighting measures Fixed Item Clause C8.3.6 - Provision of a fire-fighting measures Fixed Item Clause C8.3.7 - Provision of a fire-fighting measures Fixed Item Clause C8.3.7 - Provision of a fire-fighting measures Fixed Item Clause C8.3.7 - Provision of a fire-fighting measures Fixed Item Praction No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES	medical surveillance Clause C8.3.1 - Entry Medical Examinations by a SASOHN registered Occupational Health Nurse or a SASOM registered Occupational Medical Practitioner Fixed Item Value Related Item Time Related Item Clause C8.3.2 - Exit Medical Examination Fixed Item Value Related Item Time Related Item Time Related Item Clause C8.3.3 - Provision of a first aid kit Fixed Item Time Related Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Time Related Item Time Related Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.4 - Provision of a fire-fighting measures Fixed Item Clause C8.3.5 - Provision of a fire-fighting measures Fixed Item Clause C8.3.6 - Provision of a fire-fighting measures Fixed Item Clause C8.3.7 - Provision of a fire-fighting measures Fixed Item Clause C8.3.8 - Provision of a fire-fighting measures Fixed Item Pixed Item Clause C8.3.8 - Provision of a fire-fighting measures Fixed Item Pixed Item Pi

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	PART D-OHS ACT COMPLIANCE-IMPLEMENTATION OF THE HEALTH AND SAFETY Education, training, signage			
132	Clause C8.4.1 - Health and safety induction site access cards			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
133	Clause C8.4.2 - Basic First Aid training level one			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
134	Clause C8.4.3 - Health and Safety representative			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
135	Clause C8.4.4 - Construction (firefighting. General information, prohibitory, mandatory, warning, hazchem, photo luminescent, etc)			
	Fixed	Item		
	Value Related	Item		
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Time Related	Item		
Clause C8.4.5 - Health and Safety information display board in site office (emergency evacuation flow diagram, emergency contact numbers, electrical, general, etc)			
Fixed	Item		
Value Related	Item		
Time Related	Item		
Clause C8.4.6 -Health and safety charts (OHS Act, Basic Conditions of Employment Act)			
Fixed	Item		
Value Related	Item		
Time Related	Item		
PART E - OHS AC COMPLIANCE - IMPLEMENTATION OF THE HEALTH AND SAFETY Covid-19 Compliance management			
Clause C8.5.1 - Covid - 19 related signage and posters			
Fixed	Item		
Value Related	Item		
Time Related	Item		
Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	
	Clause C8.4.5 - Health and Safety information display board in site office (emergency evacuation flow diagram, emergency contact numbers, electrical, general, etc) Fixed Value Related Time Related Clause C8.4.6 -Health and safety charts (OHS Act, Basic Conditions of Employment Act) Fixed Value Related Time Related Time Related PART E - OHS AC COMPLIANCE - IMPLEMENTATION OF THE HEALTH AND SAFETY Covid-19 Compliance management Clause C8.5.1 - Covid - 19 related signage and posters Fixed Value Related Time Related Time Related Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES BILL No. 1 PRELIMINARIES	Time Related Item Clause C8.4.5 - Health and Safety information display board in site office (emergency evacuation flow diagram, emergency confact numbers, electrical, general, etc) Fixed Item Value Related Item Clause C8.4.6 -Health and safety charts (OHS Act, Basic Conditions of Employment Act) Fixed Item Value Related Item Value Related Item PART E - OHS AC COMPLIANCE - IMPLEMENTATION OF THE HEALTH AND SAFETY Covid-19 Compliance management Clause C8.5.1 - Covid - 19 related signage and posters Fixed Item Value Related Item Time Related Item Value Related Item Value Related Item Value Related Item Value Related Item PART E - OHS AC COMPLIANCE - IMPLEMENTATION OF THE HEALTH AND SAFETY Covid-19 Compliance management Clause C8.5.1 - Covid - 19 related signage and posters Fixed Item Value Related Item Time Related Item PRELIMINARIES Bill No. 1 PRELIMINARIES BIIN No. 1 PRELIMINARIES	Time Related Item Clause C8.4.5 - Health and Safety information display board in site office (emergency evacuation flow diagram, emergency contact numbers, electrical, general, etc) Fixed Item Value Related Item Clause C8.4.6 - Health and safety charts (OHS Act, Basic Conditions of Employment Act) Fixed Item Value Related Item Value Related Item PART E - OHS AC COMPLIANCE - IMPLEMENTATION OF THE HEALTH AND SAFETY Covid-19 Compliance management Clause C8.5.1 - Covid - 19 related signage and posters Fixed Item Value Related Item Time Related Item Time Related Item Value Related Item Time Related Item Value Related Item PRELIMINARIES Bill No. 1 PRELIMINARIES BIIN No. 1 PRELIMINARIES

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139	Clause C8.5.2- 2 x 3ply cloth masks			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
140	Clause C8.5.2- hand sanitizers with 70% alcohol	itom		
140	content			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
141	Clause C8.5.3 Decontamination agent / surface			
	sanitizers			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
142	Clause C8.5.4 Surgical Gloves (for security and			
	cleaning team)			
	Fixed	Item		
	Carried Forward Section No. 1		R	
	PRELIMINARIES Bill No. 1			
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	Value Related	Item		
	Time Related	Item		
143	Clause C8.5.5 Non-contact thermometers			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
144	Clause C8.5.6 Physical barriers to ensure social distancing (Compliance to Section 22 of the Covid-19 OHS Directive)			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
145	Clause C9 - Viewing of the school areas			
	The site is situated in a school area and the tenderer must arrange with the responsible school staff to obtain permission to enter the site for tendering purposes			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
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	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

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146	Clause C10 - Commencement of Works in School Areas			
	As the works falls within a school area the contractor must give the responsible staff member notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
147	Clause C11 - Entrance Permits to School Areas			
	As the works falls within a school area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Principal, or chief security officer			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

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148	Clause C12 - Security Check of Personnel			
	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified			
	In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	

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149	Clause C13 - HIV/Aids Awareness			
	It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities . Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained			
	The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent , notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
150	Clause C13.1 - Awareness Champion			
	Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
	Carried Forward Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G		R	_

	Brought Forward		R	
151	Clause C13.2 - Awareness Workshop			
	Selection and appointment of a competent Service Provider approved by the principal agent , provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
152	Clause C13.3 - Posters, booklets, videos, etc.			
	Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
153	Clause C13.4 - Access to Condoms			
	Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period , all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
				_
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 PRELIMINARIES CLUSTER G			

	Brought Forward		R	
154	Clause C13.5- Monitoring			
	Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification			
	Fixed	Item		
	Value Related	Item		
	Time Related	Item		
				_
	Carried to Final Summary		R	
	Section No. 1 PRELIMINARIES			
	Bill No. 1 PRELIMINARIES			
	CLUSTER G			
				1

Item No		Quantity	Rate	Amount	
	SECTION 2				
	BUILDING WORK				
	BILL NO 1				
	<u>DEMOLITIONS</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.				
	SUPPLEMENTARY PREAMBLES				
	<u>User note</u>				
	Note:				
	All usable material from the demolitions should be kept safety and handed over to the Principal Agent who shall sign for all material received.				
	<u>View site</u>				
	Demolishing and removing				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	Carried Forward Section No. 2 DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AN Bill No. 1 Demolitions CLUSTER G		R		_

Brought Forward			R		
<u>Explosives</u>					
No explosives whatsoever may be used for demolition purposes unless otherwise stated					
General					
Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent					
Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site					
Breaking up and removing					
Single storey existing 3 classroom structure with double pitched roof comprising, concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses (hand over usable items to school)	No	1			
Single storey Tank House with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school)	No	2			
Single storey Pit toilet seats with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school)	No	20			
Carried to Final Summary Section No. 2 DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AN Bill No. 1 Demolitions CLUSTER G			R		_
	No explosives whatsoever may be used for demolition purposes unless otherwise stated General Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site Breaking up and removing Single storey existing 3 classroom structure with double pitched roof comprising, concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses (hand over usable items to school) Single storey Tank House with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) Single storey Pit toilet seats with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) Carried to Final Summary Section No. 2 DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AN Bill No. 1 Demolitions	No explosives whatsoever may be used for demolition purposes unless otherwise stated General Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site Breaking up and removing Single storey existing 3 classroom structure with double pitched roof comprising, concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses (hand over 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be made with proper fittings to the satisfaction of the principal agent Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site Breaking up and removing Single storey existing 3 classroom structure with double pitched roof comprising, concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses (hand over usable items to school) No Single storey Tank House with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) No 2 Single storey Pit toilet seats with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) No 2 Single storey Pit toilet seats with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) No 20 Carried to Final Summary R Section No. 2 DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AN Bill No. 1 Demolitions	No explosives whatsoever may be used for demolition purposes unless otherwise stated General Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site Breaking up and removing Single storey existing 3 classroom structure with double pitched roof comprising, concrete surface bed, one brick external walls, one brick and half brick internal walls and corrugated roof covering on prefabricated timber trusses (hand over usable items to school) No Single storey Tank House with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) No Single storey Pit toilet seats with concrete surface bed, one brick external walls, one brick and half brick internal walls (hand over usable items to school) No Carried to Final Summary R Section No. 2 DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AN BIII No. 1 Demolitions

Item No		Quantity	Rate	Amount	
	SECTION NO.3				
	BILL NO. 1				
	ALTERATIONS				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	REMOVAL OF EXISTING WORK:				
	NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.				
	DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.				
	PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.				
	PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery,loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materilas for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this Contract and must				
	Carried Forward Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 1 Alterations CLUSTER G		R		_
	SESSIEI S				

	Brought Forward		R	
	make good at his own expense any damage that may occur.			
	OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.			
	MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.			
	Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.			
	TEMPORARY BARRICADES, SCREENS, ETC			
	Temporary barricades, screens, roofs, etc including removal			
1	Dust screen 1800mm high between construction sites and school facilities with suitable timber framing with 375 micron polyethylene sheeting stapled on one side, including corners, ends, etc	Item		
	Carried Forward		R	_
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 1 Alterations CLUSTER G		K	

	Brought Forward			R	
	REMOVAL OF EXISTING WORK				
2	85mm thick apron	m2	114		
	Taking out and removing doors, windows, etc from brickwork to be demolished				
3	Timber single door 813 x 2032mm high	No	25		
	Taking out and removing doors, windows, etc, including thresholds, sills, etc and building up openings in brick walls, including making good cement plaster on ? side(s) (making good paintwork elsewhere)				
4	Door frame 813 x 2032m high overall from 230mm brick wall	No	1		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
5	Corrugated iron roof covering including timber purlins	m2	131		
6	Fibre cement fascias, barge boards, etc.	m	114		
	SERVICING OF DOORS AND WINDOWS				
7	Replace window stays, handles and pegs	No	18		
	MAKING GOOD OF FINISHES ETC				
8	Walls in patches	m2	150		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 1 Alterations CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.3				
	BUILDING WORK				
	BILL NO.2				
	ROOF COVERINGS ETC				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched				
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use				
	<u>Sizes</u>				
	All items are measured net unless otherwise described				
	Flashings, trimming plates, etc.				
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described				
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable				
	All items are unless otherwise described measured net				
	Carried Forward		R		
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 2 Roof Coveringss, etc CLUSTER G				

ı	Brought Forward	ĺ	l 1	l R]	1
	PROFILED METAL SHEETING AND ACCESSORIES			K		
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions					
1	Roof covering with pitch not exceeding 50 degrees	m2	131			
	Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 2 Roof Coveringss, etc CLUSTER G			R		

Item No		Quantity	Rate	Amount	
	SECTION NO.3				
	BUILDING WORK				
	BILL NO.3				
	CARPENTRY AND JOINERY				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Particle board:				
	Particle board shall comply with the following specifications:				
	a) SABS 1300 Particle board: exterior and flooring type				
	b) SABS 1301 Particle board: interior type				
	Joinery:				
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc				
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes				
	<u>Fixing</u>				
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
			_		_
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 3 Capentry and Joinery CLUSTER G		R		

Decorative laminate finish:	ļ			1	
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish					
EAVES, VERGES, ETC					
"Everite FC77" pressed fibre-cement					
15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	114			
DOORS, ETC					
Wrought meranti doors hung to steel frames					
813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision.	No	12			
Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame					
813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule	No	27			
					_
Carried Forward to Summary of Section No. 3			R		
RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 3 Capentry and Joinery					
	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips DOORS, ETC Wrought meranti doors hung to steel frames 813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision. Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame 813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips m DOORS, ETC Wrought meranti doors hung to steel frames 813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision. No Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame 813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 3 Capentry and Joinery	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips m 114 DOORS, ETC Wrought meranti doors hung to steel frames 813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision. No 12 Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame 813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule No 27 Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS BIII No. 3 Capentry and Joinery	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips m 114 DOORS, ETC Wrought meranti doors hung to steel frames 813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision. No 12 Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame 813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule No 27 Carried Forward to Summary of Section No. 3 Capentry and Joinery	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips m 114 DOORS, ETC Wrought meranti doors hung to steel frames 813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision. No 12 Semi solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame 813 x 2032 x 44 mm thick interior grade flush hollow core single timber door with 3 mm ply on both sides with 2 consolidated edges fitted to comply with sabs 545 in pressed steel frame. all painted to architect's colour schedule No 27 Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 3 Capentry and Joinery

Item No		Quantity	Rate	Amount	
	SECTION NO.3				
	BUILDING WORK				
	BILL NO.4				
	IRONMONGERY				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	CATCHES, CABIN HOOKS, ETC				
	"Solid"				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	27			
	LOCKS				
					_
	Carried Forward Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 4 Ironmongery CLUSTER G		R		

	Brought Forward			R	
	"Solid"or similar approved	·			
2	"Code 630" padlock	No	12		
3	"Code 2252-76SC" three lever upright lockset	No	27		
4	"Code 460/313" Blesbok four lever lockset	No	12		
	DOOR CLOSERS AND FLOOR SPRINGS				
	"Dorma" or similar approved				
	SUNDRIES				
	"Solid" or similar approved				
5	Dorma "Code 255" door stop plugged	No	39		
6	Chromium plated toilet roll holder plugged to brickwork	No	27		
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
7	150 x 150mm Stainless steel plate engraved with "female" sign (St/Steel)	No	3		
8	150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)	No	3		
	Carried Forward to Summary of Section No. 3			R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 4				
	Ironmongery CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	BUILDING WORK			
	BILL NO.5			
	METALWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	WELDED SCREENS, GATES, ETC			
	Gates to external doors			
1	Gate and frame 900 x 2100mm high complete (G1)			
	No	12		
	Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 5 Metalwork CLUSTER G		R	

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	BUILDING WORK			
	BILL NO.6			
	PLASTERING			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	GRANOLITHIC			
	Untinted granolithic on concrete			
	SCREEDS			
	Screeds on concrete			
1	30mm Thick on floors m2	2 19		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 6 Plastering CLUSTER G			

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	BUILDING WORK			
	BILL NO.7			
	PLUMBING AND DRAINAGE			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	"Polycop" polypropylene pipes:			
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated			
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
	All pipe diameters are nominal external			
	Carried Forward		R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 7 Plumbing and Drainage CLUSTER G			

	Brought Forward			R	
	SANITARY FITTINGS (PROVISIONAL)				
1	600mm x 500mm inset washtrough, manufactured from grade 18/10 ss, stainless steel with radiused internal corners and provision for a 40mm diameter. outlet. fitted with approved 2no.plain extended chrome plated, complete with sliding wall flanges, un-slotted sink waste with back nut, plug with stirrup, chain a. sink installation height = 900mm affl. cut out size 535 x 425mm				
		No	6		
	WASTE UNIONS, ETC				
2	32mm "301CP" Basin waste union	No	12		
	TRAPS, ETC				
	"Marley"				
3	32 x 50mm Deep seal "P" or "S" trap	No	6		
	TAPS, VALVES, ETC				
	"Cobra Watertech or Similar and approved"				
4	Cobra Ref 1111-15 CP "Stella" pillar tap	No	12		
	Extra over class 0 copper pipes for capillary fittings				
5	15mm Fittings	No	15		
6	22mm Fittings	No	20		
	WATER SUPPLIES				
	Class 0 copper pipes				
7	15mm Pipes	m	45		
8	22mm Pipes	m	36		
	Carried Forward			R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 7 Plumbing and Drainage CLUSTER G				

	Brought Forward			R	
9	28mm Pipes	m	39		
	Extra over class 0 copper pipes for capillary fittings				
10	15mm Fittings	No	15		
11	22mm Fittings	No	18		
12	28mm Fittings	No	21		
	PVC gulley				
13	110mm Gulley trap with O, P, Q or S outlet, plain gulley head and grating, jointed to 110mm PVC pipe, including excavated for, bedding on and encasing in concrete 15 MPa / 19mm, not exceeding 0.75m deep to invert	No	6		
	<u>Sundries</u>				
14	300 x 300 x 50mm Precast concrete inspection eye marker slab set in ground	No	3		
15	100mm Cast iron "ABC" cleaning eye	No	3		
16	Type 3B cast iron valve box	No	3		
	TESTING				
17	Provide all necessary apparatus, water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Project Manager, replace any defective work free of charge and leave perfect		Item		
	Cleaning of existing enviroloo system				
18	Clean and remove waste on the enviroloo bucket using approved chemicals without damaging the toilet system	No	27		
	Carried Forward to Summary of Section No. 3 Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 7 Plumbing and Drainage CLUSTER G			R	

Item No		Quantity	Rate	Amount	
	SECTION NO.3				
	BUILDING WORK				
	BILL NO. 8				
	<u>GLAZING</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	GLAZING TO STEEL WITH PUTTY				
	4mm Rough cast glass				
1	Panes exceeding 0,1m2 and not exceeding 0,5m2 m2	18			
	Carried Forward to Summary of Section No. 3 Section No. 3		R		_
	RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 8 Glazing CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.3			
	BUILDING WORK			
	BILL NO. 9			
	PAINTWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	DESCRIPTIONS			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	PAINT SPECIFICATIONS			
	All painting shall be done in accordance with "Plascon- Evans" specifications			
	PAINTWORK ETC TO NEW WORK			
	ON FIBRE-CEMENT			
	Carried Forward		R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 9 Paintwork CLUSTER G			

	Brought Forward		R	
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.			
1	On fascias and barge boards	m2		
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.			
	ON METAL			
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.			
2	On door frames	m2		
3	On windows with burglar bars	m2		
	Carried Forward Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 9 Paintwork		R	
	CLUSTER G			

	Brought Forward		R	
	<u>ON TIMBER</u>			
4	Stop, fill, sand down and prepare wood surfaces. Apply one coat Plascon Wood Primer, one coat Plascon Universal Undercoat and two coats Plascon Super Universal Enamel paint			
5	On doors	m2		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS Bill No. 9 Paintwork			
	CLUSTER G			

	Section No. 3			
	RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS			
	SECTION SUMMARY - RENOVATIONS OF 27 EXISTING ENVIRO	OO TOILE		
Bill No		Page No		Amount
1	Alterations	76		
2	Roof Coveringss, etc	78		
3	Capentry and Joinery	80		
4	Ironmongery	82		
5	Metalwork	83		
6	Plastering	84		
7	Plumbing and Drainage	87		
8	Glazing	88		
9	Paintwork	91		
	Carried to Final Summary Section No. 3 RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS CLUSTER G		R	
	CLUSTER G			

Item No		Quantity	Rate	Amount	
	SECTION NO.4				
	BUILDING WORK				
	BILL NO. 1				
	ALTERATIONS				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	REMOVAL OF EXISTING WORK:				
	NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work.				
	DIMENSIONS The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.				
	PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and to the satisfaction of the Principal Agent to whom due notice must be given of any alterations to the existing services.				
	PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery,loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materilas for doing so. The Contractor will be held solely responsible for any				_
	Carried Forward		R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 1 Alterations CLUSTER G				

Brought Forward	R	
damage to persons or property and for the safety of the structure throughout the whole of this Contract and must make good at his own expense any damage that may occur.		
OLD USABLE MATERIALS from the alterations/demolitions are to become the property of the Client. Old materials for re-use are to be carefully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old reusable materials are to be handed over to the Client are to be carefully removed and neatly stacked on site where directed. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned. None of the old stock bricks from the pulling down are to be re-used for any new work. Materials to be handed over to the Client should be kept safely and handed over to the School Governing Body or the school principal who shall sign for all materials received.		
MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.		
Unless otherwise stated, all usable material from the demolitions should be kept safely and handed over to the school governing body or the school principal who shall sign for all material received.		
TEMPORARY BARRICADES, SCREENS, ETC		
Carried Forward Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 1 Alterations CLUSTER G	R	

	Brought Forward			R	
	Temporary barricades, screens, roofs, etc including removal				
1	Dust screen 1800mm high between construction sites and school facilities with suitable timber framing with 375 micron polyethylene sheeting stapled on one side, including corners, ends, etc		ltem		
	REMOVAL OF EXISTING WORK				
2	85mm thick apron	m2	75		
3	85mm Thick surface bed	m2	258		
	Breaking down and removing brickwork etc				
4	Half brick wall in beamfilling	m2	26		
	Taking out and removing doors, windows, etc from brickwork to be demolished				
5	Timber single door 813 x 2032mm high	No	4		
	Taking out and removing doors, windows, etc, including thresholds, sills, etc and building up openings in brick walls, including making good cement plaster on ? side(s) (making good paintwork elsewhere)				
6	Door frame 813 x 2032m high overall from 230mm brick wall	No	0.3		
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>				
7	Corrugated iron roof covering including timber purlins	m2	303		
8	Fibre cement fascias, barge boards, etc.	m	77		
	SERVICING OF DOORS AND WINDOWS				
9	Replace window stays, handles and pegs	No	28		
	Carried Forward Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 1 Alterations CLUSTER G			R	

	Brought Forward		1	R	
	MAKING GOOD OF FINISHES ETC				
10	Walls in patches	m2	10		
	Carried Forward to Summary of Section No. 4			R	_
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS			11	<u> </u>
	Bill No. 1 Alterations				
	CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.4				
	BUILDING WORK				
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)				
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated				
	Carried Forward Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R		_

	Brought Forward			R	
	<u>Formwork</u>				
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	UNREINFORCED CONCRETE				
	20MPa/19mm concrete				
1	Surface beds	m3	5		
2	Surface beds cast in panels on waterproofing.	m3	18		
3	Aprons cast in panels to falls	m3	14		
	Carried Forward			R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G				

	Brought Forward			R		1
4	Ramps	m3	1		3	ı
	CONCRETE SUNDRIES					ı
	Finishing top surfaces of concrete smooth with a steel trowel					
5	Surface beds, slabs, etc	m2	271			
6	Ramp to falls	m2	12			1
	Finishing top surfaces of concrete smooth with a wood float					1
7	Aprons to falls	m2	165			l
	<u>FORMWORK</u>					1
	ROUGH FORMWORK (DEGREE OF ACCURACY II)					1
	Rough formwork to sides					1
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	75			1
	TEST CUBES					
9	Allow for preparing a set of three concrete strength test cubes, each size $150 \times 150 \times 150$ mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	5.0			
	MOVEMENT JOINTS ETC					
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces					
	Saw cut joints					ı
10	Saw cut joints in top of concrete	m	35			1
						1
	Carried Forward			R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 2 Concrete, Formwork and Reinforcement					
	CLUSTER G					

Ī	Brought Forward			R	
	REINFORCEMENT				
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
11	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	271		
	Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 2 Concrete, Formwork and Reinforcement			R	_
	CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.4			
	BUILDING WORK			
	BILL NO.3			
	MASONRY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
	Reinforced brick lintels			
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous			
	Carried Forward		R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 3 Masonry CLUSTER G			

Brought Forward			R		
Face bricks					
Bricks shall be ordered timeously to obtain uniformity in size and colour					
Pointing					
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc					
SUPERSTRUCTURE					
Brickwork of NFP bricks in class II mortar					
Half brick walls in beamfilling.	m2	26			
Brickwork reinforcement					
75mm Wide reinforcement built in horizontally	m	95			
Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 3 Masonry			R		
	Face bricks Bricks shall be ordered timeously to obtain uniformity in size and colour Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar Half brick walls in beamfilling. Brickwork reinforcement 75mm Wide reinforcement built in horizontally Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS	Bricks shall be ordered timeously to obtain uniformity in size and colour Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar Half brick walls in beamfilling. m2 Brickwork reinforcement 75mm Wide reinforcement built in horizontally m Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 3 Masonry	Bricks shall be ordered timeously to obtain uniformity in size and colour Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar Half brick walls in beamfilling. m2 26 Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 95 Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS BII No. 3 Masonry	Bricks shall be ordered timeously to obtain uniformity in size and colour Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar Half brick walls in beamfilling. m2 26 Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 95 Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 3 Massonry	Bricks shall be ordered timeously to obtain uniformity in size and colour Pointing Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc SUPERSTRUCTURE Brickwork of NFP bricks in class II mortar Half brick walls in beamfilling. m2 26 Brickwork reinforcement 75mm Wide reinforcement built in horizontally m 95

Item No		Quantity	Rate	Amount
	SECTION NO.4			1
	BUILDING WORK			
	BILL NO.4			
	ROOF COVERINGS ETC			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	Sizes			
	All items are measured net unless otherwise described			
	Flashings, trimming plates, etc.			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
	Carried Forward		R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 4 Roof Coveringss, etc CLUSTER G			

	Brought Forward			R		
	PROFILED METAL SHEETING AND ACCESSORIES					
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions					
1	Roof covering with pitch not exceeding 50 degrees	m2	303			
2	Ridge capping 550mm girth	m	31			
	Carried Forward to Summary of Section No. 4			R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 4 Roof Coveringss, etc CLUSTER G					

Item No		Quantity	Rate	Amount
	SECTION NO.4			
	BUILDING WORK			
	BILL NO.5			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward Section No. 4		R	
	RENOVATIONS OF 12 CLASSROOMS Bill No. 5 Capentry and Joinery CLUSTER G			

	Brought Forward			R	
	Decorative laminate finish:				
	Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
1	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	77		
	DOORS, ETC				
	Wrought meranti doors hung to steel frames				
2	813 x 2032 x 44 mm thick heavy duty exterior quality horizontally slatted double sided saligna door fitted to comply with sabs 545 exterior grade or latest revision.	NI-	4		
		No	4		
	Country of Continuous to Continuous of Continuous A				
	Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS			R	
	Bill No. 5 Capentry and Joinery CLUSTER G				

Item No			Quantity	Rate	Amount	
	SECTION NO.4					
	BUILDING WORK					
	BILL NO.6					
	CEILING, ETC.					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere					
	CEILING CONSTRUCTION, CORNICES, ETC.					
	<u>Insulation</u>					
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.	m2	271			
	Sawn softwood					
2	38 x 114mm Ceiling joists (Provisional)	m	271			
						_
	Carried Forward Section No. 4			R		
	RENOVATIONS OF 12 CLASSROOMS Bill No. 6					
	Ceilings, Partitions and Access Flooring CLUSTER G					

	Brought Forward			R	
	"Rhino" gypsum plasterboard cornices				
3	75mm Coved cornices	m	114		
	NAILED UP AND SCREWED UP CEILINGS				
	6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints				
4	Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.				
		m2	217		
5	Sloping ceilings including 38 x 38mm sawn softwood brandering at 450mm centres	m2	54		
6	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	4		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 6				
	Ceilings, Partitions and Access Flooring CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.4				
	BUILDING WORK				
	BILL NO.6				
	IRONMONGERY				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	<u>LOCKS</u>				
	"Solid"or similar approved				
1	"Code 630" padlock	10 4	Į.		
2	"Code 460/313" Blesbok four lever lockset	10 4	ı		
					_
	Carried Forward		R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 7 Ironmongery CLUSTER G				

	Brought Forward			R	
	DOOR CLOSERS AND FLOOR SPRINGS				
	"Dorma" or similar approved				
	SUNDRIES				
	"Solid" or similar approved				
3	Dorma "Code 255" door stop plugged	No	4		
	"Vitrex" or similar approved				
4	Pinning boards 3000 x 1500mm high fixed to brickwork	No	8		
5	2000 x 1300 mm White Porcelain magnetic marker				
	board	No	4		
					_
	Carried Forward to Summary of Section No. 4			R	=
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS				
	Bill No. 7 Ironmongery				
	CLUSTER G				

	Quantity	Rate	Amount	
SECTION NO.4				
BUILDING WORK				
BILL NO. 7				
<u>METALWORK</u>				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
<u>Descriptions</u>				
Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
<u>Drawings</u>				
Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc				
WELDED SCREENS, GATES, ETC				
Gates to external doors				
Gate and frame 900 x 2100mm high complete (G1)				
No	4			
				_
Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 8 Metalwork CLUSTER G		R		=
	BUILDING WORK BILL NO. 7 METALWORK For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. Descriptions Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Drawings Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc WELDED SCREENS, GATES, ETC Gates to external doors Gate and frame 900 x 2100mm high complete (G1) No Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 8 Metalwork	SECTION NO.4 BUILDING WORK BILL NO. 7 METALWORK For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Drawings Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc WELDED SCREENS, GATES, ETC Gates to external doors Gate and frame 900 x 2100mm high complete (G1) No 4 Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 8 Metalwork	SECTION NO.4 BUILDING WORK BILL NO. 7 METALWORK For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Drawings Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc WELDED SCREENS, GATES, ETC Gates to external doors Gate and frame 900 x 2100mm high complete (G1) No 4 Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 8 Metalwork	SECTION NO.4 BUILDING WORK BILL NO.7 METALWORK For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described Drawings Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc WELDED SCREENS, GATES, ETC Gates to external doors Gate and frame 900 x 2100mm high complete (G1) No 4 Section No. 4 Section No. 4 Section No. 4 R Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 8 Metalwork

Item No			Quantity	Rate	Amount	
	SECTION NO.4					
	BUILDING WORK					
	BILL NO.8					
	PLASTERING					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	GRANOLITHIC					
	Untinted granolithic on concrete					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors	n2	271			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls	n2	15			
3	On narrow widths	n2	10			
						_
	Carried Forward to Summary of Section No. 4			R		_
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 9 Plastering CLUSTER G					

Item No		Quantity	Rate	Amount	
·	SECTION NO.4				
	BUILDING WORK				
	BILL NO.9				
	<u>TILING</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	FLOOR TILING				
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings m2	271			
2	Skirting formed of ceramic tile cut to 300 x 75mm high m				
					_
	Carried Forward to Summary of Section No. 4		R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 10 Tiling CLUSTER G				

Item No			Quantity	Rate	Amount	
	SECTION NO.4					
	BUILDING WORK					
	BILL NO.10					
	PLUMBING AND DRAINAGE					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SUPPLEMENTARY PREAMBLES					
	"Polycop" polypropylene pipes:					
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated					
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions					
	All pipe diameters are nominal external					
	RAINWATER DISPOSAL					
	0,6mm Galvanised sheet iron with "Chromadek" finish on one side					
1	100 x 125mm Eaves gutters with beaded front edge	m	61			
2	Extra over eaves gutter for angle	No	4			
	Carried Forward			R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 11 Plumbing and Drainage CLUSTER G					

	Brought Forward			R	
3	Extra over eaves gutter for stopped end	No	4		
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	4		
5	100mm Diameter rainwater pipes	m	11		
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	4		
7	Extra over rainwater pipe for shoe	No	4		
	FIRE APPLIANCES ETC				
	'Chubb' or similar approved				
8	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	4		
9	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1		
	Carried Forward to Summary of Section No. 4			R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 11 Plumbing and Drainage CLUSTER G				

Item No		Ī	Quantity	Rate	Amount	
I	SECTION NO.4	ļ				
	BUILDING WORK					
	BILL NO. 11					
	GLAZING					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	GLAZING TO STEEL WITH PUTTY					
	4mm Clear float glass					
1	Panes exceeding 0,5m2 and not exceeding 2m2	m2	30			
	4mm Rough cast glass					
2	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	5			
						_
	Carried Forward to Summary of Section No. 4			R		
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 12 Glazing CLUSTER G					=

Item No		Quantity	Rate	Amount	
	SECTION NO.4				
	BUILDING WORK				
	BILL NO. 12				
	PAINTWORK				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	DESCRIPTIONS				
	Descriptions of paintwork shall be deemed to include for all cutting in				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with "Plascon- Evans" specifications				
	PAINTWORK ETC TO EXISTING WORK ON FLOATED PLASTER				
	Carried Forward Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 13 Paintwork CLUSTER G		R		-

	Brought Forward			R	
2	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
1	On internal walls	m2	320		
	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
2	On external walls	m2	210		
	ON FIBRE-CEMENT				
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint				
3	On ceilings and cornices	m2	271		
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
4	On fascias and barge boards	m2	20		
	Carried Forward Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 13 Paintwork CLUSTER G			R	

	Brought Forward			R	
	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
5	On door frames	m2	5		
6	On windows with burglar bars	m2	129		
7	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	13		
	ON WOOD				
	Apply 3no. clear eggshell varnish for interior to comply with sabs 887 type 01, thin down first coat with mineral turpentine as per manufacturer instructions, allowing each coat to dry overnight, apply wood preservative to exposed exterior wood to saturte the surface, with each coat soaking in before further coats, apply until no further soaking takes place				
8	On doors	m2	57		
	Carried Forward to Summary of Section No. 4 Section No. 4 RENOVATIONS OF 12 CLASSROOMS Bill No. 13 Paintwork CLUSTER G			R	

	Section No. 4			
	RENOVATIONS OF 12 CLASSROOMS			
	SECTION SUMMARY - RENOVATIONS OF 12 CLASSROOMS			
Bill No		Page No		Amount
1	Alterations	96		
2	Concrete, Formwork and Reinforcement	100		
3	Masonry	102		
4	Roof Coveringss, etc	104		
5	Capentry and Joinery	106		
6	Ceilings, Partitions and Access Flooring	108		
7	Ironmongery	110		
8	Metalwork	111		
9	Plastering	112		
10	Tiling	113		
11	Plumbing and Drainage	115		
12	Glazing	116		
13	Paintwork	119		
	Carried to Final Summary		R	
	Section No. 4 RENOVATIONS OF 12 CLASSROOMS CLUSTER G			
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			l	

Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO.1			
	<u>FOUNDATIONS</u>			
	<u>EARTHWORKS</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Nature of ground			
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"			
	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			
	Carried Forward Section No. 5		R	
	MEDIUM ADMIN BLOCK Bill No. 1 Foundations CLUSTER G			
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	Brought Forward			R	
	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				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said cerfificate to the Principal Agent				
	SITE CLEARANCE, ETC.				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	425		
	REMOVAL TREES, ETC.				
	Taking out and removing, grubbing up roots and filling holes.				
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	4		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	37		
	Extra over trench and hole excavations in earth for excavation in				
4	Soft rock	m3	4		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 1 Foundations CLUSTER G			R	_

	Brought Forward			R	
5	Hard rock	m3	2		
	Extra over all excavations for carting away				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	31		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	361		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
9	Under floors, steps, paving, etc	m3	97		
	Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density				
10	Backfilling to trenches, holes, etc	m3	157		
1	Under floors, steps, paving etc.	m3	56		
	Compaction of surfaces				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	354		
	Prescribed density tests on filling				
	-				
	SOIL POISONING				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
l	Soil insecticide				
13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	297		
14	To bottoms and sides of trenches etc	m2	287		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
15	Foundation beam	m3	26		
	TEST CUBES				
16	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	5.0		
	REINFORCEMENT				
	Mild steel reinforcement to structural concrete work				
17	8mm Diameter bars	t	1.80		
	High tensile steel reinforcement to structural concrete work				
18	12mm Diameter bars	t	2.87		
19	16mm Diameter bars	t	3.10		
	BRICKWORK				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
l	Brickwork of NFP bricks in class II mortar				
20	Half brick walls	m2	45		
	BRICKWORK SUNDRIES				
	Joint forming material in movement joints:				
	Brickwork reinforcement				
21	75mm wide reinforcement built in horizontally.	m	248		
	FACE BRICKWORK				
	Face bricks (Purchase price of R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
22	Extra over brickwork for face brickwork	m2	21		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
23	Coping on top of one brick wall	m	9		
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 1 Foundations CLUSTER G			R	

Item No		Quantity	Rate	Amount	
	SECTION NO.5				
	BUILDING WORK				
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests				
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)				
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R		_

	Brought Forward			R	1
	<u>Formwork</u>				l
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	UNREINFORCED CONCRETE				l
	20MPa/19mm concrete				ı
1	Aprons cast in panels to falls	m3	12		l
2	Ramps	m3	1		l
3	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	102		
	Carried Forward			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G				

	Brought Forward			R	
	REINFORCED CONCRETE		l		
	25MPa/19mm concrete				
4	Surface beds cast in panels on waterproofing.	m3	53		
5	Slabs including beams and inverted beams	m3	6		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with power floated finish				
6	Surface beds, slabs, etc	m2	354		
	Finishing top surfaces of concrete smooth with a steel trowel				
7	Ramp to falls	m2	6		
	Finishing top surfaces of concrete smooth with a wood float				
8	Aprons to falls	m2	122		
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	89		
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)				
	Smooth formwork to soffits				
10	Slabs	m2	6		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

	Brought Forward			R	
	Permanent formwork to soffits				
	TEST CUBES				
11	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	10.0		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces				
	Saw cut joints				
12	Saw cut joints in top of concrete	m	5		
	REINFORCEMENT				
	High tensile steel reinforcement to structural concrete work				
13	12mm Diameter	t	3.50		
14	10mm Diameter bars	t	2.80		
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
15	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	354		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			i.	

Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO. 3			
	MASONRY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
	Carried Forward Section No. 5		R	
	MEDIUM ADMIN BLOCK Bill No. 3 Masonry CLUSTER G			

	Brought Forward			R	ĺ
	Reinforced brick lintels				
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	<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				
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
1	Piers	m3	3		
2	L-shaped piers	m3	0.5		
3	Half brick walls	m2	265		
4	Half brick walls in beamfilling.	m2	27		
5	One brick walls	m2	409		
	Joint forming material in movement joints:				
	Brickwork reinforcement				
6	75mm Wide reinforcement built in horizontally	m	853		
7	150mm Wide reinforcement built in horizontally	m	1,282		
	Turning pieces				
8	230mm Wide turning piece to lintels etc	m	69		
					_
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 3 Masonry CLUSTER G			R	
					1

	Brought Forward			R	
	"Allied Concrete" prestressed fabricated lintels				
9	110 x 75mm Lintels in lengths not exceeding 3m	m	15		
	Galvanised wire ties etc				
10	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	56		
	FACE BRICKWORK				
	Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
11	Extra over brickwork for face brickwork	m2	355		
12	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	6		
13	Extra over for facings in beamfilling for face brickwork	m2	75		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
14	Extra over brickwork for brick-on-edge header course lintel	m	28		
	Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
15	220mm Wide sill set sloping and slightly protecting outside	m	19		
16	Coping on top of one brick wall	m	8		
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 3 Masonry CLUSTER G			R	

	Brought Forward			R	
2	Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.				
17	15mm x 150mm Wide sills set flat and slightly projecting	m	45		
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 3 Masonry CLUSTER G			R	

Item No			Quantity	Rate	Amount
	SECTION NO.5				
	BUILDING WORK				
	BILL NO.4				
	WATERPROOFING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course				
1	In walls	m2	60		
	One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
2	Under surface beds	m2	354		
	JOINT SEALANTS ETC				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 4 Waterproofing CLUSTER G			R	

	Brought Forward		R	
	Silicone sealing compound including backing cord, bond breaker, primer, etc			
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary m	233		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 4			
	Waterproofing CLUSTER G			

Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO.5			
	ROOF COVERINGS ETC			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	Flashings, trimming plates, etc.			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
	Carried Forward Section No. 5		R	
	MEDIUM ADMIN BLOCK Bill No. 5 Roof Coveringss, etc			
	CLUSTER G			

	Brought Forward			R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions				
1	Roof covering with pitch not exceeding 50 degrees	m2	354		
2	Ridge capping 550mm girth	m	38		
3	Hip capping 550mm girth	m	42		
4	Gable trim 550mm girth	m	24		
	STEEL LOUVRES				
	"NTY Steelworks" or similar approved				
5	Triangular steel louvre size 3000x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	4		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 5 Roof Coveringss, etc CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 6		R	
	Capentry and Joinery CLUSTER G			

Brought Forward	R	İ
Decorative laminate finish:		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish		
PREFABRICATED ROOF TRUSSES		
Pre-fabricated metal connected timber roof trusses		
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction		
<u>Timber</u>		
Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460		
<u>Bolts</u>		
Bolts shall be in accordance with BS 4190 or SABS 135		
Shear plates, tooth connectors and split rings		
Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759: 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"		
<u>Washers</u>		
Square or round washers of the following dimensions shall be used with all bolts:		
Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum 2,50mm thickness		
Carried Forward	R	
Section No. 5 MEDIUM ADMIN BLOCK		
Bill No. 6 Capentry and Joinery CLUSTER G		
CLUSIER G		
		l

Brought Forward	R	
Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness		
Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum thickness		
Metal connector plates		
Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel		
The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping		
All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report		
Truss construction		
Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers		
Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint		
<u>Truss design</u>		
All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")		
<u>Truss spacing</u>		
The truss centres shall be less than or equal to that as described in this bill for each respective truss		
Carried Forward	R	_
Section No. 5 MEDIUM ADMIN BLOCK Bill No. 6 Capentry and Joinery CLUSTER G	K	

	Brought Forward	R	1
Trus	es pitch		ı
I	truss pitch shall be as described in this bill for each ective truss type		ĺ
Trus	es loading		l
and	ses shall be designed for a live load of 0,50kN/m2 dead load as specified under the sub-heading ecific load specifications for roof trusses"		
	p drawings, design and erection guarantee ficates		l
prep from shop	Il be expected from the Contractor to timeously pare, submit and obtain the necessary approvals the Representative/Agent in respect of the required or drawings, design and erection guarantee ficates as specified		
Dime	<u>ensions</u>		l
are i obta	limensions given in the descriptions of the trusses nominal and actual measurements are to be ined by actual measurements taken on the site are design or fabrication commences		
Erec	<u>ction</u>		l
acco of th Trus Con Prac Timb	russes are to be hoisted and erected strictly in ordance with the procedures and recommendations be manual "The Erection and Bracing of Timber roof eses" as published by the Institute for Timber struction and the CSIR, or the SABS Code of etice "The Design, Manufacture and Erection of the Design, or as designed and detailed by designer		
<u>Desi</u>	ign system		l
on the	design system as documented in this bill is based ne "MiTek" system and all references given in the criptions are related to specific type of trusses based nis design system		
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	However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent			
	Specific specifications for roof trusses			
	Unless otherwise described, the following specifications will apply:			
	1 All trusses to be with a 10° pitch			
	The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres			
	ROOFS			
	The following in plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses			
	The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes			
	Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)			
	Allow for the preparation and submission of the following documents in respect of all buildings			
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication	ltem		
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of			
	timber components, details, etc.	Item		
	Carried Forward		R	_
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 6 Capentry and Joinery CLUSTER G			
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	Brought Forward			R	
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item		
	Sawn softwood				
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for adminstration block approximately 355m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1		
	Sawn softwood grade 4				
5	38 x 114mm Wall plates	m	88		
	Sundries				
6	Two coats creosote on sawn timbers	m2	24		
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
7	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	86		
	SKIRTINGS				
	Wrought meranti				
8	19 x 76mm Skirting including 19mm quadrant bead nailed	m	325		
	DOORS, ETC				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 6 Capentry and Joinery CLUSTER G			R	

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
9	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D3)	No	2		
	Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame				
10	40mm Door 813 x 2032mm high	No	10		
	<u>FITTINGS</u>				
	The following in four wrot Meranti slatted benches in waiting area:				
11	32 x 69 mm Twice chamfered slat screwed from underside to steel supports with and including steel brackets.	m	44		
	Joinery Fittings, etc.				
12	Provide the amount of R250,000.00 (Two Hundred Fifty Thousand Rand) for the supply and installation of Joinery Fittings by Specialists		ltem		250,000.00
					250,000.00
13	Allow for giving every facility to Specialists as described		Item		
14	Allow for profit on above if required		Item		
	Admin Furniture, etc.				
15	Provide the amount of R250 000.00 (Two Hundred Fifty Thousand Rand) for the supply and installation of admin furniture by Specialists				
	Tarritare by epositations		Item		250,000.00
16	Allow for giving every facility to Specialists as described		Item		
17	Allow for profit on above if required		Item		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 6				
	Capentry and Joinery CLUSTER G				

Item No			Quantity	Rate	Amount	
	SECTION NO.5					
	BUILDING WORK					
	BILL NO.7					
	CEILING, ETC.					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere					
	CEILING CONSTRUCTION, CORNICES, ETC.					
	<u>Insulation</u>					
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.	n2	354			
	Sawn softwood					
2	38 x 114mm Ceiling joists (Provisional)	m	85			
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	Carried Forward Section No. 5			R		
	MEDIUM ADMIN BLOCK Bill No. 7					
	Ceilings, Partitions and Access Flooring CLUSTER G					

	Brought Forward			R	
	"Rhino" gypsum plasterboard cornices				
3	75mm Coved cornices	m	325		
	NAILED UP AND SCREWED UP CEILINGS				
	6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints				
4	Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.				
	garvariioca mailo.	m2	354		
5	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander				
	covered with ceiling board and fitted flush in opening	No	8		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 7				
	Ceilings, Partitions and Access Flooring CLUSTER G				
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Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO.8			
	IRONMONGERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs			
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	CATCHES,CABIN HOOKS, ETC			
	"Solid"			
	LOCKS			
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK		R	
	Bill No. 8 Ironmongery CLUSTER G			

	Brought Forward			R	İ
	"Solid"or similar approved				
1	"Code 630" padlock	No	2		
2	"Code 460/313" Blesbok four lever lockset	No	12		
	DOOR CLOSERS AND FLOOR SPRINGS				
	"Dorma" or similar approved				
3	Dorma TS91/EN3 slide channel door closer - Non hold open (Silver)	No	4		
4	Dorma DPH301C 150 x 19mm stainless steel "D" shaped straight bolt-through pull handle (St/Steel)	No	4		
	SUNDRIES				
	"Solid" or similar approved				
5	Dorma "Code 255" door stop plugged	No	16		
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
	"Vitrex" or similar approved				
6	Pinning boards 2400 x 1200mm high fixed to brickwork	No	2		
7	Pinning boards 3000 x 1200mm high fixed to brickwork	No	4		
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
8	150 x 150mm Stainless steel plate engraved with "female" sign (St/Steel)	No	1		
9	150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)	No	1		
	Carried Forward			R	
	Section No. 5 MEDIUM ADMIN BLOCK				
	Bill No. 8 Ironmongery				
	CLUSTER G				
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	Brought Forward			R	
10	150 x 150mm Stainless steel plate engraved with electrical symbol (St/Steel)	No	2		
11	150 x 150mm Stainless steel plate engraved with "running man RH" sign (St/Steel)	No	4		
12	150 x 150mm Stainless steel plate engraved with a "Fire Hose Reel" sign (St/Steel)	No	1		
13	150 x 150mm Stainless steel plate engraved with "Fire Extinguisher" sign (St/Steel)	No	6		
14	150 x 150mm Stainless steel plate engraved with a "Arrow sign" sign (St/Steel)	No	11		
15	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "KITCHEN"	No	1		
16	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STAFF ROOM"	No	1		
17	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STATIONERY STORE"	No	1		
18	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "RECEPTION"	No	1		
19	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "SICK ROOM"	No	1		
20	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINCIPAL"	No	1		
21	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "PRINT ROOM"	No	1		
22	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "VICE PRINCIPAL"	No	1		
23	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "GENERAL OFFICE"	No	1		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 8 Ironmongery CLUSTER G			R	

	Brought Forward			R	
24	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "WAITING AREA"	No	1		
25	300 x 75 x 3mm Thick perspex plate with 40mm high engraved and paint letters to read "STRONG ROOM"	No	1		
	BATHROOM FITTINGS				
	"Buchel" or similar approved				
26	19mm Diameter chromium plated towel rail 600mm long including end brackets	No	2		
	"Kimberly-Clark" or similar approved				
27	Kimberly-Clark® Professional MR2 Satin finish Stainless Steel toilet tissue dispenser (code: SA426130), overall size 130 x 135 x 256mm high, installed by a Kimberly Clark® installation team.	No	2		
28	Kimberly-Clark® Professional Reflex® MK2 Stainless Steel hand towel dispenser (code: SA426125), overall size 310 x 280 x 400mm high, installed by a Kimberly Clark® installation team.	No	2		
29	Kimberly-Clark® Professional Foam soap dispenser colour stainless steel, overall size 134 x 120 x 250mm high, installed by a Kimberly Clark® installation team.	No	2		
	"Nampak" or similar approved				
30	Vandal resistant 2 roll holder complete fitments or similar approved	No	2		
	VERTICAL BLINDS				
	"Luxaflex" or similar approved				
31	Vertical blind system, not exceeding 2000mm high, consisting of 70mm wide vanes, powder coated aluminium headrail 44.8 x 26.5mm high, fitted with wheeled runners, connected by grey acetal spacer links with and including all necessary components to manufacturer's specifications	m	56		
	Carried Forward to Summary of Section No. 5			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 8 Ironmongery CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO. 9			
	<u>METALWORK</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	WELDED SCREENS, GATES, ETC			
	Gates to external doors			
	PRESSED STEEL DOOR FRAMES			
	1,2mm Double rebated frames suitable for one brick walls			
1	Frame for door 914 x 2032mm high and fixed fanlight 305mm high No	10		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK		R	
	Bill No. 9 Metalwork CLUSTER G			
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	Brought Forward			R	
	STEEL WINDOWS, DOORS, ETC				
	"Nty" or similar approved steel residential windows with burglar bars to all sashes				
2	Window type SWE 418, size 1511 x 1264mm high	No	14		
3	Window type SWE 37S, size 1022 x 949mm high	No	3		
4	Window type SWE 31S, size 533 x 949mm high	No	5		
5	Window type SWE 47, size 2000 x 1264mm high	No	1		
	STEEL STRONGROOM DOORS, VENTILATORS, ETC				
	"Gunnebo SA" or similar approved strongroom doors etc. suitable for 230mm walls fixed to brickwork or concrete				
6	Mutual Austen Safes DS50/2/HD SABS Category 2 (Heavy Duty) left hand strongroom with 2 x 7-lever security keylock, overall size 850 x 1860mm high with and including powder coated finish	No	1		
7	Double ended strongroom ventilator	No	1		
	STEEL ROLLER SHUTTERS ETC				
	"Wispeco" or similar approved roller shutters fixed to brickwork or concrete				
	ALUMINIUM WINDOWS, DOORS, ETC				
	Doors, windows, etc to be manufactured by an approved firm of specialists, to be of the best quality and design truly squared and unless otherwise described, prepared to receive galzing beads from the outside. All opening portions must fit perfectly on all faces and be so hung as to open and close freely without binding at any point. Wherever possible, all angles and intersections to be welded by electric welding, argon or arc welding. A sample window is to be submitted to the Architect for approval before the work is put in hand.				
	Carried Forward			R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 9 Metalwork CLUSTER G				

Brought Forward	R	
The frames generally are to be suitable for brickwork, blockwork, or concrete reveals. They are to be fitted with fixing lugs of 2,8mm aluminium 13mm wide x 100mm long welded to framing, one near each corner and intermediately not more than 300mm apart to sides top and bottom. Where concrete reveals, etc the frames are to be countersunk holed for and fitted with the necessary screws at the centres as for the lugs above.		
Immediately after the windows, doors, etc, have been delivered on to site, they are to be thouroughly overhauled, and all necessary adjustment or repairs made before they are fixed in position. Where they come into contact with brickwork, blockwork, concrete, steel, etc, the framing is to be treated with bituminuos paint in an approved manner. The windows, doors, etc, are to be placed in their positions for building in and adjusted to open and close properly and are to be securely structured to prevent distortation whilst the brickwork and lintols, are being built.		
On completion of all other work the windows, doors, are to be adjusted as necessary and rendered in a complete and satisfactory state of repair and in working order. General. All rates for doors, windows, shopfronts etc.		
should include for all galzing as specified. Glazing beads: All door, etc to be fitted with galzing beads, unless otherwise described, mitred at angles and screwed on.		
Glass and Glazing: All functional glass must be delivered to site cut to size and ready for installation and must be classified to indicate grade and thickness. Labels must remain on each piece of glass until it is glazed, inspected and officially accepted in writing by the employer, thereafter an insurance letter will follow absolving the contractor of responsibilty.		
Carried Forward Section No. 5 MEDIUM ADMIN BLOCK	R	
Bill No. 9 Metalwork CLUSTER G		

ĺ	Brought Forward	R	
ļ	AAAMSA guide		
	All windows, doors, etc shall comply with and meet the minimum recommended performance requirements as set out in the General Specification for Architectural Aluminium and Glass Products (Third Edition) as published by the Association of Architectural Aluminium Manufacturers of South Africa (AAAMSA)		
	The following specifications are to be complied with:		
	Aluminium alloy extrusion: BS 1474 Aluminium alloy sheets: SANS 903 Anodising: SANS 999 Neoprene performed seals and gaskets: SATM C542 Powder coat finishing: SANS 1274		
	<u>Finish</u>		
	The windows, doors, etc shall be natural anodised to a thickness of 25 micron and shall comply with SABS 999 and 1407		
	Glass		
	Glazing to be with patent rubber gaskets with glazing beads and comply with BS 952. Thickness of glass shall be in accordance with table 1 (Part N : Glazing). Safety glass shall comply with SABS 1263. The National Building Regulations shall be observed with regard to the specification of safety glass		
	<u>Design indemnity</u>		
	The contractor is to submit with his tender the "Form of Indemnity", annexed to this document, fully completed and signed		
	<u>Drawings</u>		
	Tenderers are referred to architect's drawings annexed to these bills of quantities for full details of windows, doors, etc		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 9	R	
	Metalwork CLUSTER G		

	Brought Forward			R	
	Pricing.				
	All window prices should include alluminium louvres as shown				
	General				
	Workshop drawings to be approved by the architect before manufacture				
	Ironmongery				
	Prices for windows shall allow for two standard stainless steel side/top hung friction hinges and one bronze anodised aluminium handle per opening sash. Prices for doors shall allow for two pairs of standard flush bolts to double doors and one-and-a-half pairs of standard hinges per door leaf.				
	Natural annodised series 340 aluminium windows, doors, etc including sub-frames, fixing, silicone sealant all round, ironmongery and glazed with 6,38mm clear laminated safetyglass unless otherwise stated				
8	Purpose made aluminium viewing panel size 2000 x 1110mm high in two equal fixed panes	No	1		
9	Purpose made sliding viewing panel size 2000 x 1110mm high in three equal leafs (W6 & W5)	No	2		
10	Purpose made aluminium double door in two equal leafs size 1575 x 2100mm high overall (D1)	No	2		
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 9 Metalwork CLUSTER G			R	

Item No			Quantity	Rate	Amount
	SECTION NO.5				
	BUILDING WORK				
	BILL NO. 10				
	PLASTERING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	GRANOLITHIC				
	Untinted granolithic on concrete				
1	25mm Thick on floors and landings	m2	68		
	SCREEDS				
	Screeds on concrete				
2	30mm Thick on floors	m2	310		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
3	On walls	m2	821		
4	On narrow widths	m2	35		
	CORNER PROTECTORS, DIVIDING STRIPS, ETC				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 10 Plastering CLUSTER G			R	

	Brought Forward		R	
	<u>Brass</u>			
5	3 x 32mm Flat section brass dividing strips between different floor finishes m	13		
	Carried Forward to Summary of Section No. 5 Section No. 5		R	<u> </u>
	MEDIUM ADMIN BLOCK Bill No. 10 Plastering CLUSTER G			

Item No			Quantity	Rate	Amount
	SECTION NO.5				
	BUILDING WORK				
	BILL NO.11				
	TILING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	WALL TILING				
	Glazed ceramic wall tiles (PC R110,00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere)				
1	On walls	m2	122		
2	On narrow widths	m2	5		
	FLOOR TILING				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 11 Tiling CLUSTER G			R	

	Brought Forward	d		R	
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
3	On floors and landings	m2	354		
4	Skirting formed of ceramic tile cut to 300 x 75mm high	m	26		
	Carried Forward to Summary of Section No. 9	5		R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 11 Tiling				
	CLUSTER G				
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Item No		Quantity	Rate	Amount
	SECTION NO.5			
	BUILDING WORK			
	BILL NO.12			
	PLUMBING AND DRAINAGE			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	"Polycop" polypropylene pipes:			
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated			
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions			
	All pipe diameters are nominal external			
	"Polylink" polypropylene pipes:			
	Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints			
	Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured			
	Carried Forward		R	
	Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			

Brought Forward	R		
Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers			
Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers			
Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same			
All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions			
All pipe diameters are nominal external			
Concrete pipes:			
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings			
Vitrified clay pipes:			
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			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
uPVC pipes and fittings:			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
uPVC pressure pipes and fittings:			
Pipes for water supply shall be of the class stated			
			<u> </u>
Carried Forward	R		
Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage			
CLUSTER G			
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Brought Forward	R	
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		
Copper pipes:		
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		
Fixing of pipes		
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level		
Lead pipes and fittings		
All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel		
Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G	R	

Brought Forward	R	İ
Reducing fittings		
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		
Wire gratings		
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
Septic tanks		
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		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster		
<u>Excavations</u>		
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 "Earthworks"		
Carried Forward	R	
Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G		

Brought Forward	R	
Laying, backfilling, bedding, etc. of pipes		
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions		
Where no manufacturers' 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		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Stainless steelbasins, sinks, wash troughs, urinals, etc.		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Waste unions		
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings		
Steel sectional water tanks		
Tanks shall comply with SABS CKS 114		
"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.		
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described		
Carried Forward Section No. 5 MEDIUM ADMIN BLOCK	R	
Bill No. 12 Plumbing and Drainage CLUSTER G		

	Brought Forward			R	
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc				
	RAINWATER DISPOSAL				
	0,6mm Galvanised sheet iron with "Chromadek" finish on one side				
1	100 x 125mm Eaves gutters with beaded front edge	m	66		
2	Extra over eaves gutter for angle	No	8		
3	Extra over eaves gutter for stopped end	No	2		
1	Extra over eaves gutter for outlet for 100mm diameter pipe	No	8		
5	100mm Diameter rainwater pipes	m	25		
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	8		
7	Extra over rainwater pipe for shoe	No	8		
	STORMWATER CHANNELS				
	15 MPa/20 mm concrete				
	SOIL DRAINAGE				
	uPVC pipes				
3	110mm Pipes vertically or ramped to cleaning eye etc (no excavation)	m	6		
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	150		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	
	Extra over uPVC pipes for fittings				
10	110mm Access bend	No	4		
11	110mm Access junction	No	3		
12	110mm Bend	No	3		
13	110mm Junction	No	3		
14	110mm uPVC rodding eye cover in end of pipe	No	2		
	Pre-cast concrete gulleys				
15	110mm Dished gulley not exceeding 1m deep with 150mm steel grate and standard concrete gulley surround	No	1		
	Concrete pipes:				
	Inspection chambers (covers elsewhere)				
16	Inspection chamber 450 x 600mm x exceeding 750mm and not exceeding 1000mm deep internally	No	1		
	Covers, etc				
17	450 x 600mm x 74kg Type 8A cast iron double seal manhole cover and frame	No	1		
	<u>Sundries</u>				
18	100mm Cast iron "ABC" cleaning eye	No	3		
19	Precast concrete inspection eye marker slab set in ground	No	5		
20	110mm Rodding eye	No	3		
21	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	2		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	_

	Brought Forward			R	
22	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	2		
	SANITARY FITTINGS				
	"Vaal" or similar approved				
23	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code: 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	3		
24	Vaal Sanitaryware Hibiscus White vitreous china close coupled washdown suite comprising 90° outlet open rim pan (product code 772600) and matching 6/3 litre front dual flush cistern (product code 710539) including "PARKER AVANT" toilet seat	No	2		
	WASTE UNIONS ETC				
	"Cobra Watertech" or similar approved				
25	38mm "Cobra 316" unslotted waste and plug with chain	No	3		
	TRAPS ETC				
	"Marley" or similar approved				
26	40mm Flexi butyl rubber trap with reseal "P" trap	No	1		
	Chromium plated				
27	32 x 40mm Bottle trap	No	3		
	CATCH PITS ETC				
	The following in stormwater catchpits, junction boxes and inlet manholes				
	TAPS, VALVES, ETC				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	
	"Cobra Watertech" or similar approved				
28	Cobra Ref. 166/041 wall type "Star" sink mixer with overarm swivel outlet	No	1		
29	Cobra Watertech 15mm chrome plated hi-waste elbow action pillartap with blue indicator for cold water (Code: 504-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	6		
30	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	8		
	SANITARY PLUMBING				
	uPVC pipes				
31	50mm Pipes	m	9		
32	50mm Pipes laid in and including trenches not exceeding 1m deep	m	16		
33	110mm Pipes	m	65		
	Extra over uPVC pipes for fittings				
34	50mm Bend	No	6		
35	50mm Access bend	No	4		
36	50mm BSP adaptor	No	2		
37	50mm "Gl Two-way" vent valve	No	1		
38	110mm Bend	No	4		
39	110mm Access bend	No	2		
40	110mm Pan Connector	No	2		
41	110mm "GI Two-way" vent valve	No	1		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	

Brought Forward	ı		R	
Sundries				
WATER SUPPLIES				
Class 16 uPVC pressure pipes with solvent welded joints				
32mm Pipes laid in and including trenches not exceeding 1m deep	m	30		
50mm Pipes laid in and including trenches not exceeding 1m deep	m	25		
Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints				
32mm Bend	No	3		
32mm Reducer	No	2		
32mm Tee	No	4		
50mm Bend	No	3		
50mm Tee	No	2		
35 x 50 x 35mm Junction	No	1		
Class 0 copper pipes				
15mm Pipes	m	85		
22mm Pipes	m	65		
Extra over class 0 copper pipes for capillary fittings				
15mm Fittings	No	44		
22mm Fittings	No	37		
<u>Brass</u>				
15mm Fullway gate valve	No	1		
Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G	I		R	
	Sundries WATER SUPPLIES Class 16 uPVC pressure pipes with solvent welded joints 32mm Pipes laid in and including trenches not exceeding 1m deep 50mm Pipes laid in and including trenches not exceeding 1m deep Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints 32mm Bend 32mm Reducer 32mm Tee 50mm Bend 50mm Tee 35 x 50 x 35mm Junction Class 0 copper pipes 15mm Pipes 22mm Pipes Extra over class 0 copper pipes for capillary fittings 15mm Fittings 22mm Fittings Brass 15mm Fullway gate valve Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage	WATER SUPPLIES Class 16 uPVC pressure pipes with solvent welded joints 32mm Pipes laid in and including trenches not exceeding 1m deep m 50mm Pipes laid in and including trenches not exceeding 1m deep m Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints 32mm Bend No 32mm Reducer No 32mm Tee No 50mm Tee No 50mm Tee No Class 0 copper pipes 15mm Pipes m Extra over class 0 copper pipes for capillary fittings 15mm Fittings No 22mm Fittings No Brass 15mm Fullway gate valve No Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage	Sundries WATER SUPPLIES Class 16 uPVC pressure pipes with solvent welded joints 32mm Pipes laid in and including trenches not exceeding 1m deep m 30 50mm Pipes laid in and including trenches not exceeding 1m deep m 25 Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints 32mm Bend No 3 32mm Reducer No 2 32mm Tee No 4 50mm Bend No 3 50mm Tee No 2 35 x 50 x 35mm Junction No 1 Class 0 copper pipes 15mm Pipes m 85 22mm Pipes m 65 Extra over class 0 copper pipes for capillary fittings 15mm Fittings No 44 22mm Fittings No 37 Brass 15mm Fullway gate valve No 1 Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage	Sundries WATER SUPPLIES Class 16 uPVC pressure pipes with solvent welded ioints 32mm Pipes laid in and including trenches not exceeding 1m deep 50mm Pipes laid in and including trenches not exceeding 1m deep m 25 Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints 32mm Bend No 3 32mm Reducer No 2 32mm Tee No 4 50mm Bend No 3 50mm Tee No 2 35 x 50 x 35mm Junction No 1 Class 0 copper pipes 15mm Pipes m 65 Extra over class 0 copper pipes for capillary fittings 15mm Fittings No 44 22mm Fittings No 37 Brass 15mm Fullway gate valve No 1 Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage

	Brought Forward			R	
55	22mm Fullway gate valve	No	1		
	Rainwater Tanks				
56	Provide a sum of R25 000,00 (Twenty Five Thousand Rand) for the supply and installation of Rainwater tanks complete by Specialists		Item		25,000.00
57	Allow for giving every facility to Specialists as described		Item		
58	Allow for profit on above if required		Item		
	Sundries				
	ELECTRIC WATER HEATERS				
	"Kwikot" or similar approved				
59	Kwikot 150 Litre Slimline 600 Dual electric water heater (Code: ESG-100) complying with SABS 151-2002, overall size 990 x 480mm high, operating at 400kPa with temperature and pressure safety relief valve including 20mm female draincock with inlet compression. Geyser to be installed horizontally in roof space with 1160 x 560mm wide polyethylene drip tray with union and back nut connected to 20mm PVC overflow pipe taken out at eaves (Code: GSTP-1200) and 15mm pipe work including two 15mm vacuum breakers (Code: KHN4.150CX) installed on hot and cold water supply. Installation to include a 15mm 400kPa Kwikot Mono control and expansion relief valve (Code: KHN3.104), all in accordance with SANS 10254, connected to single phase electrical power supply with isolator 1m away from connection on geyser.	No	1		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	
l	'Chubb' or similar approved			ľ	
60	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	6		
61	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1		
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 12 Plumbing and Drainage CLUSTER G			R	

Item No			Quantity	Rate	Amount	
	SECTION NO.5					
	BUILDING WORK					
	BILL NO. 13					
	GLAZING					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
						
	GLAZING TO STEEL WITH PUTTY					
	4mm Clear float glass					
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	3			
2	Panes exceeding 0,5m2 and not exceeding 2m2	m2	22			
	4mm Rough cast glass					
3	Panes exceeding 0,5m2 and not exceeding 2m2	m2	4			
	TOPS, SHELVES, DOORS, MIRRORS, ETC					
	4 mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete					
4	Mirror 400 x 600mm high with four (4) screws	No	3			
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 13 Glazing CLUSTER G			R		_ =

Item No		Quantity	Rate	Amount	
	SECTION NO.5				
	BUILDING WORK				
	BILL NO. 14				
	<u>PAINTWORK</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	DESCRIPTIONS				
	Descriptions of paintwork shall be deemed to include for all cutting in				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with "Plascon- Evans" specifications				
	PAINTWORK ETC TO NEW WORK				
	ON FLOATED PLASTER				
					_
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 14 Paintwork		R		
	CLUSTER G				

	Brought Forward			R	
	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
1	On internal walls	m2	699		
	ON SMOOTH CONCRETE				
	Prepare surfaces and remove all loose material, and rinse. Apply flexible crackfiller to holes and cracks, one coat plaster primer and two coats Plascon Professional Copolymer Acrylic paint				
2	On ceilings, beams, walls and columns	m2	12		
	ON FIBRE-CEMENT				
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint				
3	On ceilings and cornices	m2	354		
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
4	On fascias and barge boards	m2	53		
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.				
5	On window sills not exceeding 300 mm girth	m	99		
	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
6	On door frames	m2	23		
7	On strong room doors	m2	5		
8	On windows with burglar bars	m2	69		
9	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	28		
10	On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high	m	99		
	ON WOOD				
	Carried Forward Section No. 5 MEDIUM ADMIN BLOCK Bill No. 14 Paintwork CLUSTER G			R	

ĺ	Brought Forward	ı	1	R∥	
	Plascon Velvaglo Satin to interior new wood (NW 571).Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
11	On doors	m2	35		
	Three coats matt varnish				
12	On doors	m2	11		
13	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	325		
	Carried Forward to Summary of Section No. 5 Section No. 5 MEDIUM ADMIN BLOCK Bill No. 14 Paintwork CLUSTER G			R	

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Carried to Final Summary	
Section No. 5 MEDIUM ADMIN BLOCK CLUSTER G	

Item No		Quantity	Rate	Amount	
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.1				
	FOUNDATIONS				
	<u>EARTHWORKS</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground				
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"				
	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				
	Carried Forward Section No. 6		R		
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
	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				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said cerfificate to the Principal Agent				
	SITE CLEARANCE, ETC.				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	720		
	REMOVAL TREES, ETC.				
	Taking out and removing, grubbing up roots and filling holes.				
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	8		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	177		
	Extra over trench and hole excavations in earth for excavation in				
4	Soft rock	m3	51		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
5	Hard rock	m3	25		
	Extra over all excavations for carting away				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	92		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	472		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
9	Under floors, steps, paving, etc	m3	108		
	Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density				
10	Backfilling to trenches, holes, etc	m3	177		
11	Under floors, steps, paving etc.	m3	108		
	Compaction of surfaces				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density				
	density	m2	720		
	Prescribed density tests on filling				
13	"Modified AASHTO Density" test	No	20		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
	SOIL POISONING				
	Soil insecticide				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	720		
15	To bottoms and sides of trenches etc	m2	649		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
16	Foundation beam	m3	44		
	TEST CUBES				
17	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	20.0		
	REINFORCEMENT				
	Mild steel reinforcement to structural concrete work				
18	8mm Diameter bars	t	2.40		
	High tensile steel reinforcement to structural concrete work				
19	12mm Diameter bars	t	5.00		
20	16mm Diameter bars	t	3.60		
	BRICKWORK				
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
l,	Brickwork of NFP bricks in class II mortar				
21	One brick walls	m2	236		
	BRICKWORK SUNDRIES				
	Joint forming material in movement joints:				
22	12mm Fibre board built in vertically between brick skins.	m2	20		
	Brickwork reinforcement				
23	150mm Wide reinforcement built in horizontally	m	694		
	FACE BRICKWORK				
	Face bricks (Purchase price of R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
24	Extra over brickwork for face brickwork	m2	177		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
25	Coping on top of one brick wall	m	58		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.6			
	BUILDING WORK			
	BILL NO.2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)			
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R	

	Brought Forward			R	
	<u>Formwork</u>				
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	UNREINFORCED CONCRETE				
	20MPa/19mm concrete				
1	Aprons cast in panels to falls	m3	8		
2	Ramps	m3	6		
3	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	152		
	Carried Forward			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G				

	Brought Forward			R	
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
4	Surface beds cast in panels on waterproofing.	m3	126		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with power floated finish				
5	Surface beds, slabs, etc	m2	720		
	Finishing top surfaces of concrete smooth with a steel trowel				
6	Ramp to falls	m2	17		
	Finishing top surfaces of concrete smooth with a wood float				
7	Surface beds, slabs, etc	m2	104		
8	Aprons to falls	m2	182		
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	60		
	TEST CUBES				
10	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	20.0		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

	Brought Forward			R	
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces				
11	15mm Joints exceeding 300mm high	m	20		
	Saw cut joints				
12	Saw cut joints in top of concrete	m	124		
	REINFORCEMENT				
	Mild steel reinforcement to structural concrete work				
13	8mm Diameter bars	t	10.00		
	High tensile steel reinforcement to structural concrete work				
14	12mm Diameter	t	4.00		
15	10mm Diameter bars	t	3.18		
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
16	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	720		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.6			
	BUILDING WORK			
	BILL NO. 3			
	MASONRY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 3		R	
	Masonry CLUSTER G			

	Brought Forward			R	
	Reinforced brick lintels				
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
1	L-shaped piers	m3	3		
2	One brick walls	m2	802		
	Joint forming material in movement joints:				
3	12mm Bitumen impregnated fibre board built in vertically between brick skins not exceeding 300mm wide.	m2	163		
	Brickwork reinforcement				
4	150mm Wide reinforcement built in horizontally	m	2,359		
	Turning pieces				
5	230mm Wide turning piece to lintels etc	m	65		
	"Allied Concrete" prestressed fabricated lintels				
6	110 x 75mm Lintels in lengths not exceeding 3m	m	6		
	Carried Forward			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 3 Masonry CLUSTER G				

	Brought Forward			R	
	Galvanised wire ties etc				
7	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	92		
	FACE BRICKWORK				
	Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
8	Extra over brickwork for face brickwork	m2	708		
9	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	25		
10	Extra over for facings in beamfilling for face brickwork	m2	80		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
11	Extra over brickwork for brick-on-edge header course lintel	m	65		
	Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
12	220mm Wide sill set sloping and slightly protecting outside	m	65		
13	Coping on top of one brick wall	m	58		
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS				
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 3 Masonry CLUSTER G			R	

Ī	Brought Forward	d		R	
	Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.				
14	15mm x 150mm Wide sills set flat and slightly projecting	m	65		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 3 Masonry CLUSTER G	6		R	

Item No			Quantity	Rate	Amount
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.4				
	WATERPROOFING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Waterproofing				
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	DAMP-PROOFING OF WALLS AND FLOORS				
	One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course				
1	In walls	m2	69		
	One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
2	Under surface beds	m2	720		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 4 Waterproofing CLUSTER G			R	

	Brought Forward			R	
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary	m	124		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS			R	
	Bill No. 4 Waterproofing CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.5				
	ROOF COVERINGS ETC				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched				
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use				
	<u>Sizes</u>				
	All items are measured net unless otherwise described				
	Flashings, trimming plates, etc.				
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described				
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable				
	All items are unless otherwise described measured net				
	Carried Forward		R		
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G				
		[

	Brought Forward			R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions				
1	Roof covering with pitch not exceeding 50 degrees	m2	784		
2	Ridge capping 550mm girth	m	52		
3	Hip capping 550mm girth	m	64		
4	Gable trim 550mm girth	m	16		
	STEEL LOUVRES				
	"NTY Steelworks" or similar approved				
5	Triangular steel louvre size 3000x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	4		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.6			
	BUILDING WORK			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward Section No. 6		R	
	4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G			

Brought Forward	R	
Decorative laminate finish:		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish		
PREFABRICATED ROOF TRUSSES		
Pre-fabricated metal connected timber roof trusses		
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction		
<u>Timber</u>		
Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460		
<u>Bolts</u>		
Bolts shall be in accordance with BS 4190 or SABS 135		
Shear plates, tooth connectors and split rings		
Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759: 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"		
<u>Washers</u>		
Square or round washers of the following dimensions shall be used with all bolts:		
Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum thickness		
Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G	R	

Brought Forward	R	
Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness		
Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum thickness		
Metal connector plates		
Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel		
The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping		
All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report		
Truss construction		
Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers		
Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint		
<u>Truss design</u>		
All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")		
Truss spacing		
The truss centres shall be less than or equal to that as described in this bill for each respective truss		
Carried Forward	R	
Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G		

Brought Forward	R	
<u>Truss pitch</u>		
The truss pitch shall be as described in this bill for each respective truss type		
Truss loading		
Trusses shall be designed for a live load of 0,50kN/m2 and dead load as specified under the sub-heading "Specific load specifications for roof trusses"		
Shop drawings, design and erection guarantee certificates		
It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified		
<u>Dimensions</u>		
All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences		
<u>Erection</u>		
All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer		
<u>Design system</u>		
The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system		
Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G	R	

	Brought Forward		R	
	However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent			
	Specific specifications for roof trusses			
	Unless otherwise described, the following specifications will apply:			
	1 All trusses to be with a 10° pitch			
	The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres			
	ROOFS			
	The following in plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses			
	The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes			
	Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)			
	Allow for the preparation and submission of the following documents in respect of all buildings			
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication	Item		
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of			
	timber components, details, etc.	Item		
				—
	Carried Forward Section No. 6		R	
	4 X 2 CLASSROOM BLOCKS Bill No. 6			
	Capentry and Joinery CLUSTER G			
	OLUGIER G			

	Brought Forward			R	
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item		
	Sawn softwood				
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for 4 classroom block 370m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	2		
	Sawn softwood grade 4				
5	38 x 114mm Wall plates	m	152		
6	50 x 220mm Timber Beam	m	52		
	<u>Sundries</u>				
7	Two coats creosote on sawn timbers	m2	46		
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
8	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	148		
	<u>SKIRTINGS</u>				
	Wrought meranti				
9	19 x 76mm Skirting including 19mm quadrant bead nailed	m	334		
	DOORS, ETC				
	Carried Forward			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G				

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
10	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D3)	No	8		
	40mm Solid core flush panel doors with two concealed edges, 3mm masonite board on both sides prepared for painting fixed on the steel door frame. (painting measured some where else)				
11	Door 813 x 2032mm high	No	8		
	<u>FITTINGS</u>				
	Shelving to various stores				
	"Novalam" particle board with white melamine laminated finish on one side				
12	16mm Tops, shelves, sides, divisions, etc	m2	379		
	Classroom School Furnitures, etc				
13	Provide the sum of R200 000,00 (Two Hundred Thousand Rands) for classroom school furniture by Specialists		ltem		200,000.00
14	Allow for giving every facility to Specialists as described		Item		
15	Allow for profit on above if required		Item		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery				
	CLUSTER G				

SECTION NO.6			
BUILDING WORK			
BILL NO.7			
CEILING, ETC.			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
SUPPLEMENTARY PREAMBLES			
<u>Descriptions:</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
CEILING CONSTRUCTION, CORNICES, ETC.			
<u>Insulation</u>			
100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.			
	572		
Sawn softwood			
38 x 114mm Ceiling joists (Provisional)	1,042		
Carried Forward		R	
Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring CLUSTER G			
	BILL NO.7 CEILING , ETC. For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Descriptions: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere CEILING CONSTRUCTION, CORNICES, ETC. Insulation 100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling. M2 Sawn softwood 38 x 114mm Ceiling joists (Provisional) Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring	BILL NO.7 CEILING , ETC. For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Descriptions: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere CEILING CONSTRUCTION, CORNICES, ETC. Insulation 100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling. m2 572 Sawn softwood 38 x 114mm Ceiling joists (Provisional) Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS BIII No. 7 Ceilings, Partitions and Access Flooring	BILL NO.7 CEILING , ETC. For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Descriptions: Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere CEILING CONSTRUCTION, CORNICES, ETC. Insulation 100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling. m2 572 Sawn softwood 38 x 114mm Ceiling joists (Provisional) Carried Forward R Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring

	Brought Forward			R	
	"Rhino" gypsum plasterboard cornices				
3	75mm Coved cornices	m	772		
	NAILED UP AND SCREWED UP CEILINGS				
	6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints				
4	Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.				
	garamosa nane.	m2	549		
5	Sloping ceilings including 38 x 38mm sawn softwood brandering at 450mm centres	m2	138		
6	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	8		
	Committed Francisco Line 10 Committee Committe				
	Carried Forward to Summary of Section No. 6 Section No. 6			R	
	4 X 2 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring CLUSTER G				
	OLUGIER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.8				
	IRONMONGERY				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	CATCHES, CABIN HOOKS, ETC				
	"Solid"				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	8			
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 8		R		
	Ironmongery CLUSTER G				

	Brought Forward			R	
	LOCKS				
	"Solid"or similar approved				
2	"Code 630" padlock	No	8		
3	"Code 460/313" Blesbok four lever lockset	No	16		
	DOOR CLOSERS AND FLOOR SPRINGS				
	"Dorma" or similar approved				
	SUNDRIES				
	"Solid" or similar approved				
4	Dorma "Code 255" door stop plugged	No	16		
	"Algoran Shelvit" with standard epoxy powder coated finish				
5	Double slot wall bands plugged	m	116		
6	457mm Shelf bracket	No	316		
	STEEL CUPBOARDS				
	Aproved steel lockers with standard baked enamel finish				
7	G10 Double door steel cupboard 914 x 457 x 1828mm high with five shelves bolted to brickwork	No	8		
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
	"Vitrex" or similar approved				
8	Pinning boards 4000 x 1200mm high fixed to brickwork	No	16		
9	2000 x 1300 mm White Porcelain magnetic marker board				
	board	No	8		
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 8 Ironmongery CLUSTER G			R	

	Brought Forward			R	
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
10	150 x 150mm Stainless steel plate engraved with a "Fire Hose Reel" sign (St/Steel)	No	2		
11	150 x 150mm Stainless steel plate engraved with "Fire Extinguisher" sign (St/Steel)	No	8		
12	150 x 150mm Stainless steel plate engraved with a "Arrow sign" sign (St/Steel)	No	8		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 8 Ironmongery CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.6			
	BUILDING WORK			
	BILL NO. 9			
	METALWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	SUNDRY METALWORK			
	The following in identical steel support columns			
1	Bolts, complete with nuts and two washers each kg	500		
2	76 x 76 x 3mm Tubular section columns 3050mm high No	30		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 9 Metalwork		R	
	CLUSTER G			

	Brought Forward			R	
3	75 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)				
	(Flovisional)	No	30		
4	200 x 200 x 5mm Thick Base plate, with four holes for bolts and welded to bottom end of tubular section column	No	30		
5	12mm Diameter x 75mm long sleeved masonry anchor	No	30		
	WELDED SCREENS, GATES, ETC				
	Gates to external doors				
6	Gate and frame 900 x 2100mm high complete (G1)				
		No	8		
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for one brick walls				
7	Frame for door 813 x 2032mm high	No	16		
	STEEL WINDOWS, DOORS, ETC				
	"Nty" or similar approved steel residential windows with burglar bars to all sashes				
8	NTY Standard School type window "Code 5/2" size 1143 x 1272mm high (W1)	No	72		
9	NTY Standard School type window "Code 5/2" size 1143 x 859mm high (W2)	No	8		
	Carried Forward to Summary of Section No. 6			R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 9 Metalwork CLUSTER G				

Item No			Quantity	Rate	Amount
	SECTION NO.6				
	BUILDING WORK				
	BILL NO. 10				
	PLASTERING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	GRANOLITHIC				
	Untinted granolithic on concrete				
1	25mm Thick on floors and landings	m2	137		
	SCREEDS				
	Screeds on concrete				
2	30mm Thick on floors	m2	509		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
3	On walls	m2	685		
4	On narrow widths	m2	37		
	Carried Forward to Summary of Section No. 6 Section No. 6			R	
	4 X 2 CLASSROOM BLOCKS Bill No. 10				
	Plastering CLUSTER G				
	OLOGIEK O				

Item No		Quantity	Rate	Amount	
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.11				
	TILING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	FLOOR TILING				
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings m2	687			
2	Skirting formed of ceramic tile cut to 300 x 75mm high				
	Carried Forward to Summary of Section No. 6		R		_
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 11 Tiling CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.6				
	BUILDING WORK				
	BILL NO.12				
	PLUMBING AND DRAINAGE				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	"Polycop" polypropylene pipes:				
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
	All pipe diameters are nominal external				
	RAINWATER DISPOSAL				
	0,6mm Galvanised sheet iron with "Chromadek" finish on one side				
1	100 x 125mm Eaves gutters with beaded front edge m	176			
	Carried Forward Section No. 6		R		_
	4 X 2 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G				

	Brought Forward	ı		R	
2	Extra over eaves gutter for angle	No	8		
3	Extra over eaves gutter for outlet for 100mm diameter pipe	No	8		
4	100mm Diameter rainwater pipes	m	32		
5	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	8		
6	Extra over rainwater pipe for shoe	No	8		
	STORMWATER CHANNELS				
	15 MPa/20 mm concrete				
7	Stormwater channel cast in panels	m3	76		
	FIRE APPLIANCES ETC				
	'Chubb' or similar approved				
8	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	8		
9	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	2		
	Carried Forward to Summary of Section No. 6 Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G	3		R	_

Item No		Quantity	Rate	Amount
	SECTION NO.6			
	BUILDING WORK			
	BILL NO. 13			
	GLAZING			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	GLAZING TO STEEL WITH PUTTY			
	4mm Clear float glass			
1	Panes exceeding 0,5m2 and not exceeding 2m2 m	2 86		
	4mm Rough cast glass			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2 m	2 43		
	Carried Forward to Summary of Section No. 6		R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS			
	Bill No. 13			
	Glazing CLUSTER G			

Item No		Quantity	Rate	Amount	
	SECTION NO.7				
	BUILDING WORK				
	BILL NO. 14				
	<u>PAINTWORK</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	DESCRIPTIONS				
	Descriptions of paintwork shall be deemed to include for all cutting in				
	PAINT SPECIFICATIONS				
	All painting shall be done in accordance with "Plascon- Evans" specifications				
	PAINTWORK ETC TO NEW WORK ON FLOATED PLASTER				
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G		R		_

	Brought Forward			R	
3	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
1	On internal walls	m2	686		
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint				
2	On ceilings and cornices	m2	710		
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
3	On fascias and barge boards	m2	148		
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.				
4	On window sills not exceeding 300 mm girth	m	184		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
5	On door frames	m2	20		
6	On windows with burglar bars	m2	230		
7	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	30		
8	On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high	m	176		
	ON WOOD				
	Plascon Velvaglo Satin to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
9	On doors	m2	56		
	Carried Forward Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	Three coats matt varnish				
10	On doors	m2	56		
11	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	334		
	Carried Forward to Summary of Section No. 6			R	_
	Section No. 6 4 X 2 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G				
	CLUSIER G				

	Section No. 6			
	4 X 2 CLASSROOM BLOCKS			
	SECTION SUMMARY - 4 X 2 CLASSROOM BLOCKS			
Bill No		Page No		Amount
1	Foundations	182		
2	Concrete, Formwork and Reinforcement	186		
3	Masonry	190		
4	Waterproofing	192		
5	Roof Coveringss, etc	194		
6	Capentry and Joinery	201		
7	Ceilings, Partitions and Access Flooring	203		
8	Ironmongery	206		
9	Metalwork	208		
10	Plastering	209		
11	Tiling	210		
12	Plumbing and Drainage	212		
13	Glazing	213		
14	Paintwork	217		
	Carried to Final Summary		R	
	Section No. 6 4 X 2 CLASSROOM BLOCKS			
	CLUSTER G			

Item No		Quantity	Rate	Amount	İ
	SECTION NO.7				l
	BUILDING WORK				l
	BILL NO.1				l
	<u>FOUNDATIONS</u>				l
	<u>EARTHWORKS</u>				l
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
					l
	SUPPLEMENTARY PREAMBLES				l
	Nature of ground				l
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"				
	Excavation for working space in rock				l
	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				l
	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				
					l
	Carried Forward Section No. 7		R		_
	2 x 3 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G				
					ı

	Brought Forward			R	
I.	<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				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said cerfificate to the Principal Agent				
	SECTION NO.5				
	SITE CLEARANCE, ETC.				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	662		
	REMOVAL TREES, ETC.				
	Taking out and removing, grubbing up roots and filling holes.				
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	8		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	190		
					_
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R	
	Extra over trench and hole excavations in earth for excavation in				
4	Soft rock	m3	19		
5	Hard rock	m3	9		
	Extra over all excavations for carting away				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	107		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	474		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
9	Under floors, steps, paving, etc	m3	71		
	Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density				
10	Backfilling to trenches, holes, etc	m3	101		
1	Under floors, steps, paving etc.	m3	109		
	Compaction of surfaces				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density				
	·	m2	441		
	Carried Forward			R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
	Prescribed density tests on filling				
13	"Modified AASHTO Density" test	No	36		
	SOIL POISONING				
	Soil insecticide				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	441		
15	To bottoms and sides of trenches etc	m2	355		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
16	Foundation beam	m3	57		
	Fabric reinforcement				
17	Type 395 fabric reinforcement in concrete surface beds, slabs, etc	m2	441		
	TEST CUBES				
18	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	8.0		
	BRICKWORK				
	Brickwork of NFP bricks in class II mortar				
19	One brick walls	m2	218		
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R	

	Brought Forward			R
	BRICKWORK SUNDRIES			
	Joint forming material in movement joints:			
0	12mm Fibre board built in vertically between brick skins.	m2	48	
	Brickwork reinforcement			
21	150mm Wide reinforcement built in horizontally	m	1,197	
	FACE BRICKWORK			
	Face bricks (Purchase price of R 4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints			
2	Extra over brickwork for face brickwork	m2	209	
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R 4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces			
3	Coping on top of one brick wall	m	158	
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 1 Foundations CLUSTER G			R

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)			
	Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R	

	Brought Forward			R	
	<u>Formwork</u>				
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	20MPa/19mm concrete				
1	Aprons cast in panels to falls	m3	15		
2	Ramps	m3	5		
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
3	Surface beds cast in panels on waterproofing	m3	40		
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

	Brought Forward		[R
	CONCRETE SUNDRIES			
	Finishing top surfaces of concrete smooth with a steel trowel			
4	Surface beds, slabs, etc	m2	86	
5	Ramp to falls	m2	6	
	Finishing top surfaces of concrete smooth with a wood float			
6	Aprons to falls	m2	169	
	Finishing top surfaces of concrete smooth with power floated finish			
7	Surface beds, slabs, etc	m2	356	
	<u>FORMWORK</u>			
	ROUGH FORMWORK (DEGREE OF ACCURACY II)			
	Rough formwork to sides			
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	123	
	TEST CUBES			
9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith. (Provisional)	Sets	8.6	
	MOVEMENT JOINTS ETC			
	Carried Forward			R
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			

10 13 S D S S S S S S S S S S S S S S S S S	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces 15mm Joints exceeding 300mm high (Provisional) Saw cut joints Saw cut joints in top of concrete (Provisional)	m	16	
11 S 12 6 3 R 13 S m 21	Saw cut joints	m	16	
11 S D 12 6 3 R E 13 S m 20				ll l
12 6 3 R F: 13 S m 20	Saw cut joints in top of concrete (Provisional)			
12 6 3 R E E 13 S m 20		m	124	
13 S m 20	DIVIDING STRIPS, ETC.			
13 S m 20	6 x 38mm Angle iron step guard cast into concrete with 3 x 6mm anchors	m	5	
13 S m 20	REINFORCEMENT (PROVISIONAL)			
m 20	Fabric reinforcement			
	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	441	
1				
				R
Si 2 Bi C	Carried Forward to Summary of Section No. 7			· `

	Quantity	Rate	Amount
SECTION NO.7			
BUILDING WORK			
BILL NO. 3			
MASONRY			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
SUPPLEMENTARY PREAMBLES			
BRICKWORK			
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			
Linings to concrete			
Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
Hollow walls etc			
Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS		R	
Bill No. 3 Masonry CLUSTER G			
	BUILDING WORK BILL NO. 3 MASONRY For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES BRICKWORK 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 Linings to concrete Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties Hollow walls etc Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole Carried Forward Section No. 7 2 × 3 CLASSROOM BLOCKS Bill No. 3 Masonry	SECTION NO.7 BUILDING WORK BILL NO. 3 MASONRY For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES BRICKWORK 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 Linings to concrete Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties Hollow walls etc Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 3 Masonry	SECTION NO.7 BUILDING WORK BILL NO. 3 MASONRY For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES BRICKWORK 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 Linings to concrete Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties Hollow walls etc Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole Carried Forward R Section No. 7 2 × 3 CLASSROOM BLOCKS BIII No. 3 Masonry

	Brought Forward			R	1
	Reinforced brick lintels				
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
1	L-shaped piers	m3	2		
2	Half brick walls in beamfilling.	m2	91		
3	One brick walls	m2	480		
	Brickwork reinforcement				
4	150mm Wide reinforcement built in horizontally	m	1,762		
	Turning pieces				
5	230mm Wide turning piece to lintels etc	m	28		
	"Allied Concrete" prestressed fabricated lintels				
6	110 x 75mm Lintels in lengths not exceeding 3m (Provisional)	m	28		
					<u></u>
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 3			R	
	Masonry CLUSTER G				
		- 1			

	Brought Forward			R	
	Galvanised wire ties etc				
7	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)	No	80		
	FACE BRICKWORK				
	Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
8	Extra over brickwork for face brickwork	m2	480		
9	Extra over for facing in piers, including bonding and pointed with recesses joints on all exposed faces	m2	20		
10	Extra over for facings in beamfilling for face brickwork	m2	69		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
11	Extra over brickwork for brick-on-edge header course lintel	m	27		
	Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
12	Coping on top of one brick wall	m	46		
13	220mm Wide sill set sloping and slightly protecting outside	m	20		
	NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS				
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 3 Masonry CLUSTER G			R	

	Brought Forward			R	
	Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.				
14	15mm x 150mm Wide sills set flat and slightly projecting	m	21		
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 3 Masonry CLUSTER G			R	

Item No		Quanti	ty Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.4			
	WATERPROOFING			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Waterproofing			
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	DAMP-PROOFING OF WALLS AND FLOORS			
	One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course			
1	In walls	m2	52	
	One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"			
2	Under surface beds	m2 4	41	
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 4 Waterproofing CLUSTER G		R	
	CLUSIER G			

	Brought Forward			R	
	JOINT SEALANTS ETC				
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary (Provisional)	m	10		
	Carried Forward to Summary of Section No. 7			R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 4 Waterproofing				=
	CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.5			
	ROOF COVERINGS ETC			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	Flashings, trimming plates, etc.			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
	Carried Forward		R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G			

	Brought Forward			R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions				
1	Roof covering with pitch not exceeding 50 degrees	m2	980		
2	Ridge capping 550mm girth	m	42		
3	Hip capping 550mm girth	m	51		
4	Gable trim 550mm girth	m	13		
	STEEL LOUVRES				
	"NTY Steelworks" or similar approved				
5	Triangular steel louvre size 3000x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	2		
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 6		R	
	Capentry and Joinery CLUSTER G			

Brought Forward	R	
Decorative laminate finish:		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish		
PREFABRICATED ROOF TRUSSES		
Pre-fabricated metal connected timber roof trusses		
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction		
<u>Timber</u>		
Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460		
<u>Bolts</u>		
Bolts shall be in accordance with BS 4190 or SABS 135		
Shear plates, tooth connectors and split rings		
Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"		
<u>Washers</u>		
Square or round washers of the following dimensions shall be used with all bolts:		
Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum thickness		
		_
Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G	R	

Brought Forward	R	
Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness		
Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum thickness		
Metal connector plates		
Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel		
The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping		
All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report		
Truss construction		
Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers		
Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint		
<u>Truss design</u>		
All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")		
Truss spacing		
The truss centres shall be less than or equal to that as described in this bill for each respective truss		
Carried Forward	R	_
Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G		

	Brought Forward	R	
Trus	es pitch		
1	truss pitch shall be as described in this bill for each ective truss type		
Trus	es loading		
and	ses shall be designed for a live load of 0,50kN/m2 dead load as specified under the sub-heading ecific load specifications for roof trusses"		
	p drawings, design and erection guarantee ficates		
prep from shop	Il be expected from the Contractor to timeously pare, submit and obtain the necessary approvals the Representative/Agent in respect of the required or drawings, design and erection guarantee ficates as specified		
Dime	<u>ensions</u>		
are i	limensions given in the descriptions of the trusses nominal and actual measurements are to be ined by actual measurements taken on the site are design or fabrication commences		
Erec	<u>ction</u>		
acco of th Trus Cons Prac Timb	russes are to be hoisted and erected strictly in ordance with the procedures and recommendations be manual "The Erection and Bracing of Timber roof eses" as published by the Institute for Timber struction and the CSIR, or the SABS Code of etice "The Design, Manufacture and Erection of the Design, or as designed and detailed by designer		
<u>Desi</u>	ign system		
on the	design system as documented in this bill is based the "MiTek" system and all references given in the criptions are related to specific type of trusses based his design system		
			_
2 x 3 Bill N Cape	Carried Forward ion No. 7 3 CLASSROOM BLOCKS No. 6 entry and Joinery ISTER G	R	

	Brought Forward		R		
	However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent				
	Specific specifications for roof trusses				
	Unless otherwise described, the following specifications will apply:				
	1 All trusses to be with a 10° pitch				
	The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres				
	ROOFS				
	The following in plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses				
	The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes				
	Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)				
	Allow for the preparation and submission of the following documents in respect of all buildings				
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication	Item			
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of				
	timber components, details, etc.	Item			
					—
	Carried Forward Section No. 7		R		
	2 x 3 CLASSROOM BLOCKS Bill No. 6				
	Capentry and Joinery CLUSTER G				
				ı	

	Brought Forward			R	
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item		
	Sawn softwood				
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for 3 classroom approximately 280m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	1		
	Sawn softwood grade 4				
5	38 x 114mm Wall plates	m	125		
6	50 x 220mm Timber Beam	m	48		
	<u>Sundries</u>				
7	Two coats creosote on sawn timbers	m2	37		
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
8	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	133		
	SKIRTINGS				
	Wrought meranti				
9	19 x 76mm Skirting including 19mm quadrant bead nailed	m	223		
	DOORS, ETC				
	Carried Forward			R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G				

	Brought Forward			R	
	Wrought meranti doors hung to steel frames				
10	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D1)				
		No	5		
	Classroom School Furnitures, etc				
11	Provide the sum of R200 000,00 (Two Hundred Thousand Rands) for classroom school furniture by Specialists		Item		192,000.00
12	Allow for giving every facility to Specialists as described		Item		
13	Allow for profit on above if required		Item		
	Carried Forward to Summary of Section No. 7 Section No. 7			R	
	2 x 3 CLASSROOM BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.7			
	CEILING, ETC.			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Descriptions:			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	CEILING CONSTRUCTION, CORNICES, ETC.			
	<u>Insulation</u>			
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.	2 441		
	Sawn softwood			
2	38 x 114mm Ceiling joists (Provisional)	n 918		
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring CLUSTER G		R	

	Brought Forward			R	
	"Rhino" gypsum plasterboard cornices				
3	75mm Coved cornices	m	281		
	NAILED UP AND SCREWED UP CEILINGS				
	6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints				
4	Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.	m2	288		
5	Sloping ceilings including 38 x 38mm sawn softwood brandering at 450mm centres	m2	107		
6	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	5		
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO.8			
	IRONMONGERY			
	CATCHES, CABIN HOOKS, ETC			
	"Solid"			
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	6		
	LOCKS			
	"Solid"			
2	"Code 630" padlock No	6		
3	"Code 460/313" Blesbok four lever lockset No	6		
	SUNDRIES			
	"Solid" or similar approved			
4	Dorma "Code 255" door stop plugged No	5		
	"Algoran Shelvit" with standard epoxy powder coated finish			
5	Double slot wall bands plugged m	77		
6	457mm Shelf bracket No	254		
	"Vitrex" or similar approved			
7	Pinning boards 2400 x 1200mm high fixed to brickwork No	12		
	Carried Forward		R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 8 Ironmongery CLUSTER G			
		I	I	II I

	Brought Forward			R	
8	2000 x 1300 mm White Porcelain magnetic marker board	No	6		
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
9	150 x 150mm Stainless steel plate engraved with a "Fire Hose Reel" sign (St/Steel)	No	2		
10	150 x 150mm Stainless steel plate engraved with "Fire Extinguisher" sign (St/Steel)	No	2		
11	150 x 150mm Stainless steel plate engraved with a "Arrow sign" sign (St/Steel)	No	2		
	Carried Forward to Summary of Section No. 7			R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 8 Ironmongery CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.7			
	BUILDING WORK			
	BILL NO. 9			
	METALWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	SUNDRY METALWORK			
	The following in identical steel support columns			
1	Bolts, complete with nuts and two washers each kg	50		
2	100 x 100 x 5mm Tubular section columns 3050mm high No	66		
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 9 Metalwork CLUSTER G		R	

	Brought Forward			R	
3	100 x 6mm Flat section fixing plate 120mm, twice holed for bolt and welded to top end of tubular section column (Provisional)				
	(FTOVISIONAL)	No	29		
4	200 x 200 x 5mm Thick Base plate, with four holes for bolts and welded to bottom end of tubular section column	No	40		
5	12mm Diameter x 75mm long sleeved masonry anchor (Provisional)	No	40		
	WELDED SCREENS, GATES, ETC				
	Gates to external doors				
6	Gate and frame 900 x 2100mm high complete (G1)				
		No	6		
	1 2mm Double releated frames quitable for one brief				
	1,2mm Double rebated frames suitable for one brick walls				
7	Frame for door 914 x 2032mm high	No	6		
	STEEL WINDOWS, DOORS, ETC				
	"Nty" steel residential windows with burglar bars to all sashes				
8	NTY Standard School type window "Code 5/2" size 1143 x 1332mm high (W1)	No	4		
	Carried Forward to Summary of Section No. 7			R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 9 Metalwork				
	CLUSTER G				

Item No			Quantity	Rate	Amount	
	SECTION NO.7					
	BUILDING WORK					
	BILL NO. 10					
	<u>PLASTERING</u>					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SCREEDS					
	Screeds on concrete					
1	30mm Thick on floors	m2	441			
	INTERNAL PLASTER					
	Cement plaster on brickwork					
2	On walls	m2	755			
3	On narrow widths	m2	36			
						_
	Carried Forward to Summary of Section No. 7			R		_
	Section No. 7 2 x 3 CLASSROOM BLOCKS					_
	Bill No. 10 Plastering					
	CLUSTER G					

Item No		Ī	Quantity	Rate	Amount
	SECTION NO.7				
	BUILDING WORK				
	BILL NO.11				
	TILING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	FLOOR TILING				
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings	m2	441		
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	403		
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 11 Tiling CLUSTER G			R	

		Rate	Amount	
SECTION NO.7				
BUILDING WORK				
BILL NO.12				
PLUMBING AND DRAINAGE				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
SUPPLEMENTARY PREAMBLES				
"Polycop" polypropylene pipes:				
Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
All pipe diameters are nominal external				
RAINWATER DISPOSAL				
0,6mm Galvanised sheet iron with "Chromadek" finish on one side				
100 x 125mm Eaves gutters with beaded front edge m	122			
Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G		R		_
	BUILDING WORK BILL NO.12 PLUMBING AND DRAINAGE For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES "Polycop" polypropylene pipes: Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are nominal external RAINWATER DISPOSAL 0.6mm Galvanised sheet iron with "Chromadek" finish on one side 100 x 125mm Eaves gutters with beaded front edge m Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage	BUILDING WORK BILL NO.12 PLUMBING AND DRAINAGE For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES "Polycop" polypropylene pipes: Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are nominal external RAINWATER DISPOSAL 0.6mm Galvanised sheet iron with "Chromadek" finish on one side 100 x 125mm Eaves gutters with beaded front edge m 122 Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage	BUILDING WORK BILL NO.12 PLUMBING AND DRAINAGE For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES "Polycop" polypropylene pipes: Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are nominal external RAINWATER DISPOSAL 0.6mm Galvanised sheet iron with "Chromadek" finish on one side 100 x 125mm Eaves gutters with beaded front edge m 122 Carried Forward R Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage	BUILDING WORK BILL NO.12 PLUMBING AND DRAINAGE For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES "Polycop" polypropylene pipes: Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-tuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions All pipe diameters are nominal external RAINWATER DISPOSAL 0.6mm Galvanised sheet iron with "Chromadek" finish on one side 100 x 125mm Eaves gutters with beaded front edge m 122 Carried Forward R Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage

	Brought Forward			R	
2	Extra over eaves gutter for angle	No	10		
3	Extra over eaves gutter for stopped end	No	3		
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	10		
5	100mm Diameter rainwater pipes	m	38		
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	10		
7	Extra over rainwater pipe for shoe	No	10		
	FIRE APPLIANCES ETC				
	'Chubb'				
8	9kg Dry chemical powder fire extinguisher, including standard hard wood backing plugged and backing finished with one coat dark stain and two coats clear suede polyurethane varnish	No	5		
9	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket Carried Forward to Summary of Section No. 7	No	2	R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G			K	

Item No			Quantity	Rate	Amount	
	SECTION NO.7					
	BUILDING WORK					
	BILL NO. 13					
	GLAZING					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	GLAZING TO STEEL WITH PUTTY					
	4mm Clear float glass					
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	24			
2	Panes exceeding 0,5m2 and not exceeding 2m2	m2	69			
	4mm Rough cast glass					
3	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	26			
						_
	Carried Forward to Summary of Section No. 7 Section No. 7			R		_
	2 x 3 CLASSROOM BLOCKS Bill No. 13 Glazing					
	CLUSTER G					

Item No		Quantity	Rate	Amount
-	SECTION NO.7			
	BUILDING WORK			
	BILL NO. 14			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	DESCRIPTIONS			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	PAINT SPECIFICATIONS			
	All painting shall be done in accordance with "Plascon- Evans" specifications			
	PAINTWORK ETC TO NEW WORK			
	ON FLOATED PLASTER			
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS		R	
	Bill No. 14 Paintwork CLUSTER G			

	Brought Forward			R	
3	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205).Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
1	On internal walls	m2	300		
	ON FIBRE-CEMENT				
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint				
2	On ceilings and cornices	m2	441		
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
3	On fascias and barge boards	m2	61		
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.				
4	On window sills not exceeding 300 mm girth	m	52		
	Carried Forward Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
5	On door frames	m2	9		
6	On windows with burglar bars	m2	138		
7	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	18		
8	On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high	m	243		
	ON WOOD				
	Three coats matt varnish				
9	On doors	m2	18		
10	On skirtings, rails, cornices etc not exceeding 300 mm girth	m	179		
	Carried Forward to Summary of Section No. 7 Section No. 7 2 x 3 CLASSROOM BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Section No. 7			
	2 x 3 CLASSROOM BLOCKS			
	SECTION SUMMARY - 2 x 3 CLASSROOM BLOCKS			
Bill No		Page No		Amount
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3	Masonry	231		
4	Waterproofing	233		
5	Roof Coveringss, etc	235		
6	Capentry and Joinery	242		
7	Ceilings, Partitions and Access Flooring	244		
8	Ironmongery	246		
9	Metalwork	248		
10	Plastering	249		
11	Tiling	250		
12	Plumbing and Drainage	252		
13	Glazing	253		
14	Paintwork	256		
	Carried to Final Summary		R	
	Section No. 7 2 x 3 CLASSROOM BLOCKS			
	CLUSTER G			

Item No		Quantity	Rate	Amount	
	SECTION NO.8				
	BUILDING WORK				
	BILL NO.1				
	FOUNDATIONS				
	<u>EARTHWORKS</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground				
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"				
	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				
	Carried Forward		R		
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
I.	<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				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said certificate to the Principal Agent				
	SITE CLEARANCE, ETC.				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	88		
	REMOVAL TREES, ETC.				
	Taking out and removing, grubbing up roots and filling holes.				
2	Tree stump exceeding 200mm and not exceeding 500mm girth.	No	3		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
3	Trenches	m3	9		
	Extra over trench and hole excavations in earth for excavation in				
4	Soft rock	m3	1		
	Carried Forward			R	_
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 1 Foundations CLUSTER G			,	

	Brought Forward			R	
5	Hard rock	m3	0.5		
	Extra over all excavations for carting away				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	8		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	46		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
9	Under floors, steps, paving, etc	m3	13		
	Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density				
10	Backfilling to trenches, holes, etc	m3	42		
11	Under floors, steps, paving etc.	m3	14		
	Compaction of surfaces				
12	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density				
	uonony	m2	88		
	Prescribed density tests on filling				
13	"Modified AASHTO Density" test	No	8		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 1 Foundations			R	
	CLUSTER G				

	Brought Forward			R	
	SOIL POISONING				
	Soil insecticide				
14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	44		
15	To bottoms and sides of trenches etc	m2	62		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15MPa/19mm concrete				
16	Blinding	m3	2		
	REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
17	Foundation beams	m3	9		
18	Surface beds on waterproofing	m3	4		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a steel trowel				
19	Surface beds, slabs, etc	m2	44		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Carried Forward Section No. 8			R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
	Rough formwork to sides				
20	Edges, risers, ends and reveals exceeding 300mm not exceeding 700mm high or wide	m	28		
	REINFORCEMENT				
	High tensile steel reinforcement to structural concrete work				
21	10mm Diameter bars	t	0.13		
22	12mm Diameter bars	t	0.11		
23	20mm Diameter bars	t	0.32		
	TEST CUBES				
24	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	15.0		
	BRICKWORK				
	Brickwork of NFP bricks in class II mortar				
25	Half brick walls	m2	15		
	BRICKWORK SUNDRIES				
	Brickwork reinforcement				
26	75mm Wide reinforcement built in horizontally	m	55		
	FACE BRICKWORK				
	Face bricks (Purchase price of R 4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
27	Extra over brickwork for face brickwork	m2	15		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 1 Foundations CLUSTER G			.`	

Item No		Quantity	Rate	Amount	
	SECTION NO.8				
	BUILDING WORK				
	BILL NO.2				
	CONCRETE, FORMWORK AND REINFORCEMENT				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately) Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated				
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R		

	Brought Forward			R	
	<u>Formwork</u>				
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	UNREINFORCED CONCRETE				
	20MPa/19mm concrete				
1	Aprons cast in panels to falls	m3	2		
2	Ramps	m3	1		
3	Extra over concrete for thickening size 150mm deep 200mm top and tapering to 100mm at bottom including all excavation to 100mm backfilling etc.	m	42		
	Carried Forward			R	_
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G				

	Brought Forward	1		R	
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
4	Surface beds cast in panels on waterproofing.	m3	10		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a steel trowel				
5	Surface beds, slabs, etc	m2	68		
6	Ramp to falls	m2	4		
	Finishing top surfaces of concrete smooth with a wood float				
7	Aprons to falls	m2	25		
	FORMWORK				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	3		
	TEST CUBES				
9	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	7.5		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces				
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

	Brought Forward			R	
	Saw cut joints				
10	Saw cut joints in top of concrete	m	21		
	REINFORCEMENT				
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
11	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	1,186		
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO. 3			
	MASONRY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
	Carried Forward		R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry CLUSTER G			
		İ	I	II I

	Brought Forward			R	
	Reinforced brick lintels				
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	<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				
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
1	Half brick walls	m2	68		
2	One brick walls	m2	116		
	Brickwork reinforcement				
3	75mm Wide reinforcement built in horizontally	m	201		
4	150mm Wide reinforcement built in horizontally	m	340		
	Turning pieces				
5	230mm Wide turning piece to lintels etc	m	3		
	"Allied Concrete" prestressed fabricated lintels				
6	110 x 75mm Lintels in lengths not exceeding 3m	m	3		
					_
	Carried Forward Section No. 8			R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3				
	Masonry CLUSTER G				
			1		

Brought Forward			R		
Galvanised wire ties etc					
4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	18			
FACE BRICKWORK					
Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints					
Extra over brickwork for face brickwork	m2	116			
Extra over for facings in beamfilling for face brickwork	m2	11			
Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces					
Extra over brickwork for brick-on-edge header course lintel	m	3			
Fair cutting and fitting around pipe not exceeding 100mm diameter	No	8			
Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces					
220mm Wide sill set sloping and slightly protecting outside	m	3			
Coping on top of one brick wall	m	6			
NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS					
Carried Forward			R		_
Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry CLUSTER G					
	Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork FACE BRICKWORK Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints Extra over brickwork for face brickwork Extra over for facings in beamfilling for face brickwork Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces Extra over brickwork for brick-on-edge header course lintel Fair cutting and fitting around pipe not exceeding 100mm diameter Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces 220mm Wide sill set sloping and slightly protecting outside Coping on top of one brick wall NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry	Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork Face BRICKWORK Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints Extra over brickwork for face brickwork m2 Extra over for facings in beamfilling for face brickwork m2 Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces Extra over brickwork for brick-on-edge header course lintel m Fair cutting and fitting around pipe not exceeding 100mm diameter No Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces 220mm Wide sill set sloping and slightly protecting outside Coping on top of one brick wall m NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry	Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork Face BRICKWORK Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints Extra over brickwork for face brickwork Extra over for facings in beamfilling for face brickwork Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces Extra over brickwork for brick-on-edge header course lintel m 3 Fair cutting and fitting around pipe not exceeding 100mm diameter No 8 Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces 220mm Wide sill set sloping and slightly protecting outside Coping on top of one brick wall m 6 NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry	Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork Face BRICKWORK Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to stelp pointed with recessed horizontal and vertical joints Extra over brickwork for face brickwork Extra over brickwork for face brickwork Extra over for facings in beamfilling for face brickwork Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces Extra over brickwork for brick-on-edge header course lintel m 3 Fair cutting and fitting around pipe not exceeding 100mm diameter No Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces 220mm Wide sill set sloping and slightly protecting outside Coping on top of one brick wall MUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Carried Forward R Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Massonry	Galvanised wire ties etc 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork FACE BRICKWORK Face bricks (Purchase price of R4 700.00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints Extra over brickwork for face brickwork Extra over for facings in beamfilling for face brickwork Extra over for facings in beamfilling for face brickwork M2 11 Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700.00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces Extra over brickwork for brick-on-edge header course lintel m 3 Fair cutting and fitting around pipe not exceeding 100mm diameter No Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700.00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces 220mm Wide sill set sloping and slightly protecting outside Coping on top of one brick wall m 6 NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS Carried Forward R Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Massonry

	Nutec window internal sill, size 150mm x 15mm thick, manufactured in accordance with SANS 803:2005 and				
	installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations.				
14	15mm x 150mm Wide sills set flat and slightly projecting	m	3		
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 3 Masonry CLUSTER G	3		R	

		Quantity	Rate	Amount
SECTION NO.8				
BUILDING WORK				
BILL NO.4				
WATERPROOFING				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
SUPPLEMENTARY PREAMBLES				
Waterproofing				
Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
DAMP-PROOFING OF WALLS AND FLOORS				
One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course				
In walls	m2	11		
One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
Under surface beds	m2	68		
Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 4 Waterproofing CLUSTER G			R	
	BUILDING WORK BILL NO.4 WATERPROOFING For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs DAMP-PROOFING OF WALLS AND FLOORS One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course In walls One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" Under surface beds Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 4 Waterproofing	BUILDING WORK BILL NO.4 WATERPROOFING For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs DAMP-PROOFING OF WALLS AND FLOORS One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course In walls One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" Under surface beds Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 4 Waterproofing	BUILDING WORK BILL NO.4 WATERPROOFING For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to troofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs DAMP-PROOFING OF WALLS AND FLOORS One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course In walls m2 11 One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" Under surface beds Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 4 Waterproofing	SECTION NO.8 BUILDING WORK BILL NO.4 WATERPROOFING For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades. SUPPLEMENTARY PREAMBLES Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs DAMP-PROOFING OF WALLS AND FLOORS One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course In walls m2 11 One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape" Under surface beds m2 68 Carried Forward R Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS BIII No. 4 Waterproofing

	Brought Forward			R	
	JOINT SEALANTS ETC	ļ			
	Silicone sealing compound including backing cord, bond breaker, primer, etc				
3	6 x 10mm In expansion joints including raking out of expansion joint filler as necessary	m	21		
	Carried Ferward to Summary of Section No. 9			R	
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 4 Waterproofing CLUSTER G			ĸ	

Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO.5			
	ROOF COVERINGS ETC			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched			
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	Flashings, trimming plates, etc.			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
	Carried Forward		R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G			
		1	I	ll I

	Brought Forward	1		R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions				
1	Roof covering with pitch not exceeding 50 degrees	m2	84		
	STEEL LOUVRES				
	"NTY Steelworks" or similar approved				
2	Triangular steel louvre size 1500x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	3		
	Carried Forward to Summary of Section No. 8 Section No. 8			R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward		R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G			

Brought Forward	R	ì
Decorative laminate finish:		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish		
PREFABRICATED ROOF TRUSSES		
Pre-fabricated metal connected timber roof trusses		
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction		
<u>Timber</u>		
Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460		
<u>Bolts</u>		
Bolts shall be in accordance with BS 4190 or SABS 135		
Shear plates, tooth connectors and split rings		
Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759: 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"		
<u>Washers</u>		
Square or round washers of the following dimensions shall be used with all bolts:		
Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum thickness		
Carried Forward	R	
Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 6		
Capentry and Joinery CLUSTER G		

Brought Forward	R	
2 Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness		
3 Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum 5,00mm thickness		
Metal connector plates		
Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel		
The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping		
All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report		
<u>Truss construction</u>		
Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers		
Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint		
Truss design		
All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")		
Truss spacing		
The truss centres shall be less than or equal to that as described in this bill for each respective truss		
Carried Forward	R	_
Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G		

	Brought Forward	R
Truss pite	<u>ch</u>	
	pitch shall be as described in this bill for each e truss type	
Truss loa	ding	
and dead	shall be designed for a live load of 0,50kN/m2 load as specified under the sub-heading load specifications for roof trusses"	
Shop dra	wings, design and erection guarantee	
prepare, from the shop drav	expected from the Contractor to timeously submit and obtain the necessary approvals Representative/Agent in respect of the required wings, design and erection guarantee as specified	
Dimensio	<u>ns</u>	
are nominobtained	sions given in the descriptions of the trusses nal and actual measurements are to be by actual measurements taken on the site esign or fabrication commences	
Erection		
accordan of the ma Trusses" Construc Practice	s are to be hoisted and erected strictly in ce with the procedures and recommendations and "The Erection and Bracing of Timber roof as published by the Institute for Timber tion and the CSIR, or the SABS Code of "The Design, Manufacture and Erection of oof Trusses", or as designed and detailed by ner	
Design s	<u>ystem</u>	
on the "M	gn system as documented in this bill is based liTek" system and all references given in the ons are related to specific type of trusses based esign system	
	2	
Bill No. 6	ATS WATERBORNE TOILET BLOCKS and Joinery	R

	Brought Forward		R	
	However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent			
	Specific specifications for roof trusses			
	Unless otherwise described, the following specifications will apply:			
	1 All trusses to be with a 10° pitch			
	The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres			
	ROOFS			
	The following in plate nailed timber roof truss construction			
	The following is applicable in respect of roof trusses			
	The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes			
	Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)			
	Allow for the preparation and submission of the following documents in respect of all buildings			
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication	Item		
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of			
	timber components, details, etc.	Item		
				_
	Carried Forward Section No. 8		R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 6			
	Capentry and Joinery CLUSTER G			

	Brought Forward			R	
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item		
	Sawn softwood				
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for waterborne toilet block approximately 22m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	3		
	Sawn softwood grade 4				
5	38 x 114mm Wall plates	m	42		
	Sundries				
6	Two coats creosote on sawn timbers	m2	9		
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
7	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	42		
	DOORS, ETC				
	Wrought meranti doors hung to steel frames				
8	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D3)	No	6		
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G			R	_

Item No			Quantity	Rate	Amount	
	SECTION NO.8					
	BUILDING WORK					
	BILL NO.7					
	CEILING, ETC.					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SUPPLEMENTARY PREAMBLES					
	Descriptions:					
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete					
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere					
	CEILING CONSTRUCTION, CORNICES, ETC.					
	<u>Insulation</u>					
1	100mm glass fibre insulation blanket to manufacturer's specification, laid on ceiling.					
	opositionation, laid on coming.	m2	68			
	Sawn softwood					
2	38 x 114mm Ceiling joists (Provisional)	m	11			
	Carried Forward			R		
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS					
	Bill No. 7 Ceilings, Partitions and Access Flooring					
	CLUSTER G					

	Brought Forward			R	
	"Rhino" gypsum plasterboard cornices				
3	75mm Coved cornices	m	42		
	NAILED UP AND SCREWED UP CEILINGS				
	6mm "Everite Nutec" fibre-cement boards with H-profile primed steel jointing cover strips over joints				
4	Ceilings including 38 x 38mm brandering at 90deg to trusses at maximum centres of 400mm by 32mm long galvanised nails.				
	gan amos name.	m2	68		
5	Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2		
	covered with ceiling board and littled liush in opening	INO	2		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS				
	Bill No. 7 Ceilings, Partitions and Access Flooring				
	CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.8				
	BUILDING WORK				
	BILL NO.8				
	IRONMONGERY				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded				
	CATCHES, CABIN HOOKS, ETC				
	"Solid"				
1	100mm Cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged No	9			
	Coming Forward				_
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 8 Ironmongery CLUSTER G		R		

	Brought Forward			R	
	LOCKS				
	"Solid"or similar approved				
2	"Code 630" padlock	No	2		
3	"Code 460/313" Blesbok four lever lockset	No	2		
4	293/E41 WC indicator bolt with keep fixed to metal	No	6		
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
5	150 x 150mm Stainless steel plate engraved with "female" sign (St/Steel)	No	3		
6	150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)	No	3		
	BATHROOM FITTINGS				
	"Nampak" or similar approved				
7	Vandal resistant 2 roll holder complete fitments or similar approved	No	6		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 8 Ironmongery CLUSTER G				
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Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO. 9			
	METALWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	WELDED SCREENS, GATES, ETC			
	Gates to external doors			
1	Gate and frame 900 x 2100mm high complete (G1)			
	No	6		
	Carried Forward Section No. 8		R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 9 Metalwork CLUSTER G			

	Brought Forward			R	
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	6		
	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	6		
	STEEL WINDOWS, DOORS, ETC				
	"Nty" or similar approved steel residential windows with burglar bars to all sashes				
4	Window type NC 1, size 533 x 949mm high	No	6		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 9 Metalwork CLUSTER G				
					

Item No		Quantity	Rate	Amount	
	SECTION NO.8				
	BUILDING WORK				
	BILL NO. 10				
	PLASTERING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	GRANOLITHIC				
	Untinted granolithic on concrete				
	SCREEDS				
	Screeds on concrete				
1	30mm Thick on floors	2 68	3		
	INTERNAL PLASTER				
	Cement plaster on brickwork				
2	On walls m	2 315	5		
	Coming Command to Commany of Continu No. 0				
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 10 Plastering CLUSTER G		R		:

Item No		Quantity	Rate	Amount	
	SECTION NO.8				
	BUILDING WORK				
	BILL NO.11				
	TILING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	FLOOR TILING				
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings m2	68			
2	Skirting formed of ceramic tile cut to 300 x 75mm high m				
	Carried Forward to Summary of Section No. 8 Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 11 Tiling CLUSTER G		R		_

Item No		Quantity	Rate	Amount	
-	SECTION NO.8				
	BUILDING WORK				
	BILL NO.12				
	PLUMBING AND DRAINAGE				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	"Polycop" polypropylene pipes:				
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
	All pipe diameters are nominal external				
	"Polylink" polypropylene pipes:				
	Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints				
	Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured				
	Carried Forward Section No. 8		R		_
	3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G				

Brought Forward	•	R	
Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers			
Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers			
Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same			
All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions			
All pipe diameters are nominal external			
Concrete pipes:			
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings			
Vitrified clay pipes:			
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			
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings			
uPVC pipes and fittings:			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
uPVC pressure pipes and fittings:			
Pipes for water supply shall be of the class stated			
			_
Carried Forward Section No. 8		R	
3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12			
Plumbing and Drainage CLUSTER G			

Brought Forward	R	
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		
Copper pipes:		
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		
Fixing of pipes		
Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level		
Lead pipes and fittings		
All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel		
Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G	R	
CLUSIER G		

Brought Forward	R	
Reducing fittings		
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		
Wire gratings		
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings		
Septic tanks		
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		
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster		
<u>Excavations</u>		
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 "Earthworks"		
Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G	R	

Brought Forward	R	
Laying, backfilling, bedding, etc. of pipes		
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions		
Where no manufacturers' 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		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Stainless steelbasins, sinks, wash troughs, urinals, etc.		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Waste unions		
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings		
Steel sectional water tanks		
Tanks shall comply with SABS CKS 114		
"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.		
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described		
Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS	R	
3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G		

	Brought Forward			R	
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc				
	RAINWATER DISPOSAL				
	0,6mm Galvanised sheet iron with "Chromadek" finish on one side				
1	100 x 125mm Eaves gutters with beaded front edge	m	42		
2	Extra over eaves gutter for angle	No	6		
3	Extra over eaves gutter for stopped end	No	3		
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	6		
5	100mm Diameter rainwater pipes	m	24		
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	6		
7	Extra over rainwater pipe for shoe	No	6		
	SOIL DRAINAGE				
	uPVC pipes				
8	110mm Pipes vertically or ramped to cleaning eye etc (no excavation)	m	15		
9	110mm Pipes laid in and including trenches not exceeding 1m deep	m	105		
	Extra over uPVC pipes for fittings				
10	110mm Access bend	No	6		
11	110mm Access junction	No	6		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	- 1
12	110mm Bend	No	12		
13	110mm Junction	No	3		
14	110mm uPVC rodding eye cover in end of pipe	No	6		
	Sundries				
15	100mm Cast iron "ABC" cleaning eye	No	2		
16	Precast concrete inspection eye marker slab set in ground	No	2		
17	110mm Rodding eye	No	2		
18	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	3		
19	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock	m3	3		
	SANITARY FITTINGS				
	"Vaal" or similar approved				
20	Vaal Sanitaryware 510 x 405mm Hibiscus White vitreous china lavatory basin (Code: 7023) with two tapholes including integrated overflow and chainstay hole, bolted to wall with two 10mm bolts (product code 8448Z0).	No	6		
21	Vaal Sanitaryware Hibiscus White vitreous china close coupled washdown suite comprising 90° outlet open rim pan (product code 772600) and matching 6/3 litre front dual flush cistern (product code 710539) including "PARKER AVANT" toilet seat	No	6		
	WASTE UNIONS ETC				
	"Cobra Watertech" or similar approved				
22	38mm "Cobra 316" unslotted waste and plug with chain	No	6		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	
	TRAPS ETC				
	"Marley" or similar approved				
	Chromium plated				
23	32 x 40mm Bottle trap	No	6		
	CATCH PITS ETC				
	The following in stormwater catchpits, junction boxes and inlet manholes				
	TAPS, VALVES, ETC				
	"Cobra Watertech" or similar approved				
24	Cobra Watertech 15mm chrome plated hi-waste elbow action pillartap with blue indicator for cold water (Code: 504-21B), manufactured in accordance with SANS 226:2004 Type 2 (BS 5412).	No	6		
25	Cobra Watertech 15mm compression type angle regulating valve with 10mm bendable copper outlet tube service connection (Code: 232/350).	No	6		
	SANITARY PLUMBING				
	uPVC pipes				
26	50mm Pipes	m	15		
27	50mm Pipes laid in and including trenches not exceeding 1m deep	m	39		
28	110mm Pipes	m	18		
	Extra over uPVC pipes for fittings				
29	50mm Bend	No	60		
30	50mm Access bend	No	6		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward			R	
31	50mm BSP adaptor	No	3		
32	50mm "GI Two-way" vent valve	No	6		
33	110mm Bend	No	6		
34	110mm Access bend	No	6		
35	110mm Pan Connector	No	6		
36	110mm "GI Two-way" vent valve	No	6		
	<u>Sundries</u>				
	WATER SUPPLIES				
	Class 16 uPVC pressure pipes with solvent welded joints				
37	32mm Pipes laid in and including trenches not exceeding 1m deep	m	35		
	Extra over class 16 uPVC pressure pipes for fittings with solvent welded joints				
38	32mm Bend	No	6		
	Class 0 copper pipes				
39	15mm Pipes	m	36		
40	22mm Pipes	m	35		
	Extra over class 0 copper pipes for capillary fittings				
41	15mm Fittings	No	51		
42	22mm Fittings	No	38		
	<u>Brass</u>				
43	15mm Fullway gate valve	No	6		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G			R	

	Brought Forward		R	
44	22mm Fullway gate valve	0 6		
				_
	Carried Forward to Summary of Section No. 8 Section No. 8		R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS			
	Bill No. 12 Plumbing and Drainage CLUSTER G			
	CLUSTER G			
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Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO. 13			
	<u>GLAZING</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	GLAZING TO STEEL WITH PUTTY			
	4mm Clear float glass			
1	Panes exceeding 0,5m2 and not exceeding 2m2 m2	2 86		
	4mm Rough cast glass			
2	Panes exceeding 0,1m2 and not exceeding 0,5m2 m2	2 3		
	Carried Forward to Summary of Section No. 8		R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 13 Glazing CLUSTER G			

Item No		Quantity	Rate	Amount
	SECTION NO.8			
	BUILDING WORK			
	BILL NO. 14			
	PAINTWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	DESCRIPTIONS			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	PAINT SPECIFICATIONS			
	All painting shall be done in accordance with "Plascon- Evans" specifications			
	PAINTWORK ETC TO NEW WORK			
	ON FLOATED PLASTER			
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 14		R	
	Paintwork CLUSTER G			

	Brought Forward			R	
5	Plascon Polvin Super Acrylic to interior new cement plaster (NW 205). Surface to be dry, sound and clean and cured for a minimum of 14 days, with a moisture content measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Polvin Super Acrylic (EPL) with 1 hour drying time between coats, for a maintenance cycle of 5 years in a C1 - inland environment.				
1	On internal walls	m2	251		
	ON FIBRE-CEMENT				
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint				
2	On ceilings and cornices	m2	68		
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
3	On fascias and barge boards	m2	5		
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.				
	ON METAL				
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward		1	R	
	Plascon Velvaglo Satin to exterior new mild steel (NW 683). Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
4	On door frames	m2	7		
5	On windows with burglar bars	m2	3		
6	On gates, grilles, burglar screens, balustrading, etc (both sides measured over the full flat area)	m2	6		
7	On outside of eaves gutters and rainwater pipes before fixing not exceeding 300mm high	m	84		
	ON WOOD				
	Plascon Velvaglo Satin to interior new wood (NW 571). Surface to be dry, sound and clean. Wash knots and resinous areas with Lacquer Thinners (ILS 1) and coat with Woodcare Knot Seal (PK 2) and apply one coat of Plascon Woodcare Pretreatment (WWP 1), overcoated within 48 hours with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale (A1-A5) < 14% or less. Prime with one coat of Wood Primer (UC 2) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 7 years in a C1 - inland environment.				
8	On doors	m2	19		
	Carried Forward Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	Three coats matt varnish				
9	On doors	m2	11		
	Carried Forward to Summary of Section No. 8			R	
	Section No. 8 3 x 2 SEATS WATERBORNE TOILET BLOCKS				
	Bill No. 14 Paintwork				
	CLUSTER G				

	Section No. 8			
	3 x 2 SEATS WATERBORNE TOILET BLOCKS			
	SECTION SUMMARY - 3 x 2 SEATS WATERBORNE TOILET BLO			
Bill No		Page No		Amount
1	Foundations	262		
2	Concrete, Formwork and Reinforcement	266		
3	Masonry	270		
4	Waterproofing	272		
5	Roof Coveringss, etc	274		
6	Capentry and Joinery	280		
7	Ceilings, Partitions and Access Flooring	282		
8	Ironmongery	284		
9	Metalwork	286		
10	Plastering	287		
11	Tiling	288		
12	Plumbing and Drainage	298		
13	Glazing	299		
14	Paintwork	303		
	Carried to Final Summary Section No. 8		R	
	3 x 2 SEATS WATERBORNE TOILET BLOCKS CLUSTER G			

Item No		Quantity	Rate	Amount	
	SECTION NO.9				
	BUILDING WORK				
	BILL NO.1				
	<u>FOUNDATIONS</u>				
	<u>EARTHWORKS</u>				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	Nature of ground				
	The nature of the ground is assumed to be sandy weathered granite, therefore "earth", but possibly interspersed with "hard rock"				
	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				
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS		R		-
	Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
	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				
	Soil poisoning				
	Ant and weed poisoning will be applied in accordance to SABS specifications by Registered and Approved Specialists who will issue a five (5) year guarantee. The contractor will only be paid for this items once they have produced the said cerfificate to the Principal Agent				
	SITE CLEARANCE, ETC.				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	128		
	REMOVAL TREES, ETC.				
	Taking out and removing, grubbing up roots and filling holes.				
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
2	Trenches	m3	10		
3	Holes for tanks, etc.	m3	38		
	Extra over trench and hole excavations in earth for excavation in				
4	Soft rock	m3	8		
	Carried Forward			R	_
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 1 Foundations CLUSTER G			ix	

	Brought Forward			R	
5	Hard rock	m3	4		
	Extra over all excavations for carting away				
6	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	44		
	Risk of collapse of excavations				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	84		
	Keeping excavations free of water				
8	Keeping excavations free of all water other than subterranean water		ltem		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
9	Backfilling to trenches, holes, etc	m3	10		
	Approved G6 filling supplied and carted by the contractor and compacted in layers not exceeding 150mm to 95% Mod AASHTO density				
	Compaction of surfaces				
10	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	44		
	Prescribed density tests on filling				
	SOIL POISONING				
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 1 Foundations CLUSTER G			R	_

	Brought Forward			R	
	Soil insecticide				
11	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	44		
12	To bottoms and sides of trenches etc	m2	64		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25MPa/19mm concrete				
13	Strip footings	m3	4		
14	Strip footing cast in pit latrines holes	m3	6		
	TEST CUBES				
	BRICKWORK				
	Brickwork of NFP bricks in class II mortar				
15	One brick walls - in holes	m2	80		
16	One brick walls	m2	28		
17	115mm Brick corbelling in septic tank	m2	86		
	BRICKWORK SUNDRIES				
	Joint forming material in movement joints:				
	Brickwork reinforcement				
18	150mm Wide reinforcement built in horizontally	m	77		
	FACE BRICKWORK				
	Carried Forward			R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 1 Foundations CLUSTER G				

	Brought Forward			R	
	Face bricks (Purchase price of R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
19	Extra over brickwork for face brickwork	m2	14		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R 4 000,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
	INTERNAL PLASTER				
	Steel troweled cement plaster on brickwork				
20	On walls in septic tank	m2	80		
	FLOOR AND WALL SEALERS				
	Minimum two coats 'approved' black epoxy coat				
21	On internal textured plaster walls	m2	80		
	Carried Forward to Summary of Section No. 9			R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 1 Foundations CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO.2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 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 architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately) Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles			
	which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G		R	

	Brought Forward			R	
	<u>Formwork</u>				
	Description 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				
	Formworks to soffits of solid slabs etc shall be deemed to be 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"				
	UNREINFORCED CONCRETE				
	20MPa/19mm concrete				
1	Surface beds	m3	2		
2	Surface beds cast in panels on waterproofing.	m3	4		
3	Aprons cast in panels to falls	m3	6		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G			R	

	Brought Forward			R	
	REINFORCED CONCRETE				
	25MPa/19mm concrete				
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a steel trowel				
4	Surface beds, slabs, etc	m2	44		
	Finishing top surfaces of concrete smooth with a wood float				
5	Surface beds, slabs, etc	m2	50		
6	Aprons to falls	m2	24		
	<u>FORMWORK</u>				
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50		
	SMOOTH FORMWORK (DEGREE OF ACCURACY II)				
	Smooth formwork to soffits				
	Permanent formwork to soffits				
8	Slabs propped up not exceeding 1.5m high	m2	8		
9	Form 500mm radius opening in floor slab	No	8		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 2			R	
	Concrete, Formwork and Reinforcement CLUSTER G				

	Brought Forward	ı		R	
l	TEST CUBES				
10	Making and testing a set of four 150 x 150 150mm concrete strength test cubes per concrete pour, one crushed at 7 days and 3 at 26 days	No	10		
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
11	Steeledale Mesh standard square fabric mesh, nominal mass 1,93 kg/m² with nominal 5,6mm thick wires and 200 x 200mm pitch (code 193), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.	m2	44		
	Carried Forward to Summary of Section No. 9 Section No. 9			R	
	2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 2 Concrete, Formwork and Reinforcement CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO. 3			
	MASONRY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	BRICKWORK			
	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			
	Linings to concrete			
	Descriptions of linings to concrete, unless otherwise described, shall be deemed to include wire ties			
	Hollow walls etc			
	Descriptions of hollow walls shall be deemed to include wire ties and leaving every fifth perpend of the bottom course of the external skin open as a weep hole			
	Carried Forward		R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 3 Masonry CLUSTER G			

	Brought Forward			R	Ī
	Reinforced brick lintels				
	Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous				
	Face bricks				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Pointing				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	SUPERSTRUCTURE				
	Brickwork of NFP bricks in class II mortar				
1	Half brick walls	m2	30		
2	Half brick walls in beamfilling.	m2	2		
3	One brick walls	m2	112		
	Brickwork reinforcement				
4	75mm Wide reinforcement built in horizontally	m	90		
5	150mm Wide reinforcement built in horizontally	m	336		
	Turning pieces				
6	230mm Wide turning piece to lintels etc	m	8		
	"Allied Concrete" prestressed fabricated lintels				
7	110 x 75mm Lintels in lengths not exceeding 3m	m	24		
	Carried Forward Section No. 9			R	
	2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 3				
	Masonry CLUSTER G				

	Brought Forward			R	
	Galvanised wire ties etc				
8	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork	No	36		
	FACE BRICKWORK				
	Face bricks (Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed horizontal and vertical joints				
9	Extra over brickwork for face brickwork	m2	294		
10	Extra over for facings in beamfilling for face brickwork	m2	11		
	Brick-on-edge header course copings, sills, etc of face bricks (Purchase price R4 700,00 / 1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
11	Extra over brickwork for brick-on-edge header course lintel	m	8		
12	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	8		
	Brick-on-edge header course copings, sills, etc of face bricks(Purchase price of R4 700,00/1000 VAT excl. delivered to site) pointed with recessed joints on all exposed faces				
13	110mm Wide sills set sloping and slightly projecting	m	8		
14	220mm Wide sill set sloping and slightly protecting outside	m	8		
	Carried Forward to Summary of Section No. 9			R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 3 Masonry CLUSTER G				

Item No			Quantity	Rate	Amount	
	SECTION NO.9					
	BUILDING WORK					
	BILL NO.4					
	WATERPROOFING					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	CURRI EMENTARY RREAMRI EC					
	SUPPLEMENTARY PREAMBLES					
	Waterproofing					
	Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee by an approved applicator. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs					
	DAMP-PROOFING OF WALLS AND FLOORS					
	One layer of 375 micron Consol Plastic Brikgrip DPC" embossed damp proof course					
1	In walls	m2	10			
	One layer of 250 micron "Consol Plastic USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	44			
						_
	Carried Forward to Summary of Section No. 9			R		=
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 4 Waterproofing CLUSTER G					

Item No		Quantity	Rate	Amount	
	SECTION NO.9				
	BUILDING WORK				
	BILL NO.5				
	ROOF COVERINGS ETC				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>General</u>				
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched				
	Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use				
	<u>Sizes</u>				
	All items are measured net unless otherwise described				
	Flashings, trimming plates, etc.				
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described				
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable				
	All items are unless otherwise described measured net				
	Carried Forward		R		-
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G				

	Brought Forward			R	
	PROFILED METAL SHEETING AND ACCESSORIES				
	0,5mm "Brownbuilt Klip-Lok Light Industrial" galvanised troughed sheeting steel with "Chromadek - Traffic Green" finish on one side, in single lengths fixed to steel purlins or rails and 0,6mm galvanised steel accessories with "Chromadek" finish on one side, fixed to roof members by a firm of Specialists who will give a five (5) year guarantee, all in accordance with the manufacturer's instructions				
1	Roof covering with pitch not exceeding 50 degrees	m2	56		
2	Ridge capping 550mm girth	m	4		
3	Hip capping 550mm girth	m	3		
4	Gable trim 550mm girth	m	3		
	STEEL LOUVRES				
	"NTY Steelworks" or similar approved				
5	Triangular steel louvre size 1500x 500mm high fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories, etc	No	4		
	Carried Forward to Summary of Section No. 9 Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 5 Roof Coveringss, etc CLUSTER G			R	

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO.6			
	CARPENTRY AND JOINERY			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Particle board:			
	Particle board shall comply with the following specifications:			
	a) SABS 1300 Particle board: exterior and flooring type			
	b) SABS 1301 Particle board: interior type			
	Joinery:			
	Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
	Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
	<u>Fixing</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capantry and Joinery		R	
	Capentry and Joinery CLUSTER G			

Brought Forward	R	
Decorative laminate finish:		
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish		
PREFABRICATED ROOF TRUSSES		
Pre-fabricated metal connected timber roof trusses		
All trusses shall be fabricated by an approved truss manufacturer who holds a current Certificate of Competence awarded by the Institute for Timber Construction		
<u>Timber</u>		
Timber for trusses to be South African softwood and shall be in accordance with the grades as defined in SABS Specification No 563 or as defined in SABS Specification No 1460		
<u>Bolts</u>		
Bolts shall be in accordance with BS 4190 or SABS 135		
Shear plates, tooth connectors and split rings		
Shear plates, tooth connectors and split rings shall be in accordance with BSS 1759: 1960 and installed in accordance with the CSIR Publication HOUT 468, "The Design, Manufacturing and Erection of Timber Trusses"		
<u>Washers</u>		
Square or round washers of the following dimensions shall be used with all bolts:		
Bolts up to 8mm diameter: Washers shall be minimum 25mm wide of minimum thickness		
Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G	R	

Brought Forward	R	
2 Bolts up to 12mm diameter: Washers shall be minimum 36mm wide of minimum 4,00mm thickness		
3 Bolts up to 20mm diameter: Washers shall be minimum 60mm wide of minimum 5,00mm thickness		
Metal connector plates		
Metal connector plates shall be fabricated out of not less than 1mm thick drawn quality galvanised steel		
The steel shall have a minimum yield strength of 228MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resisting coating shall be not less than 275g/m2 commercial class hot dipped galvanising as per SABS 934 before stamping		
All connector plates shall have been tested by the CSIR and be of a size capable of transmitting the forces between members of a truss without exceeding the design values published in the CSIR report		
<u>Truss construction</u>		
Trusses shall be constructed in jigs specially designed to unsure the correct profile, overhangs and cambers		
Where metal connector plates are used all joints are to be close fitted butt joints made by precision pressing of the metal connector plates into each side of the joint		
<u>Truss design</u>		
All trusses shall be designed by a registered Professional Engineer in accordance with SABS 0163 ("Design of Timber Structures") and Code 0160 ("Loadings")		
<u>Truss spacing</u>		
The truss centres shall be less than or equal to that as described in this bill for each respective truss		
Carried Forward	R	
Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G		

Brought Forward	R	
Truss pitch		
The truss pitch shall be as described in this bill for each respective truss type		
Truss loading		
Trusses shall be designed for a live load of 0,50kN/m2 and dead load as specified under the sub-heading "Specific load specifications for roof trusses"		
Shop drawings, design and erection guarantee certificates		
It will be expected from the Contractor to timeously prepare, submit and obtain the necessary approvals from the Representative/Agent in respect of the required shop drawings, design and erection guarantee certificates as specified		
<u>Dimensions</u>		
All dimensions given in the descriptions of the trusses are nominal and actual measurements are to be obtained by actual measurements taken on the site before design or fabrication commences		
<u>Erection</u>		
All trusses are to be hoisted and erected strictly in accordance with the procedures and recommendations of the manual "The Erection and Bracing of Timber roof Trusses" as published by the Institute for Timber Construction and the CSIR, or the SABS Code of Practice "The Design, Manufacture and Erection of Timber Roof Trusses", or as designed and detailed by the designer		
<u>Design system</u>		
The design system as documented in this bill is based on the "MiTek" system and all references given in the descriptions are related to specific type of trusses based on this design system		
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Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G	R	

	Brought Forward		R		
	However, Contractors are to note that any design system of similar quality may be used subject to the prior written approval of the Representative/Agent				
	Specific specifications for roof trusses				
	Unless otherwise described, the following specifications will apply:				
	1 All trusses to be with a 10° pitch				
	The dead load consists of corrugated roof sheeting and purlins at approximately 1200mm centres				
	ROOFS				
	The following in plate nailed timber roof truss construction				
	The following is applicable in respect of roof trusses				
	The references given in the descriptions are to the respective types of trusses detailed on the architect's drawings annexed to these bills of quantities/accompanying these bills of quantities for tender purposes				
	Prices for rafters and trusses to include all "Hurricane" clips, steel M-runners and "Permfix" plates, screws, nails, wires, sundry material, etc (bracing, wallplates, purlins and gangboarding are measured seperately)				
	Allow for the preparation and submission of the following documents in respect of all buildings				
1	Detailed shop drawings indicating truss sizes, truss positions, bracings, details, etc. to be submitted for approval prior the commencement of any fabrication	Item			
2	Design certificate indicating the licensed programme used, SANS specifications adhered to, general procedures and loadings adopted, sizes and grading of				
	timber components, details, etc.	Item			
					—
	Carried Forward Section No. 9		R		
	2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6				
	Capentry and Joinery CLUSTER G				
	SESSIER S				

	Brought Forward			R	
3	Erection guarantee certificate after the whole completed roof truss structure have been inspected, all defective work have been taken out and made good, etc. to the full satisfaction of the Principal Agent		Item		
	Sawn softwood				
4	Roof construction to double pitched roof supplied and erected complete in position with bracing, gangboarding, purlins, eaves purlins, hipped end, rafters etc. for waterborne toilet block approximately 22m2 on plan (Refer to architect's drawings attached to these bills of quantities)	No	2		
	Sawn softwood grade 4				
5	38 x 114mm Wall plates	m	18		
6	50 x 76mm Purlins in lengths exceeding 3,9m and not exceeding 6,6m	m	160		
	<u>Sundries</u>				
7	Two coats creosote on sawn timbers	m2	38		
	EAVES, VERGES, ETC				
	"Everite FC77" pressed fibre-cement				
8	15 x 250mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	40		
	DOORS, ETC				
	Wrought meranti doors hung to steel frames				
9	44mm Framed and ledged batten door 813 x 2032mm high of 44 x 100mm top rail and stiles, 22 x 100mm middle and bottom rails, covered on both sides with 6mm plywood with veneer (D3)	No	4		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capentry and Joinery CLUSTER G			R	

	Brought Forward			R	
l	Solid core flush doors with concealed hardwood edges and 4mm thick masonite covering on both sides hung to steel frame				
10	40mm Door 813 x 2032mm high	No	8		
	Carried Forward to Summary of Section No. 9 Section No. 9			R	_
	2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 6 Capentry and Joinery				
	CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO.7			
	CEILING, ETC.			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	Descriptions:			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	CEILING CONSTRUCTION, CORNICES, ETC.			
	<u>Insulation</u>			
	Sawn softwood			
1	38 x 114mm Ceiling joists (Provisional) m	14		
	"Rhino" gypsum plasterboard cornices			
2	75mm Coved cornices m	30		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 7 Ceilings, Partitions and Access Flooring CLUSTER G		R	
		1	I	

	Brought Forward			R
NA	ILED UP AND SCREWED UP CEILINGS			
6mi	m "Everite Nutec" fibre-cement boards with H- file primed steel jointing cover strips over joints			
trus	lings including 38 x 38mm brandering at 90deg to sees at maximum centres of 400mm by 32mm long vanised nails.			
		m2	44	
doc with	ra over ceiling for opening for 610 x 610mm trap or of 50 x 76mm wrought softwood rebated framing on one 38 x 38mm sawn softwood cross brander			
cov	ered with ceiling board and fitted flush in opening	No	4	
	Carried Forward to Summary of Section No. 9			R
2 x Bill	tion No. 9 4 ENVIROLOO TOILET BLOCKS No. 7 lings, Partitions and Access Flooring JSTER G			

Item No			Quantity	Rate	Amount	
	SECTION NO.9					
	BUILDING WORK					
	BILL NO.8					
	IRONMONGERY					
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.					
	SUPPLEMENTARY PREAMBLES					
	<u>Descriptions</u>					
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs					
	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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded					
	LOCKS					
	"Solid"or similar approved					
1	"Code 630" padlock	No	4			
2	"Code 2252-76SC" three lever upright lockset	No	4			
						_
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 8 Ironmongery CLUSTER G			R		

	Brought Forward			R	
3	293/E41 WC indicator bolt with keep fixed to metal	No	8		
	SUNDRIES				
	"Solid" or similar approved				
4	Dorma "Code 255" door stop plugged	No	12		
5	Chromium plated toilet roll holder plugged to brickwork	No	8		
	STEEL CUPBOARDS				
	Aproved steel lockers with standard baked enamel finish				
	PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, ETC				
	"Vitrex" or similar approved				
	LETTERS, NAMEPLATES, ETC				
	"Union" or similar approved				
6	150 x 150mm Stainless steel plate engraved with "female" sign (St/Steel)	No	2		
7	150 x 150mm Stainless steel plate engraved with "male" sign (St/Steel)	No	2		
	Carried Forward to Summary of Section No. 9 Section No. 9			R	
	2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 8 Ironmongery				
	CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO. 9			
	METALWORK			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	<u>Descriptions</u>			
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
	<u>Drawings</u>			
	Tenderers are referred to architect's drawings annexed to this document for full details of the windows, doors, etc			
	WELDED SCREENS, GATES, ETC			
	Gates to external doors			
1	Gate and frame 900 x 2100mm high complete (G1)			
	No	4		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 9 Metalwork CLUSTER G		R	

	Brought Forward			R	
	PRESSED STEEL DOOR FRAMES				
	1,2mm Double rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	8		
	1,2mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	4		
	STEEL WINDOWS, DOORS, ETC				
	"Nty" or similar approved steel residential windows with burglar bars to all sashes				
4	Type NE7 size 1022 x 654mm high	No	4		
5	Window type NE1, size 533 x 654mm high	No	8		
	Carried Forward to Summary of Section No. 9 Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 9 Metalwork CLUSTER G			R	

Item No		Quantity	Rate	Amount
·	SECTION NO.9			
	BUILDING WORK			
	BILL NO. 10			
	PLASTERING			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SCREEDS			
	Screeds on concrete			
1	30mm Thick on floors m2	44		
	Carried Forward to Summary of Section No. 9		R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 10 Plastering CLUSTER G			

Item No		Qı	uantity	Rate	Amount
	SECTION NO.9				
	BUILDING WORK				
	BILL NO.11				
	TILING				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	<u>Descriptions</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding				
	FLOOR TILING				
	300 x 300 x 11,5mm Ceramic floor tiles (PC R120.00/m2 VAT excl.) fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound				
1	On floors and landings	m2	44		
2			58		
2	Skirting formed of ceramic tile cut to 300 x 75mm high	m	36		
	Carried Forward to Summary of Section No. 9			R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 11 Tiling				
	CLUSTER G				
					1

Item No		Quantity	Rate	Amount	
	SECTION NO.9				
	BUILDING WORK				
	BILL NO.12				
	PLUMBING AND DRAINAGE				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
	SUPPLEMENTARY PREAMBLES				
	"Polycop" polypropylene pipes:				
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
	All pipe diameters are nominal external				
	RAINWATER DISPOSAL				
	0,6mm Galvanised sheet iron with "Chromadek" finish on one side				
1	100 x 125mm Eaves gutters with beaded front edge m	56			
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G		R		-

	Brought Forward			R	
2	Extra over eaves gutter for angle	No	8		
3	Extra over eaves gutter for stopped end	No	8		
4	Extra over eaves gutter for outlet for 100mm diameter pipe	No	8		
5	100mm Diameter rainwater pipes	m	32		
6	Extra over rainwater pipe for eaves or plinth offset 450mm projection	No	8		
7	Extra over rainwater pipe for shoe	No	8		
	TOILET TANKS				
8	Plumbing and drainage Erect toilet tanks set up and fixed complete as per manufacturers instruction - manufacturer to supply and delivery arrangements	No	8		
9	SUPERVISION OF INSTALLATION OF TOILET TANKS The following nominated sub - contractor amounts are for work to be carried out by nominated sub-contractors:Supervision of installation of toilet tanks, Four site visits to be made by the toilet tanks suppliers to assist/support the contractor in the installation of the toilet tanks and a final inspection to be ascertain the tanks has been installed correctly at which time a Certificate of Compliance should be issued between the Department Public Works,Roads & Infrastructure and Toilet tanks suppliers Carried Forward to Summary of Section No. 9 Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 12 Plumbing and Drainage CLUSTER G		Item	R	20,000.00

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO. 13			
	GLAZING			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	GLAZING TO STEEL WITH PUTTY			
	4mm Clear float glass			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2 m2	6		
	Carried Forward to Summary of Section No. 9		R	
	Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 13 Glazing CLUSTER G		, K	

Item No		Quantity	Rate	Amount
	SECTION NO.9			
	BUILDING WORK			
	BILL NO. 14			
	<u>PAINTWORK</u>			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.			
	SUPPLEMENTARY PREAMBLES			
	DESCRIPTIONS			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	PAINT SPECIFICATIONS			
	All painting shall be done in accordance with "Plascon- Evans" specifications			
	PAINTWORK ETC TO NEW WORK			
	ON FIBRE-CEMENT			
	One coat primer, one coat universal undercoat and two coats super acrylic PVA paint			
1	On ceilings and cornices m2	44		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 14 Paintwork CLUSTER G		R	

ĺ	Brought Forward			R	
	Plascon Sure Coat Gloss Enamel to exterior new fibre cement (NW 174). Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 2 years in a C1 - inland environment.				
2	On fascias and barge boards	m2	10		
	Plascon Sure Coat Gloss Enamel to interior new fibre cement (NW 274).Surface to be dry, sound and clean, with a moisture content, measured with a Doser Hygrometer (or equivalent), of BD 2 scale - 8% or less. Prime with one coat of Plascon Plaster Primer (UC 56) with an overcoating time of 16 hours and finish with two coats of Sure Coat Gloss Enamel (SGE) with 16 hours drying time between coats, for a maintenance cycle of 4 years in a C1 - inland environment.				
	ON METAL				
	Plascon Velvaglo Satin to exterior new mild steel (NW 683).Surface to be clean and dry. Remove surface contaminants using Plascon Aquasolv Degreaser (GR 1) with bristle brush or Brillo pads. Rinse thoroughly with tap water until surface is water break-free. Remove rust and millscale by abrasive blasting to ISO 8501 - 01:1988 - Sa2½ or by hand/mechanical wire brushing to St3of the same standard. Allow to dry completely and prime within 4 hours of cleaning. Prime with one coat of Metal Primer (UC 501) with an overcoating time of 16 hours and finish with two coats of Velvaglo Satin (VLO) with 16 hours drying time between coats, for a maintenance cycle of 3 years in a C1 - inland environment.				
3	On door frames	m2	24		
4	On windows with burglar bars	m2	6		
	Carried Forward Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Brought Forward			R	
	ON TIMBER	l			
5	Stop, fill, sand down and prepare wood surfaces. Apply one coat Plascon Wood Primer, one coat Plascon Universal Undercoat and two coats Plascon Super Universal Enamel paint				
6	On doors	m2	42		
	Carried Forward to Summary of Section No. 9 Section No. 9 2 x 4 ENVIROLOO TOILET BLOCKS Bill No. 14 Paintwork CLUSTER G			R	

	Section No. 9			
	2 x 4 ENVIROLOO TOILET BLOCKS			
	SECTION SUMMARY - 2 x 4 ENVIROLOO TOILET BLOCKS			
Bill No		Page No		Amount
1	Foundations	309		
2	Concrete, Formwork and Reinforcement	313		
3	Masonry	316		
4	Waterproofing	317		
5	Roof Coveringss, etc	319		
6	Capentry and Joinery	326		
7	Ceilings, Partitions and Access Flooring	328		
8	Ironmongery	330		
9	Metalwork	332		
10	Plastering	333		
11	Tiling	334		
12	Plumbing and Drainage	336		
13	Glazing	337		
14	Paintwork	340		
	Carried to Final Summary Section No. 9		R	
	2 x 4 ENVIROLOO TOILET BLOCKS CLUSTER G			
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Item No		Quantity	Rate	Amount
	SECTION NO.10			
	EXTERNAL WORK			
	BILL NO. 1			
	EARTHWORKS (PROVISIONAL)			
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades as well as Engineering Specifications attached to these documents.			
	EARTHWORKS (PROVISIONAL)			
	SUPPLEMENTARY PREAMBLES			
	<u>NOTE</u>			
	All earthworks shall comply with the requirements of the latest relevant SABS 1200 Specifications: 1200C; 1200D;1200DM			
	Nature of ground			
	The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with soft rock			
	Specific Requirements of imported G6 material			
	The imported material must conform to the following criteria:			
	(1) Minimum CBR at 93% Mod. AASHTO Density: 15 (2) Minimum swell at 100% Mod. AASHTO Density: 1,5%			
	 (3) Maximum PI: 12 (4) Maximum size particles in material: 63mm (5) Grading modulus: 2,7 ≥ GM ≥ 0,75 			
	Carried Forward		R	
	Section No. 10 EXTERNAL WORKS Bill No. 1 Bulk Earthworks CLUSTER G			

	Brought Forward			R	
	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				
	BULK EXCAVATION, FILLING, ETC				
	Excavations				
	Site clearance				
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc for paving and bulk site clearance	m2	1,729		
	Open face excavation in earth over sloping site				
2	Open face excavation	m3	1,003		
	Extra over bulk excavation in earth for excavation in				
3	Soft rock	m3	100		
4	Hard rock	m3	50		
	Extra over all excavations for carting away				
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	735		
	Risk of collapse of excavations				
6	Sides of trench and hole excavations not exceeding 1 500mm deep	m2	256		
	Keeping excavations free of water				
7	Keeping excavations free of all water other than subterranean water		Item		
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 1 Bulk Earthworks CLUSTER G			R	
	CLUSIER G				

	Brought Forward			R	
l	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
8	Earth filling obtained from excavations compacted to 95% Mod AASHTO density				
		m3	259		
	Earth filling supplied by the contractor compacted to 95% Mod AASHTO density				
	The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.				
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit				
9	150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density				
		m3	225		
10	150mm Imported G6 material compacted to 95% mod. AASHTO density	m3	259		
11	150mm Imported G7 material compacted to 95% mod. AASHTO density	m3	259		
	Prescribed density tests on filling				
12	"Modified AASHTO Density" test	No	10		
13	Maximum dry density and optimum moisture content (MOD)	No	10		
					_
	Carried Forward to Summary of Section No. 10			R	
	Section No. 10 EXTERNAL WORKS Bill No. 1 Bulk Earthworks CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.10			
	EXTERNAL WORKS			
	BILL NO. 2			
	PARKING AND PAVINGS			
	Materials and workmanship must be in accordance to the following SABS 1200 specifications:			
	C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks			
	ACCESS ROAD AND VEHICLE PARKING			
	EARTHWORKS			
	Excavations			
	Site clearance			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc for paving and bulk site clearance	n2 798		
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	n2 798		
3	Excavate in pickable earth to reduce ground level below paving and set aside for later use	n3 479		
	Carried Forward Section No. 10 EXTERNAL WORKS		R	
	Bill No. 2 Paving and Carports CLUSTER G			

Brought Forward			R	
Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	359		
Extra over excavation for excavation in soft rock	m3	80		
Ditto, but in hard rock	m3	40		
Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
Under floors, steps, paving, etc	m3	120		
Earth filling supplied by the contractor under pavings etc				
The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.				
Where described as "imported" the gravel to be supplied and carted on by the contractor from an appoved borrow pit				
Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density	m3	120		
150mm Imported G6 material compacted to 95% mod. AASHTO	m3	120		
•		120		
32,50 BV cement and consolidated to 97% mod. AASHTO density	m3	120		
Compaction of surfaces				
Compaction of ground surface under parking areas etc by wetting and compacting	m2	798		
Carried Forward			R	
Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports CLUSTER G				
	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) Extra over excavation for excavation in soft rock Ditto, but in hard rock Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc Earth filling supplied by the contractor under pavings etc The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses. Where described as "imported" the gravel to be supplied and carted on by the contractor from an appoved borrow pit Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density 150mm Imported G6 material compacted to 95% mod. AASHTO density 150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 Extra over excavation for excavation in soft rock m3 Ditto, but in hard rock m3 Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc m3 Earth filling supplied by the contractor under pavings etc The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses. Where described as "imported" the gravel to be supplied and carted on by the contractor from an appoved borrow pit Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density m3 150mm Imported G6 material compacted to 95% mod. AASHTO density m3 150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density m3 Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting m2 Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 359 Extra over excavation for excavation in soft rock m3 80 Ditto, but in hard rock m3 40 Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc m3 120 Earth filling supplied by the contractor under pavings etc The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses. Where described as "imported" the gravel to be supplied and carted on by the contractor from an appoved borrow pit Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density m3 120 150mm Imported G6 material compacted to 95% mod. AASHTO density m3 120 150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density m3 120 Compaction of surfaces Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting m2 798 Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 359 Extra over excavation for excavation in soft rock m3 80 Ditto, but in hard rock m3 40 Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc m3 120 Earth filling supplied by the contractor under pavings etc The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses. Where described as "imported" the gravel to be supplied and carted on by the contractor from an appoved borrow pit Over site of G7 material in accordance with SABS 1200 DM compacted to 95% Mod AASHTO density m3 120 150mm Imported G6 material compacted to 95% mod. AASHTO density m3 120 150mm Imported C4 material with and including 3% 32,50 BV cement and consolidated to 97% mod. AASHTO density m3 120 Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting m6 ground surface under parking areas etc by wetting and compacting m6 ground surface under parking areas etc by wetting and compacting m6 ground surface under parking areas etc by wetting and compacting m7 798

	Brought Forward			R	
	Prescribed density tests on filling				
12	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	10		
13	25mm Thick layer clean,dry, riversand layer treated with an approved weed killer at the rate of 50 grams per square metre,spread and levelled to receive paving blocks (elsewhere measured)	m2	822		
14	Tests to determine the degree of comapction, etc of ground filling	No	10		
	PAVING				
	Interlocking Pavings				
15	80mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 20mm sand founding layer with and covered with sand layer sweep into joints	m2	798		
16	Circular cutting to paving	m	85		
	Kerbs, etc				
17	Precast concrete figure 7 mountable kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	329		
18	Precast concrete figure 7 kerb (SABS 927), circular on plan n.e 4m area levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	288		
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports CLUSTER G			R	

	Brought Forward			R	
	<u>Sundries</u>				
19	Mass concrete (25MPa) in 300 x 150mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	8		
	<u>PAINTWORK</u>				
	Prepare and paint one coat reflective road marking paint on concrete paving block surfaces				
20	Lines 100mm wide	m	70		
21	Disable persons pictorial 1000mm high	No	1		
22	Sign Faces with Painted or Galvanised (as stated) Background, with Painted Symbols, Characters, Legend and Borders, and with Signboardings Constructed from: Steel tubing 76mm diameter x 2,5mm thick CHS sections 3m long, with two coats bitumen tar below ground and zinc phosphate primer and two coats metal				
	paint above ground	No	1		
	ASSEMBLY AREA AND WALKWAYS				
	EARTHWORKS				
	Excavations				
	Site clearance				
23	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc for paving and bulk site clearance	m2	1,623		
24	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	m2	1,623		
25	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	243		
	Carried Forward Section No. 10 EXTERNAL WORKS			R	_
	Bill No. 2 Paving and Carports CLUSTER G				

	Brought Forward	1		R	
26	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	243		
27	Extra over excavation for excavation in soft rock	m3	39		
28	Ditto, but in hard rock	m3	19		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
29	Under floors, steps, paving, etc	m3	243		
	Earth filling supplied by the contractor under pavings etc				
	The following to be natural selected gravel layers evenly spread and consolidated in layers and dimensions as specified and on the drawings. All thicknesses to be consolidated thicknesses.				
	Where described as "imported" the gravel to be supplied and carted on by the contractor from an approved borrow pit				
30	150mm Imported G6 material compacted to 95% mod. AASHTO density	m3	243		
	Compaction of surfaces				
31	Compaction of ground surface under parking areas etc by wetting and compacting	m2	1,623		
	Prescribed density tests on filling				
32	In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	10		
33	25mm Thick layer clean,dry, riversand layer treated with an approved weed killer at the rate of 50 grams per square metre,spread and levelled to receive paving blocks (elsewhere measured)	m2	2,180		
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2			R	
	Paving and Carports CLUSTER G				

	Brought Forward			R	
34	Tests to determine the degree of comapction, etc of ground filling	No	10		
	PAVING				
	Interlocking Pavings				
35	60mm Thick double interlocking (DZZ) precast grey coloured concrete paving blocks laid in a herringbone pattern on and including 20mm sand founding layer with and covered with sand layer sweep into joints	m2	1,623		
36	Circular cutting to paving	m	135		
	Kerbs, etc				
37	Precast concrete figure 7 mountable kerb (SABS 927), levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	384		
38	Precast concrete figure 7 kerb (SABS 927), circular on plan n.e 4m area levelled and jointed in 1:5 cement mortar complete with 15Mpa/19mm in situ concrete support blocks size 225 x 150 x 225mm high, at joints at 1,0m centres, including leaving 6mm expansion joints at 10m intervals between kerbs	m	288		
	<u>Sundries</u>				
39	Mass concrete (25MPa) in 300 x 150mm edge filler strip finished smooth on top with a wood float, including all excavation, formwork, etc	m	15		
	CARPORTS				
40	Provide the amount of R250 000,00 (Two Hundred Fifty Thousand Rand) for the supply and installation of Carports by Specialists		ltem		250,000.00
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 2 Paving and Carports CLUSTER G			R	

	Brought Forward		R	
41	Allow for profit on above if required	Item		
42	Allow for giving every facility to Specialists as described	Item		
	Carried Forward to Summary of Section No. 10		R	
	Section No. 10 EXTERNAL WORKS			
	Bill No. 2 Paving and Carports			
	CLUSTER G			

Item No			Quantity	Rate	Amount	
	SECTION NO.10	!				
	EXTERNAL WORKS					
	BILL NO.3					
	STORMWATER DRAINAGE					
	Materials and workmanship must be in accordance to the following SABS 1200 specifications:					
	C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks					
	ACCESS ROAD AND VEHICLE PARKING					
	<u>EARTHWORKS</u>					
	Excavations					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc for paving and bulk site clearance	m2	367			
2	Rip and scarify ground level to a depth of 150mm and consolidate to 90% mod. AASHTO density (minimum CBR 3)	m2	367			
3	Excavate in pickable earth to reduce ground level below paving and set aside for later use	m3	55			
	Carried Forward Section No. 10			R		
	EXTERNAL WORKS Bill No. 3 Stormwater Drainage CLUSTER G					

Brought Forward			R	
Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil)	m3	367		
Extra over excavation for excavation in soft rock	m3	6		
Ditto, but in hard rock	m3	3		
Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
Under floors, steps, paving, etc	m3	55		
Earth filling supplied by the contractor under pavings etc				
Compaction of surfaces				
Compaction of ground surface under parking areas etc by wetting and compacting	m2	367		
Prescribed density tests on filling				
In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1	No	10		
REINFORCED CONCRETE				
30MPa/19mm concrete				
Stormwater channels cast in panels	m3	37		
CONCRETE SUNDRIES				
Finishing top surfaces of concrete smooth with a steel trowel				
Surface beds, slabs, etc	m2	367		
<u>FORMWORK</u>				
Section No. 10 EXTERNAL WORKS Bill No. 3 Stormwater Drainage CLUSTER G			R	
	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) Extra over excavation for excavation in soft rock Ditto, but in hard rock Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc Earth filling supplied by the contractor under pavings etc Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting Prescribed density tests on filling In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1 REINFORCED CONCRETE 30MPa/19mm concrete Stormwater channels cast in panels CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a steel trowel Surface beds, slabs, etc FORMWORK Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 3 Stormwater Drainage	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) Extra over excavation for excavation in soft rock Ditto, but in hard rock Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc Earth filling supplied by the contractor under pavings etc Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting Prescribed density tests on filling In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1 No REINFORCED CONCRETE 30MPa/19mm concrete Stormwater channels cast in panels CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a steel trowel Surface beds, slabs, etc m2 FORMWORK Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 3 Stormwater Drainage	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 367 Extra over excavation for excavation in soft rock m3 6 Ditto, but in hard rock m3 3 Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc m3 55 Earth filling supplied by the contractor under pavings etc Compaction of surfaces Compaction of ground surface under parking areas etc by wetting and compacting m2 367 Prescribed density tests on filling In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1 No 10 REINFORCED CONCRETE 30MPa/19mm concrete Stormwater channels cast in panels m3 37 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a steel trowel Surface beds, slabs, etc m2 367 FORMWORK Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 3 Stormwater Drainage	Ditto, but cart away excavated material to a dumping place to be found by the contractor (cut to spoil) m3 367 Extra over excavation for excavation in soft rock m3 6 Ditto, but in hard rock m3 3 Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density Under floors, steps, paving, etc m3 55 Earth filling supplied by the contractor under pavings etc Compaction of ground surface under parking areas etc by wetting and compacting m2 367 Prescribed density tests on filling In-situ dry density (sand replacement) test in accordance with method A10 (a) of TMH 1 No 10 REINFORCED CONCRETE 30MPa/19mm concrete Stormwater channels cast in panels m3 37 CONCRETE SUNDRIES Finishing top surfaces of concrete smooth with a steel trowel Surface beds, slabs, etc m2 367 FORMWORK Carried Forward R Section No. 10 EXTERNAL WORKS BII No. 3 Stormwater Drainage

	Brought Forward			R	
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to sides				
12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	367		
	TEST CUBES				
13	Allow for preparing a set of three concrete strength test cubes, each size 150 x 150 x 150mm, sending them to an approved Testing Laboratory for testing and paying all charges in connection therewith.	Sets	5.0		
	MOVEMENT JOINTS ETC				
	Expansion joints with bitumen impregnated softboard between vertical concrete and brick surfaces				
14	Saw cut joints in top of concrete	m	367		
	REINFORCEMENT				
	REINFORCEMENT (PROVISIONAL)				
	Fabric reinforcement				
15	Type 311 fabric reinforcement in concrete slabs etc	m2	367		
	Carried Forward to Summary of Section No. 10			R	
	Section No. 10 EXTERNAL WORKS Bill No. 3 Stormwater Drainage				
	CLUSTER G				

Item No			Quantity	Rate	Amount
	SECTION NO.10	1			
	EXTERNAL WORKS				
	BILL NO. 4				
	WATER SUPPLIES				
	Materials and workmanship must be in accordance to the following SABS 1200 specifications:				
	C - Site clearance D - Earthworks DM - Earthworks (Roads, subgrade) M - Roads (General) ME - Sub-base MF - Base MK - Kerb and Channeling MM - Ancillary Roadworks				
	Class 6 black uPVC pipes including "Plasson" compression fittings				
1	75mm Pipes laid in and including trenches not exceeding 1m deep	m	770		
2	25mm Pipes laid in and including trenches not exceeding 1m deep	m	50		
	Extra over class 6 uPVC pressure pipes for fittings with solvent welded joints				
3	25mm Junction	No	4		
4	25mm Bend	No	8		
5	75 x 25mm Reducer	No	12		
6	25 x 15 x 25mm Tee	No	12		
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 4 Water Supply CLUSTER G			R	

	Brought Forward			R	
7	25 x 22mm Reducer	No	4		
8	25mm Tee	No	5		
9	75mm Elbow	No	4		
10	75mm Junction	No	8		
11	75 x 32mm reducer	No	8		
12	75 x 32 x 63mm Tee	No	4		
	Carried Forward to Summary of Section No. 10			R	
	Section No. 10 EXTERNAL WORKS				
	Bill No. 4 Water Supply				
	CLUSTER G				

Item No		Quantity	Rate	Amount	
	SECTION NO.10				
	BILL NO. 5				
	SOIL DRAINAGE				
	SUPPLEMENTARY PREAMBLES				
	"Polycop" polypropylene pipes:				
	Polypropylene pipes 54mm diameter and under shall be seamless copper coloured class 16 pipes jointed with "Fast-fuse" heat welded thermoplastic or brass compression fittings as designed for use with copper pipes as stated				
	Pipes shall be firmly fixed to walls etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions				
	All pipe diameters are nominal external				
	"Polylink" polypropylene pipes:				
	Polypropylene pipes 63mm diameter and over shall be class 12 pipes jointed with cast iron "Supraclamp" running joints				
	Fusion welded bends, once or twice mitred as necessary, and tees shall be factory manufactured				
	Fusion welded bends and tees shall include jointing to pipes with PVC rubber ring double Z joint couplers				
	Branch tees shall include flanged and bolted joints to "Polycop" branch pipes in addition and for brass compression male iron to copper straight couplers				
	Carried Forward Section No. 10		R		
	EXTERNAL WORKS Bill No. 5 Sewer Drainage				
	Sewer Drainage CLUSTER G				

Brought Forward	R	
Reducers shall include jointing to pipes with PVC rubber ring double Z joint couplers and reducers shall be of sufficient overall length to accommodate same		
All pipes shall be jointed and fixed strictly in accordance with the manufacturer's instructions		
All pipe diameters are nominal external		
Concrete pipes:		
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings		
Vitrified clay pipes:		
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		
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings		
uPVC pipes and fittings:		
Soil, waste and vent pipes and fittings shall be solvent weld jointed		
uPVC pressure pipes and fittings:		
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		
Carried Forward	R	
Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G	K	

	Brought Forward	R	
ļ	Copper pipes:		
	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		
	Fixing of pipes		
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level		
	Lead pipes and fittings		
	All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel		
	Reducing fittings		
	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		
	Septic tanks		
	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		
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G	R	

Brought Forward	R	
Exposed concrete surfaces		
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster		
Excavations		
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 "Earthworks"		
Laying, backfilling, bedding, etc. of pipes		
Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions		
Where no manufacturers' 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		
Flush pans		
Flush pans shall have straight or side outlets and "P" or "S" traps as necessary		
Stainless steelbasins, sinks, wash troughs, urinals, etc.		
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable		
Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G	R	
OLUGIER G		

	Brought Forward			R	
	Waste unions				
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				
	Steel sectional water tanks				
	Tanks shall comply with SABS CKS 114				
	"Densyl" petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd.				
	Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum 15mm lap per spiral unless otherwise described				
	Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including all mastic, tape, "Layflat" sheeting, securing of same, etc				
	SOIL DRAINAGE				
	uPVC pipes				
1	160mm Pipes laid in and including trenches	m	280		
	Extra over "Corflo" double walled radial ribbed uPVC pipes with integral moulded cuff joints and rubber seal rings for uPVC fittings				
2	160mm Bend	No	4		
3	160mm Junction	No	4		
4	160mm End cap	No	1		
	SUNDRIES				
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G			R	

	Brought Forward			R	
	Precast concrete circular inspection chambers, with and including manhole cover and frame all as per Engineer's drawings no.??????				
5	Inspection chamber 1000mm diameter and not exceeding 750mm deep internally				
		No	4		
6	Inspection chamber 1000mm diameter and exceeding 750mm and not exceeding 1000mm deep internally	No	4		
7	Inspection chamber 1000mm diameter and exceeding 1000mm and not exceeding 2000mm deep internally				
		No	3		
	Covers etc				
8	Lifting key for manhole cover	No	12		
	SEPTIC TANKS, ETC.				
	For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				
	SITE CLEARANCE ETC				
	Site clearance				
9	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	38		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
10	Holes	m3	33		
	Carried Forward Section No. 10 EXTERNAL WORKS			R	
	Bill No. 5 Sewer Drainage CLUSTER G				

	Brought Forward			R	
	Excavation in earth exceeding 2m and not exceeding 4m deep				
11	Holes	m3	4		
	Extra over all excavations for carting away				
12	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	17		
	Risk of collapse of excavations				
13	Sides of trench and hole excavations not exceeding 1,5m deep	m2	27		
14	Sides of trench and hole excavations exceeding 1,5m deep and not exceeding not exceeding 3m deep	m2	13		
	Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density				
15	Backfilling to trenches, holes, etc	m3	20		
	Keeping excavations free of water				
16	Keeping excavations free of all water other than subterranean water		Item		
	REINFORCED CONCRETE		no		
	20MPa/19mm concrete				
17	Surface beds cast in panels	m3	1		
18	Slab over septic tank	m3	1		
19	Concrete haunch formed below pipes	m3	0.04		
	CONCRETE SUNDRIES				
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G			R	

	Brought Forward			R	
	Finishing top surfaces of concrete smooth with a steel trowel				
20	Surface beds, slabs, etc to falls	m2	18		
	Grooves, channels, mortice, sinkings, etc in concrete				
	Form 25 x 25mm chamfer to edges of concrete	m	13		
	Permanent formwork to soffits				
21	Slab over septic tank	m2	6		
	Smooth formwork to form				
22	Opening not exceeding 1m girth through 150mm slab	No	2		
	SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
	Smooth formwork to sides				
23	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	14		
	REINFORCEMENT				
	Mild steel reinforcement to structural concrete work				
24	10mm Diameter bars	t	0.04		
	Fabric reinforcement				
25	Steeledale Mesh standard square fabric mesh, nominal mass 3,95 kg/m² with nominal 8mm thick wires and 200 x 200mm pitch (code 395), complying with SANS 1024/2006 requirements, in sheets 2,4 x 6m long.(septic tank bottoms)				
		m2	9		
	MASONRY				
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G			R	_

	Brought Forward			R	
	Brickwork of NFP bricks in class II mortar				
26	One brick walls	m2	23		
	Brickwork reinforcement				
27	150mm Wide reinforcement built in horizontally	m	72		
	BRICKWORK SUNDRIES				
28	Leave of form 450 x 150mm high opening through a one brick wall	No	1		
29	Leave or form opening through one brickwall for pipe exceeding 100mm and n.e 200mm diameter	No	2		
	PLASTERING				
	Watertight cement plaster on brickwork				
30	On walls	m2	23		
	PLUMBING AND DRAINAGE				
	uPVC pipes				
31	110mm Pipes	m	1		
	Extra over uPVC pipes for fittings				
32	110mm Tee	No	2		
	Cover, etc				
33	600 x 600mm Type 2A cast iron single seal manhole cover and frame	No	2		
34	Lifting key for manhole cover	No	2		
	FRENCH DRAINS				
	SITE CLEARANCE ETC				
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G			R	

	Brought Forward			R	
	Site clearance				
35	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	45		
	EXCAVATION, FILLING, ETC				
	Excavation in earth not exceeding 2m deep				
36	Holes	m3	19		
	Extra over trench and hole excavations in earth for excavation in				
37	Soft rock	m3	1		
38	Hard rock	m3	2		
	Extra over all excavations for carting away				
39	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	16		
	Risk of collapse of excavations				
40	Sides of trench and hole excavations not exceeding 1,5m deep	m2	35		
	Keeping excavations free of water				
41	Keeping excavations free of all water other than subterranean water		Item		
	Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted)				
42	On top of french drain as soil cover	m3	3		
	FILTER FABRIC				
	Carried Forward Section No. 10 EXTERNAL WORKS Bill No. 5 Sewer Drainage CLUSTER G			R	

	Brought Forward			R	
	"Kaytech Engineered Fabric" or similar approved laid in strict accordance to the manufacturer's instructions				
43	"Kaymat U14" around stone filling in sub-soil drain trenches	m2	38		
	20mm Graded stone filling or similar approved	mz	30		
44	In holes	m3	5		
	200 - 300mm Diameter clean washed stone filling or similar approved by engineer				
45	In holes	m3	11		
	WATERPROOFING				
	One layer of 250 micron "Tarkon USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"				
46	On top of pipes as protection of joints	m2	9		
	uPVC pipes				
47	110mm Inspection pipes	m	8		
	Extra over uPVC pipes for fittings				
48	110mm End cap	No	1		
					_
	Carried Forward to Summary of Section No. 10			R	_
	Section No. 10 EXTERNAL WORKS				
	Bill No. 5 Sewer Drainage				
	CLUSTER G				

Item No		Quantity	Rate	Amount
	SECTION NO.10			
	BILL NO.6			
	<u>FENCING</u>			
	SITE CLEARANCE, ETC.			
	Site clearance			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc m2	670		
	Steel palisade fencing			
2	Steel palisade fence 2100mm high above ground level over flat or sloping terrain including all posts, excavation, backfilling, concrete bases, etc m	1,116		
3	Single gate gate 1200 x 2100m high including heavy duty hasp and staple, padlock and two barrel bolts with two keeps in and including concrete anchor blocks with Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats approved enamel paint	1		
4	Single sliding gate 2982 x 2100m high including heavy duty hasp, staple, padlock, two barrel bolts and ground rails with two keeps in and including concrete anchor blocks with Spot primer defects in pre-primed surfaces with zinc chromate primer UC 53, one universal undercoat and two coats approved enamel paint	1		
	Carried Forward to Summary of Section No. 10 Section No. 10 EXTERNAL WORKS Bill No. 6 Fencing CLUSTER G		R	

	Section No. 10			
	EXTERNAL WORKS			
	SECTION SUMMARY - EXTERNAL WORKS			
Bill No		Page No		Amount
1	Bulk Earthworks	344		
2	Paving and Carports	351		
3	Stormwater Drainage	354		
4	Water Supply	356		
5	Sewer Drainage	367		
6	Fencing	368		
	Carried to Final Summary		R	
	Section No. 10 EXTERNAL WORKS CLUSTER G			
	GLUSIER G			
		1	l	

Item No		Quantity	Rate	Amount	
	SECTION NO. 11				
	BILL NO.1				
	PROVISIONAL SUMS				
	SUPPLEMENTARY PREAMBLES				
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the Preliminaries				
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill				
					_
	Carried Forward Section No. 11 PROVISIONAL SUMS Bill No. 1		R		
	PROVISIONAL SUMS CLUSTER G				

	Brought Forward		R	
	THE FOLLOWING PROVISIONAL SUMS ARE FOR WORK TO BE EXECUTED BY SELECTED SUBCONTRACTORS			
	The following Provisional Sums are for specialists work to be executed by a selected Sub-contractor who upon appointment in terms of the Conditions of Contract shall be deemed to be a Domestic Sub-Contractor to the Contractor			
	A Selected Sub-Contractor shall be a Sub-contractor executing work for which a sum of money is provided for in the Bills of Quantities or a Sub-contractor executing additional specialist work which arises as a result of an instruction by the Principal Agent/Engineer			
	Tender documents for such work shall be prepared by the Principal Agent/Engineer in consultation with and to the approval of the Contractor and such tender document shall be issued by the Principal Agent/Engineer to a list of tenderers agreed upon between the Principal Agent/Engineer and Contractor. Tenders shall be submitted to the Principal Agent/Engineer			
	The Selected Sub-contractor shall be chosen by the Principal Agent/Engineer and the Contractor, and the Contractor shall satisfy himself that such selected sub-contractor can meet the requirements of the Sub-Contract agreement and the Contractor shall inform the Principal Agent/Engineer accordingly			
	The procedure relating to the method of selection, obtaining of tenders, adjudication thereof and the appointment of the Selected Sub-contractor shall not create any contractual relationship between the Client and the Selected Sub-contractor			
	Rainwater Harvest Etc			
1	Provide the sum of R 330 000.00 (Three Hundred Thirty Thousand Rand) for the supply and installation of Rainwater Harvest	Item		330,000.00
2	Allow for profit.	Item		
	Carried Forward		R	
	Section No. 11 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS CLUSTER G			

	Brought Forward		R	
3	Allow for attendance on sub-contractor	Item		
	Community Liaison Officer			
4	Provide the sum of R173 636.36 (One Hundred Seventy Three Thousand Six Hundred Thirty Six Rand Thirty Six Cents) for community liaison officer	Item		190,000.00
5	Allow for giving every facility to Specialists as described	Item		
6	Allow for profit on above if required	Item		
	Project Steering Committee			
7	Provide a sum of R50 000,00 (Fifty Thousand Rand) for the provision of a Project Steering Committee	Item		50,000.00
8	Allow for profit on above if required	Item		
9	Allow for giving every to specialist as described	Item		
	Borehole, Bulk Water Storage and Water pipe line			
10	Provide the amount of R1 000 000-00 (One million rand) for borehole, Water storage, Tank Stander and Water pipe reticulation by Specialists approved by the civil engineer			
		Item		1,000,000.00
11	Allow for profit on above if required	Item		
12	Allow for giving every facility to Specialists as described	Item		
	Contract Participation Goals			
13	Provide the sum of R 50 000.00 (Fifty Thousand Rand) for contract participation goals for targeted enterprises in accordance to CIDB Competence Standard for			
	Contractors Gazette No. 41237, 10 November 2017.	Item		50,000.00
14	Allow for profit.	Item		
	Carried Forward		R	
	Section No. 11 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS CLUSTER G			

	Brought Forward		R		
15	Allow for attendance on sub-contractor	Item			
	WORK EXECUTED BY SEPARATE DIRECT CONTRACTORS				
	The following work will be executed by contractors under direct agreement with the employer. The contractor is to accommodate these direct contractors and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these contractors to work completed by the principal contractor is to be recorded in detail to enable the employer to counter-charge the direct contractors the cost of making good such damages				
	Occupation Health and Safety				
16	Provide the sum of R500,000.00 Five Hundred Thousand Rand) for Health and Safety Consultant to be appointed as nominated sub contractor from the client	Item		500,000.0	00
17	Allow for profit on above if required	Item			
18	Allow for giving every to specialist as described	Item			
	ELECTRICAL, ELECTRONICAL AND MECHANICAL INSTALLATION				
	Electrical installations				
19	Provide the sum of R 1,650,000.00 (One Million Six Hundred Fifty Thousand Rand) for electrical installation to the buildings and site by Specialists				
		Item		1,650,000.0	0
20	Allow for profit.	Item			
21	Allow for attendance on sub-contractor	Item			
	Carried Forward Section No. 11 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS CLUSTER G		R		_

	Brought Forward		R	
	Upgrading of Bulk Power supply and Eskom Fees			
22	Provide the sum of R 935 000.00 (Nine Hundred Thirty Five Thousand Rand) for Upgrading of existing bulk power supply	Item		935,000.00
23	Allow for profit.	Item		
24	Allow for attendance on sub-contractor	Item		
	Carried to Final Summary Section No. 11 PROVISIONAL SUMS Bill No. 1 PROVISIONAL SUMS CLUSTER G		R	

	FINAL SUMMARY	1		
Section No		Page No		Amount
1	PRELIMINARIES	71		
2	DEMOLITIONS 3 CLASSROOMS, 2 TANK HOUSES AND 20 PIT TOILET SEATS	73		
3	RENOVATIONS OF 27 EXISTING ENVIROLOO TOILETS	92		
4	RENOVATIONS OF 12 CLASSROOMS	120		
5	MEDIUM ADMIN BLOCK	177		
6	4 X 2 CLASSROOM BLOCKS	218		
7	2 x 3 CLASSROOM BLOCKS	257		
8	3 x 2 SEATS WATERBORNE TOILET BLOCKS	304		
9	2 x 4 ENVIROLOO TOILET BLOCKS	341		
10	EXTERNAL WORKS	369		
11	PROVISIONAL SUMS	374		
	Sub Total		R	
	CONTINGENCIES			
	Contingencies:			
	Provide the amount of R1 400 000.00 (One Million Four Hundred Thousand Rand) for contingencies to be used by the architect in terms of clause 17 of the principal Building Agreement.	Item		1,400,000.00
	SPECIAL CONDITIONS			
	Provide the sum of R 1 100 000.00 (One Million One Hundred Thousand Rand) for fluctuations in cost	Item		1,100,000.00
	Sub Total		R	
	Carried Forward CLUSTER G		R	

	FINAL SUMMARY	_		
Section No		Page No		Amount
	Brought Forward		R	
	Add: Value Added Tax at 15%		R	
	Carried to Form of Tender CLUSTER G		R	
	GLUSIER G			

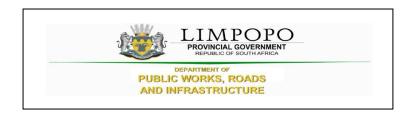
PART C3 SCOPE OF WORKS



PART C3.1: SPECIAL NOTES TO BIDDERS

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

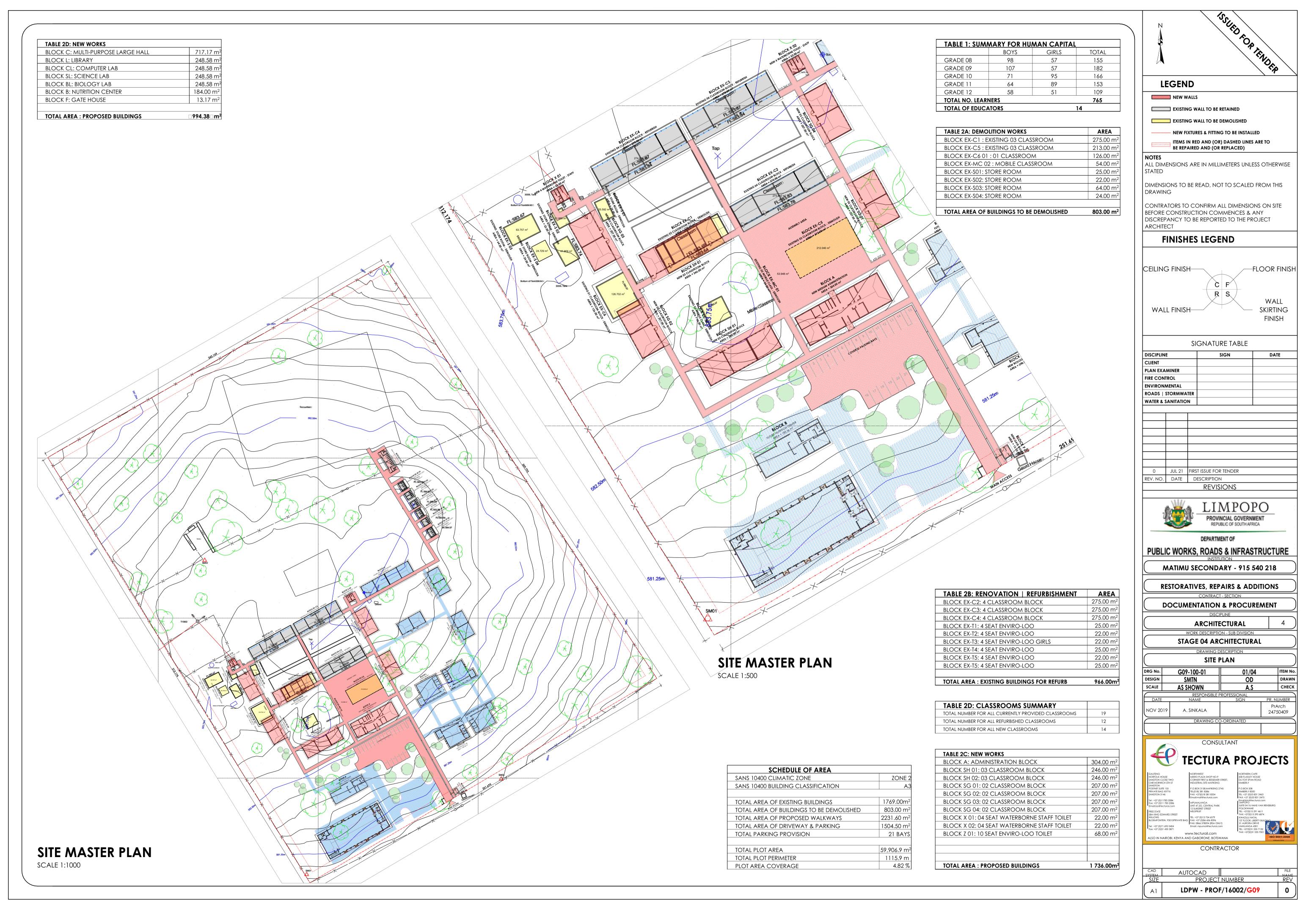
- 1.1.LDPWR&I reserve the right to call interviews with short-listed bidders before final selection.
- 1.2.LDPWR&I reserve the right to conduct supplier due diligence prior to final award or at any time during the contract period. This may include surprise site visits.
- 1.3. LDPWR&I reserve the right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

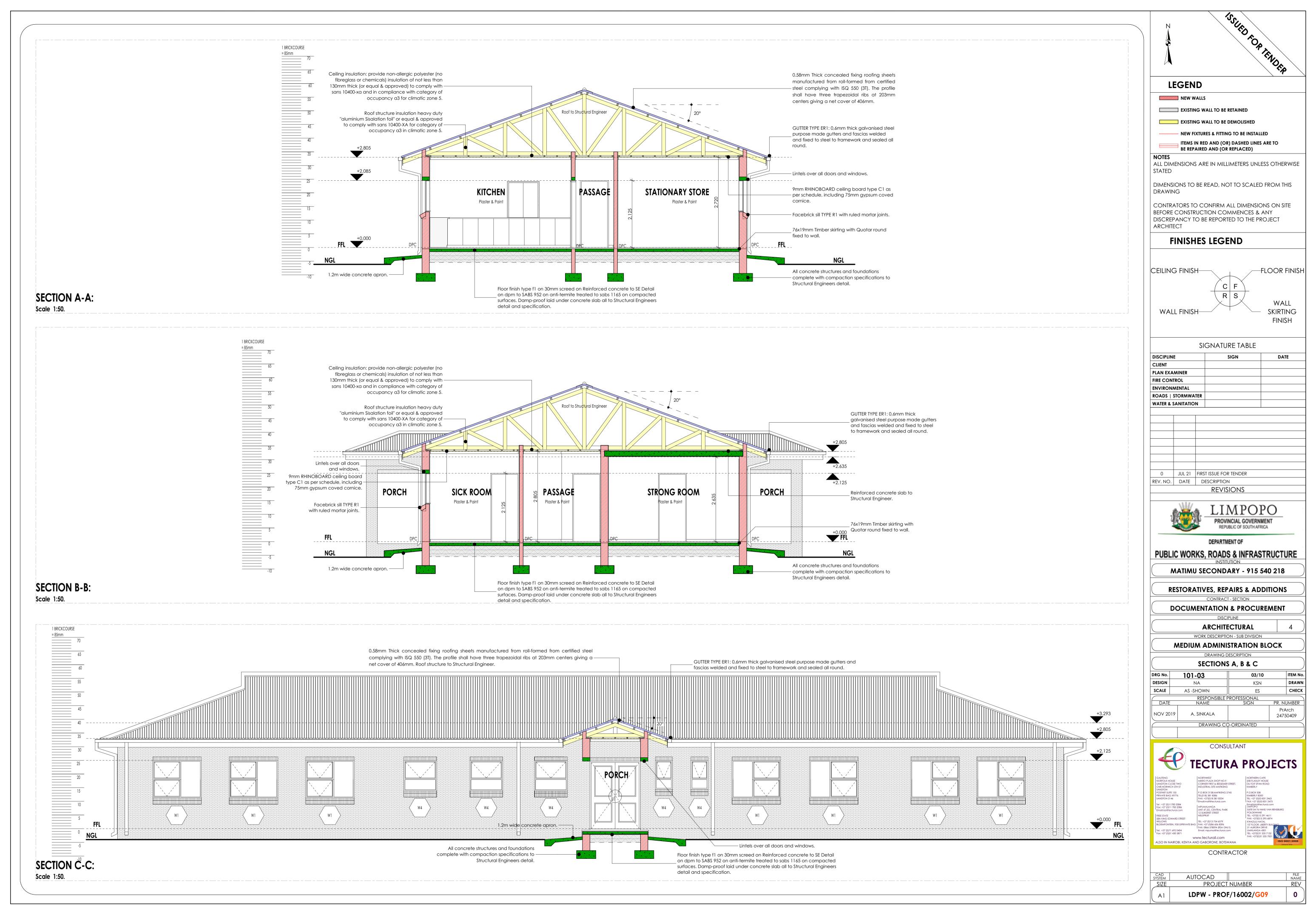


PART C4 SITE INFORMATION





C4.1 DRAWINGS



FLOORS:

F1: FULLY FLEXIBLE TILES (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:

\$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.

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 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

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

specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision

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 \$" 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

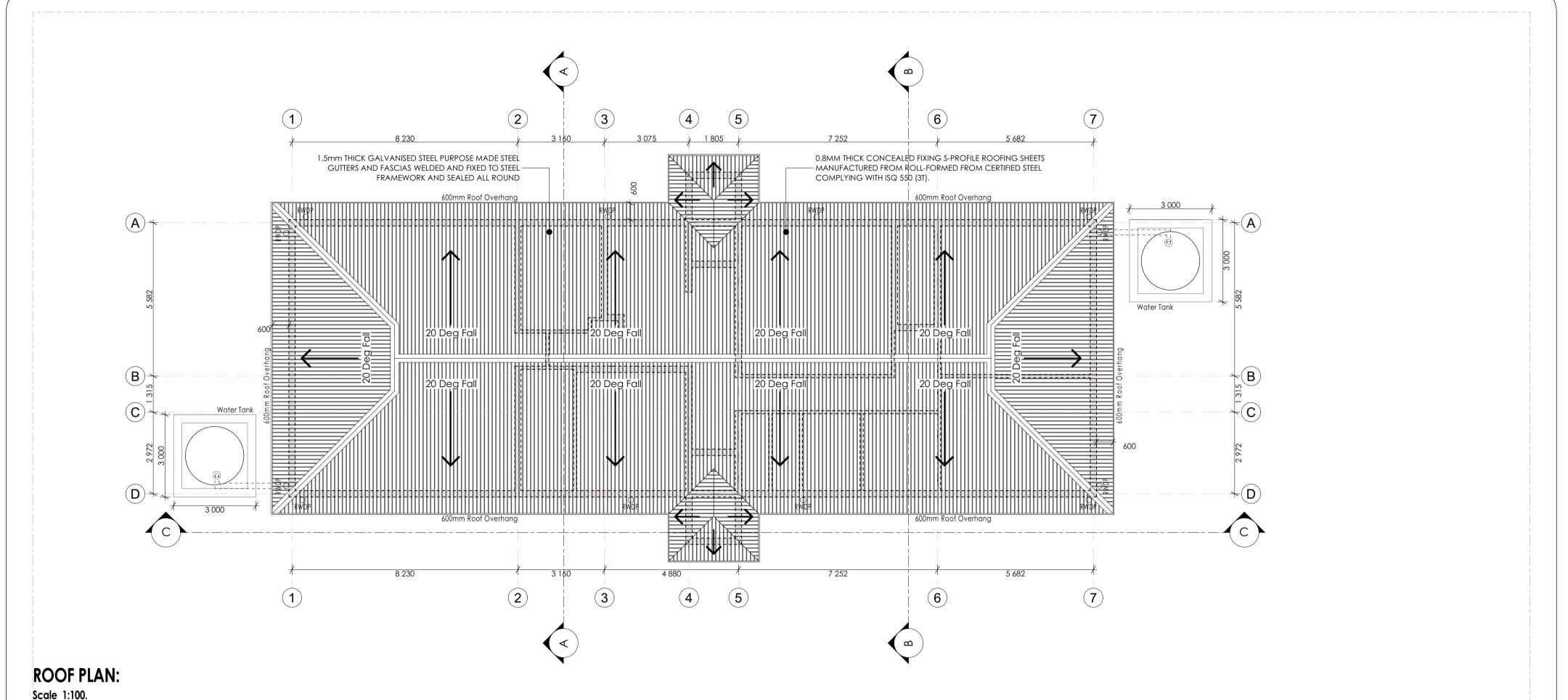
be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural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

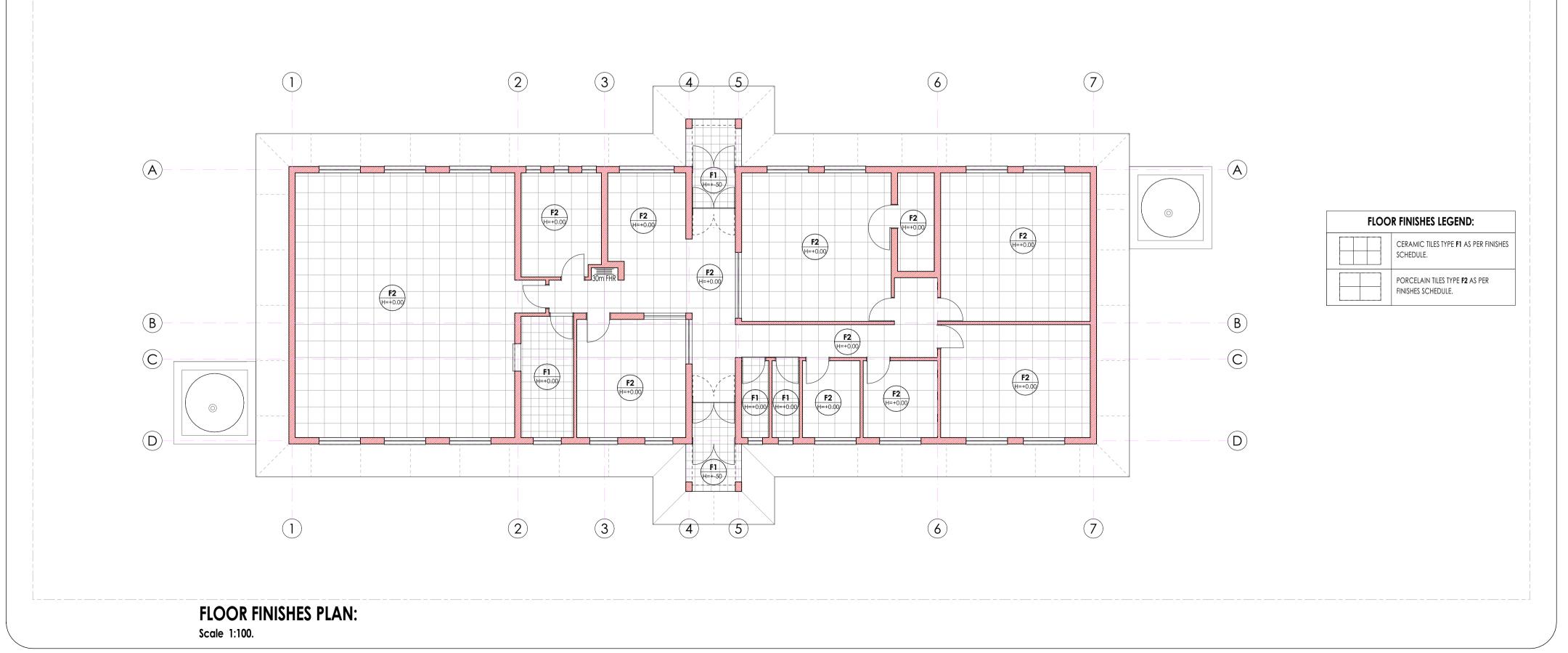
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

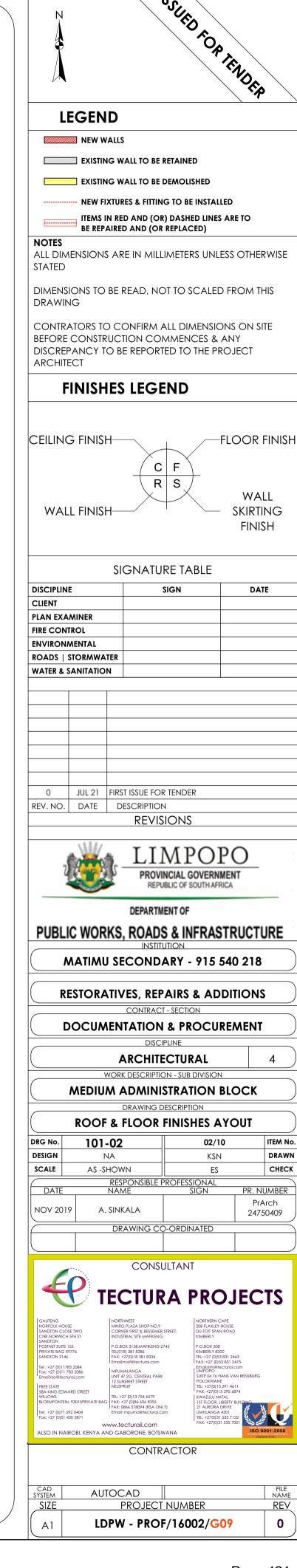
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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.







FLOORS:

F1: FULLY FLEXIBLE TILES (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

Combination 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 (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

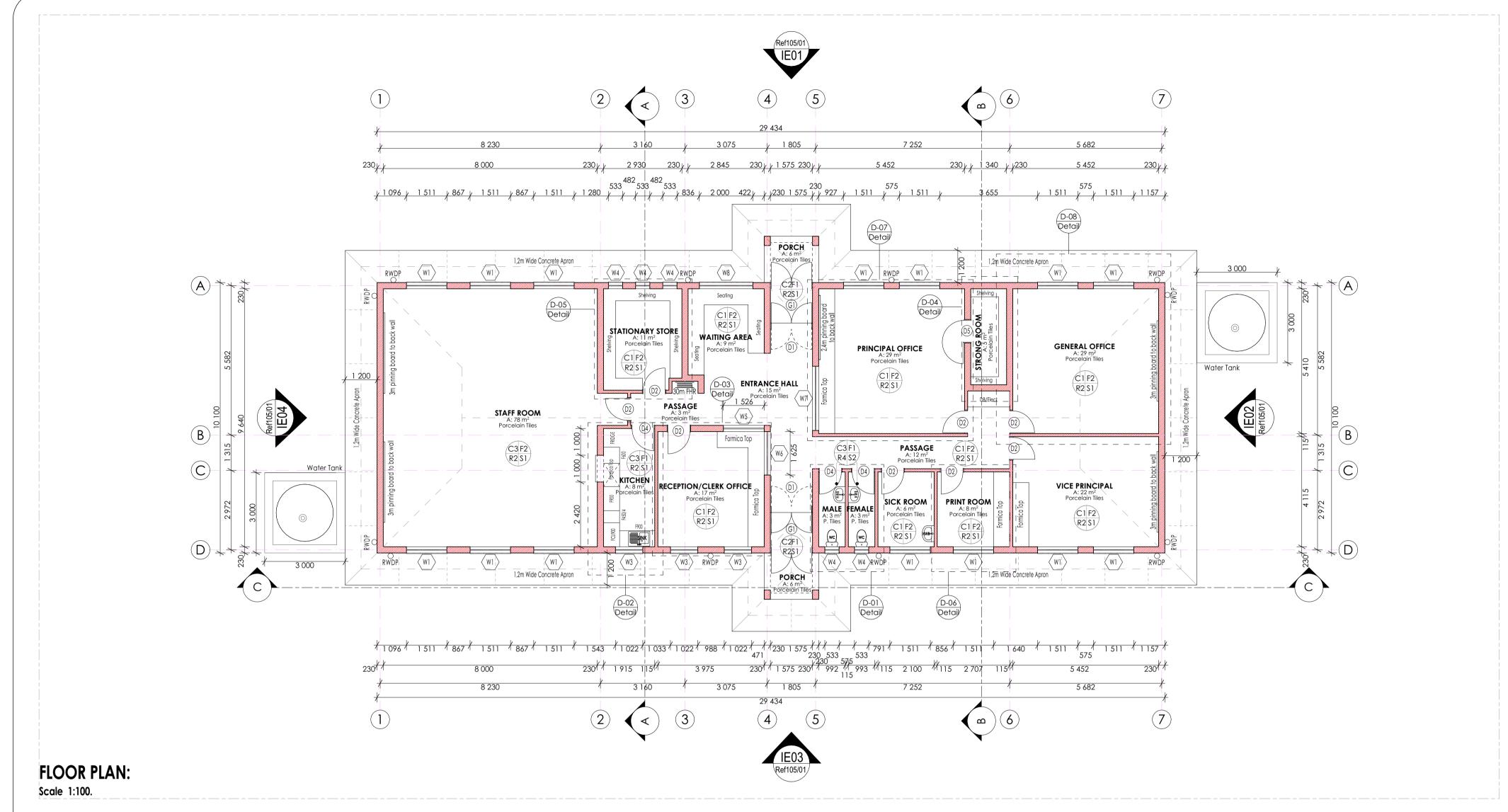
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin

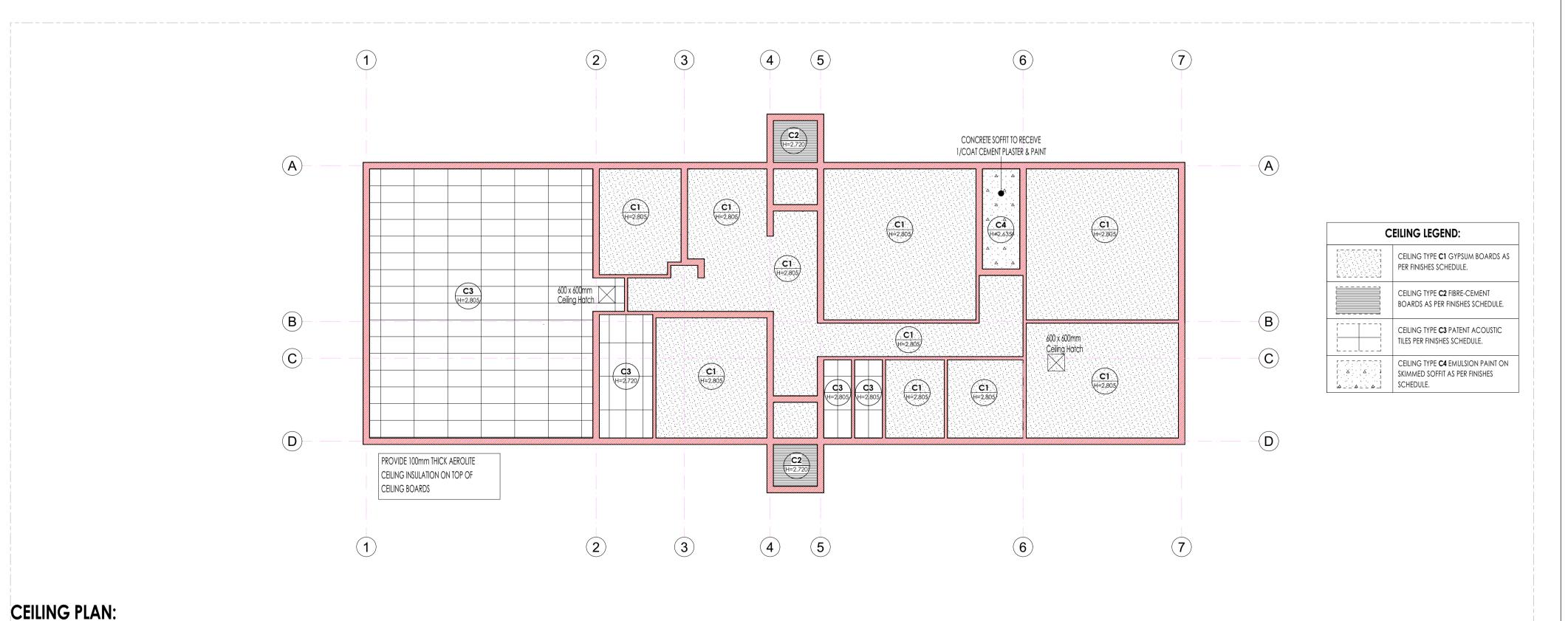
binder supplied size 2400mm x 1200mm and 80kg/mÑ and finished with white metalized foil. Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board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

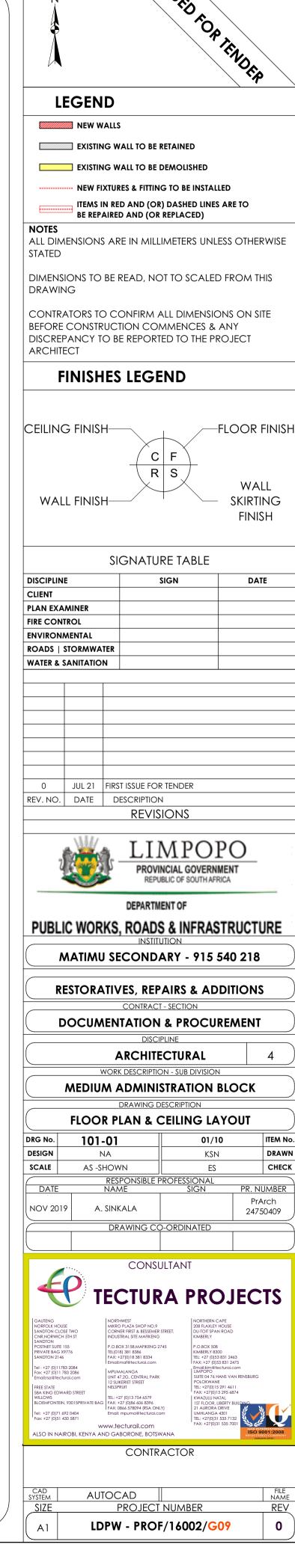
Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions

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.

Scale 1:100.







FINISHES LEGEND FLOORS: F1: FULLY FLEXIBLE TILES (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 ratina, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

F4: CEMENT SAND SCREED

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

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 receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

R5:CERAMIC WALL TILES - FULL HEIGHT

600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

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

GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim he ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or **EQUAL & APPROVED** consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

ROOF COVERING AND INSULATION:

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofsheets to be coated on both sides with "Global Coat" or "Chromadek

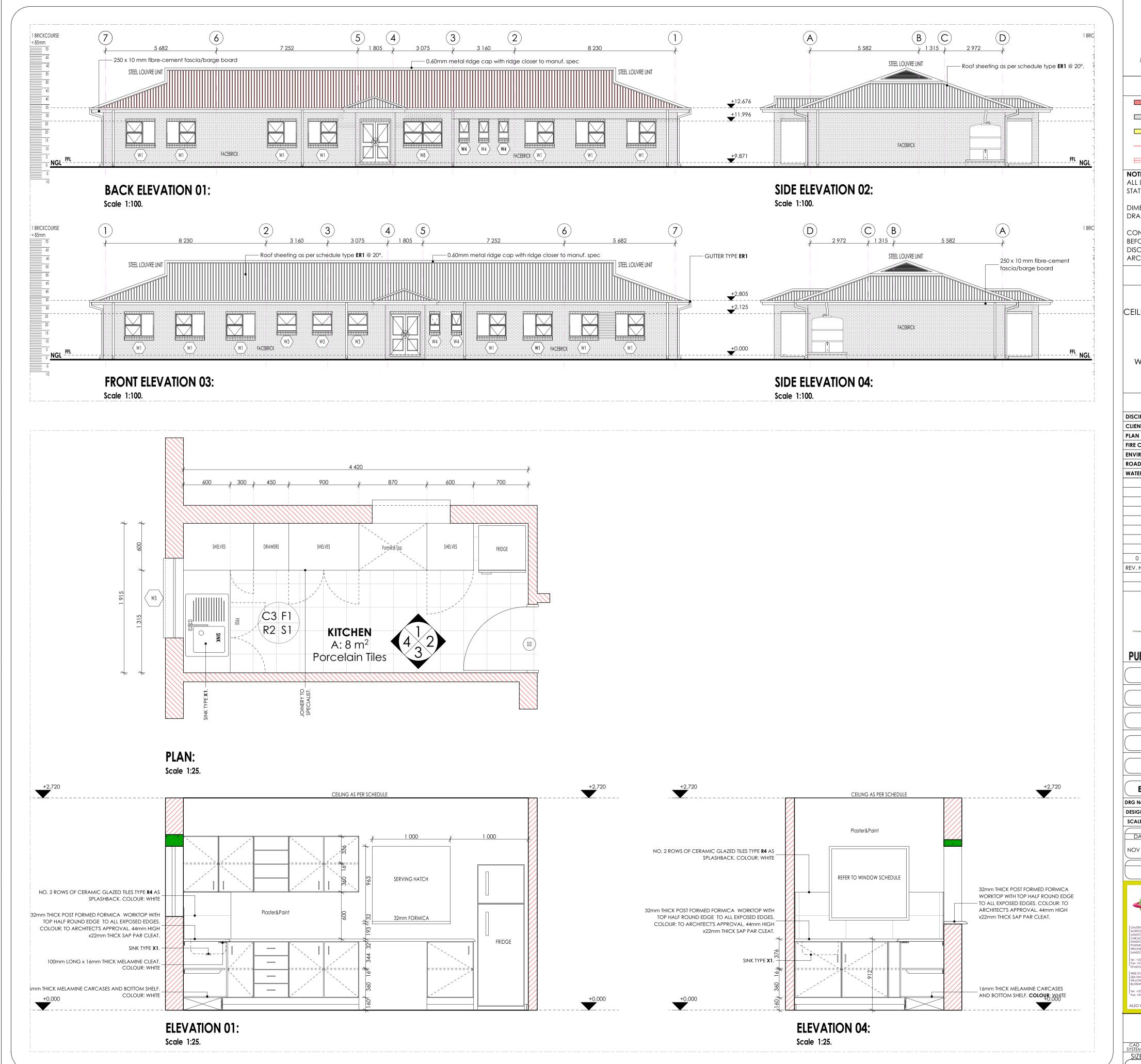
compliance to manufacturer's instructions. Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting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

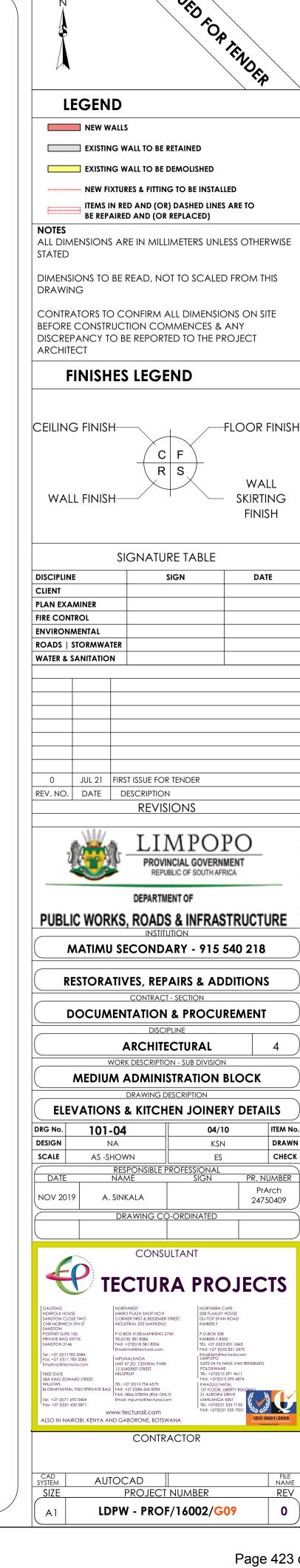
Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closers in strict

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 Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

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





FLOORS:

F1: 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 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.

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

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 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

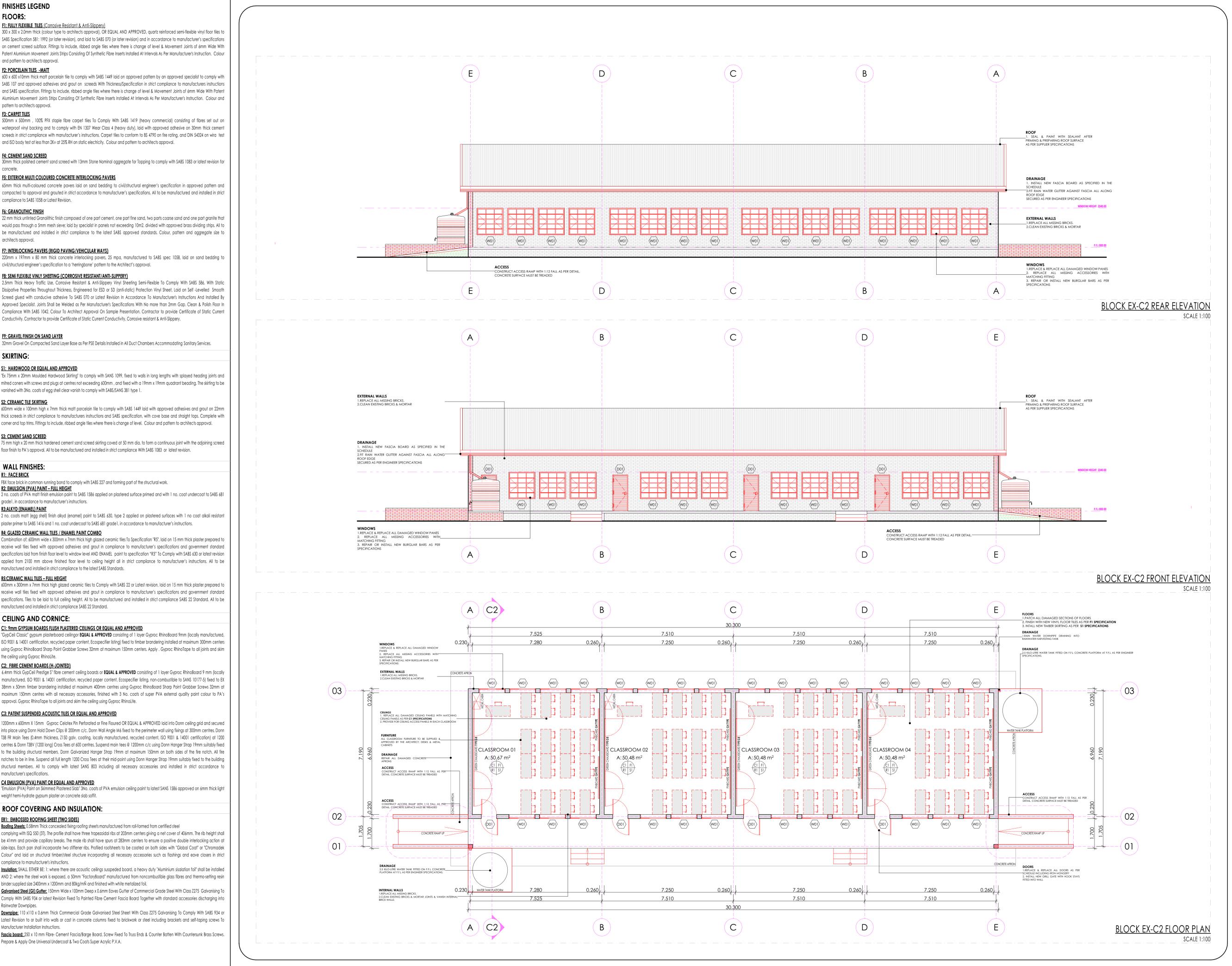
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

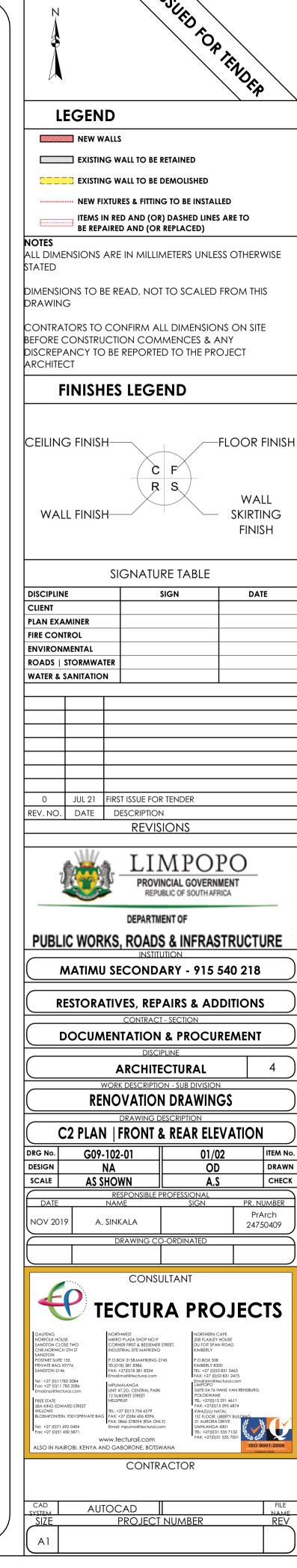
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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





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

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 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.

WALL FINISHES: R1: FACE BRICK

S3: CEMENT SAND SCREED

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 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 tructural 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 ligh

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.

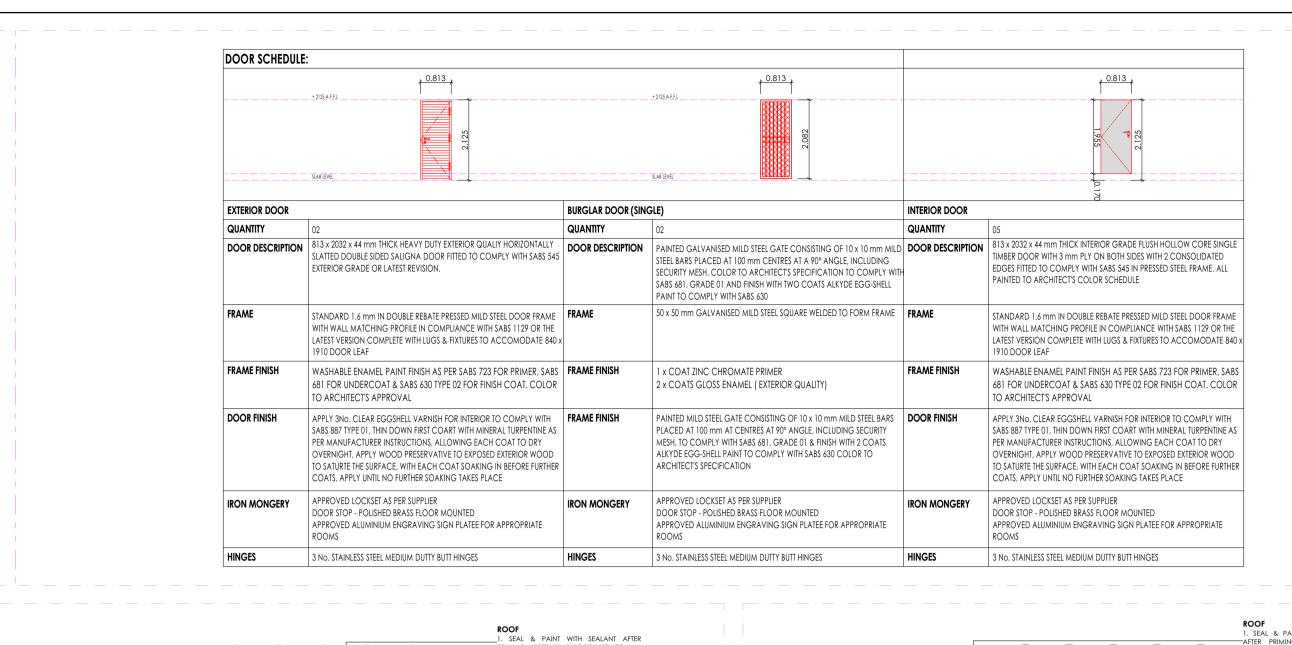
ER1: EMBOSSED ROOFING SHEET (TWO SIDES) **Roofing Sheets:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel

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.

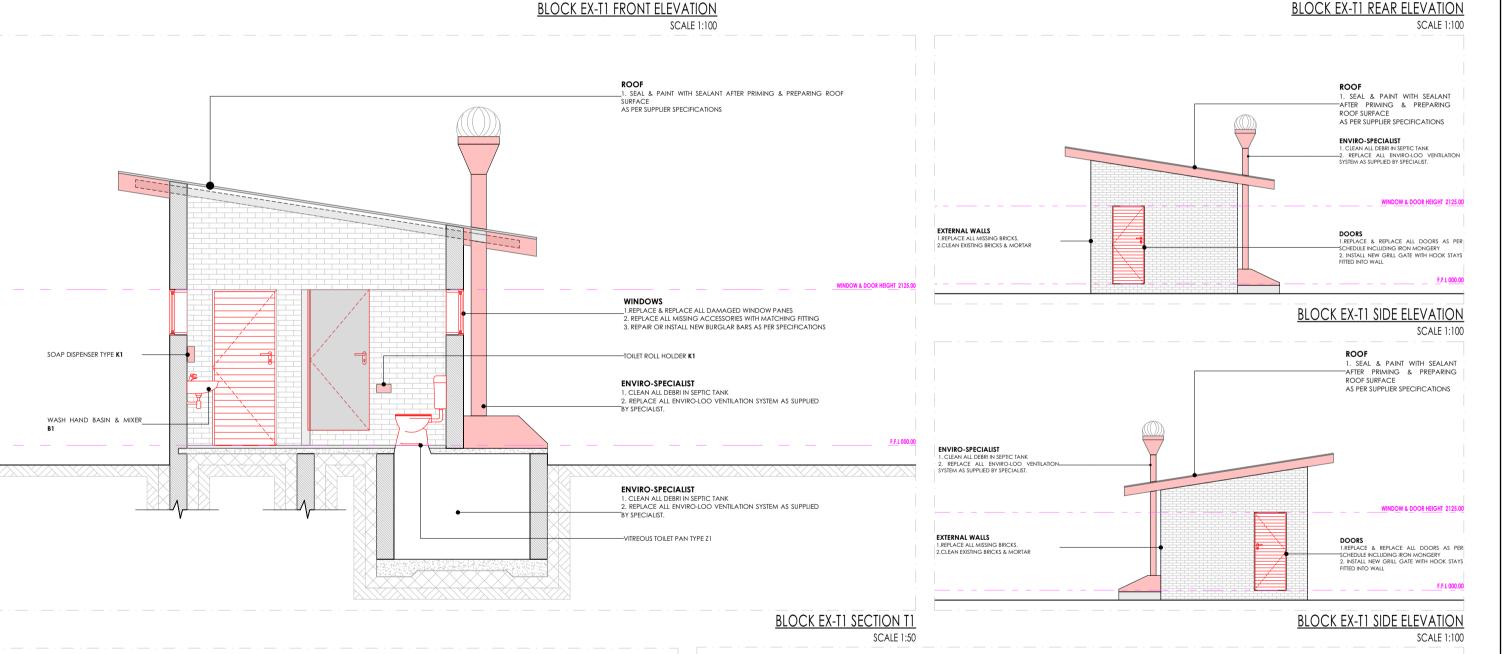
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x 110 x 0.6mm Thick 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.



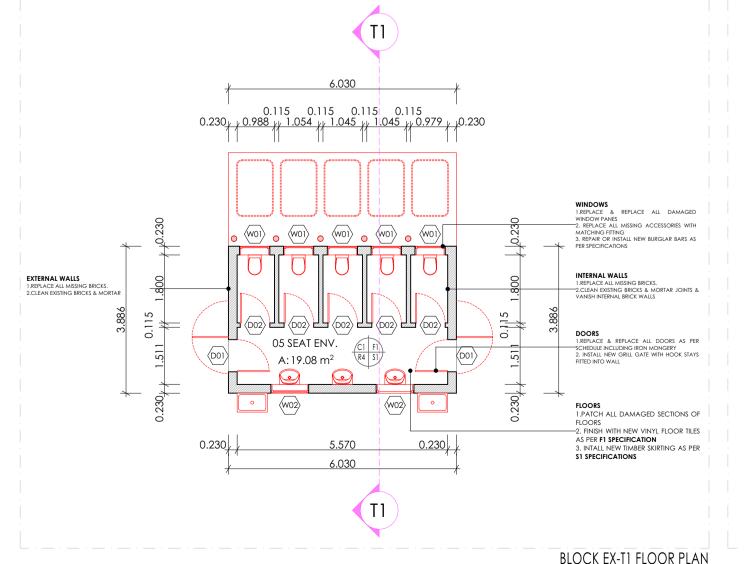
SEAL & PAINT WITH SEALAN AS PER SUPPLIER SPECIFICATIONS AS PER SUPPLIER SPECIFICATIONS MINDOWS
1.REPLACE & REPLACE ALL DAMAGED ACE ALL MISSING ACCESSORIES WITH 3. REPAIR OR INSTALL NEW BURGLAR BARS AS MATCHING FITTING

REPAIR OR INSTALL NEW BURGLAR BARS AS



WINDOW SCHEDULE:

-0.500₄ --- --- --



QUANTITY STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG | WINDOW STANDARD "SCHOOL TYPE" GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS. MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH DESCRIPTION DESCRIPTION WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING 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 STANDARD "STANDARD TYPE" GALVANISED MILD STEEL WINDOW FRAME. 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 ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECT'S SPECIFICATIONS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. 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 WINDOW FITTINGS MATCH EXISTING WINDOW FITTINGS (ORIGINAL) MATCH EXISTING WINDOW FITTINGS (ORIGINAL) ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR & IRON MONGERY ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXITING OR SIMILAR 8 MUST BE APPROVED BY THE ARCHITECT **BLOCK EX-T1 WINDOW SCHEDUL** **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 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

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

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.

74: CERAMIC WALL HUNG JURINAL 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 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 2420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow actions to the configuration of the configuration o pillar-tap, with ¼ 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) ic firectay 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. Est H/DUTY BASIN & 1No. TAP (FOR LABS)
eavy 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 plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, chrome plug slotted basin waste, 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)

Wireous 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:

Paper towel dispenser K8 and bin type K3.

 Soap dispenser type K9. • Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

X1: STAINLESS STEEL SINK

Mirror type K2.

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.

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, 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 fooi

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

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

Stainless steel 914 x 90 x 32mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

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

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.

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-

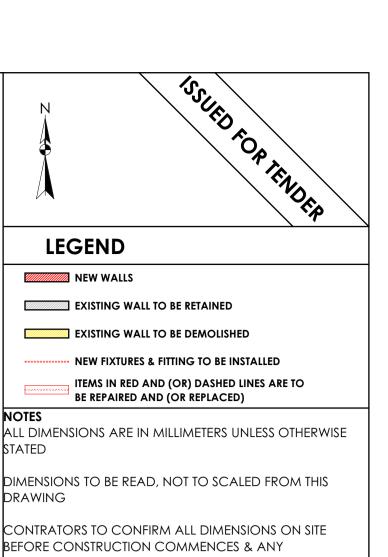
cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets. G6: FLOOR DRAIN

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

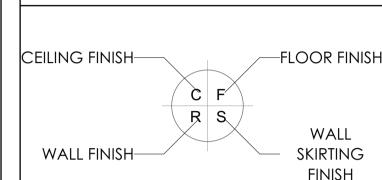
mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclose

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



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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RESTORATIVES, REPAIRS & ADDITIONS **DOCUMENTATION & PROCUREMENT**

ARCHITECTURAL STAGE 04 ARCHITECTURAL

EX-T1 FLOOR | SECTION | SIDES | SCHEDULES N/A AS SHOWN CHECK NOV 2019 A. SINKALA 24750409



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AUTOCAD PROJECT NUMBER

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

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 stric 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.

1 BRICKCOUR

UNDERSIDE OF

U/S OF LINTEL

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 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

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 (locall) 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

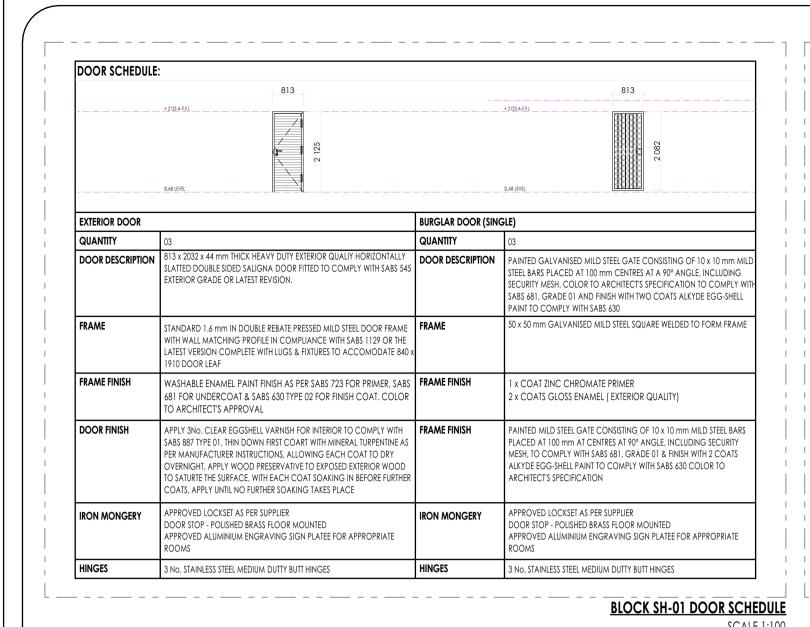
omplying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

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

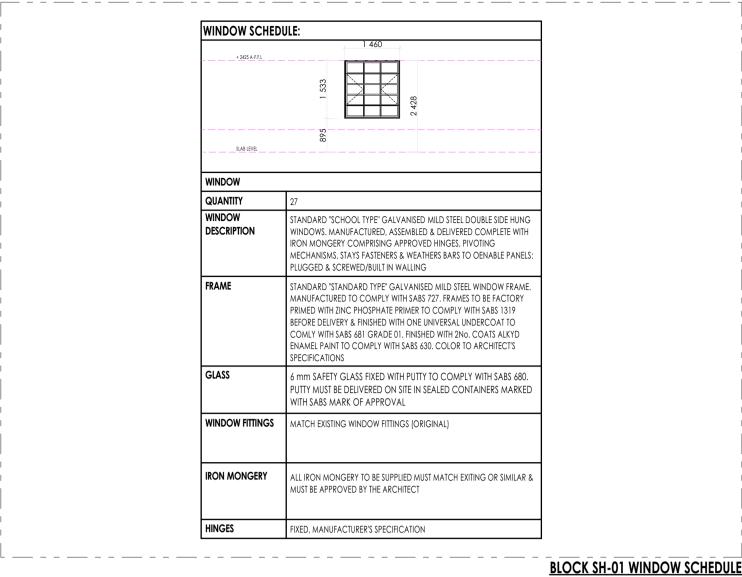
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

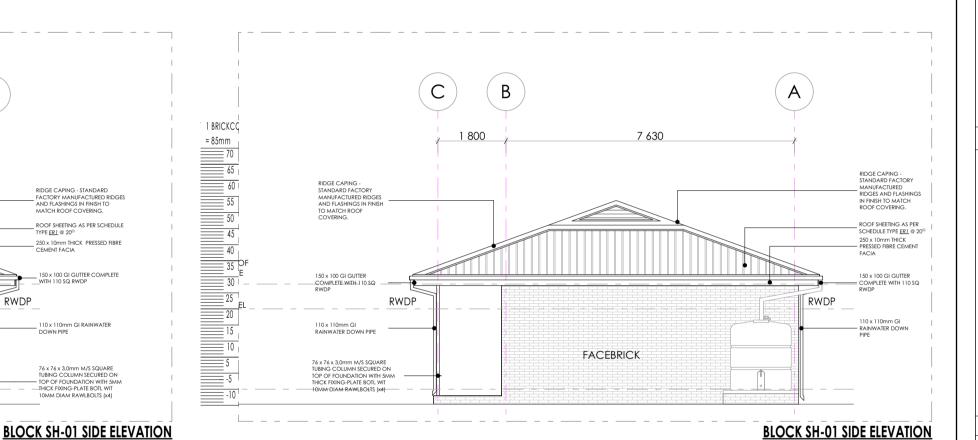
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To

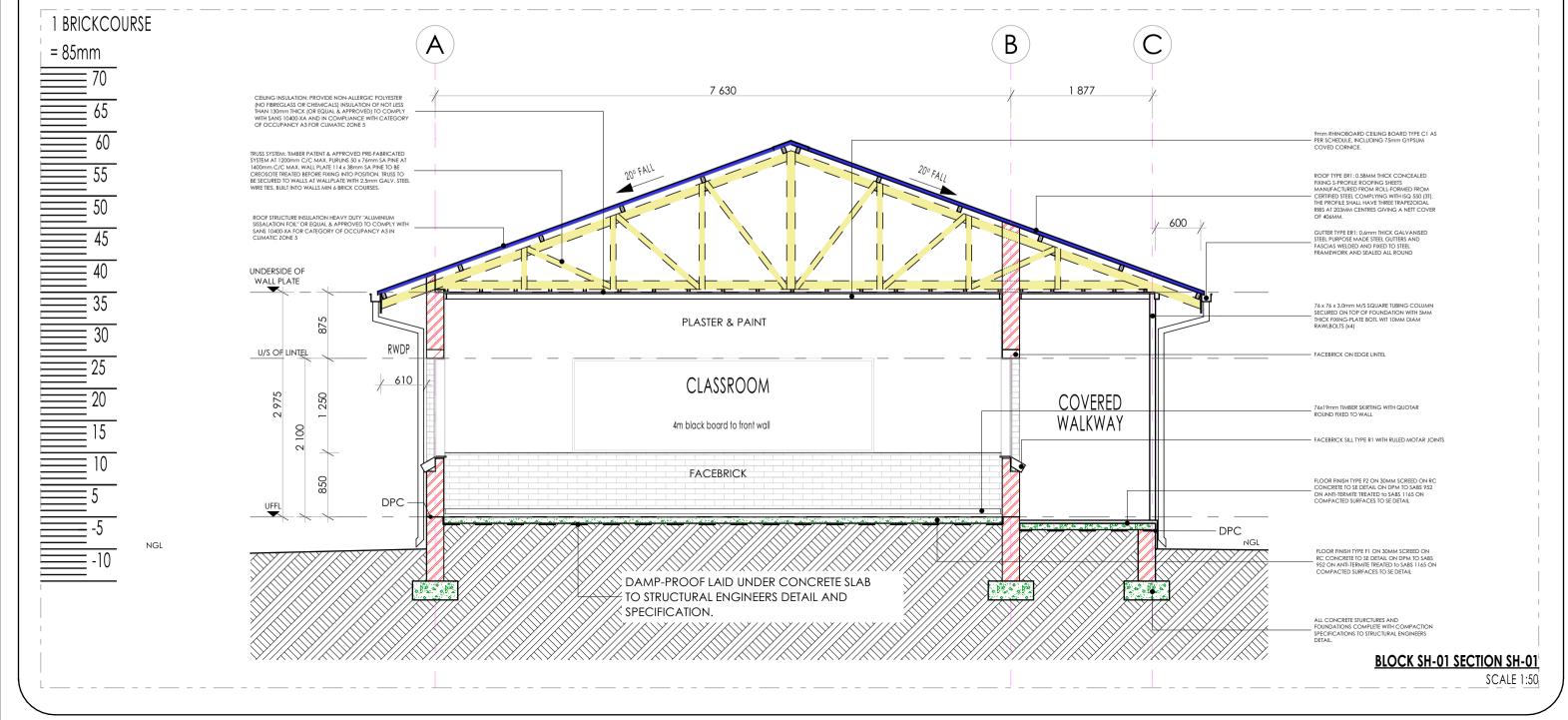
Manufacturer Installation Instructions. Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



FACEBRICK







SCALE 1:100

SANITARY SCHEDULE

WC'S URINALS & SHOWER

Z1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN

Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Ju 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 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

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

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:

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

• 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.

RECOUNTIES BASIN B pillar-tap, with ¼ 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)

mic firectay 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)
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

86: MEDIC BASIN & FITTINGS (SICK BAY)

Wifeous china 310 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow actic pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mn standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to t manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

X1: STAINLESS STEEL SINK

Stainless steel 1000 x 457mm inset 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-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

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

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 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 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 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

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 surrou 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

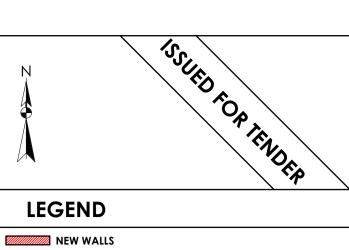
G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual clut mechanism. All runners to be connected by stainless steel links. Tilt mechanism to be operated by a nylon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

accordance with the manufacturer's instructions.

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



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)

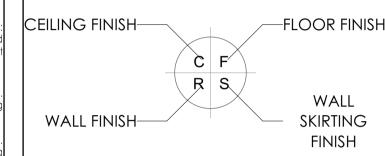
all dimensions are in millimeters unless otherwise

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



		SIC	SNATURE TABLE	
DISCIPLIN	E		SIGN	DATE
CLIENT				
PLAN EXA	MINER			
FIRE CONT	TROL			
ENVIRON/	MENTAL			
ROADS S	STORMWATE	R		
WATER & S	ANITATION			
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			DEPARTMENT OF	



MATIMU SECONDARY - 915 540 218 RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL

3 CLASSROOM BLOCK

SECTIONS | SIDE ELEVATION | SCHEDULES

DRG No. G09-301-03 AS SHOWN T.M CHECK

NOV 2019 A. SINKALA 24750409

CONSULTANT **TECTURA PROJECTS**

www.tecturail.com LSO IN NAIROBI, KENYA AND GABORONE, BOTSWAN,

CONTRACTOR

AUTOCAD PROJECT NUMBER LDPW - PROF/16002/G09

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

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

F2: PORCELAIN TILES -MATT

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

F3: CARPET TILES 500mm x 500mm , 100% PFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54324 on wira test and ISO body test at less than 2Kv at 25% RH on static electricity. Colour and pattern to architects approval.

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 68

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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire 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

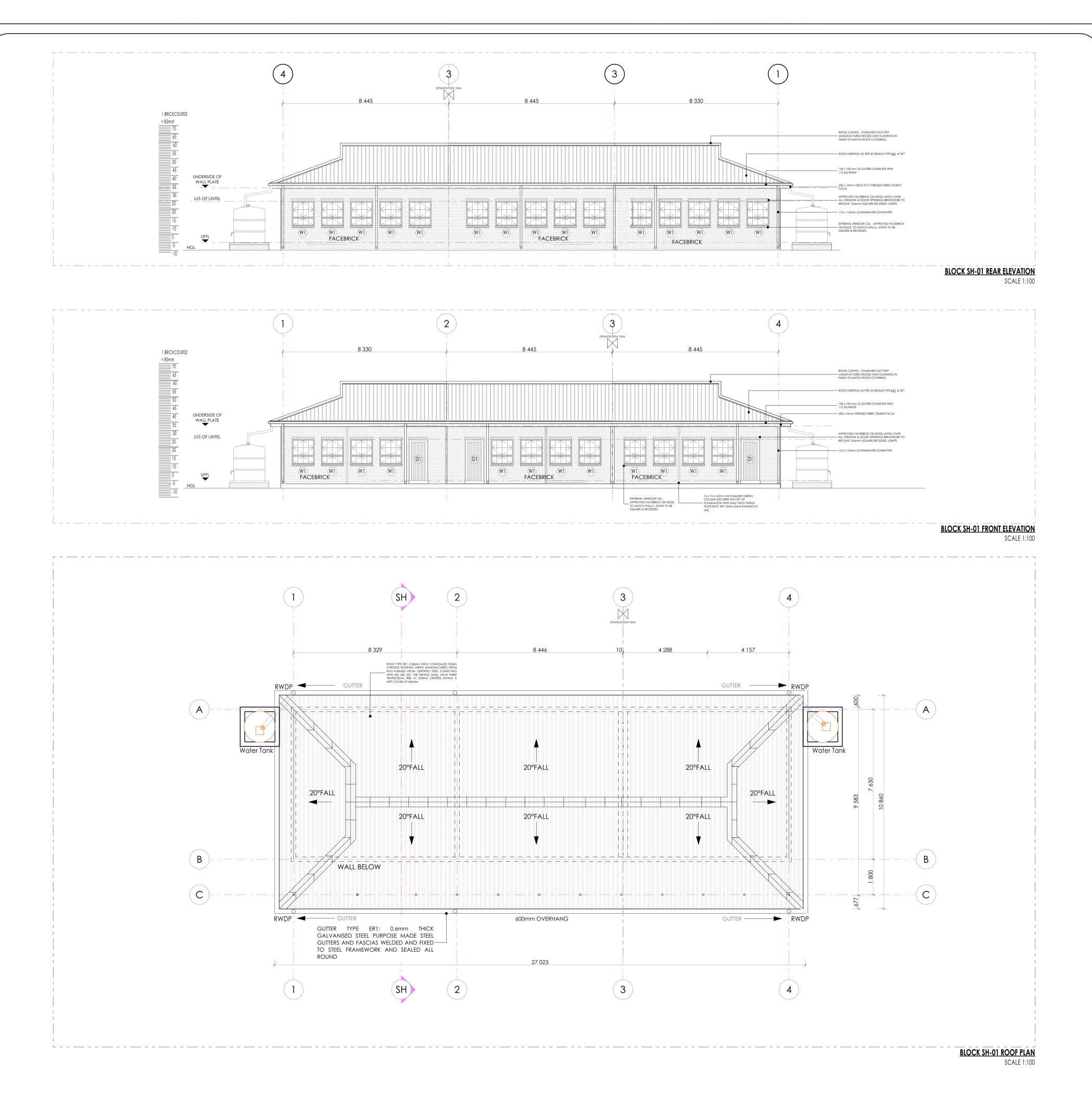
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

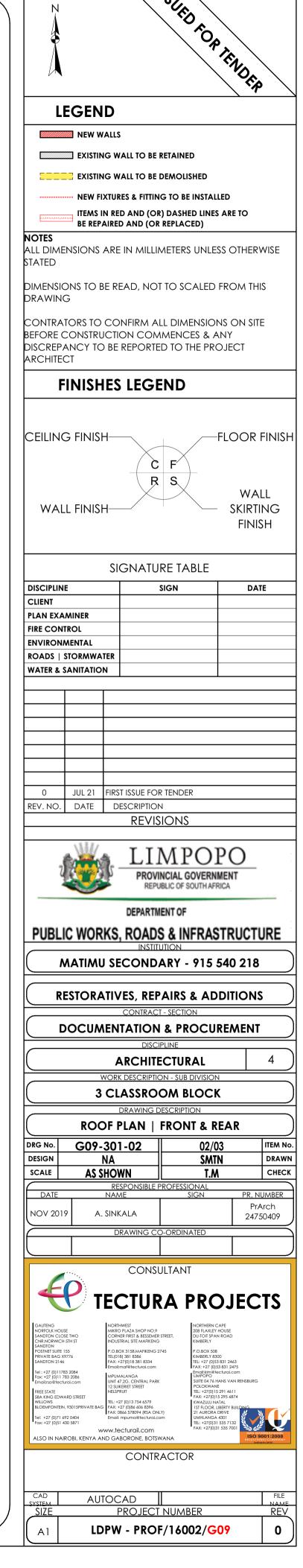
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm 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 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-taping screws To Manufacturer Installation Instructions.

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





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 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.

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.

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 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 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED

Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1586 approved on 6mm thick light

weight hemi-hydrate gypsum plaster on concrete slab soffit. **ROOF COVERING AND INSULATION:**

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

 $\underline{\textbf{Roofing Sheets:}}\ 0.58 \text{mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel}$

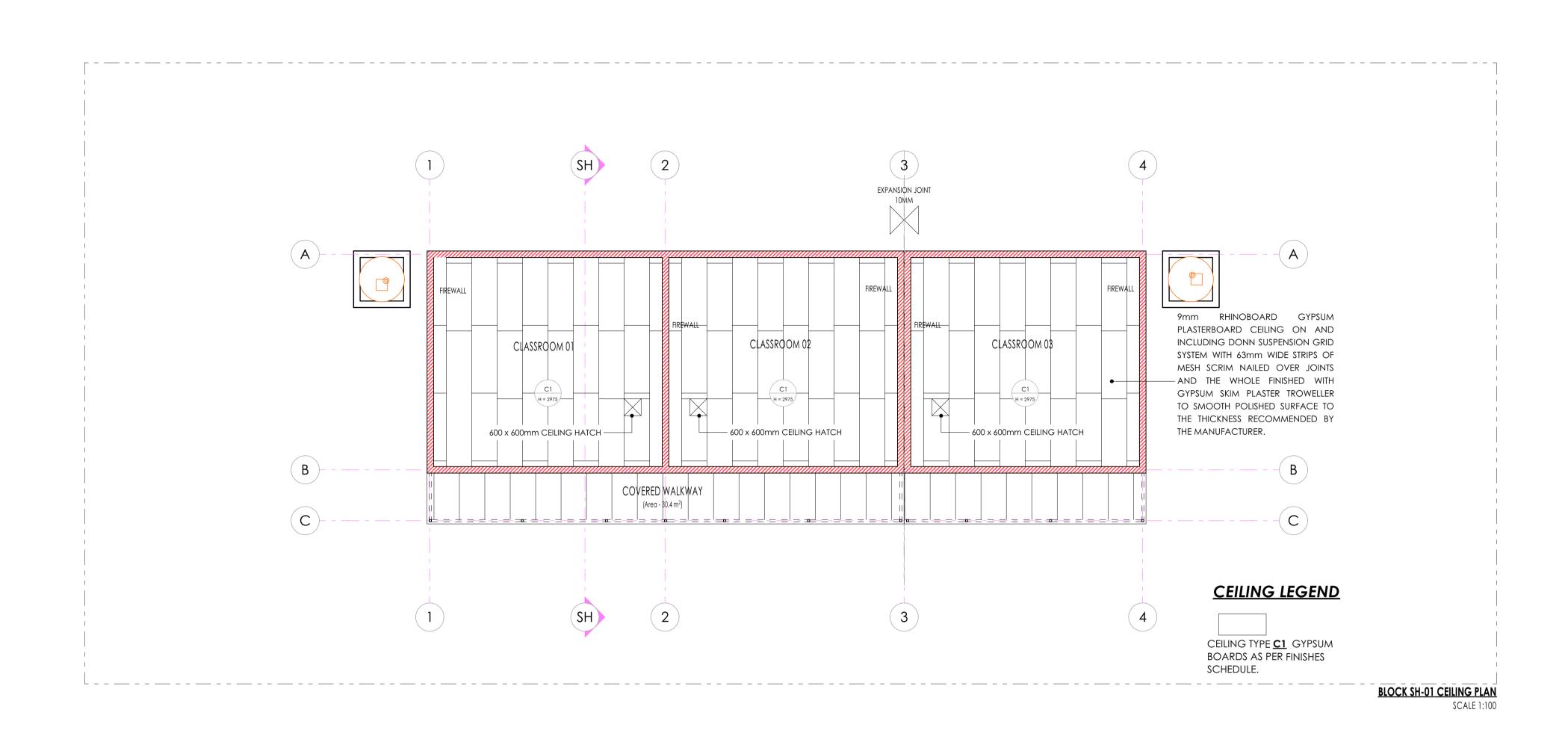
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

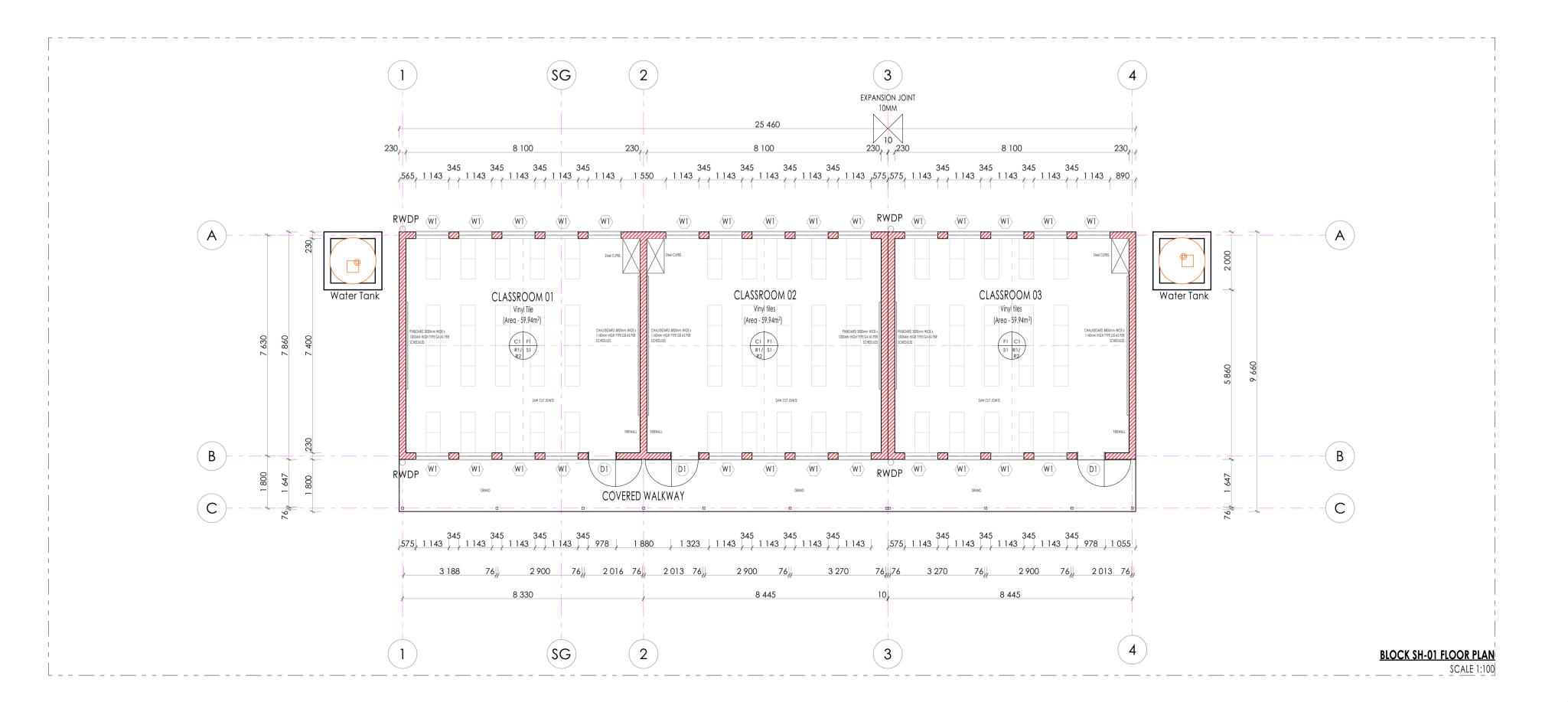
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

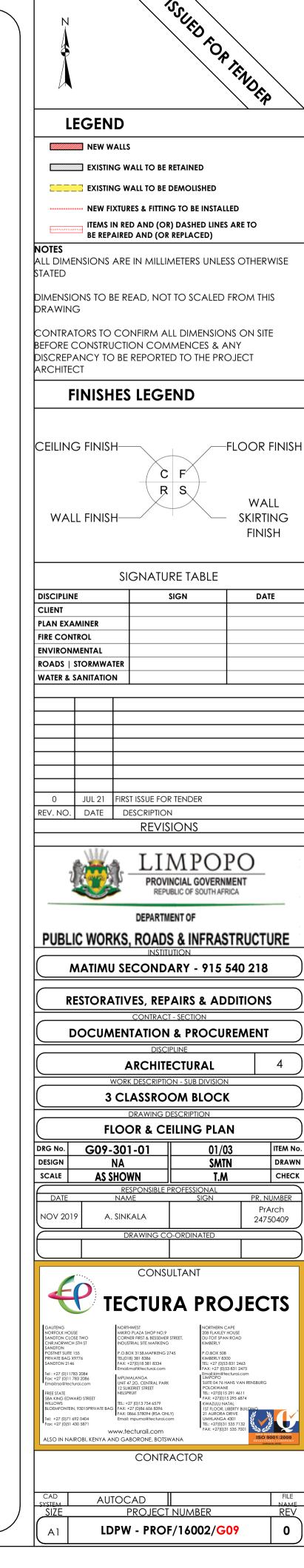
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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 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.







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

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.

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.

"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.

S1: HARDWOOD OR EQUAL AND APPROVED

600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

S3: CEMENT SAND SCREED

75 mm high x 20 mm thick hardened cement sand screed skirting coved at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

WALL FINISHES: R1: FACE BRICK

FBX face brick in common running bond to comply with SABS 227 and forming part of the structural work.

R2: EMULSION (PVA) PAINT - FULL HEIGHT

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 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

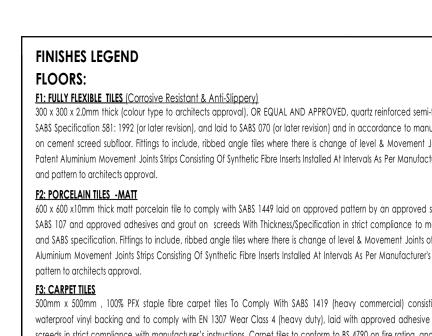
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

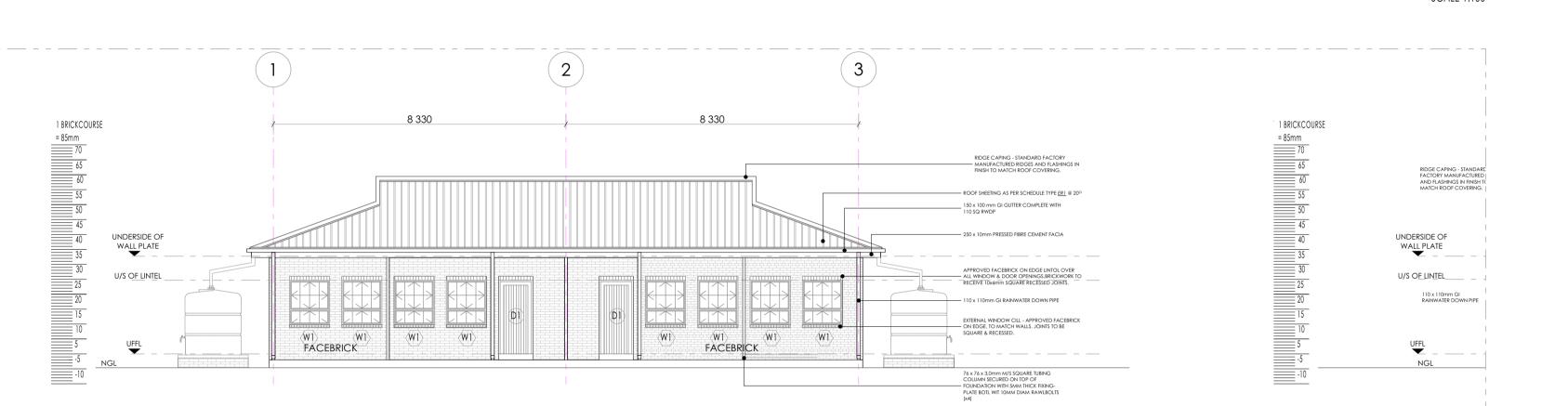
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisulation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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





8 330

FACEBRICK

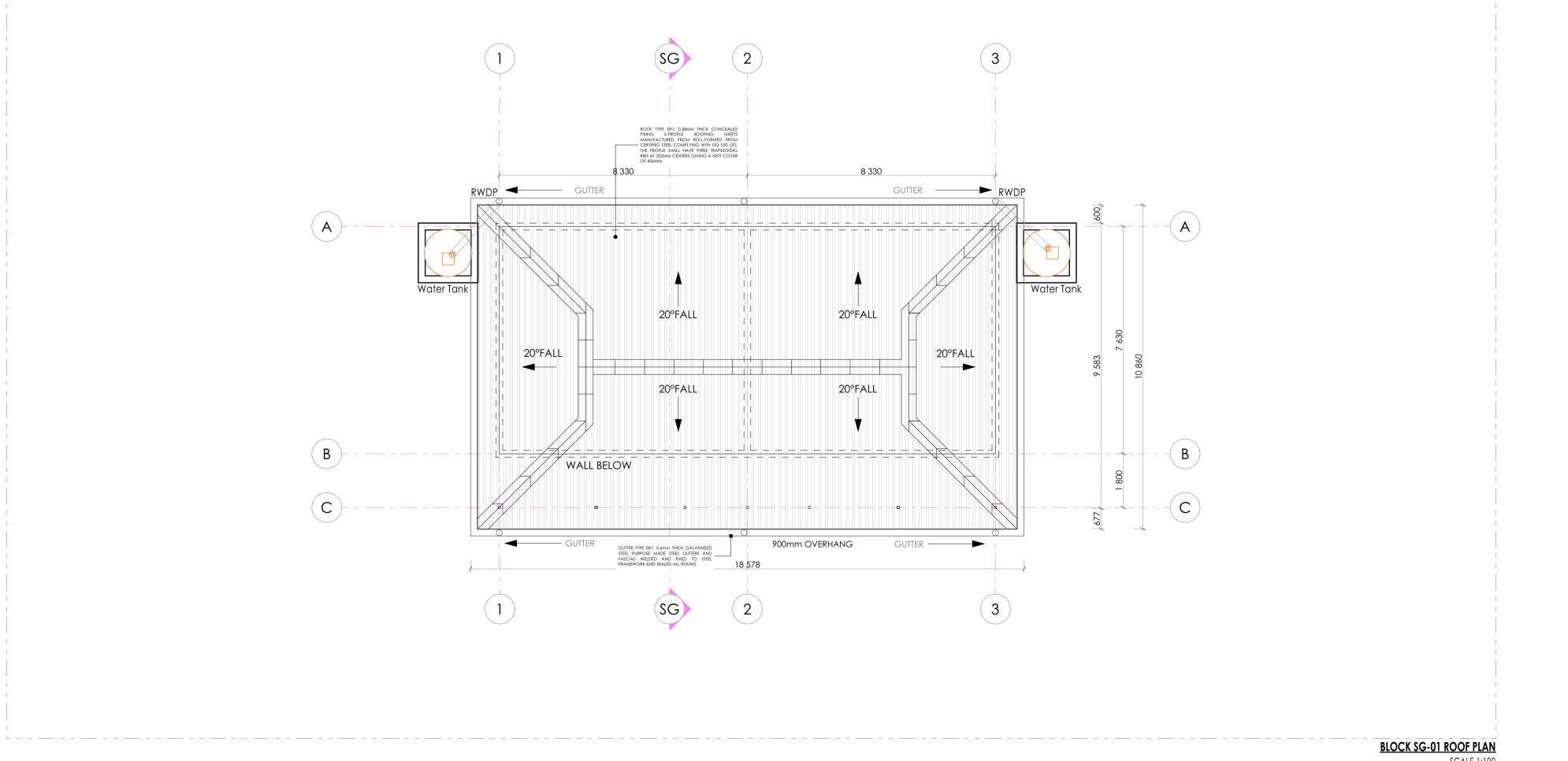
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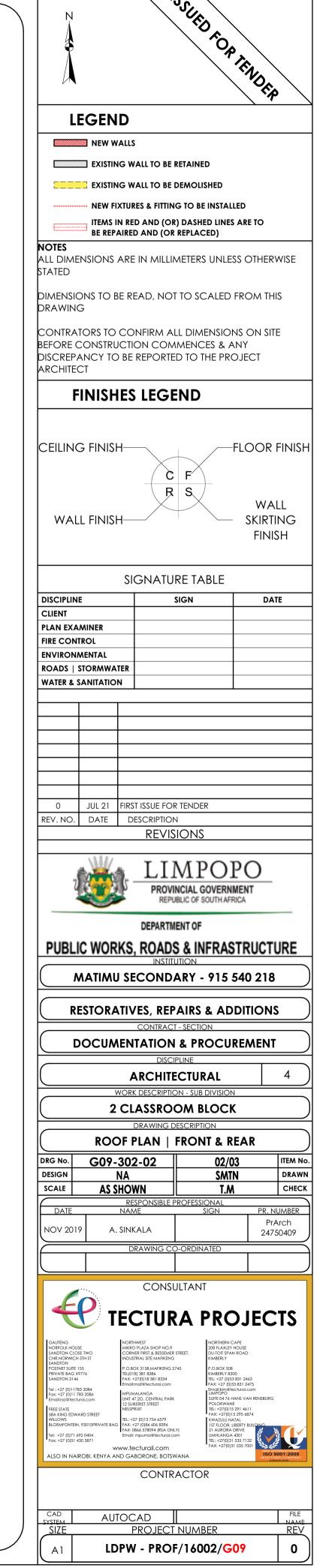
FACEBRICK

1 BRICKCOURSE

UNDERSIDE OF

WALL PLATE





U/S OF LINTEL

BLOCK SG-01 REAR ELEVATION

BLOCK SG-01 FRONT ELEVATION

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

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

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

WALL FINISHES:

floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

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 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:

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

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

 $\underline{\textbf{Roofing Sheets:}}\ 0.58 \text{mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel}$

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

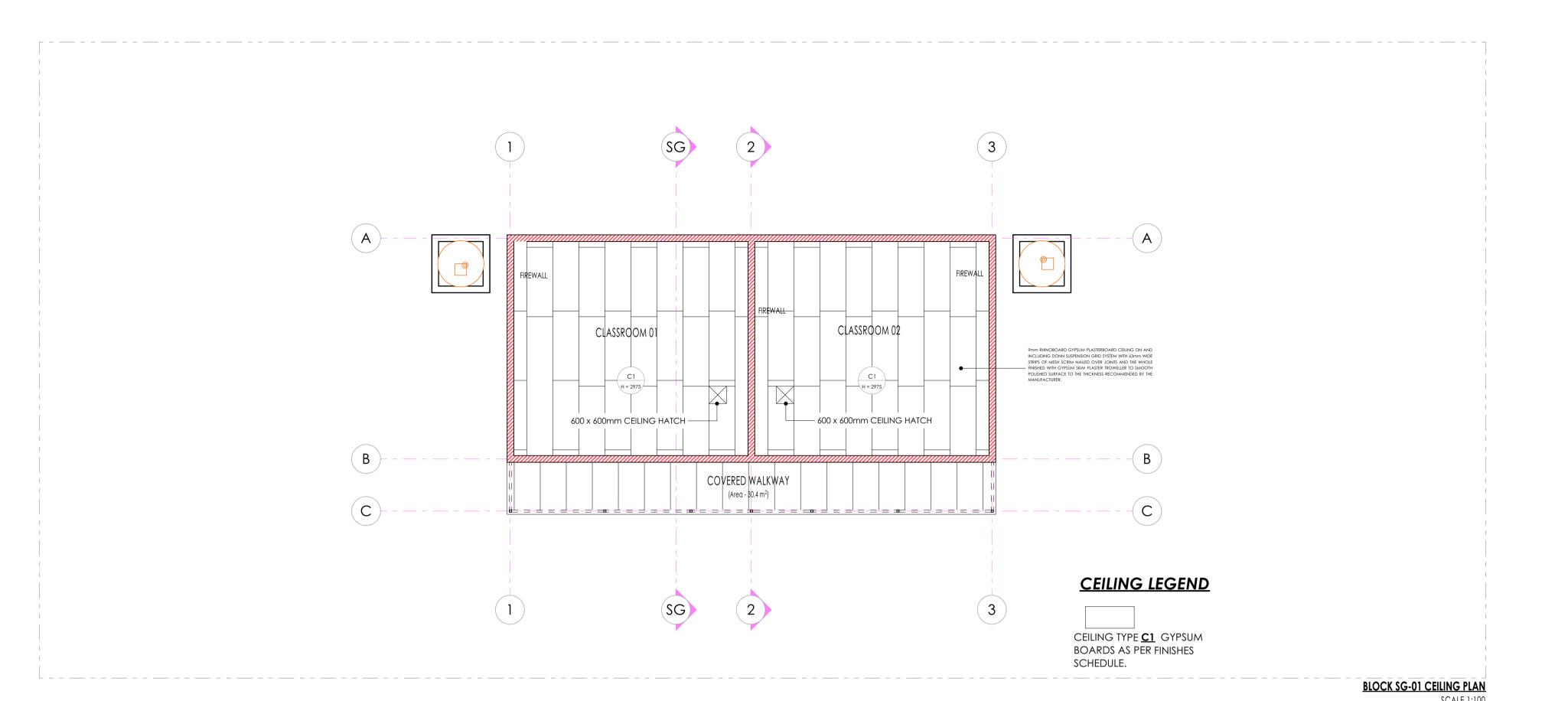
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

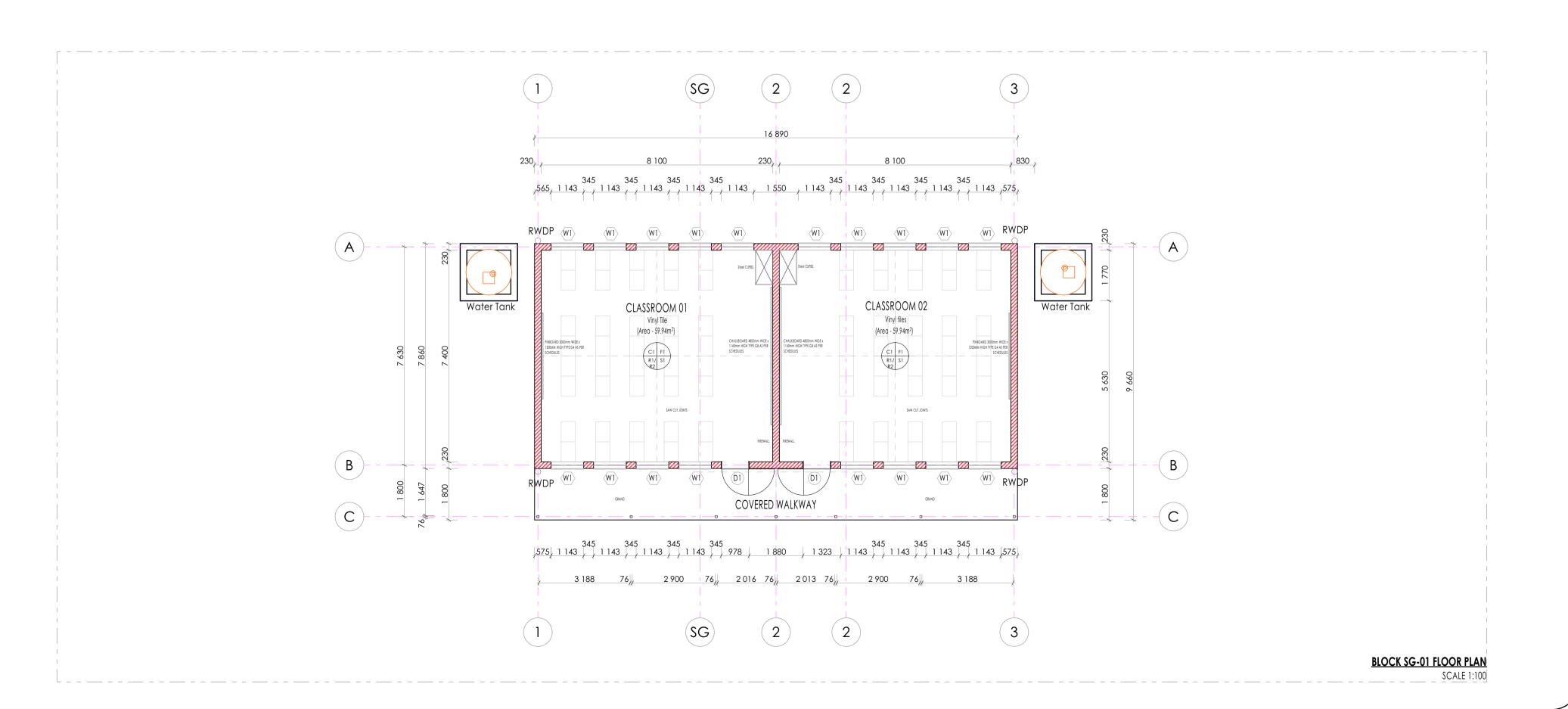
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 7275 Galvanising To

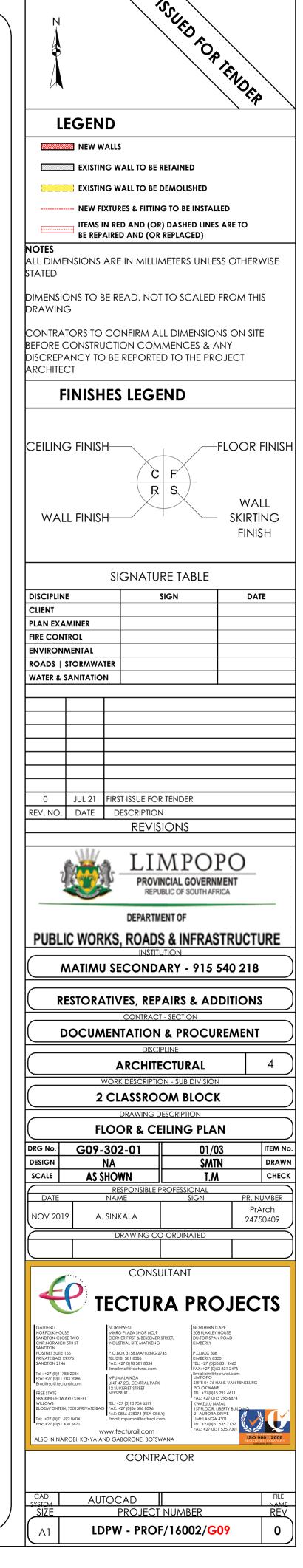
Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Downpipe: 110 x110 x 0.6mm Thick Commercial Grade Galvanised Steel Sheet With Class Z275 Galvanising To Comply With SABS 934 or

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.

and pattern to architects approval.







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 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.

ROOFING SHEETS MANUFACTURED FROM ROLL-FORMED FROM

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 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 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 tructural 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 ligh 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

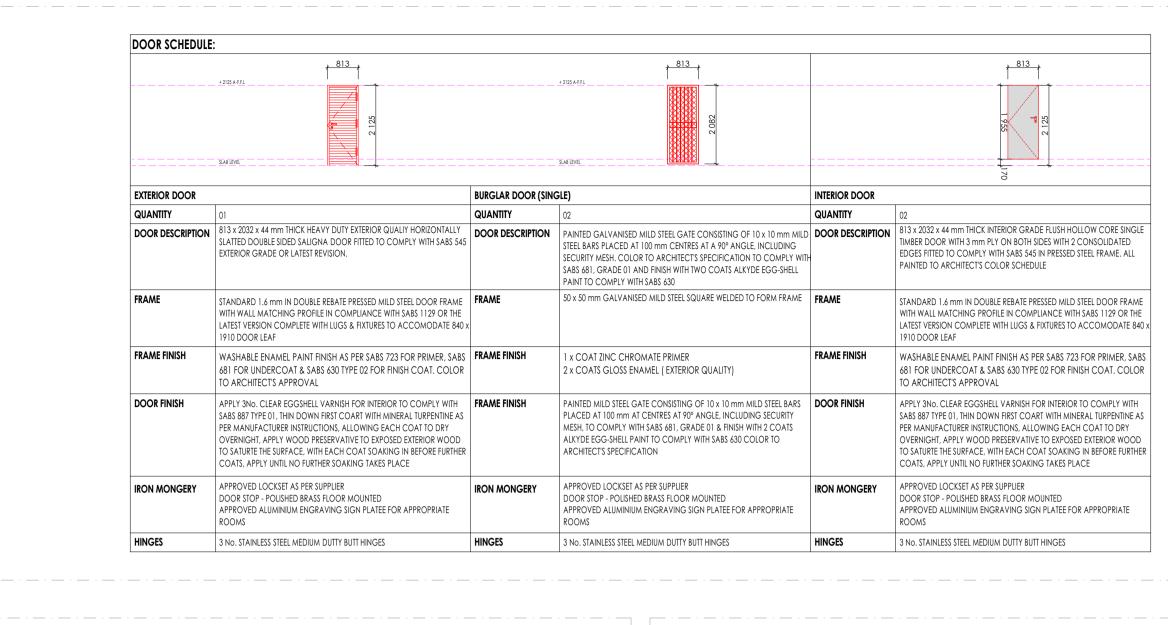
omplying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall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

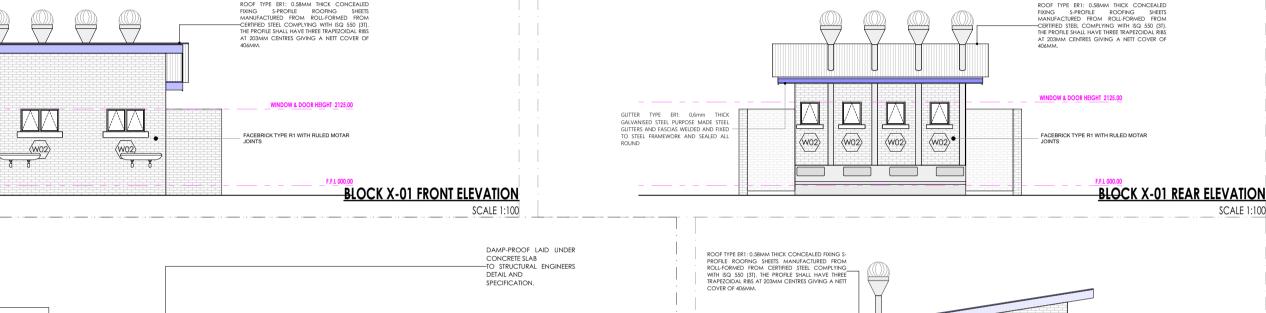
Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed AND 2: where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm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

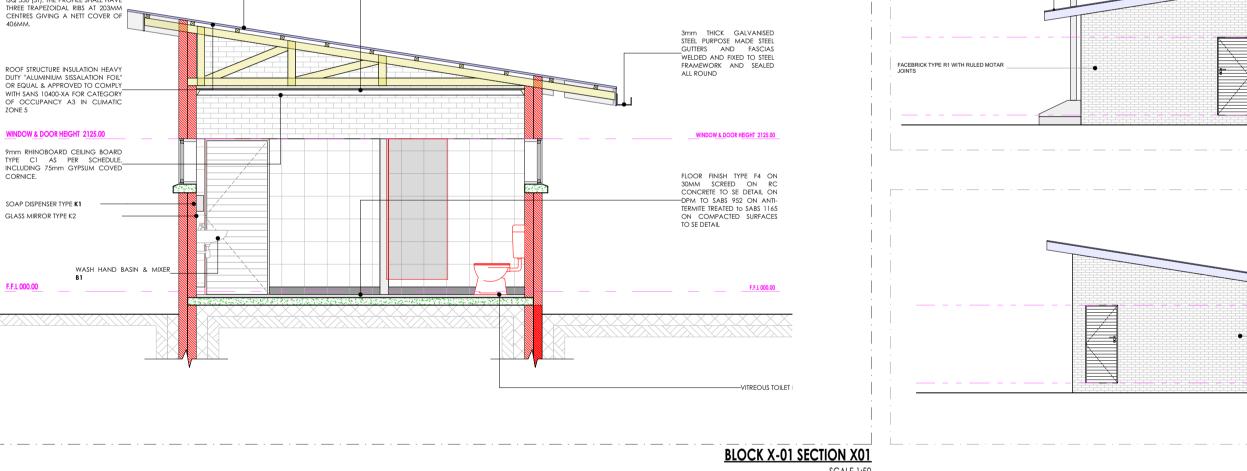
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class 2275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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.

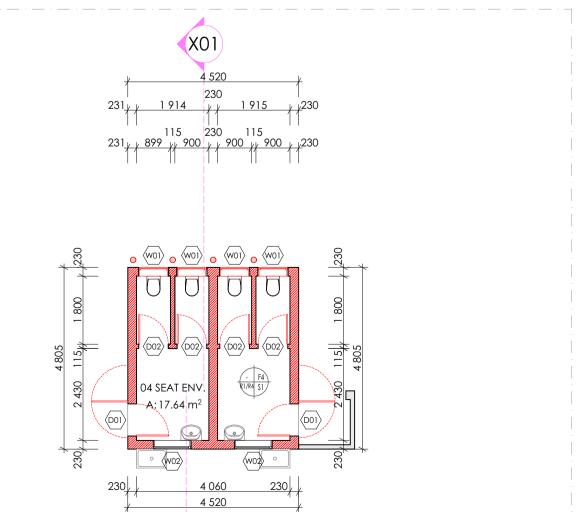






BLOCK X-01 FLOOR PLAN

SCALE 1:100



WINDOW SCHEDULE: W02 WINDOW 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. GLASS 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. 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

/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 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.

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

BLOCK X-01 DOOR SCHEDULE

BLOCK X-01 SIDE ELEVATION

BLOCK X-01 SIDE ELEVATION

BLOCK X-01 WINDOW SCHEDULE

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 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) 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 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

86: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 310 X 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule

and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

X1: STAINLESS STEEL SINK

Stainless steel 1000 x 457mm inset 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, 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, 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, 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

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.

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. 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.

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 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 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.

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 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

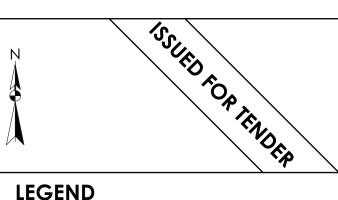
mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level G5: WINDOW NORMAL BLINDS(vertical fabric) 27 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners o be wheeled and fitted with individual 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

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 wil ntegral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly 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)

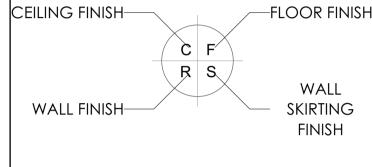
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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

FINISHES LEGEND

ARCHITECT



		SI	GNATURE TABLE	
DISCIPLIN	E		SIGN	DATE
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MATIMU SECONDARY - 915 540 218

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT ARCHITECTURAL

STAGE 04 ARCHITECTURAL

DRG No. G09-306-01 **SMTN** AS SHOWN T.M CHECK NOV 2019 A. SINKALA 24750409

BLOCK X01 | PLANS | ELEVATIONS | SECTIONS

CONSULTANT **TECTURA PROJECTS**



www.tecturail.com LSO IN NAIROBI, KENYA AND GABORONE, BOTSWAN, CONTRACTOR

AUTOCAD PROJECT NUMBER LDPW - PROF/16002/G09

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

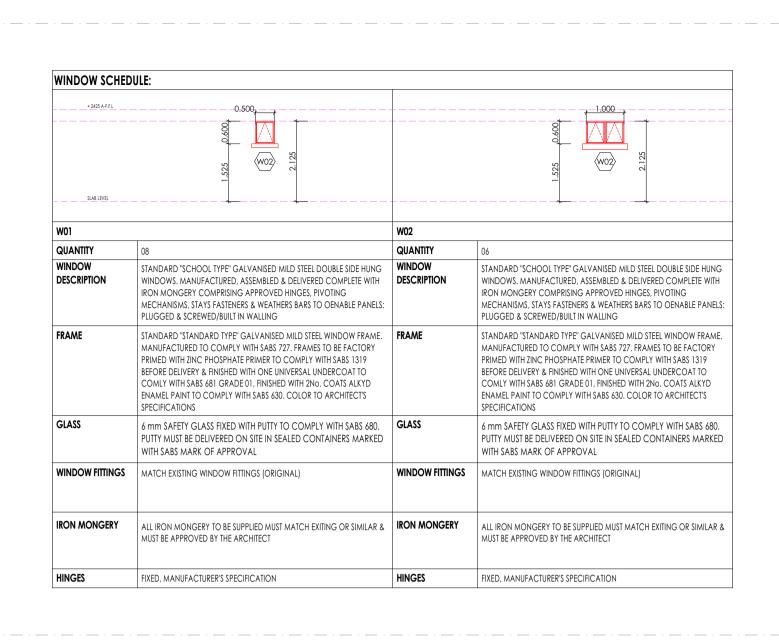
complying with ISQ 550 (31). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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 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 $80 \text{kg/m} \tilde{N}$ and finished with white metalized foil

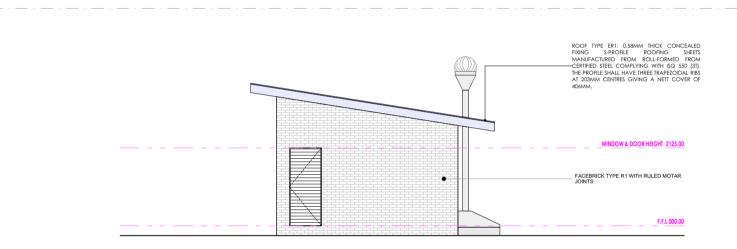
Galvanised Steel (GI) Gutter: 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanising To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

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

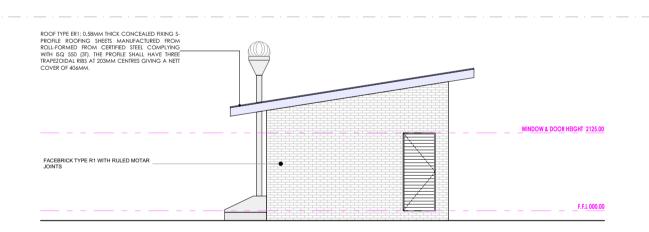
Fascia board: 250 x 10 mm Fibre- Cement Fascia/Barge Board, Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



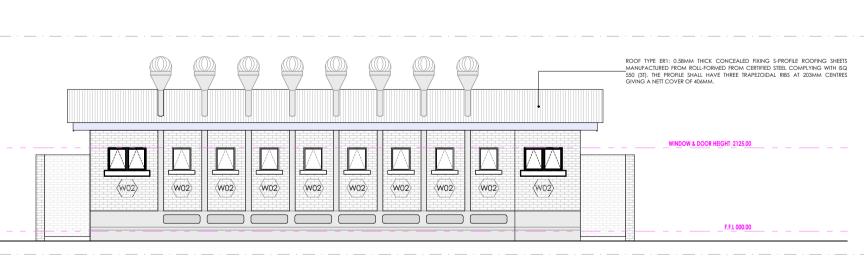
BLOCK Z-01 WINDOW SCHEDULE



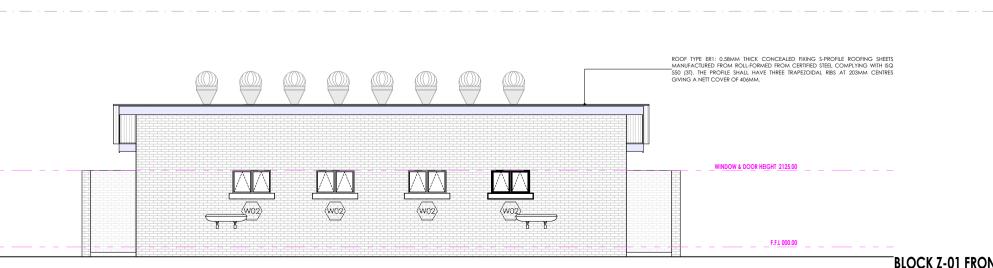
BLOCK Z-01 SIDE ELEVATION



BLOCK Z-01 SIDE ELEVATION



BLOCK Z-01 REAR ELEVATION



BLOCK Z-01 FRONT 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 WALLHUNG 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 asin 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)
Let a min fire cay 300 x 405 min 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

86: MEDIC BASIN & FITTINGS (SICK BAY)
Vitreous china 310 X 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with; 2 No.chrome plated Elbow action pillar-tap, with . turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications. Combination of sanitaryware, accessories and general fittings comprising of:

Paper towel dispenser K8 and bin type K3.

• Splashback comprising 2no. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

X1: STAINLESS STEEL SINK

Stainless steel 1000 x 457mm inset 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, 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, 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, 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

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.

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 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. K4: SANITARY BIN (PLASTIC)
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liners per pack Complete with all necessary accessories and installed in accordance to

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.

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.

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

820mm Wide x 220mm High x 90mm High Aluminium Multi-rack Hat and Coat Hook in multi-track two Hooks Configuration With Anodised Silver Finish Comple 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

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 \$C0400 Keystone Brackets Adjustable Set of 2, size 300mm. To 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 surrou mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

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

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

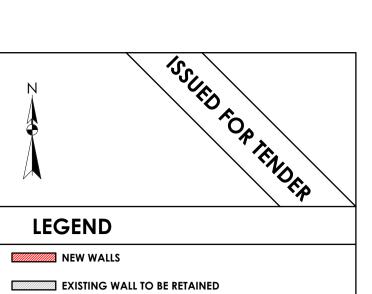
G6: FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre bolt, , including connections to downpipes.

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 file surface over the 20mm expansic joints, in accordance to the manufacturer's specifications. G8: CHALKBOARDS- GREEN SURFACE COLOUR

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



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

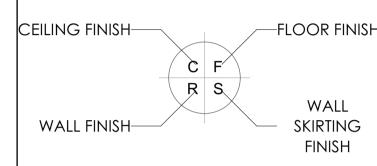
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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

FINISHES LEGEND

DISCREPANCY TO BE REPORTED TO THE PROJECT

ARCHITECT



FIRE CONTROL ENVIRONMENTAL ROADS STORMWATER WATER & SANITATION	DATE
PLAN EXAMINER FIRE CONTROL ENVIRONMENTAL ROADS STORMWATER WATER & SANITATION	
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FODEIO WORKO, ROADO & INI RAOTROCTORE **MATIMU SECONDARY - 915 540 218** RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL STAGE 04 ARCHITECTURAL

DRAWING DESCRIPTION Z-01 ELEVBAJKOOKISK | 2009 SCHEDULE

G007-400210202 **SMTN** AS SHOWN T.M CHECK NOV 2019 A. SINKALA 24750409

CONSULTANT TECTURA PROJECTS

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

CONTRACTOR

AUTOCAD LDPW - PROF/16002/G09

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

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 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 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 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 manufactured and installed in strict compliance SABS 22 Standard.

CEILING AND CORNICE:

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

"GypCeil Classic" gypsum plasterboard ceilingor EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing) fixed to timber brandering installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply . Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C2: FIBRE CEMENT BOARDS (H-JOINTED)

6.4mm thick GypCeil Prestige S" fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospecifier listing, non-combustible to SANS 10177-5) fixed to EX 38mm x 50mm timber brandering installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.

C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED

200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, Z150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire 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 ligh

weight hemi-hydrate gypsum plaster on concrete slab soffit. **ROOF COVERING AND INSULATION:**

ER1: EMBOSSED ROOFING SHEET (TWO SIDES)

Manufacturer Installation Instructions.

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

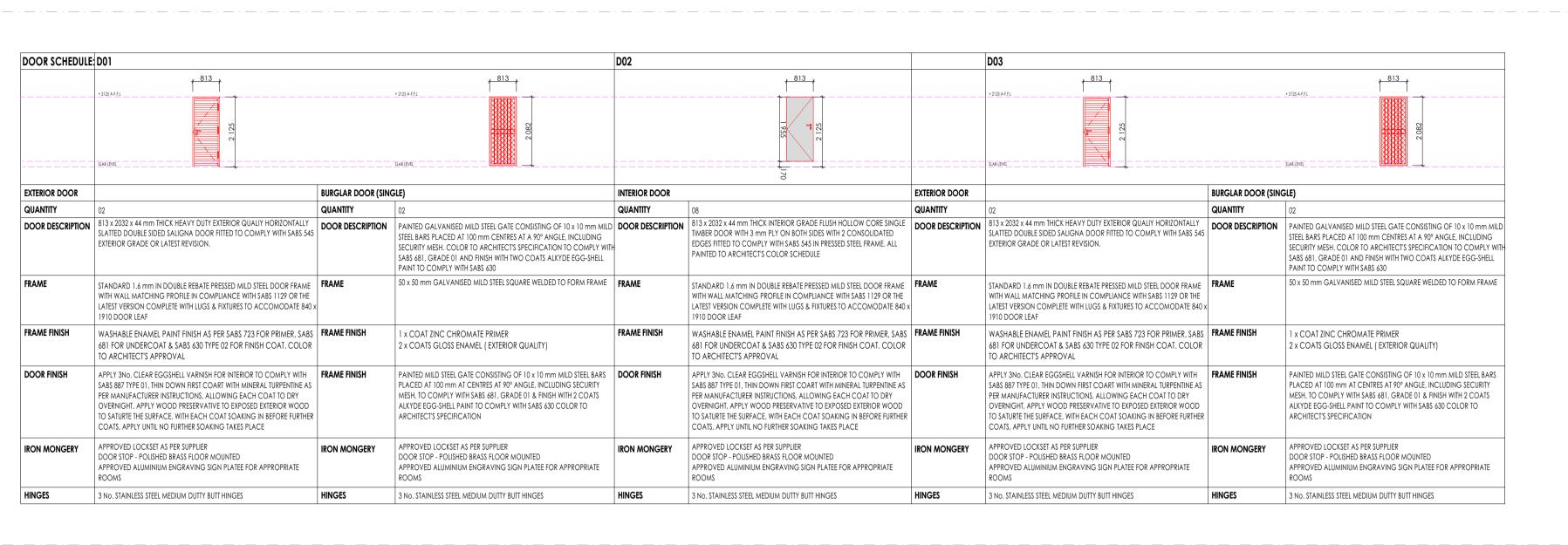
complying with ISQ 550 (3T). The profile shall have three trapezoidal ribs at 203mm centers giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs at 283mm centers to ensure a positive double interlocking action at side-laps. Each pan shall 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 Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into

Insulation: SHALL EITHER BE: 1: where there are acoustic ceilings susspeded board, a heavy duty "Aluminium sisalation foil" shall be installed

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

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

