

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

CONTRACT No. LDPWRI-B/20294



BID NUMBER: LDPWRI-B/20294

APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 17 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE 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

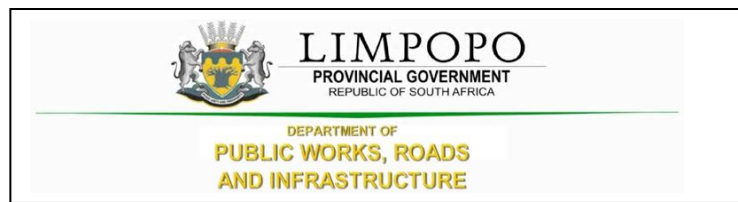
Contact Person: General Queries

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

Technical: Technical Queries

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

Name of the Bidder :



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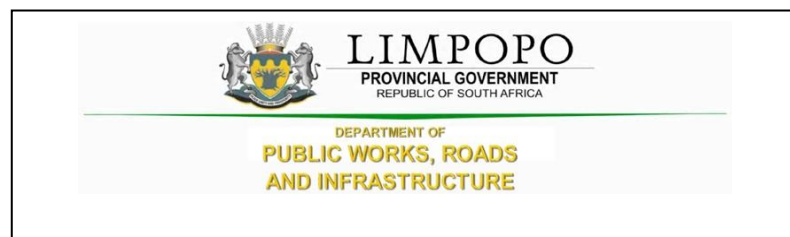
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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

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PART T1: TENDERING PROCEDURE

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA
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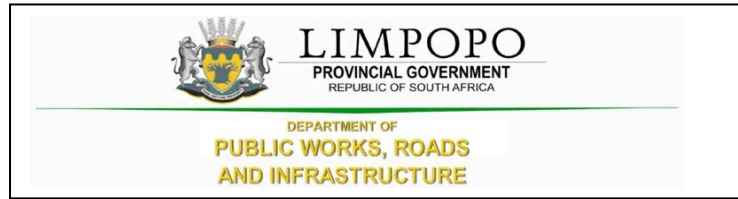
CONTRACT No. LDPWRI-B/20294

T1.1 Tender Notice and Invitation to Tender

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on category A for **APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 17 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE)** for a period of 20 months. It is estimated that tenderers must have a CIDB contractor grading designation of **7 GB** or higher.

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

Project Name	APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF 03 CLASSROOM BLOCK, REFURBISHMENT OF 17 CLASSROOMS, 32 ENVIROLOOS, MEDIUM ADMINISTRATION BLOCK AND STAFF BLOCK AND CONSTRUCTION OF NUTRITION CENTRE INCLUDING ALL RELATED EXTERNAL WORKS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 20 MONTHS.	
Tender Number	LDPWRI- B/20294	
Tender documents availability	Limpopo Department of Public Works, Roads and Infrastructure website	
Address for submission of tenders	DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE. Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.	
Closing date of the tender	As per Tender invite	
Closing time of the tender	As per Tender invite	
Compulsory briefing meeting (<i>Tenderers must sign the attendance register in the name of the tendering entity. Addenda (if any) will be issued only to those tendering entities appearing on the attendance register</i>)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	Meeting venue	As per Tender invite
	Date	As per Tender invite
	Time:	As per Tender invite
Evaluation criteria	<ol style="list-style-type: none"> 1. Compliance with mandatory or compulsory requirements 2. Risk assessment on current projects 3. Price 4. Preference 	
Mandatory or Compulsory Requirements (<i>failure to submit or comply with these requirements will lead to automatic disqualification</i>)	Only tenderers who are appointed on category A registered with the Construction Industry Development Board (CIDB) with designation of 7 GB or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations are eligible to have their tenders evaluated	
	Priced Bills of Quantities	
	SBD 1.	
	Declaration on the status of Administration compliance.	
	Completed and signed Form of Offer	



T1.2 Tender Data

Clause number	Tender Data
	<p>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.</p> <p>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.</p> <p>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. In this case, contractor shall provide a minimum Contract Participation Goal (CPG) of 5% of the total project value and develop targeted enterprises stated under C3 of this document.</p> <p>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:</p>
C.1.1	The Employer is the Department of Public Works, Roads and Infrastructure

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C.1.2	<p>The Tender Part T1: Tendering procedures T1.1 Tender notice and invitation to tender T1.2 Tender data</p> <p>Part T2: Returnable documents T2.1 List of returnable documents T2.2 Returnable schedules</p> <p>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)</p> <p>The Contract Part C2: Pricing data C2.1 Pricing instructions C2.2 Bills of Quantities</p> <p>Part 3: Scope of work C3.1 Special Notes to Bidders C3.2 OHS Specifications</p> <p>Part 4: Site information C4 Drawings</p>
C.1.4	<p>The employer's representative is:</p> <p>Name : Mr K Modjadji Tel No. : 083 673 5436 Email : ModjadjiM@dpw.limpopo.gov.za</p> <p>However, all communications related to this bid should be directed to the persons indicated under Enquires on this tender document.</p> <p>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.</p>
C.1.5	<p>The employer reserve to cancel the tender prior to the award of the tender.</p>
C1.6.2	<p>A competitive negotiation procedure will not be followed.</p>
C1.6.3	<p>A two-stage system will not be followed.</p>
C.2.1	<p>Eligibility in respect of CIDB grading</p> <p>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.</p>
C2.2	<p>Cost of tendering</p> <p>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.</p>

C.2.7	<p>Compulsory site briefing</p> <p>A compulsory briefing meeting will be held as per Tender invite</p> <p>Failure to attend the site briefing will result in the bidders not being considered for the project</p> <p>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.</p>
C.2.11	<p>Alterations to the documents</p> <p>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</p>
C.2.12	<p>Alternative tender offer</p> <p>No alternative tender offer is permitted in this tender.</p>
C.2.13.2	<p>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)</p>
C.2.13.3	<p>Parts of each tender offer communicated on paper shall be submitted as an original</p>
C.2.13.4	<p>The tender shall be signed by a person duly authorized to do so.</p>
C.2.13.5	<p>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:</p> <p>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.</p>
C.2.15.1	<p>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.</p>
C.2.16.1	<p>The tender offer validity period is 12 weeks or 90 days.</p>
C.2.16.2	<p>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).</p>
C.3.1	<p>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:</p> <ul style="list-style-type: none"> - 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

	<p>CIDB Grading Certificate</p> <p>Tenders are required to provide proof of registration with the CIDB register of contractors indicating the category of registration, grading as well as the CRS number of the tenderer.</p> <p>Letter of Good Standing</p> <p>Tenderer's are required to submit, bound with the tender submission, a letter of good standing from the compensation commissioner indicating that the bidder is in good standing.</p>
C3.2	<p>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.</p>
C.3.4.1	<p>Tenders will not be opened immediately after the closing time for tenders.</p>
C.3.11	<p>The tenderers will be evaluated in four stages</p> <ul style="list-style-type: none"> (i) Stage 1: Compliance with mandatory requirements as stated in Part T1.1 (ii) Stage 2: Risk assessment on current projects (iii) Stage 3: Price (iv) Stage 4: Preference <p>The technical capacity (functionality) of the contractors will not be evaluated any further during evaluation of the RFQ. However, the contractors will be required to declare the status of their key staff and any administrative compliance. In cases where there are changes in the key staff, the contractor should provide CVs and qualifications of the new staff to LDPWR&I. The new staff should have similar skills, qualifications and experience as the staff submitted during tender. Similarly, the contractors will be expected to provide an update on any changes in their administrative compliances – and should submit the required SBD document/forms in such cases.</p> <p>The award will only be issued to contractors with valid Tax Clearance certificates, active CIDB grading and the contractor who meets all the legislative requirement – this shall be verified by SCM in line with the departmental SCM Policy.</p> <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade.¹</p> <ul style="list-style-type: none"> 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 <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade.</p>

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:

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

Where:

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

P is the points awarded to the bid under consideration

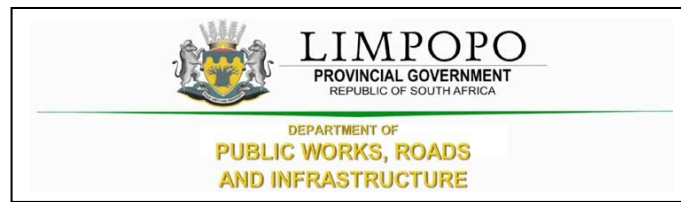
P_m is the lowest Comparative bid price

P_o is the comparative price under consideration

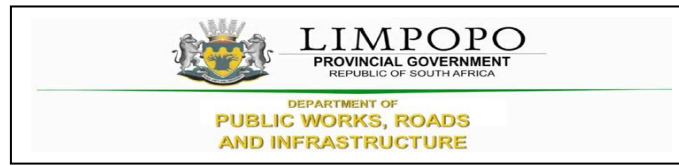
- b) N_P is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

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PART T2: RETURNABLE DOCUMENTS



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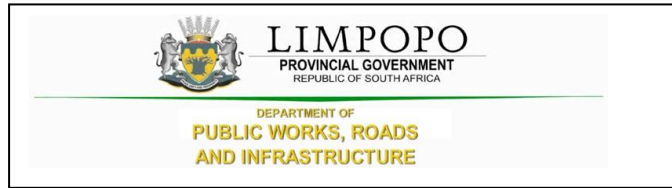
Failure by the service provider to submit or complete item 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, and 2.7 will render their proposal not responsive and will not be considered.

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

C -- SPECIAL NOTES TO BIDDERS AND DEPARTMENTAL RIGHTS

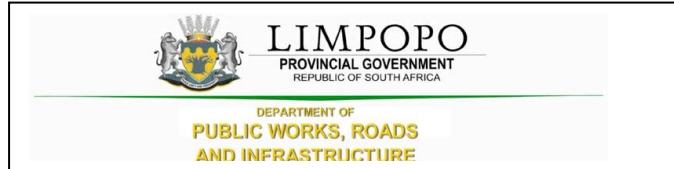
The following special conditions are for compliance and attention to bidders:

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



Declaration on the status of administrative compliance

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

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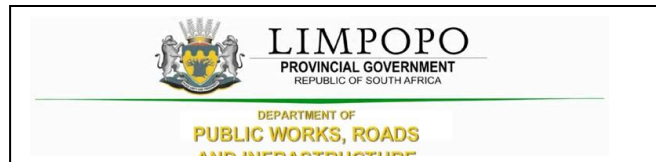
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Signed Date _____

Name Position _____

Enterprise
.....



Record of Addenda to tender documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:		
	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA
MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

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Attach additional pages if more space is required.

Signed Date

Name Position

Tenderer



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.

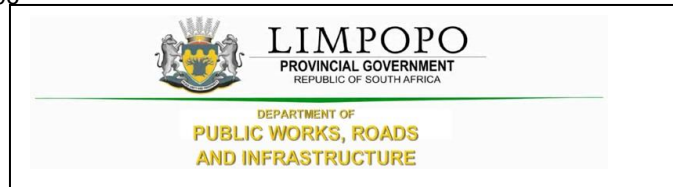
The Tenderer's attention is drawn to clause 5.8 of SANS 10845-3 regarding the employer's handling of material deviations and qualifications.

Page	Clause or item	Proposal

Signed _____ Date _____

Name _____ Position _____

Tenderer _____

**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/20294	CLOSING DATE	As per Tender Advert	CLOSING TIME:	As per Tender Advert
DESCRIPTION	DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.					
Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO					
CONTACT PERSON	Mr. NJ Motsopye				
TELEPHONE NUMBER	0152847126	E-MAIL ADDRESS	motsopyen@dpw.limpopo.gov.za		
CONTACT PERSON (TECHNICAL)	Mr. K Modjadji				
TELEPHONE NUMBER	083 673 5436	E-MAIL ADDRESS	ModjadjiM@dpw.limpopo.gov.za		
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				<input type="checkbox"/> YES	<input type="checkbox"/> NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				<input type="checkbox"/> YES	<input type="checkbox"/> 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
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **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 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.

¹“State” means –

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

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

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

2.7.1 If so, furnish the following particulars:

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

Name of state institution at which you or the person

REFURBISHMENT AND ADDITIONS AT MATIMU SECONDARY SCHOOL IN MOPANI DISTRICT.

CONTRACT No. LDPWRI-B/20306

connected to the bidder is employed :
Position occupied in the state institution:

Any other particulars:
.....
.....
.....

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

2.7.2.1 If yes, did you 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:
.....
.....
.....

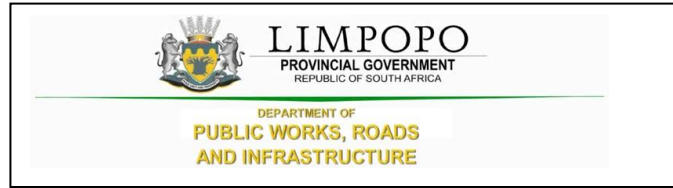
2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

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

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

2.10.1 If so, furnish particulars.
.....
.....
.....

2.11 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**



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).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

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

3.2.1. POINTS AWARDED FOR PRICE

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

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

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

4.3. (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

CONTRACT No. LDPWRI-B/20306

(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;

CONTRACT No. LDPWRI-B/20306

- 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

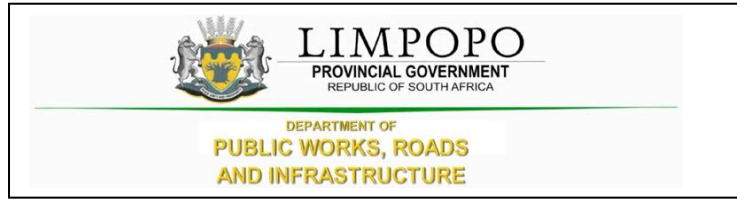
1. Do you have the current projects being executed Yes/No?
2. Please note that it is compulsory to answer the question above and if the answer is yes, complete the table below. Failure by the service provider/tenderer to answer the question above or complete the table below will render their proposal 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 _____

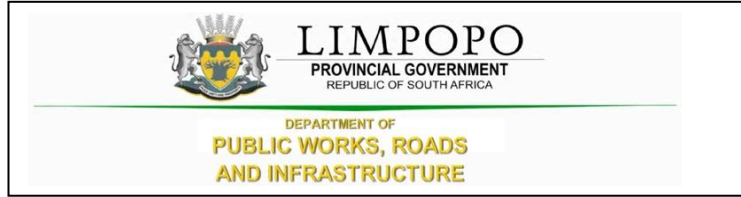
Enterprise _____



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:

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT MOLESHATLOU SECONDARY SCHOOL IN MAILA MAPITSANE VILLAGE, SEKHUKHUNE DISTRICT.

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

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

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

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 tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature(s)

Name(s)

Capacity

For the tenderer:

Name & signature of witness

Date

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

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

The terms of the contract, are contained in:

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

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

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

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

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

For the Employer

Signature

Name

Capacity

Name and address of organization

Signature and Name of Witness

Signature

Name

Capacity

Schedule of Deviations

1 Subject

Details

.....

.....

.....

2 Subject

Details

.....

.....

.....

3 Subject

Details

.....

.....

.....

4 Subject

Details

.....

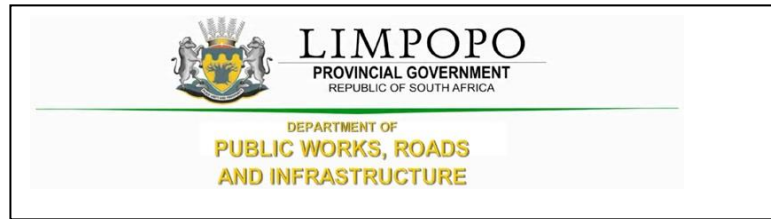
.....

.....

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

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

.....



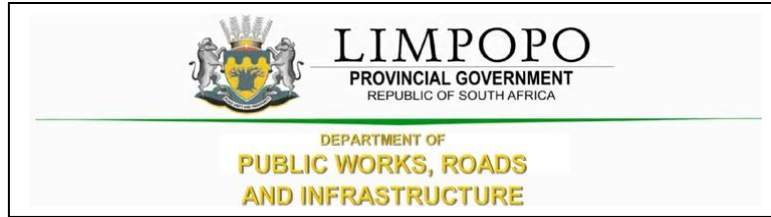
C2.1 CONTRACT DATA

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

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

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

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



PART C2: PRICING DATA

C2.1 Pricing instruction

- The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work in accordance with the provisions of the Model Bills of Quantities or Electrical Work, published by the South African Association of Quantity Surveyors, (July, 2005).
- The agreement is under the JBCC N/S Subcontractor Agreement for use with the JBCC PBA (Edition 4.1 code 2101 March 2005) form of contract with Preliminaries (Code 2103 May 2005) incorporating the State Provisions of cl 41.0.
- It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders.
- The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
- The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities.
- The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- The bidder shall set aside a minimum of 5 % of the project value for sub-contractor/s and determine the amount to be paid for the Contract Participation Goal (CPG).



PART C2.2: BILLS OF QUANTITIES

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES NOTES</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>NOTES</u></p> <p>i) The agreement is based on the JBCC Principal Building Agreement (version 4.1). The additions, deletions and alterations to the JBCC PBA and the <i>Principal Building Agreement: Contract Data</i> and these documents have been incorporated in the Contract section of this document. The tenderer is deemed to have referred to these documents for the full and meaning of each clause. The clauses are referred to by the number and heading only. Where standard clauses or options are not applicable to the contract such notifications or corrections are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p> <p>ii) The Preliminaries for use with the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, edition code 2103 March 2005 and shall be deemed to be incorporated herein</p> <p>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</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
	<p>iv) Where standard clause or alternatives are not entirely applicable to this contract such modification, corrections or supplements as will apply are given under each relevant clause heading</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>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.</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)</u></p> <p><u>DEFINITIONS AND INTERPRETATION (A1)</u></p> <p>1/1/1 Clause 1.0</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p> <p><u>OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)</u></p> <p>1/1/2 Clause 2.0</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p> <p><u>DOCUMENTS (A3)</u></p> <p>1/1/3 Clause 3.0</p> <p>F:..... V:..... T:.....</p> <p style="text-align: right;">Item</p>			
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

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

	Brought Forward		R	
	<u>EXECUTION</u>			
	<u>PREPARATION FOR AND EXECUTION OF THE WORKS (A15)</u>			
1/1/15	Clause 15.0 F:..... V:..... T:.....	Item		
	<u>ACCESS TO THE WORKS (A13)</u>			
1/1/16	Clause 16.0 F:..... V:..... T:.....	Item		
	<u>CONTRACT INSTRUCTION (A17)</u>			
1/1/17	Clause 17.0 F:..... V:..... T:.....	Item		
	<u>SETTING OUT OF THE WORKS (A18)</u>			
1/1/18	Clause 18.0 F:..... V:..... T:.....	Item		
	<u>ASSIGNMENT (A19)</u>			
1/1/19	Clause 19.0 F:..... V:..... T:.....	Item		
	<u>NOMINATED SUBCONTRACTORS (A20)</u>			
1/1/20	Clause 20.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>SELECTED SUBCONTRACTORS (A21)</u>			
1/1/21	Clause 21.0 F:..... V:..... T:.....	Item		
	<u>EMPLOYERS DIRECT CONTRACTORS (A22)</u>			
1/1/22	Clause 22.0 F:..... V:..... T:.....	Item		
	<u>CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)</u>			
1/1/23	Clause 23.0 F:..... V:..... T:.....	Item		
	<u>COMPLETION</u>			
	<u>PRACTICAL COMPLETION (A24)</u>			
1/1/24	Clause 24.0 Contract Period: The period commencing on actual Site hand over date to the Contractor and ending on the date of Practical Completion or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays. F:..... V:..... T:.....	Item		
	<u>WORKS COMPLETION (A25)</u>			
1/1/25	Clause 25.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>FINAL COMPLETION (A26)</u>			
1/1/26	Clause 26.0 F:..... V:..... T:.....	Item		
	<u>LATENT DEFECT'S LIABILITY PERIOD (A27)</u>			
1/1/27	Clause 27.0 F:..... V:..... T:.....	Item		
	<u>SECTIONAL COMPLETION (A28)</u>			
1/1/28	Clause 28.0 F:..... V:..... T:.....	Item		
	<u>REVISION OF THE DATE FOR PRACTICAL COMPLETION (A29)</u>			
1/1/29	Clause 29.0 F:..... V:..... T:.....	Item		
	<u>PENALTY FOR LATE OR NON-COMPLETION (A30)</u>			
1/1/30	Clause 30.0 F:..... V:..... T:.....	Item		
	<u>PAYMENT</u>			
	<u>INTERIM PAYMENT TO THE CONTRACTOR (A31)</u>			
1/1/31	Clause 31.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>ADJUSTMENT OF THE CONTRACT VALUE (A32)</u>			
1/1/32	Clause 32.0 F:..... V:..... T:.....	Item		
	<u>RECOVERY OF EXPENSE AND/OR LOSS (A33)</u>			
1/1/33	Clause 33.0 F:..... V:..... T:.....	Item		
	<u>FINAL ACCOUNT AND FINAL PAYMENT (A34)</u>			
1/1/34	Clause 34.0 F:..... V:..... T:.....	Item		
	<u>PAYMENT TO OTHER PARTIES (A35)</u>			
1/1/35	Clause 35.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION</u>			
	<u>CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)</u>			
1/1/36	Clause 36.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)</u>			
1/1/37	Clause 37.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT (A38)</u>			
1/1/38	Clause 38.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION - CESSATION OF THE WORKS (A39)</u>			
1/1/39	Clause 39.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION - CESSATION OF THE WORKS (A39)</u>			
1/1/40	Clause 39.0 F:..... V:..... T:.....	Item		
	<u>DISPUTE</u>			
	<u>SETTLEMENT OF DISAGREEMENTS AND DISPUTES (A40)</u>			
1/1/41	Clause 40.0 F:..... V:..... T:.....	Item		
	<u>SUBSTITUTE PROVISIONS</u>			
	<u>STATE CLAUSES (A41)</u>			
1/1/42	Clause 41.0 F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<p><u>SCHEDULE OF VARIABLES (A42)</u></p> <p>1/1/43 Clause 42.0</p> <p>F:..... V:..... T:.....</p> <p><u>AGREEMENT</u></p> <p><u>AGREEMENT</u></p>	Item		
	<p>1/1/44 Clause</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder</p> <p><u>CONTRACT DETAILS</u></p> <p>Demolition of 03 classroom block, Refurbishment of 14 classrooms, 32 enviroloos, medium administration block and staff block and Construction of nutrition centre including all related external works</p> <p>Site Description:</p> <p>Moleshatlou Secondary School Maila Mapitsane Village, Sekhukhuneland, Limpopo Province</p> <p>Work for installation by direct contractors: TBC</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<p>This agreement is for a government contract: Yes</p> <p>Date on which possession of the site is intended to be given: TBC</p> <p>Period for the commencement of the works after the contractor takes possession of the site: 10 days</p> <p>Completions in sections are required: No</p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole:</p> <p>R4 000.00</p> <p>Contract duration : 20 months including national builder's break</p> <p>SPECIAL COMPLETION REQUIREMENTS</p> <p>Beneficial occupation dates: TBC</p> <p>Tenant Installations beneficial occupation</p> <p>F..... V..... T</p>			
1/1/45	<p>Arbitration rules as recommended by the Association of Arbitrators (SA)</p> <p>F V T</p>	Item		
1/1/46	<p>The law applicable to this agreement shall be that of South Africa</p> <p>F V T</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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

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<p style="text-align: center;">Brought Forward</p> <p>Details of changes made to the provision of JBCC standard documentation:.....</p> <p>The Contractor shall issue a Tax Invoice immediately to enable the Employer to process payment.</p>				R
<p style="text-align: center;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>				R

	Brought Forward		R	
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definition and interpretation (B1)</u>			
1/1/49	Definition and interpretation (B1.1 - B1.6.5) F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
1/1/50	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
1/1/51	These bills of quantities contain pages and annexures as indexed on the flyleaf The items in these bills of quantities are to be read and priced in conjunction with the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained. F:..... V:..... T:.....	Item		
1/1/52	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3) F:..... V:..... T:.....	Item		
1/1/54	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/55	Priced documents (B2.5) F:..... V:..... T:.....	Item		
1/1/56	Tender submission (B2.6) F:..... V:..... T:.....	Item		
1/1/57	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
1/1/58	Defined works area (B3.1) F:..... V:..... T:.....	Item		
1/1/59	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent at the official site briefing meeting. Site Meeting Date: TBC The meeting will be held at: TBC Tenderers are advise to arrive at least one hour earlier for the briefing meeting in order to avoid delays related to locating the venue. F:..... V:..... T:.....	Item		
1/1/60	Inspection of the site (B3.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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Brought Forward			R
1/1/61	<p>A compulsory briefing meeting with representatives of the Employer will not take place due to the Covid-19 Lockdown restrictions. However, tenderers are welcomed to make arrangements to visit the site on a non-compulsory basis at the Moleshatlou Secondary School</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/62	<p>Existing premises occupied (B3.4)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/63	<p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/64	<p>Previous work - defects (B3.6)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/65	<p>Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/66	<p>Services - unknown (B3.8)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/67	<p>Protection of trees etc (B3.9)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/68	<p>Articles of value (B3.10)</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
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	Brought Forward		R	
1/1/69	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
<u>Management of contract (B4)</u>				
1/1/70	Management of the works (B4.1) The contractor is to submit with his tender a synopsis of the proposed management team envisaged for this project. F:..... V:..... T:.....	Item		
1/1/71	Programme for the works The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works F:..... V:..... T:.....	Item		
1/1/72	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
1/1/73	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
<u>Samples and shop drawings and manufacturer's instructions (B5)</u>				
1/1/74	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
1/1/75	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
Carried Forward			R	
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	Brought Forward		R	
1/1/76	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
<u>Temporary works and plant (B6)</u>				
1/1/77	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
1/1/78	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
1/1/79	Advertising (B6.3) F:..... V:..... T:.....	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item		
1/1/81	Main notice board (B6.5) Provision shall be made for 1 set of Professional boards Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m. F:..... V:..... T:.....	Item		
1/1/82	Subcontractors notice board (B6.6) F:..... V:..... T:.....	Item		
Carried Forward				
	Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General		R	

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	Brought Forward		R	
	<u>Temporary services (B7)</u>			
1/1/83	Location (B7.1) F:..... V:..... T:.....	Item		
1/1/84	Water (B7.2) Alternative A F:..... V:..... T:.....	Item		
1/1/85	Electricity (B7.3) Alternative A F:..... V:..... T:.....	Item		
1/1/86	Telecommunication equipment (B7.4) Alternative A F:..... V:..... T:.....	Item		
1/1/87	Ablution facilities (B7.5) Alternative A F:..... V:..... T:.....	Item		
	<u>Prime cost amounts (B8)</u>			
1/1/88	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
1/1/89	General attendance (B9.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/90	Special attendance (B9.2) F:..... V:..... T:.....	Item		
1/1/91	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
1/1/92	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
1/1/93	Provision for Value Added Tax (VAT) is made in the Final Summary F:..... V:..... T:.....	Item		
1/1/94	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
1/1/95	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
1/1/96	Payment certificate cash flow (B10.4) F:..... V:..... T:.....	Item		
1/1/97	Contractor information supply (B10.5) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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Brought Forward			R
<u>General (B11)</u>			
1/1/98	Protection of works (B11.1) F:..... V:..... T:.....	Item	
1/1/99	Protection/isolation of existing/sectionally occupied works (B11.2) F:..... V:..... T:.....	Item	
1/1/100	Site security (B11.3) F:..... V:..... T:.....	Item	
1/1/101	Notice before covering work (B11.4) F:..... V:..... T:.....	Item	
1/1/102	Disturbance (B11.5) F:..... V:..... T:.....	Item	
1/1/103	Works cleaning and clearing (B11.6) F:..... V:..... T:.....	Item	
1/1/104	Vermin (B11.7) F:..... V:..... T:.....	Item	
1/1/105	Overhand work (B11.8) F:..... V:..... T:.....	Item	
Carried Forward			R
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Brought Forward			R
<u>Schedule of variables (B12)</u>			
1/1/106	<p>Pre-tender information (B12.1)</p> <p>F:..... V:..... T:.....</p> <p>Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract</p>	Item	
1/1/107	<p>12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/108	<p>12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: Yes</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/109	<p>12.1.3 Interest of agents (B2.4)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/110	<p>12.1.4 Defined works area (B3.1)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/111	<p>12.1.5 Geotechnical investigation (B3.2)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/112	<p>12.1.6 Existing premises occupied (B3.4)</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
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Brought Forward			R
1/1/113	<p>12.1.7 Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/114	<p>12.1.8 Protection of trees (B3.9)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/115	<p>12.1.9 Inspection of adjoining properties (B3.11)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/116	<p>12.1.10 Enclosure of the works (B6.2)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/117	<p>12.1.11 Offices (B6.4.3)</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/118	<p>12.1.12 Main notice board (B6.5)</p> <p>Provision shall be made for 1 set of Professional boards</p> <p>Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Limpopo Department of Education chromadek signage board that must be 2 x 4m.</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/119	<p>12.1.13 Subcontractors notice board (B6.6)</p> <p>A notice board is required: No</p> <p>F:..... V:..... T:.....</p>	Item	
Carried Forward			R
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	Brought Forward		R	
1/1/120	<p>12.1.14 Water (B7.2) Alternative Selected: A</p> <p>The contractor shall make provision for water connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local Authority. Should the local authority refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/121	<p>12.1.15 Electricity (B7.3) Alternative selected: A</p> <p>The contractor shall make provision for electrical power connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/122	<p>12.1.16 Telecommunications (B7.4) Alternative selected: A</p> <p>The contractor shall make provision for telephone connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the relevant Agency. Should the Agency refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Agency would have supplied services to site ie in compliance wit the specifications of the Agency.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/123	<p>12.1.17 Ablution facilities (B7.5) Alternative selected: A</p> <p>The contractor shall make provision for sewer connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance wit the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/124	<p>12.1.8 Special attendance (B9.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/125	<p>12.1.19 Protection of the works (B11.1)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/126	<p>12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes</p> <p>The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/127	<p>12.1.21 Disturbance (B11.5)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/128	<p>Post tender information (B12.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/129	<p>12.2.1 Payment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/130	<p>12.2.2 Adjustment of preliminaries Alternative selected: (A or B)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/131	<p>12.2.3 Additional agreed preliminaries items</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
1/1/132	<p>GUARANTEE</p> <p>Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by structural defects in the building in which case the responsibility for replacement shall rest entirely with the contractor unless found to be as a result of a design fault.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/133	<p>SHOP DRAWINGS</p> <p>The contractor and/or nominated/selected sub-contractor shall prepare and submit, at his own expense, three (3) copies of shop drawings of all fabricated work, working or setting out drawings shop details and schedules to the principal agent for approval prior to commencement of manufacture.</p> <p>Correction of shop drawings shall not constitute a change in scope of work unless the contractor notifies the Principal Agent in writing within seven (7) calendar days and shall not proceed with fabrication until so authorised by the principal agent</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
1/1/134	<p>SAMPLES</p> <p>Samples are physical examples furnished by the contractor to illustrate materials, equipment or workmanship and to establish standards by which the work will be judged. The contractor shall furnish without delay such samples and "mock ups" as may be called for by the Principal Agent, who may reject all material and workmanship not corresponding with the approved samples.</p> <p>Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration.</p> <p>Samples must be properly labelled with the project name and location, contractor's name, the type, finish composition of materials date of submission and the contract document reference in which the project is identified.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/135	<p>SITE INSTRUCTIONS</p> <p>Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor.</p> <p>Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor.</p> <p>Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue.</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

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	Brought Forward		R	
1/1/136	<p>OVERTIME</p> <p>Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/137	<p>CO-OPERATION OF CONTRACTOR FOR COST CONTROL</p> <p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost control in an effort to prevent the final building cost from exceeding the budget.</p> <p>It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/138	<p>SITE LEVELS</p> <p>Before commencement of the works, the contractor shall carry out and provide the principal agent, for approval, a survey of the existing site levels in sufficient details to enable the preparation of a final account.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/139	<p>PROPRIETARY BRANDED PRODUCTS</p> <p>The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
1/1/140	<p>AS BUILT DRAWINGS</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/141	<p>OCCUPATIONAL HEALTH AND SAFETY ACT</p> <p>In terms of the Occupational Health and Safety Regulations promulgated on 18 July 2003 and any latest editions/amendments, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained.</p> <p>F: V: T:</p>	Item		
1/1/142	<p>COVID-19 RELATED ITEMS</p> <p>In terms of the latest Covid-19 regulations and requirements, it will be expected from the contractor to comply fully with and adhere to all such regulations pertaining to this project as no claims in this regard will be entertained.</p> <p>F: V: T:</p>	Item		
Carried to Final Summary			R	
<p>Section No. 1 PRELIMINARIES AND GENERAL Bill No. 1 Preliminaries and General</p>				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p>Excavations measured in successive depths of 2m.</p> <p><u>SITE CLEARANCE ETC</u></p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks</p>			

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		Brought Forward		R
	<u>Site clearance</u>			
2/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	241	
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2/1/2	Trenches	m3	69	
2/1/3	Holes	m3	1	
	<u>Extra over excavations in earth to trenches and holes for</u>			
2/1/4	Excavation in soft rock	m3	17	
2/1/5	Excavation in hard rock	m3	24	
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
	<u>Note:</u>			
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.			
2/1/6	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	38	
	<u>RISK OF COLLAPSE OF EXCAVATIONS</u>			
	<u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u>			
2/1/7	Trenches and holes	m2	208	
	<u>KEEPING EXCAVATIONS FREE FROM WATER</u>			
	<u>Keeping excavations free of water</u>			
2/1/8	Keeping excavations free of water		Item	
	Carried Forward			R
	Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks			

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Brought Forward			R
<u>FILLING, ETC.</u>			
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
2/1/9	Backfilling to trenches, holes, etc	m3	35
2/1/10	Under floors, steps, pavings, etc	m3	121
<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
2/1/11	Backfilling to trenches, holes, etc	m3	10
2/1/12	Under floors, steps, pavings, etc	m3	30
<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
2/1/13	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	30
<u>COMPACTION OF SURFACES</u>			
2/1/14	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	203
<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
<u>Protection against termites, ants, etc</u>			
2/1/15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	203
2/1/16	To bottom and sides of excavated trenches, Holes, etc.	m2	277
Carried Forward to Summary of Section No.			R
Section No. 2 NUTRITION CENTRE Bill No. 1 Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p>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".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement</p>			R	

Brought Forward				R
<u>GENERAL NOTES TO TENDERERS</u>				
General notes, described in Bill No.1, shall equally apply to this Bill.				
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>15Mpa/19mm concrete</u>				
2/2/1	Blinding	m3	3	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>				
<u>25MPa/19mm Concrete</u>				
2/2/2	Strip footings	m3	17	
2/2/3	Bases	m3	1	
<u>REINFORCED CONCRETE CAST IN FORMWORK</u>				
<u>25MPa/19mm Concrete</u>				
2/2/4	Surface beds cast in panels	m3	26	
2/2/5	Slabs including beams and inverted beams	m3	0.3	
2/2/6	Ramps	m3	0.5	
<u>TEST BLOCKS</u>				
<u>Notes:</u>				
Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
2/2/7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3	
<u>SUNDRIES TO CONCRETE</u>				
Carried Forward				R
Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete, Formwork and Reinforcement				

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Brought Forward			R
<u>Surface treatment</u>			
2/2/8	Power float top surface of concrete surface bed to a true and even level finish	m2	205
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides</u>			
2/2/9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	70
2/2/10	Sloping and stepped outer edges of ramps not exceeding 300mm high extreme	m	11
<u>Rough formwork to soffits</u>			
2/2/11	Flat slabs not exceeding 250mm thick, propped up not exceeding 3,5m high from bearing level	m2	1
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
2/2/12	10mm soft board or similar approved between concrete and brick wall	m	65
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High and mild tensile steel reinforcement to structural concrete work</u>			
2/2/13	All diameter bars	t	1
<u>Fabric reinforcement:</u>			
2/2/14	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	201
Carried Forward to Summary of Section No.			R
Section No. 2 NUTRITION CENTRE Bill No. 2 Concrete,Formwork and Reinforcement			

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

	Brought Forward			R
	<u>Pointing</u>			
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
	<u>BRICKWORK IN FOUNDATION</u>			
	<u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u>			
2/3/1	One brick wall	m2	75	
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
2/3/2	One brick wall	m2	20	
2/3/3	Half brick wall	m2	80	
	<u>FACE BRICKWORK</u>			
	Bricks shall be ordered timeously to obtain uniformity in size and colour			
	<u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u>			
2/3/4	Extra over brickwork for face brickwork in foundations (Provisional)	m2	150	
2/3/5	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	21	
2/3/6	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	15	
	<u>BRICKWORK SUNDRIES</u>			
	Carried Forward			R
	Section No. 2 NUTRITION CENTRE Bill No. 3 Masonry			

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Brought Forward				R
<u>Brickwork reinforcement</u>				
2/3/7	75mm Wide reinforcement built in horizontally	m	234	
2/3/8	150mm Wide reinforcement built in horizontally.	m	500	
<u>Precast concrete prestressed fabricated lintels</u>				
2/3/9	100 x 70mm Lintels in lengths not exceeding 3m	m	19	
2/3/10	175 x 70mm Lintels in lengths not exceeding 3m	m	19	
<u>Turning pieces</u>				
2/3/11	110mm Wide turning piece to flat brick lintels	m	30	
<u>Air bricks etc</u>				
2/3/12	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	3	
<u>Fair cutting to face brickwork</u>				
<u>Roof ties</u>				
2/3/13	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	58	
<u>MOVEMENTS JOINTS ETC,</u>				
<u>Expansion joints</u>				
2/3/14	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	14	
Carried Forward to Summary of Section No.				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 3				
Masonry				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>DAMP PROOFING OF WALLS AND FLOORS</u></p> <p><u>Similar Approved</u></p> <p><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></p>			
2/4/1	Under cills, etc.	m2	3	
	<p><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></p>			
2/4/2	Under surface beds.	m2	203	
	<p><u>JOINTS SEALANTS, ETC.</u></p> <p><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></p>			
2/4/3	10mm Isolation Joints between surface bed concrete and brick wall	m	65	
	<p>Carried Forward to Summary of Section No.</p>			
	<p>Section No. 2 NUTRITION CENTRE Bill No. 4 Waterproofing</p>			R

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<u>Similar Approved</u>			
	<u>0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer</u>			
2/5/1	Roof sheeting pitch not exceeding 25 degrees	m2	299	
2/5/2	550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile	m	24	
2/5/3	550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.	m	19	
	<u>ROOF AND WALL INSULATION</u>			
	Carried Forward			R
	Section No. 2 NUTRITION CENTRE Bill No. 5 Roof Coverings			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery</p>			

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<p style="text-align: center;">Brought Forward</p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery</p>			R	

Brought Forward		R
<u>ROOFS, ETC</u>		
<u>Plate nailed timber roof truss construction</u>		
The following is applicable in respect of roof trusses:		
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.		
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.		
All joints to be close fitted butt joints.		
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.		
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.		
Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.		
<u>Roof trusses</u>		
2/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2 249
<u>Sawn softwood</u>		
2/6/2	38 x 114mm Wall plates	m 69
<u>Sundries</u>		
2/6/3	Two coats creosote on sawn timbers	m2 26
<u>Similar Approved</u>		
Carried Forward		R
Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery		

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Brought Forward				R
	<u>"Everite FC77" Fascia and badge boards</u>			
2/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	69	
	<u>DOORS ETC</u>			
	<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
2/6/5	813 x 2032mm single door	No	2	
2/6/6	914 x 2032mm single door	No	4	
2/6/7	1690 x 2064mm double door	No	1	
	<u>WINDOWS</u>			
	<u>Similar Approved</u>			
	<u>"Nutec" fibre cement window cills</u>			
2/6/8	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	15	
	Carried Forward to Summary of Section No.			R
	Section No. 2 NUTRITION CENTRE Bill No. 6 Carpentry and Joinery			

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

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Suspension systems</u></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></p>			
2/7/1	<p>2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails</p>	m2	16	
	<p><u>PLASTER BOARD CEILINGS</u></p>			
	Carried Forward			R
	<p>Section No. 2 NUTRITION CENTRE Bill No. 7 Ceilings,Partitions and Access Flooring</p>			

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Brought Forward				R
	<p><u>6.4mm Gypsum plasterboard ceiling, fixed at same roof on 38 x 38mm saw brandering at 400mm centers, including all necessary hangers, braces, etc. fixed with staples or nails, finished with a 9.5mm thick gypsum plasterboard panels including wire lathing at all joints between ceiling panels and a coat of "Rhinolite" plaster, trowelled smooth to receive decoration by others, complete as per Architects Ceilings Specification.</u></p>			
2/7/2	Plasterboard Ceiling not exceeding 1m below timber trusses	m2	173	
	<p><u>CORNICES</u></p> <p><u>Similar Approved</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
2/7/3	75mm Coved cornice, plugged to brickwork	m	155	
	<p><u>SUNDRIES</u></p> <p><u>Extra over for Trap Doors</u></p>			
2/7/4	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	2	
	<p><u>CEILING INSULATION</u></p> <p><u>Insulation</u></p>			
2/7/5	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	189	
Carried Forward to Summary of Section No.				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 7				
Ceilings,Partitions and Access Flooring				

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

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Brought Forward			R
<u>Finishes to ironmongery</u>			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
BS Satin bronze lacquered			
CH Chromium plated			
SC Satin chromium plated			
SE Silver enamelled			
GE Grey enamelled			
AN Anodised natural			
AS Anodised silver			
AB Anodised bronze			
AG Anodised gold			
ABL Anodised black			
PB Polished brass			
PL Polished and lacquered			
PT Epoxy coated			
SD Sanded			
<u>Rates</u>			
The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.			
<u>DOOR FURNITURE</u>			
<u>Similar Approved</u>			
<u>Handles</u>			
2/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)	Sets	7.0
<u>Locks</u>			
2/8/2	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	7
2/8/3	SC 150mm Cabin hook (Code: CH 150)	No	2
<u>Kick and push plates</u>			
2/8/4	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	14
Carried Forward			R
Section No. 2 NUTRITION CENTRE Bill No. 8 Ironmongery			

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

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><u>Installation</u></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork</p>			R	

Brought Forward			R
<u>WELDED SCREENS, GATES, ETC.</u>			
<u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u>			
2/9/1	Steel gate to door, size 1690 x 2064mm high	No	1
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
2/9/2	813 x 2032mm single door	No	2
2/9/3	914 x 2032mm single door	No	3
<u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
2/9/4	914 x 2032mm single door	No	1
2/9/5	1690 x 2064mm double door	No	1
<u>ROLLER SHUTTER DOORS</u>			
<u>Similar Approved</u>			
Carried Forward			R
Section No. 2 NUTRITION CENTRE Bill No. 9 Metalwork			

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Brought Forward				R
	<p><u>"Wispeco Deluxe Roll-A-Door" standard Roller shutter door with Chromadeck finish, fixed to brickwork or concrete, complete with fittings as per manufacturer's recommendations</u></p>			
2/9/6	Roll-up garage door to suit opening 2185 x 2400mm high, installed in and including rollershutter frame, both with "Colourcoat HPS200 - Van Dyk Brown SC" finish, manually operated, including centre lift lock, weather strips, handles, Roll-A-Guides, hinges, fixing bolts, track etc. with minimum 00mm side room and 350mm headroom	No	7	
	<p><u>WINDOWS FRAMES, etc.</u></p> <p><u>Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification</u></p>			
2/9/7	Window size 534 x 648mm high	No	4	
2/9/8	Window size 1302 x 978mm high	No	10	
	<p><u>ALUMINIUM WINDOWS, DOORS, ETC</u></p> <p><u>304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.</u></p>			
2/9/9	In Ceiling voids	m2	173	
	<p><u>STEEL COLUMNS AND BEAMS</u></p> <p><u>Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to</u></p>			
2/9/10	76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column	kg	80	
Carried Forward to Summary of Section No.				R
Section No. 2				
NUTRITION CENTRE				
Bill No. 9				
Metalwork				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u>			
2/10/1	30mm Thick on floors and landings	m2	15	
2/10/2	30mm Thick to falls and currents	m2	1	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
2/10/3	On brick walls	m2	395	
2/10/4	On narrow widths	m2	39	
	Carried Forward to Summary of Section No.			
	Section No. 2 NUTRITION CENTRE Bill No. 10 Plastering			R

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling</p>			

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	Brought Forward			R
	<p><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note</u></p> <p>All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.</p> <p><u>WALL TILING</u></p> <p><u>150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications</u></p>			
2/11/1	Plastered walls	m2	31	
2/11/2	On narrow widths	m2	3	
2/11/3	Splash backs	m2	1	
	<p><u>FLOOR TILING</u></p> <p><u>300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementitious grout</u></p>			
2/11/4	On floors	m2	8	
2/11/5	100mm high skirting	m	20	
	Carried Forward			R
	<p>Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling</p>			

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Brought Forward			R
	<u>300 x 300 x 11.5mm Thick Porcelain tiles (P.C allowance of R 210.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive with flush painted with tinted waterproof jointing and grout to match tile</u>		
2/11/6	On floors	m2	8
2/11/7	75mm high skirting	m	20
	<u>ATTIC STOCK</u>		
2/11/8	150 x 150 x mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	3
2/11/9	300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	1
2/11/10	300 x 300 x 11.5mm Thick Porcelain tiles_(P.C allowance of R 210.00/m2 excludes V.A.T. but includes delivery to site)	m2	1
	<u>SUNDRIES</u>		
	<u>10mm aluminium straight edge trim</u>		
2/11/11	Dividing strip between tiles and door frames	m	6
Carried Forward to Summary of Section No.			R
Section No. 2 NUTRITION CENTRE Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage</p>			

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Brought Forward		R
Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.		
<u>Laying, backfilling, bedding, etc., of pipes:</u>		
Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions		
<u>GENERAL NOTES TO TENDERERS</u>		
General notes, described in Bill No.1, shall equally apply to this Bill.		
<u>RAINWATER GOODS</u>		
<u>Similar Approved</u>		
<u>Gutters</u>		
2/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m 69
2/12/2	Extra over eaves gutter for stopped end	No 2
2/12/3	Extra over eaves gutter for corner	No 32
2/12/4	Extra over eaves gutter for outlet	No 8
<u>Rainwater downpipes</u>		
2/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m 28
2/12/6	Extra over downpipe for offset	No 16
2/12/7	Extra over downpipe for shoe	No 8
<u>SANITARY FITTINGS</u>		
Refer to sanitary schedule drawing for full description of abbreviations		
Carried Forward		R
Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage		

Brought Forward			R
<u>WASH HAND BASINS</u>			
<u>Similar Approved</u>			
<u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
2/12/8	WHB	No	2
<u>WATER CLOSET</u>			
<u>Similar Approved</u>			
<u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
2/12/9	WC, installed complete	No	2
<u>SINKS, etc.</u>			
<u>Concrete double wash trough with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
2/12/10	1400 x 530 x 340mm deep Wash trough	No	1
<u>TOILET ROLL HOLDER</u>			
<u>To be approved by Architect</u>			
2/12/11	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2
Carried Forward			R
Section No. 2 NUTRITION CENTRE Bill No. 12 Plumbing and Drainage			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
2/13/1	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	13	
	<u>6mm obscure floated glass fixed glazing putty</u>			
2/13/2	Panes not exceeding 0.1m2	m2	1	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
2/13/3	Mirror 400 x 600 mm high	No	2	
	Carried Forward to Summary of Section No.			
	Section No. 2 NUTRITION CENTRE Bill No. 13 Glazing			R

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>FIBRE CEMENT</u>			
	<u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>			
2/14/1	On internal ceilings and cornices	m2	202	
2/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	69	
	<u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u>			
2/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	15	
	<u>FLOATED PLASTER INTERNAL WALLS</u>			
	Carried Forward			R
	Section No. 2 NUTRITION CENTRE Bill No. 14 Paintwork			

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Brought Forward			R
	<u>Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>		
2/14/4	Plastered walls	m2	395
	<u>METAL SURFACES</u>		
	<u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect</u>		
2/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	22
2/14/6	On window frames	m2	14
2/14/7	On door frames	m2	20
2/14/8	On mild steel columns, beams, etc	m2	4
2/14/9	On gutters	m	69
2/14/10	On downpipes	m	28
	<u>WOOD</u>		
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>		
2/14/11	On door	m2	42
	<u>Prepare and paint three coats clear varnish:</u>		
2/14/12	On door	m2	24
Carried Forward to Summary of Section No.			R
Section No. 2 NUTRITION CENTRE Bill No. 14 Paintwork			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 15</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	Carried Forward		R	
	<p>Section No. 2 NUTRITION CENTRE Bill No. 15 Provisional Sums</p>			

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	Brought Forward		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><u>KITCHEN FITTINGS</u></p>			
2/15/1	Allow the amount of R223 532.13 (Two Hundred and Twenty Three Thousand Five Hundred and Thirty Two and Thirteen) for kitchen fittings, installed complete.	Item		223 532.13
2/15/2	Attendance		%	
2/15/3	Profit		%	
	Carried Forward to Summary of Section No.		R	
	Section No. 2 NUTRITION CENTRE Bill No. 15 Provisional Sums			

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Bill No	SECTION SUMMARY	Page No	Amount
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2/2	Concrete, Formwork and Reinforcement	2/7	
2/3	Masonry	2/10	
2/4	Waterproofing	2/11	
2/5	Roof Coverings	2/13	
2/6	Carpentry and Joinery	2/17	
2/7	Ceilings, Partitions and Access Flooring	2/20	
2/8	Ironmongery	2/23	
2/9	Metalwork	2/28	
2/10	Plastering	2/29	
2/11	Tiling	2/32	
2/12	Plumbing and Drainage	2/36	
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	Carried to Final Summary		R
	Section No. 2 NUTRITION CENTRE		

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p>Excavations measured in successive depths of 2m.</p> <p><u>SITE CLEARANCE ETC</u></p>			
	Carried Forward		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 1 Earthworks</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward		R
<u>Site clearance</u>		
3/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2 21
<u>EXCAVATIONS</u>		
<u>Excavation in earth not exceeding 2m deep</u>		
3/1/2	Trenches	m3 11
<u>Extra over excavations in earth to trenches and holes for</u>		
3/1/3	Excavation in soft rock	m3 3
3/1/4	Excavation in hard rock	m3 4
<u>CARTING AWAY OF EXCAVATED MATERIAL</u>		
<u>Note:</u>		
Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.		
3/1/5	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3 6
<u>RISK OF COLLAPSE OF EXCAVATIONS</u>		
<u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u>		
3/1/6	Trenches and holes	m2 33
<u>KEEPING EXCAVATIONS FREE FROM WATER</u>		
<u>Keeping excavations free of water</u>		
3/1/7	Keeping excavations free of water	Item
<u>FILLING, ETC.</u>		
Carried Forward		R
Section No. 3 GUARD HOUSE Bill No. 1 Earthworks		

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Brought Forward			R
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
3/1/8	Backfilling to trenches, holes, etc	m3	5
3/1/9	Under floors, steps, pavings, etc	m3	10
<u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>			
3/1/10	Backfilling to trenches, holes, etc	m3	2
3/1/11	Under floors, steps, pavings, etc	m3	2
<u>Filling supplied by the Contractor under floors, trenches, etc.</u>			
3/1/12	Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick	m3	2
<u>COMPACTION OF SURFACES</u>			
3/1/13	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	24
<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>			
<u>Protection against termites, ants, etc</u>			
3/1/14	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	24
3/1/15	To bottom and sides of excavated trenches, Holes, etc.	m2	44
Carried Forward to Summary of Section No.			R
Section No. 3 GUARD HOUSE Bill No. 1 Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p>			
	Carried Forward		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 2 Concrete, Formwork and Reinforcement</p>			

<p style="text-align: center;">Brought Forward</p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p>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".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 GUARD HOUSE Bill No. 2 Concrete, Formwork and Reinforcement</p>			R	

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

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MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<u>Surface treatment</u>			
3/2/6	Power float top surface of concrete surface bed to a true and even level finish	m2	24
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Rough formwork to sides</u>			
3/2/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	26
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
3/2/8	10mm soft board or similar approved between concrete and brick wall	m	13
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High and mild tensile steel reinforcement to structural concrete work</u>			
3/2/9	All diameter bars	t	0.2
<u>Fabric reinforcement:</u>			
3/2/10	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	10
Carried Forward to Summary of Section No.			R
Section No. 3 GUARD HOUSE Bill No. 2 Concrete,Formwork and Reinforcement			

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

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<u>Pointing</u>			
Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc			
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u>			
3/3/1	One brick wall	m2	12
<u>SUPERSTRUCTURE BRICKWORK</u>			
<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>			
3/3/2	One brick wall	m2	41
3/3/3	Half brick wall	m2	9
3/3/4	Half brick wall, in beamfilling	m2	2
<u>FACE BRICKWORK</u>			
Bricks shall be ordered timeously to obtain uniformity in size and colour			
<u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u>			
3/3/5	Extra over brickwork for face brickwork in foundations (Provisional)	m2	25
3/3/6	Extra over brickwork for face brickwork in superstructure	m2	41
3/3/7	Extra over brickwork for face brickwork in brick-on-edge header course lintel	m	10
Carried Forward			R
Section No. 3 GUARD HOUSE Bill No. 3 Masonry			

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Brought Forward			R
3/3/8	Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped	m	10
3/3/9	Extra over brickwork for face brickwork in beamfilling	m2	2
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
3/3/10	75mm Wide reinforcement built in horizontally	m	27
3/3/11	150mm Wide reinforcement built in horizontally.	m	194
<u>Precast concrete prestressed fabricated lintels</u>			
3/3/12	100 x 70mm Lintels in lengths not exceeding 3m	m	12
3/3/13	175 x 70mm Lintels in lengths not exceeding 3m	m	3
<u>Turning pieces</u>			
3/3/14	110mm Wide turning piece to flat brick lintels	m	12
<u>Air bricks etc</u>			
3/3/15	Set of 2 240 x 155mm Terracota air bricks as per architects specification	No	1
<u>Roof ties</u>			
3/3/16	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	15
<u>MOVEMENTS JOINTS ETC,</u>			
<u>Expansion joints</u>			
3/3/17	30mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	2
Carried Forward to Summary of Section No.			R
Section No. 3 GUARD HOUSE Bill No. 3 Masonry			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>Similar Approved</u>			
	<u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u>			
3/4/1	Under walls	m2	1	
3/4/2	Under cills, etc.	m2	2	
	<u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u>			
3/4/3	Under surface beds.	m2	24	
	<u>JOINTS SEALANTS, ETC.</u>			
	Carried Forward			R
	Section No. 3 GUARD HOUSE Bill No. 4 Waterproofing			

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	Brought Forward			R
3/4/4	<p><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></p> <p>10mm Isolation Joints between surface bed concrete and brick wall</p>	m	13	
	Carried Forward to Summary of Section No.			R
	<p>Section No. 3 GUARD HOUSE Bill No. 4 Waterproofing</p>			

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

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 6</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p>			
	Carried Forward		R	
	<p>Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery</p>			

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<p style="text-align: center;">Brought Forward</p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery</p>			R	

Brought Forward		R
<u>ROOFS, ETC</u>		
<u>Plate nailed timber roof truss construction</u>		
The following is applicable in respect of roof trusses:		
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.		
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.		
All joints to be close fitted butt joints.		
Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.		
The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.		
Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.		
<u>Roof trusses</u>		
3/6/1	Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)	m2 21
<u>Sawn softwood</u>		
3/6/2	38 x 114mm Wall plates	m 18
<u>Sundries</u>		
3/6/3	Two coats creosote on sawn timbers	m2 7
<u>Similar Approved</u>		
Carried Forward		R
Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery		

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Brought Forward				R
	<u>"Everite FC77" Fascia and badge boards</u>			
3/6/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	18	
	<u>DOORS ETC</u>			
	<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
3/6/5	813 x 2032mm single door	No	2	
3/6/6	914 x 2032mm single door	No	1	
	<u>WINDOWS</u>			
	<u>Similar Approved</u>			
	<u>"Nutec" fibre cement window cills</u>			
3/6/7	150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations	m	10	
	Carried Forward to Summary of Section No.			R
	Section No. 3 GUARD HOUSE Bill No. 6 Carpentry and Joinery			

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

	Brought Forward			R
	<p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Suspension systems</u></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></p>			
3/7/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	11	
	<p><u>CORNICES</u></p> <p><u>Similar Approved</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
3/7/2	75mm Coved cornice, plugged to brickwork	m	14	
	Carried Forward			R
	<p>Section No. 3 GUARD HOUSE Bill No. 7 Ceilings,Partitions and Access Flooring</p>			

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	Brought Forward			R
	<u>SUNDRIES</u>			
	<u>Extra over for Trap Doors</u>			
3/7/3	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	1	
	<u>CEILING INSULATION</u>			
	<u>Insulation</u>			
3/7/4	125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.	m2	11	
	Carried Forward to Summary of Section No.			
	Section No. 3 GUARD HOUSE Bill No. 7 Ceilings,Partitions and Access Flooring			R

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

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Brought Forward				R
<u>Finishes to ironmongery</u>				
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
BS Satin bronze lacquered				
CH Chromium plated				
SC Satin chromium plated				
SE Silver enamelled				
GE Grey enamelled				
AN Anodised natural				
AS Anodised silver				
AB Anodised bronze				
AG Anodised gold				
ABL Anodised black				
PB Polished brass				
PL Polished and lacquered				
PT Epoxy coated				
SD Sanded				
<u>Rates</u>				
The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.				
<u>DOOR FURNITURE</u>				
<u>Similar Approved</u>				
<u>Handles</u>				
3/8/1	SS Lever handle on rose with cylinder escutcheons (Code: TH120 Cyl S.S)	Sets	3.0	
<u>Locks</u>				
3/8/2	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	3	
3/8/3	SC 150mm Cabin hook (Code: CH 150)	No	1	
<u>Kick and push plates</u>				
3/8/4	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430- 200)	No	6	
Carried Forward				R
Section No. 3 GUARD HOUSE Bill No. 8 Ironmongery				

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

<p style="text-align: center;">Brought Forward</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><u>Installation</u></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 GUARD HOUSE Bill No. 9 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 GUARD HOUSE Bill No. 9 Metalwork</p>			R	

Brought Forward			R
<u>WELDED SCREENS, GATES, ETC.</u>			
<u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u>			
3/9/1	Steel gate to door, size 813mm x 2032mm high	No	1
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
3/9/2	813 x 2032mm single door	No	1
<u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
3/9/3	813 x 2032mm single door	No	1
3/9/4	914 x 2032mm single door	No	1
<u>WINDOWS FRAMES, etc.</u>			
<u>Standard mild steel school type Top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification</u>			
3/9/5	Window size 1511 x 1272mm high	No	1
3/9/6	Window size 1022 x 900mm high	No	4
3/9/7	Window size 1022 x 949mm high	No	4
Carried Forward to Summary of Section No.			R
Section No. 3 GUARD HOUSE Bill No. 9 Metalwork			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>SCREEDS</u>			
	<u>Granolithic screed on concrete, worked down to a true and even surface with a wood trowel</u>			
3/10/1	30mm Thick on floors	m2	11	
	<u>INTERNAL PLASTER</u>			
	<u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u>			
3/10/2	On brick walls	m2	54	
3/10/3	On narrow widths	m2	5	
	Carried Forward to Summary of Section No.			R
	Section No. 3 GUARD HOUSE Bill No. 10 Plastering			

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

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MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward			R
	<p><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note</u></p> <p>All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.</p> <p><u>WALL TILING</u></p> <p><u>150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications</u></p>			
3/11/1	Splash backs	m2	0.4	
	<p><u>ATTIC STOCK</u></p>			
3/11/2	150 x 150 x 6mm ceramic tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	1	
	<p><u>SUNDRIES</u></p> <p><u>10mm aluminium straight edge trim</u></p>			
3/11/3	Dividing strip between tiles and door frames	m	1	
	Carried Forward to Summary of Section No.			R
	Section No. 3 GUARD HOUSE Bill No. 11 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage</p>			R

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	Brought Forward			R
	Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.			
	<u>Laying, backfilling, bedding, etc., of pipes:</u>			
	Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>RAINWATER GOODS</u>			
	<u>Similar Approved</u>			
	<u>Gutters</u>			
3/12/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	18	
3/12/2	Extra over eaves gutter for stopped end	No	2	
3/12/3	Extra over eaves gutter for corner	No	8	
3/12/4	Extra over eaves gutter for outlet	No	2	
	<u>Rainwater downpipes</u>			
3/12/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	7	
3/12/6	Extra over downpipe for offset	No	4	
3/12/7	Extra over downpipe for shoe	No	2	
	<u>SANITARY FITTINGS</u>			
	Refer to sanitary schedule drawing for full description of abbreviations			
	Carried Forward			R
	Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage			

		Brought Forward		R
<u>WASH HAND BASINS</u>				
<u>Similar Approved</u>				
<u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>				
3/12/8	WHB	No	1	
<u>WATER CLOSET</u>				
<u>Similar Approved</u>				
<u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>				
3/12/9	WC, installed complete	No	1	
<u>TOILET ROLL HOLDER</u>				
<u>To be approved by Architect</u>				
3/12/10	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	1	
<u>TAPS, VALVES, ETC</u>				
<u>Similar Approved</u>				
3/12/11	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	5	
3/12/12	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	5	
Carried Forward to Summary of Section No.				R
Section No. 3 GUARD HOUSE Bill No. 12 Plumbing and Drainage				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 13</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
3/13/1	Panes not exceeding 0.1m2	m2	8	
3/13/2	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	1	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
3/13/3	Mirror 400 x 600 mm high	No	1	
	Carried Forward to Summary of Section No.			
	Section No. 3 GUARD HOUSE Bill No. 13 Glazing			R

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>FIBRE CEMENT</u>			
	<u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>			
3/14/1	On internal ceilings and cornices	m2	12	
3/14/2	Fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	18	
	<u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u>			
3/14/3	Fiber cement window sill not exceeding 300mm high or wide	m	10	
	<u>FLOATED PLASTER INTERNAL WALLS</u>			
	Carried Forward			R
	Section No. 3 GUARD HOUSE Bill No. 14 Paintwork			

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Brought Forward			R
	<u>Prepare and apply one coat merit universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by architect</u>		
3/14/4	Plastered walls	m2	54
	<u>METAL SURFACES</u>		
	<u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by architect</u>		
3/14/5	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	4
3/14/6	On window frames	m2	9
3/14/7	On door frames	m2	4
3/14/8	On gutters	m	18
3/14/9	On downpipes	m	7
	<u>WOOD</u>		
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u>		
3/14/10	On door	m2	7
	<u>Prepare and paint three coats clear varnish:</u>		
3/14/11	On door	m2	3
Carried Forward to Summary of Section No.			R
Section No. 3 GUARD HOUSE Bill No. 14 Paintwork			

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 15</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	Carried Forward			R
	<p>Section No. 3 GUARD HOUSE Bill No. 15 Provisional Sums</p>			

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	Brought Forward		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><u>CCTV INSTALLATION</u></p>			
3/15/1	Allow the amount of R120 000.00 (One Hundred and Twenty Thousand) for CCTV installation, installed complete.	Item		120 000.00
3/15/2	Attendance		%	
3/15/3	Profit		%	
	Carried Forward to Summary of Section No.		R	
	Section No. 3 GUARD HOUSE Bill No. 15 Provisional Sums			

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Bill No	SECTION SUMMARY	Page No	Amount
3/1	Earthworks	3/3	
3/2	Concrete, Formwork and Reinforcement	3/7	
3/3	Masonry	3/10	
3/4	Waterproofing	3/12	
3/5	Roof Coverings	3/14	
3/6	Carpentry and Joinery	3/18	
3/7	Ceilings, Partitions and Access Flooring	3/21	
3/8	Ironmongery	3/24	
3/9	Metalwork	3/28	
3/10	Plastering	3/29	
3/11	Tiling	3/31	
3/12	Plumbing and Drainage	3/34	
3/13	Glazing	3/35	
3/14	Paintwork	3/37	
3/15	Provisional Sums	3/39	
	Carried to Final Summary		R
	Section No. 3 GUARD HOUSE		

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS AND ALTERATIONS</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Subterranean water</u></p> <p>No subterranean water is expected</p> <p><u>Excavation for working space in rock</u></p> <p>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</p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material</p> <p style="text-align: center;">_____</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</i></p>			
	Carried Forward		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 1 Demolitions and Alterations</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Existing structures</u></p> <p>In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account</p> <p><u>Services</u></p> <p>Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary.</p> <p><u>Dust and noise</u></p> <p>The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work.</p> <p><u>Disposal of debris</u></p> <p>The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.</p> <p>Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p><u>Temporary support to openings through existing walls</u></p> <p>Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 1 Demolitions and Alterations</p>		R	

<p style="text-align: center;">Brought Forward</p> <p><u>Electrical and Mechanical</u></p> <p>Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.</p> <p>Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard</p> <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 1 Demolitions and Alterations</p>			R	

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Brought Forward			R
Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.			
<u>REMOVAL OF EXISTING WORK</u>			
<u>Demolitions of existing structures all complete</u>			
4/1/1	Single storey brick and mortar classroom block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.	m2	207
<u>Breaking up/demolishing and removal of walls, slabs, surface beds etc</u>			
4/1/2	100mm thick concrete aprons	m2	180
4/1/3	25mm thick concrete screed	m2	1 660
<u>Taking down and removing panelling, ceilings, partitions, etc</u>			
4/1/4	Nailed-up ceilings including brandering	m2	1 840
4/1/5	Ceiling trap door	No	14
<u>Taking out and removing glass and mirrors</u>			
4/1/6	Glass from steel windows including cleaning out rebates and preparing to receive new glass	m2	315
<u>Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
4/1/7	Ceramic tiles to walls including preparing walls to receive new wall tiles	m2	1 840
<u>Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)</u>			
4/1/8	813mm x 2032mm high timber door including metal frame, ironmongery etc.	No	24
<u>Taking out and removing ironmongery</u>			
4/1/9	Remove pinning board and make good wall finishes	No	51
Carried Forward			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 1 Demolitions and Alterations			

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Brought Forward			R
4/1/10	Remove green chalk board and make good wall finishes	No	16
4/1/11	Remove brass sliding stays, peg stay, handles window ironmongery	No	315
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>		
4/1/12	Remove water closet with cistern and make good wall and floor finishes	No	2
4/1/13	Remove wash hand basin and make good wall finishes	No	2
	<u>Taking out and removing sundry joinery work</u>		
4/1/14	Timber skirting from brickwork	m	834
	<u>Taking out and removing roof coverings, roof accessories and rainwater disposal fittings, keeping roof structure intact</u>		
4/1/15	Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.	m2	1 840
4/1/16	Remove steel gutters, keeping barge boards intact	m	238
4/1/17	Remove barge board	m	146
4/1/18	Remove fascia board	m	738
4/1/19	Remove ridge capping, keeping roof covering intact	m	162
	<u>Repairing cracks</u>		
4/1/20	On plastered brick walls	m2	91
	<u>Making good plaster</u>		
4/1/21	Wall plaster in patches	m2	119
	<u>Face bricks</u>		
4/1/22	Clean and treat face bricks with approved oxidation preventative solution	m2	1 120
Carried Forward to Summary of Section No.			R
Section No. 4			
DEMOLITION OF 3 CLASSROOM & RENOVATION OF			
Bill No. 1			
Demolitions and Alterations			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p><u>EXCAVATION OTHER THAN BULK, ETC</u></p> <p><u>Excavation in earth not exceeding 2m deep</u></p>			
4/2/1	Holes	m3	81	
	<p><u>Extra over trench and hole excavations in earth for excavation in</u></p>			
4/2/2	Soft rock	m3	8	
4/2/3	Hard rock	m3	4	
	Carried Forward			R
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 2 Earthworks			

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Brought Forward			R
	<u>Extra over all excavations for carting away</u>		
4/2/4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	81
	<u>Keeping excavations free of water</u>		
4/2/5	Keeping excavations free of water		Item
	<u>Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density</u>		
4/2/6	Under floors, steps, pavings, etc	m3	12
	<u>COMPACTION OF SURFACES</u>		
	<u>Prepare ground surface by scarifying for a depth of 150mm, breaking down oversized material, adding suitable material where necessary and re-compacting to 90% modified AASHTO density</u>		
4/2/7	Under floors, steps, paving, etc	m2	230
	<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>		
	<u>Protection against termites, ants, etc</u>		
4/2/8	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	230
Carried Forward to Summary of Section No.			R
Section No. 4			
DEMOLITION OF 3 CLASSROOM & RENOVATION OF			
Bill No. 2			
Earthworks			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 1200 G, shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 3 Concrete,Formwork and Reinforcement</p>			R

	Brought Forward		R	
	<p>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".</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>10MPa/19mm concrete</u></p>			
4/3/1	Surface blinding under bases	m3	4	
	Carried Forward		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 3 Concrete, Formwork and Reinforcement</p>			

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MOLESHATLOU SECONDARY SCHOOL**

Brought Forward				R
<u>20MPa/19mm concrete</u>				
4/3/2	Holes	m3	34	
4/3/3	Concrete apron, cast to falls	m3	180	
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30MPa/19mm concrete</u>				
4/3/4	Surface beds	m3	5	
<u>TEST BLOCKS</u>				
<u>Notes:</u>				
Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
4/3/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	61	
<u>SUNDRIES TO CONCRETE</u>				
<u>Surface treatment</u>				
4/3/6	Power float top surface of concrete surface bed to a true and even level finish	m2	180	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Rough formwork to sides</u>				
4/3/7	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	54	
<u>High tensile steel reinforcement</u>				
4/3/8	All diameter bars	t	0.80	
<u>Fabric reinforcement</u>				
4/3/9	Type 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	180	
Carried Forward to Summary of Section No.				R
Section No. 4				
DEMOLITION OF 3 CLASSROOM & RENOVATION OF				
Bill No. 3				
Concrete, Formwork and Reinforcement				

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

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Brought Forward			R
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar</u>		
4/4/1	One brick wall	m2	58
	<u>SUPERSTRUCTURE BRICKWORK</u>		
	<u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u>		
4/4/2	One brick wall	m2	25
	<u>FACE BRICKWORK</u>		
	Bricks shall be ordered timeously to obtain uniformity in size and colour		
	<u>"Corobrick" face bricks (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with recessed 6mm joints in both directions</u>		
4/4/3	Extra over brickwork for face brickwork in superstructure	m2	37
	<u>BRICKWORK SUNDRIES</u>		
	<u>Brickwork reinforcement</u>		
4/4/4	150mm wide reinforcement built in horizontally.	m	38
Carried Forward to Summary of Section No.			
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 4 Masonry			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>WATERPROOFING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>DAMP PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></p>			
4/5/1	Under surface beds.	m2	180	
	<p><u>PROTECTIVE ROOFING PAINT</u></p> <p><u>Two coats bituminous aluminium paint</u></p>			
4/5/2	On roofs	m2	293	
	<p>Carried Forward to Summary of Section No.</p>			
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 5 Waterproofing</p>			
				R

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No.1, shall equally apply to this Bill.			
	<u>ROOF SHEETING</u>			
	<u>Similar Approved</u>			
	<u>0.6mm thick "Brownbuilt Klip-lok light Industrial" galvanised troughed roof sheeting with "Chromadek - Traffic Green" finish on one side, and 0.6mm galvanised steel accessories fixed to timber purlins or rails fixed in strict accordance to the manufacturer's instructions and fixed by an approved erector. A written and approved five (5) year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer</u>			
4/6/1	Roof sheeting pitch not exceeding 25 degrees	m2	2 392	
4/6/2	550mm girth ridge capping, 3 times bent and notched on site to suit roof profile	m	162	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Similar Approved</u>			
	Carried Forward			R
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 6 Roof Coverings			

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	Brought Forward			R	
4/6/3	<p><u>Sisalation "Bubble Foil" aluminium foil banded insulation</u></p> <p>135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories</p>	m2	2 393		
	Carried Forward to Summary of Section No.			R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 6 Roof Coverings</p>				

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 7 Carpentry and Joinery</p>			R

	Brought Forward		R
<p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p><u>ROOFS, ETC</u></p> <p><u>Similar Approved</u></p> <p><u>Roof trusses</u></p> <p>4/7/1 Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)</p>	m2	1 754	
	Carried Forward		R
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 7 Carpentry and Joinery</p>			

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Brought Forward			R
<u>"Everite FC77" fascia and barge boards</u>			
4/7/2	15 x 225mm pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per Architect's specification	m	738
4/7/3	15 x 225mm pressed fibre cement barge boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per Architect's specification	m	146
<u>DOORS ETC</u>			
<u>44mm thick solid R&F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u>			
4/7/4	813 x 2032mm single door	No	32
4/7/5	914 x 2032mm single door	No	36
Carried Forward to Summary of Section No.			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 7 Carpentry and Joinery			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 8</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Fixing</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			R

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Brought Forward				R
	<p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Suspension systems</u></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>Similar Approved</u></p> <p><u>6mm "Everite Nutec" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></p>			
4/8/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	1 754	
4/8/2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	15	
	<p><u>CORNICES</u></p> <p><u>Similar Approved</u></p> <p><u>"Rhino" plasterboard cornice</u></p>			
4/8/3	75mm Coved cornice, plugged to brickwork	m	760	
	<p><u>CEILING INSULATION</u></p>			
	Carried Forward			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			

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	Brought Forward			R
4/8/4	<p><u>Insulation</u></p> <p>125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.</p>	m2	1 754	
	Carried Forward to Summary of Section No.			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 8 Ceilings,Partitions and Access Flooring</p>			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>IRONMONGERY</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.</p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p>			
	Carried Forward			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 9 Ironmongery</p>			

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Brought Forward			R
<p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:</p> <p>AB Anodised bronze ABL Anodised black AG Anodised gold AN Anodised natural AS Anodised silver BS Satin bronze lacquered CH Chromium plated GE Grey enamelled NP Nickel plated PB Polished brass PL Polished and lacquered PT Epoxy coated SC Satin chromium plated SD Sanded SE Silver enamelled SN Satin nickel SS Stainless steel</p> <p><u>Rates</u></p> <p>The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.</p> <p><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></p> <p><u>Pinning board consisting of pinning material/carpet surface laminated to a soft board core, complete with beading all around with a natural anodised aluminium channel surround, and surround mitred at the corners</u></p>			
4/9/1	<p>2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations</p>	No	32
<p><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></p>			
4/9/2	<p>2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations</p>	No	28
Carried Forward			R
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 9 Ironmongery</p>			

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Brought Forward			R
<u>DOOR FURNITURE</u>			
<u>Similar Approved</u>			
<u>Handles</u>			
4/9/3	SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300)	No	7
<u>Locks</u>			
4/9/4	SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)	No	7
4/9/5	SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)	No	24
4/9/6	SC 150mm Cabin hook (Code: CH 150)	No	17
<u>Kick and push plates</u>			
4/9/7	SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)	No	48
4/9/8	SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300)	No	7
<u>Panic hardware</u>			
4/9/9	Three point locking panic bar for single door (Code: PHA3/S DD)	Sets	17
4/9/10	Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)	No	17
<u>Door closers</u>			
4/9/11	Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B)	No	7
<u>Sundries</u>			
4/9/12	Male / Female fixing screws (Qty 4 per pack)	Sets	7
Carried Forward			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 9 Ironmongery			

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	Brought Forward			R
4/9/13	NP floor mounted Door stop (Code: DDS-NP-018)	No	7	
	<u>WINDOW FURNITURE</u>			
	<u>Similar Approved</u>			
4/9/14	Brass spring catch	No	15	
4/9/15	Brass peg stay	No	150	
4/9/16	Brass handle	No	150	
Carried Forward to Summary of Section No.				
Section No. 4				
DEMOLITION OF 3 CLASSROOM & RENOVATION OF				
Bill No. 9				
Ironmongery				

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MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>METALWORK</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></p> <p>All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.</p> <p><u>Ironmongery</u></p> <p>All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p>			
	Carried Forward		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 10 Metalwork</p>			

<p style="text-align: center;">Brought Forward</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><u>Installation</u></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 10 Metalwork</p>			R	

<p style="text-align: center;">Brought Forward</p> <p><u>Fixing:</u></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p> <p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p>			R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 10 Metalwork</p>			R	

Brought Forward			R
<u>WELDED SCREENS, GATES, ETC.</u>			
<u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 12 x 12mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's specifications</u>			
4/10/1	Steel gate to door, size 914mm x 2032mm high	No	14
4/10/2	Steel gate to door, size 1500 x 2032mm high	No	4
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
4/10/3	914 x 2032mm single door	No	20
<u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>			
4/10/4	813 x 2032mm single door	No	32
4/10/5	914 x 2032mm single door	No	16
<u>CEILING MESH</u>			
<u>304/VEM 320G expanded metal mesh size 1200mm x 2400mm manufactured in accordance with SANS 190-1:1983 fixed to 76 x 50mm timber purlins using 40x 0.5mm hat channels @ 400mm centres with 12 x 20mm tac screws.</u>			
4/10/6	In Ceiling voids	m2	380
Carried Forward to Summary of Section No.			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 10 Metalwork			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 11</u></p> <p><u>PLASTERING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>SCREEDS</u></p> <p><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></p>			
4/11/1	30mm thick on floors and landings	m2	905	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 11 Plastering</p>			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 12</u></p> <p><u>TILING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><u>Fixing</u></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p> <p><u>Wastage</u></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 12 Tiling</p>			R

**LIMPOPO DEPARTMENT OF EDUCATION
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Brought Forward			R
<u>Note</u>			
All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.			
<u>FLOOR TILING</u>			
<u>420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementitious grout</u>			
4/12/1	On floors	m2	1 273
4/12/2	75mm high skirting	m	1 307
<u>ATTIC STOCK</u>			
4/12/3	420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	127
<u>SUNDRIES</u>			
<u>10mm aluminium straight edge trim</u>			
4/12/4	Dividing strip between tiles and door frames	m	14
<u>25 x 25mm aluminium angle</u>			
4/12/5	Trim to edge of concrete, to be secured with screws	m	18
Carried Forward to Summary of Section No.			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 12 Tiling			

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p> <p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p> <p>Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.</p> <p><u>Laying, backfilling, bedding, etc., of pipes:</u></p> <p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions</p>			
	Carried Forward		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage</p>			

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Brought Forward			R
<u>GENERAL NOTES TO TENDERERS</u>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<u>RAINWATER GOODS</u>			
<u>Similar Approved</u>			
<u>Gutters</u>			
4/13/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	238
4/13/2	Extra over eaves gutter for outlet	No	28
<u>Rainwater downpipes</u>			
4/13/3	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	126
4/13/4	Extra over rainwater pipe for offset	No	56
4/13/5	Extra over rainwater pipe for shoe	No	28
4/13/6	Extra over rainwater pipe for bend	No	42
<u>SANITARY FITTINGS</u>			
Refer to sanitary schedule drawing for full description of abbreviations			
<u>WASH HAND BASINS</u>			
<u>Similar Approved</u>			
<u>Vaal Sanitaryware "Hibiscus" vitreous china basin with three semi-punched holes tap holes, including integrated overflow, including chain stay hole through the centre semi-punched tap hole, supplied with plug and chain, hung to walls (PC allowance of R450.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>			
4/13/7	WHB, installed complete	No	2
<u>WATER CLOSET</u>			
<u>Similar Approved</u>			
Carried Forward			R
Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage			

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Brought Forward			R
	<p><u>Vaal Sanitaryware "Daisy" semi-close coupled water closet comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cistern complete with lid, fitments and flush pipe elbow (PC allowance of R2 800.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></p>		
4/13/8	WC, installed complete	No	2
	<p><u>TOILET ROLL HOLDER</u></p> <p><u>To be approved by Architect</u></p>		
4/13/9	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	2
	<p><u>TAPS, VALVES, ETC</u></p> <p><u>Similar Approved</u></p>		
4/13/10	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	14
	<p><u>TANKS</u></p> <p><u>Similar Approved</u></p>		
4/13/11	1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere)	No	14
	<p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions</p> <p><u>FIRE FIGHTING EQUIPMENT</u></p> <p><u>Extinguishers including initial charge and setting up in position:</u></p>		
4/13/12	9kg dry chemical powder fire extinguisher	No	17
4/13/13	Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	7
	<p><u>TESTING</u></p>		
4/13/14	Testing water pipe system		Item
Carried Forward			R
<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage</p>			

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MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward		R	
4/13/15	<p><u>BUDGETARY ALLOWANCE</u></p> <p>Allow an amount of R25 076.16 (Twenty Five Thousand and Seventy Six and Sixteen) for the supply and installation of Sanitary Fitting Sundries</p>	Item		25 076.16
	Carried Forward to Summary of Section No.		R	
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 13 Plumbing and Drainage</p>			

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MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>PREAMBLES</u>			
	NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
	<u>GENERAL NOTES TO TENDERERS</u>			
	General notes, described in Bill No. 1, shall equally apply to this Bill.			
	<u>Note:</u>			
	All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400			
	<u>GLASS TO STEEL WITH PUTTY</u>			
	<u>5mm clear floated glass fixed glazing putty</u>			
4/14/1	Panes not exceeding 0.1m2	m2	311	
4/14/2	Panes exceeding 0.1m2 and not exceeding 0.5m2	m2	2	
4/14/3	Panes exceeding 0.5m2 and not exceeding 2.0m2	m2	2	
	<u>TOPS, SHELVES, DOORS, MIRROR ETC</u>			
	<u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u>			
4/14/4	Mirror 400 x 600 mm high	No	2	
	Carried Forward to Summary of Section No.			
	Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 14 Glazing			R

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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 15</u></p> <p><u>PAINTWORK</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>PAINTWORK TO PREVIOUS PAINTED</u></p> <p><u>FLOATED PLASTER INTERNAL WALLS</u></p> <p><u>Prepare and apply one coat merit universal undercoat and two coats super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u></p>			
4/15/1	On walls	m2	4 192	
	<p><u>FIBRE CEMENT</u></p> <p><u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u></p>			
4/15/2	On internal ceilings and cornices	m2	380	
	<p><u>METAL SURFACES</u></p> <p><u>Similar Approved</u></p> <p><u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect</u></p>			
4/15/3	On window frames	m2	630	
4/15/4	On door frames	m2	31	
	Carried Forward			R
	<p>Section No. 4 DEMOLITION OF 3 CLASSROOM & RENOVATION OF Bill No. 15 Paintwork</p>			

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Brought Forward				R
4/15/5	On roof sheeting	m2	382	
4/15/6	On steel columns	m2	34	
<u>BRICKWORK</u>				
<u>Similar Approved</u>				
<u>Three coats brick dressing</u>				
4/15/7	On face brickwork	m2	1 120	
<u>PAINTWORK ETC TO NEW WORK</u>				
<u>FIBRE CEMENT</u>				
<u>Prepare and apply one coat universal undercoat and two coats Super Acrylic PVA paint or similar approved, colour to be confirmed by Architect</u>				
4/15/8	On internal ceilings and cornices	m2	1 820	
4/15/9	Fibre cement fascia/barge boards	m2	469	
<u>METAL SURFACES</u>				
<u>Similar Approved</u>				
<u>Prepare and apply one coat Duraphos, one coat universal under coat and two coats gloss enamel paint, colour to be confirmed by Architect</u>				
4/15/10	On door frames	m2	71	
4/15/11	On gutters	m	238	
4/15/12	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	56	
4/15/13	On downpipes	m	28	
<u>WOOD</u>				
<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect</u>				
4/15/14	On door	m2	84	
Carried Forward to Summary of Section No.				
Section No. 4				R
DEMOLITION OF 3 CLASSROOM & RENOVATION OF				
Bill No. 15				
Paintwork				

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Bill No	SECTION SUMMARY	Page No	Amount
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO. 1</u></p> <p><u>BUDGETARY ALLOWANCES</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	Carried Forward			R
	<p>Section No. 5 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance</p>			

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	Brought Forward		R	
	<p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p> <p><u>General attendance on nominated/selected subcontractors</u></p> <p>The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <p><u>Builder's work</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p> <p><u>LOCAL AUTHORITY FEES</u></p> <p><u>Local authority fees for connections</u></p>			
5/1/1	Provide the sum of R35 000.00 (Thirty Five Thousand) for sewer, water and electrical connections, etc to the local authority	Item		35 000.00
	<p><u>MOBILES ON SITE</u></p> <p><u>Relocation of mobiles</u></p>			
5/1/2	Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles	Item		250 000.00
	<p><u>NUTRITION CENTRE</u></p> <p><u>Earthworks</u></p>			
5/1/3	Provide the sum of R100 000.00 (One Hundred Thousand) for additional earthworks for the Nutrition Centre	Item		100 000.00
	<p><u>Electrical works</u></p>			
5/1/4	Provide the sum of R208 000.00 (Two Hundred and Eight Thousand) for the electrical installation to the Nutrition Centre	Item		208 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 5 PROVISIONAL SUMS Bill No. 1 Budgetary Allowance			

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MOLESHATLOU SECONDARY SCHOOL**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p> <p><u>Profit</u></p> <p>Where stated, the contractor may allow for profit if required</p>			
	Carried Forward		R	
	<p>Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums</p>			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

	Brought Forward		R	
	<u>General attendance on nominated/selected subcontractors</u>			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	<u>Builder's work</u>			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	<u>Signage Installation</u>			
5/2/1	Allow an amount of R25 500.00 (Twenty Five Thousand Five Hundred) for the supply and installation of Signage	Item		25 500.00
5/2/2	Attendance		%	
5/2/3	Profit		%	
	<u>Joinery Fittings</u>			
5/2/4	Allow an amount of R378 065.00 (Three Hundred and Seventy Eight Thousand and Sixty Five) for the supply and installation of Joinery Fittings	Item		378 065.00
5/2/5	Attendance		%	
5/2/6	Profit		%	
	<u>School Furniture and Fittings</u>			
5/2/7	Allow an amount of R2 865 000.00 (Two Million Eight Hundred and Sixty Five Thousand) for the supply and installation of School Furniture and Fittings	Item		2 865 000.00
5/2/8	Attendance		%	
5/2/9	Profit		%	
	Carried Forward		R	
	Section No. 5 PROVISIONAL SUMS Bill No. 2 Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Brought Forward			R
<u>Decanting Allowance</u>			
5/2/10	Allow an amount of R2 397 150.00 (Two Million Three Hundred and Ninety Seven Thousand One Hundred and Fifty) for provision of decanting	Item	2 397 150.00
5/2/11	Attendance		%
5/2/12	Profit		%
<u>Community Liaison Officer</u>			
5/2/13	Allow an amount of R180 000.00 (One Hundred and Eighty Thousand) for provision of Community Liaison Officer	Item	180 000.00
5/2/14	Attendance		%
5/2/15	Profit		%
<u>Project Steering Committee</u>			
5/2/16	Allow an amount of R36 000.00 (Thirty Six Thousand) for provision of Project Steering Committee	Item	36 000.00
5/2/17	Attendance		%
5/2/18	Profit		%
<u>Health and Safety Agent</u>			
5/2/19	Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of Health and Safety Agent	Item	500 000.00
5/2/20	Attendance		%
5/2/21	Profit		%
Carried Forward to Summary of Section No.			R
Section No. 5			
PROVISIONAL SUMS			
Bill No. 2			
Provisional Sums			

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

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

ELECTRICAL INSTALLATION

MV Reticulation

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

ELECTRICAL INSTALLATION

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	<p><u>Excavation and Trenching</u></p> <p>General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services</p> <p>Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks.</p>				
1,1	Excavation and backfilling in soft soil	m ³	108		
1.2.	Excavation and backfilling in hard rock-supply cable	m ³	54		
2	<p><u>Cable and Data Sleeves</u></p> <p>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends</p>				
2,1	110mm Diameter for power cable	m	200		
	<u>Radius bends:</u>				
2,3	110mm Diameter	No	20		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
3	Kiosk Supply and install kiosk as per drawings, complete with breakers				
3,1	Main Kiosk	each	1		
4	<u>Low Voltage PVC Cables</u> Supply and installation of PVC SWA PVC cable and Bare Copper Earth Wire in sleeves and in trenches				
4,1	16mm ² 4 core PVC SWA Cable	m	300		
4,2	16mm ² 2 core PVC SWA Cable	m	800		
4,3	16mm ² BCEW	m	1100		
5	<u>Treminations:</u>				
5,1	16mm ² 4 core PVC SWA Cable	No	2		
5,2	16mm ² 2 core PVC SWA Cable	No	10		
5,3	16mm ² BCEW	No	20		
6	<u>Electrical Tests</u> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
6,1	Kiosks	Sum	1		
7	<u>Others</u>				
7,1	Concrete cable markers	each	20		
7,2	Danger Tape	m	1100		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 1 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
2	<u>Draw Wires</u> Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
2,1					
3	<u>Distribution Boards</u> Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm ² for lights circuits	m	500		
6,2	4mm ² for plug sockets circuits	m	250		
7	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm ²	m	250		
7,2	4mm ²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
11	<u>Electrical Tests</u> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm ² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 2 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
2	<u>Draw Wires</u> Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
2,1					
3	<u>Distribution Boards</u> Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm ² for lights circuits	m	500		
6,2	4mm ² for plug sockets circuits	m	250		
7	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm ²	m	250		
7,2	4mm ²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm ² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 3 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
2	<p><u>Draw Wires</u></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><u>Distribution Boards</u></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm ² for lights circuits	m	500		
6,2	4mm ² for plug sockets circuits	m	250		
7	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm ²	m	250		
7,2	4mm ²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm ² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 4 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
2	<p><u>Draw Wires</u></p> <p>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation</p>	m	100		
3	<p><u>Distribution Boards</u></p> <p>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards</p>				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm ² for lights circuits	m	500		
6,2	4mm ² for plug sockets circuits	m	250		
7	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm ²	m	250		
7,2	4mm ²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm ² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

3 Classroom Block 5 Renovations

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	0		Rate Only
1,2	110mm Diameter for power cable	m	10		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	0		Rate Only
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
2	<u>Draw Wires</u> Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	100		
2,1					
3	<u>Distribution Boards</u> Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized internal PVC wiring, labelling and legend cards				
3,1	SU 1 Distribution board	No	1		
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
3,2	20mm PVC Conduit	m	300		
3,3	25mm PVC Conduit	m	200		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
3,4	20mm PVC Conduit	m	200		
3,5	25mm PVC Conduit	m	100		
4	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
4,1	20mm diameter 4 way type(round box)	No	30		
5	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
5,1	100 x 50 x 50mm	No	8		
5,2	100 x 100 x 50mm	No	12		
6	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
6,1	2.5mm ² for lights circuits	m	500		
6,2	4mm ² for plug sockets circuits	m	250		
7	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
7,1	2.5mm ²	m	250		
7,2	4mm ²	m	125		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
8	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting measured elsewhere.				
8,1	1 Lever 1 way	No	8		
9	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
9,1	16A 3 pin single socket outlets	No	0		
9,2	16A SA/Euro combined socket outlet	No	6		
10	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
10,1	Ceiling mounted fitting 1x18W CFL - Interior	No	8		
10,2	Wall mounted Bulkhead 1 x 18W PL CFL	No	4		
10,3	1500mm Open channel Fluorescent fitting 2x49W	No	14		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
11	<u>Electrical Tests</u>				
	Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
11,1	Building installation	Sum	1		
12	<u>Other</u>				
12,1	1,5m earth spike complete with clamps	No	4		
12,2	35mm ² Bare copper earth wire	m	40		
12,3	Testing and installation of installation	Sum	1		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

Administration Block 1

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	400		
3	<u>Distribution Boards</u>				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays,doors,switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3,1	SU 2 Distribution board	No	1		
4	<u>Conduit Work</u>				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
4,1	20mm PVC Conduit	m	700		
4,2	25mm PVC Conduit	m	400		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
5	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
5,1	20mm diameter 4 way type(round box)	No	55		
6	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
7,1	2.5mm ² for lights circuits	m	1500		
7,2	4mm ² for plug sockets circuits	m	800		
7,3	6,0 mm ² for plug sockets circuits	m	350		
8	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
8,1	2.5mm ²	m	750		
8,2	4mm ²	m	400		
8,3	6mm ²	m	175		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
9	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
10,1	16A SA/Euro combined socket outlet	No	8		
11	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	10		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Fluorescent 3x28W LBR	No	20		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	1x18W CFL circular downlighters	No	10		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
12	<u>Electrical Tests</u> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	<u>Others</u>				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	<u>Lightning Protection</u>				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm ² Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	<u>Provisional Sum</u>				
15.1.1	Internet WI-FI	Prov Sum	1		
	Overhead, charges and profit on item 15.1.1	%	0		
15.1.2	Public Address	Prov Sum	1		
	Overhead, charges and profit on item 15.1.2	%	0		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

LIMPOPO: DEPARTMENT OF EDUCATION

ELECTRICAL INSTALLATION

Internal Installation

Administration Block 2

Item	Description	Unit	Quantity	Rate	Amount
1	<u>Cable and Data Sleeves</u> Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends				
1,1	75mm Diameter for Data	m	15		
1,2	110mm Diameter for power cable	m	15		
	<u>Radius bends:</u>				
1,3	75mm Diameter	No	2		
1,4	110mm Diameter	No	2		
Sub Total Carried Forward					

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
2	<u>Draw Wires</u>				
2,1	Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation	m	400		
3	<u>Distribution Boards</u>				
	Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna				
3,1	SU 2 Distribution board	No	1		
4	<u>Conduit Work</u>				
	Supply, delivery and installation of SABS approved PVC Conduits completed with all required conduit accessories.				
	<u>Built or Chase into brick or concrete work:</u>				
4,1	20mm PVC Conduit	m	700		
4,2	25mm PVC Conduit	m	400		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
	<u>In Ceiling space and Tinber work:</u>				
4,3	20mm PVC Conduit	m	300		
4,4	25mm PVC Conduit	m	200		
5	<u>Conduit Boxes</u>				
	Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories.				
5,1	20mm diameter 4 way type(round box)	No	55		
6	<u>Wall Boxes</u>				
	Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.				
	<u>Flush mounted type:</u>				
6,1	100 x 50 x 50mm	No	8		
6,2	100 x 100 x 50mm	No	24		
7	<u>PVC Wiring</u>				
	<u>PVC Wiring in conduits:</u>				
7,1	2.5mm ² for lights circuits	m	1500		
7,2	4mm ² for plug sockets circuits	m	800		
7,3	6,0 mm ² for plug sockets circuits	m	350		
8	<u>Stranded Bare Copper Earth Wire</u>				
	Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.				
8,1	2.5mm ²	m	750		
8,2	4mm ²	m	400		
8,3	6mm ²	m	175		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
	Sub Total Brought Forward				
9	<u>Light Switches</u> Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas				
9,1	1 Lever 1 way	No	8		
9,2	2 Lever 2 way	No	2		
10	<u>Socket Outlets</u> Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface. The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification. All flush type boxes and special pedestals measured elsewhere. <u>Flush switched sockets type:</u>				
10,1	16A SA/Euro combined socket outlet	No	8		
11	<u>Light Fittings</u> Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. Fittings to be equal and similar approved to the below quoted manufacture.				
11,1	Ceiling mounted fitting 2x18W CFL - Interior	No	2		
11,2	Wall mounted Bulkhead 2 x 18W PL CFL	No	10		
11,3	1200mm Open channel Fluorescent fitting 2x49W	No	2		
11,4	1200x600 Recessed Fluorescent 3x28W LBR	No	20		
11,5	1200mm Open channel Fluorescent fitting 2x28W	No	2		
11,6	1x18W CFL circular downlighters	No	10		
	Sub Total Carried Forward				

Item	Description	Unit	Quantity	Rate	Amount
Sub Total Brought Forward					
12	<u>Electrical Tests</u> Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.				
12,1	Building installation	Sum	1		
13	<u>Others</u>				
13,1	300 x 300mm - Telephone DB	No	1		
13,2	100 x 100 x 50mm - Draw box for Communication complete with blank cover	No	1		
13,2	Power Skirting 2 compartment c/w divider	m	40		
13,3	Telephone points	No	8		
13,4	Data points	No	8		
13,5	20A Isolator	No	4		
13,6	30A Isolator points	No	2		
13,7	40A Isolator points	No	2		
14	<u>Lightning Protection</u>				
14,1	1,5m earth spike complete with clamps	No	4		
14,2	35mm ² Bare copper earth wire	m	40		
14,3	Testing and installation of installation	Sum	1		
15	<u>Provisional Sum</u>				
15.1.1	Internet WI-FI	Prov Sum	1		
	Overhead, charges and profit on item 15.1.1	%	0		
15.1.2	Public Address	Prov Sum	1		
	Overhead, charges and profit on item 15.1.2	%	0		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION

PUBLIC ADDRESS

Internal Installation

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

ELECTRICAL INSTALLATION

Area Lighting

Item	Description	Unit	Quantity	Rate	Amount
1	Public Lighting				
1,1	1 x 57W CFL Post top fitting with electronic gear. To be approved by the Engineer.	No.	25		
1,2	3m galvanised steel poles	No.	25		
1,3	Excavation and backfilling in soft soil	m ³	3,6		
1,4	Excavation and backfilling in hard rock	m ³	18		
1,5	6mm ² 4 core PVC SWA Cable	m	600		
1,6	6mm ² BCEW	m	600		
	<u>Terminations:</u>				
1,8	6mm ² 4 core PVC SWA Cable	No	25		
1,9	6mm ² BCEW	No	25		
1,10	Electrical Danger tape	m	300		
Total for internal installation Carried to Summary of Cost (Excl.VAT)					

ELECTRICAL INSTALLATION**HVAC**

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	HVAC Provide the sum of R 217 391,30 for Installation of HVAC Contractors Markup Contractors Attendance	Item	2		
Total for installation Carried to Summary of Cost (Excl.VAT)					R 0,00

ELECTRICAL INSTALLATION

ICT

Internal Installation

Item	Description	Unit	Quantity	Rate	Amount
1	<p>ICT</p> <p>Provide the sum of R 288 968,40 for Installation of ICT and related accessories in the administration block</p> <p>Contractors Markup</p> <p>Contractors Attendance</p>	<p>Item</p> <p>Item</p> <p>Item</p>	2		
Total for installation Carried to Summary of Cost (Excl.VAT)					

MOLESHATLOU SECONDARY SCHOOL

ITEM	DESCRIPTION	AMOUNT
1	MV Reticulation	
2	LV Reticulation	
3	3 Classroom Block 1 Renovations	
4	3 Classroom Block 2 Renovations	
5	3 Classroom Block 3 Renovations	
6	3 Classroom Block 4 Renovations	
7	3 Classroom Block 5 Renovations	
8	Administration Block 1 Renovations	
9	Administration Block 1 Renovations	
10	Public Address	
11	Area Lighting	
12	HVAC	
13	ICT	
	TOTAL CARRIED TO FINAL SUMMARY	

Item No.	Payment Refers	Short Description	Unit	Quantity	Rate	Amount
2	SABS 1200A	SCHEDULE 1 - STEEL PALISADE FENCING				
2.1	PCC-4.1	Steel palisade fencingn 2,4m high according to specification including excavations, foundation concreting, posts, pales and ground beams. All as per drawing.	m	520.00		
2.2	PCC-4.1	Supply and install according to specification a 6m wide vehicular gate	No	1.00		
2.3	PCC-4.1	Supply and install according to specification 1.5m wide pedestrian gate as per drawing	No	1.00		
2.4	PCC-4.1	Repainting of the existing fence	m ²	0.00		
SUB - TOTAL CARRIED TO SUMMARY						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
		SCHEDULE 2 : WATER SUPPLY PIPELINES AND WATER SOURCE				
3.1	SABS 1200DB	EARTHWORKS : PIPE TRENCHES				
		SITE CLEARANCE				
3.1.1	8.3.1(a)	Clear 2m wide vegetation and trees of girth up to 1m	m	110.00		
3.1.2	8.3.1(b)	Remove trees over 1 m and up to 2 m girth	No.	0.00		
3.2	PSDB12	EXCAVATION				
3.2.1		Excavate in all materials for trenches for pipes with a diameter between 20 mm and 100 mm, backfill compact and dispose of surplus/unsuitable material Up to 1,5m in depth	m ³	110.00		
3.2.1.1	8.3.2(b)	Extra-over item 3.2.1 incl. for excavation (provisional) in :				
		a) Intermediate material	m ³	22.00		
		b) Hard rock material	m ³	16.50		
3.2.1.2		Extra over Item 3.2.1				
		a) Backfill and compact by means of labour intensive construction methods in layers of 200mm compacted to 90% mod AASHTO	m ³	110.00		
3.2.2		EXCAVATION ANCILLARIES				
3.2.2.1	8.3.3.1(a)	Imported backfill materials from designated borrow pits (Only if approved by Engineer)	m ³	38.50		
3.2.2.2	8.3.3.2	Opening up and closing down of designated borrow pit	P.Sum	1.00		
3.2.2.3	8.3.3.3	Compaction in road reserves	m ³	0.00		
3.2.2.4	8.3.3.4	Overhaul :				
		a) Short haul	m ³	-		
		b) Truck haul	m ³ /km	-		
3.2.4	SABS1200 LB	PROVISION OF BEDDING (PIPES)				
3.2.4.1	8.2.1	Provision of bedding material from trench excavations				
		a) Selected granular material	m ³	16.50		
		b) Selected fill material	m ³	38.50		
3.2.4.2		Provision of bedding material by importation from other necessary excavations (freehaul within the village boundaries)				
		a) Selected granular material	m ³	19.80		
		b) Selected fill material	m ³	46.20		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.4.4	8.2.3	Concrete bedding	m ³	5.00		
3.2.4.5	8.2.4	Encasing of pipes in Class 19/20 concrete	m ³	5.00		
3.2.4.6	8.2.5	Overhaul of material for bedding cradle and selected fill blanket	m ² km	0.00		
3.2.5	1200L	PIPEWORK				
	8.2.1	Supply, lay, joint, bed, test and disinfect the following pipes complete with couplings and fittings to the relevant SABS standards including short lengths (all uPVC pipes to comply with DWS1160)				
3.2.5.1		uPVC pipes				
		a) 75 Class 12	m	-		
		b) 75 Class 9	m	-		
3.2.5.2		HDPE pipes Type IV				
		a) 20 mm class 6	m	60.00		
		b) 50 mm class 6	m	30.00		
		c) 75 mm class 10	m	20.00		
3.2.5.3		GMS pipes (medium duty)				
		a) 15 mm Ø	m	-		
		b) 20 mm Ø	m	-		
		c) 25 mm Ø	m	-		
3.2.6		VALVES				
3.2.6.1		Line valve assemblies.				
		Extra over item F.6 for supplying, installing, bedding and testing line valve assemblies as per Drawing complete cutting of pipes and couplings included (all valves to comply with DWS 2510)				
		a) 50 mm	No.	4.00		
		b) 75 mm	No.	0.00		
3.2.6.2		Scour valve assemblies				
		Extra over item F.6 for supplying, installing, bedding and testing scour valve assemblies as per Drawing complete. Scour tee, cutting of pipes and couplings included.				
		a) On 50 mm dia main	No.	5.00		
3.2.6.3		Ditto for 40 Ø and smaller pipes as detailed in Drawing for the following diameters				
		a) 25 Ø	No.	-		
		b) 32 Ø	No.	-		
		c) 40 Ø	No.	-		
3.2.6.4		Air valve assemblies				
		Extra over item D.6 for supplying, installing and testing air valve assemblies as per Drawing complete				
		a) On 50 mm and 64 mm Ø main	No.	1.00		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.10		FITTINGS FOR HDPE PIPES				
3.2.11		SUNDRIES				
3.2.11.3		Thrust blocks as per typical details on specification Drawing				
		a) Concrete Class 15/19	m ³	1.00		
		b) Rough formwork	m ²	1.00		
3.2.14		BOREHOLE DEVELOPMENT - (PROVISIONAL)				
		Geohydrological Servies				
		Sitting of drilling sites. Allowance to be made for desk study, site assessment, drilling supervision, testing supervision, and reporting.	No	1.00		
		Borehole Drilling				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site of the drilling batch.	No	1.00		
		Drilling				
		Drilling of 165mm diameter borehole in non-collapsible material.	m	100.00		
		Odex drilling in collapsible material and where ordered by the Geohydrologist of 254mm diameter borehole. Rate to include supply, delivery and installation of at least 6mm sidewall Odex casing.	No	120.00		
		Steel casing (plain), 165 mm (state wall thickness here as 3 mm)	m	35.00		
		Steel casing (slotted), 165 mm (state wall thickness here as 4 mm)	m	0.00		
		Pump testing of borehole.				
		Rate to include the following:installation of pump testing equipment and remove after, calibration testing, 24hr constant testing, recovery measurements, data recording and reporting.	No	1.00		
		Sampling for water quality testing	No	1.00		
		Site finishing				
		Borehole finishing, rate to include borehole disinfection, concrete collar in Grade 20Mpa concrete, normal saintary seal, borehole making.	No	1.00		
		Reporting				
		Complete Geohydrology report signed by a registered personnel	No	1.00		
3.2.15		BOREHOLE REHABILITATION - (PROVISIONAL)				
		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to include inter-borehole moves and de-establishment from site	No	1.00		
		Removal of existing pumphouse	No	1.00		
		Removal of existing pump	No	1.00		
		Positive displacement pump				
		Removal using cable-tool (jumper) drilling rig of columns instalations diameter, 25mm-100mm upto 120m. Rate to include all pipe work and fittings	No	1.00		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.16		Site Establishment/De-establishment				
		Mobilisation and set up of plant to/at first borehole. Rate to including inter-borehole moves and de-estabishment from Site, of the given drilling batch	No	1.00		
		Pump testing of borehole.				
		Rate to include the following:installation of pump testing equipment and remove after, calibration testing, 24hr constant testing, recovery measurements, data recording and reporting.	No	1.00		
		Sampling for water quality testing	No	1.00		
		BOREHOLE PUMPS AND APPURTENANCES				
		NEW BOREHOLE INSTALLATION				
		<i>Supply and commissioning and testing of New Borehole complete with electric wiring and connection and controls. All units are to be made good and neat in accordance to manufactures and Engineers' specification.</i>				
		Submersible pumpsets and fittings				
		Supply and install new submersible pump - Grundfos or similar Quality. All internals of wet-end shall be 316 stainless steel/brass. Electrical motor will be 316 stainless steel. Complete with corrosion protection. <i>Engineer to approve prior to installation.</i> Pump Installation, Head & Flow fas per borehole test report	No	1.00		
		Electric Motor installation, as per pump size requirements determined in item above.	No	1.00		
		Pump Protection				
		Mechanical pressure switch, PN16, Complete with cabling to panel : Limits between 160m and 80m, WIKA PSM-550 or Equivalent	No	1.00		
		Mechanical flow switch, PN16, Complete with cabling to panel	No	1.00		
	Float Switch for Switching off Pump on Low Level, c/w wiring to panel's liquid level control relay.	No	1.00			
	Electric Motor Control Panel					
	Supply and install control panel with all fittings required to operate pumps and motors efficiently, including 0-20 second delay timer and 0-24 hour timer.	No	1.00			
	Pipework					
	<i>Supply and install borehole discharge pipework complete with flow meter, non return and pressure valves on the following pipework.</i>					
	Submersed pipe: Ø 63mm HDPE, Class 12, 7,1mm Wall thickness, SANS 4427, Borehole to Surface	m	110.00			
	Metal Base plate - Double choke	No.	1.00			
	65 NB Schedule 40 pipe discharge Galvanised Steel pipe, Incl Elbows and fittings	m	5.00			
	65 NB Threaded Brass Type Isolation valve, PN10	No.	2.00			
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
3.2.18		65 NB Flanged Non Return Valve,tilted disc type, PN 10	No.	1.00		
		65 NB Flanged Mechanical flow meter, PN 10	No.	1.00		
		M16 galvanized bolts and nuts	No.	96.00		
		65 NB Gaskets, Incl Consumables	No.	24.00		
		Mechanical Pressure Gauge, Wika (100mm dial and filled with glycerine),with a range from 400 kPa to 1600 kPa, complete with ball isolating valve and piping	No.	1.00		
		T-Pieces and Bushes to mount Pressure gauge, Pressure Switch and Flow Switch	No.	3.00		
		Submersible pump steel cage				
		Supply and install borehole discharge pipework complete as per	No	1.00		
		TESTING AND COMMISSIONING				
		Testing and commission borehole installation including pumps, motrs, control system and verify discharge and head characteristics	No	1.00		
		Eletricity Supply				
		Supply material and erect a three phase electricity power line to the new borehole	No	1.00		
		Mark-up on item 4.2.1				
		Supply all material and install a 25kVa transformer	No	1.00		
	WATER TREATMENT (PROVISIONAL)					
	10kl PVC pre-treatment tank	No.	1			
	Supply, installation, connections, testing and handing over in working order of a 20m ³ /hr package water treatment plant	Prov. Sum	1			
	Overheads, charges and profit.	%				
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		WATER STORAGE				
		Water Tanks				
		5 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.	No	1		
		10 000 Litre polyethylene water tank (JoJo make or equiva-lent). Tank complete with 50 x 40 DN nylon bushes sealed into all inlets and outlets. Include for anchorage onto tank stand platform with 4mm diameter galvanized steel wire (bloudraad), 2 Strands/Anchor.	No	2		
		Elevated 4.5m Steel Stand Tankstand Refurbishment including, modification to concrete foundations, pipe work, brackets, surface preparation and re-painting	Sum	3		
		Elevated 4.5m Steel Stand Refurbishment (Provisional) Refurbish existing steel stand - including repainting, rust protection and replacing corroded purlins	P.Sum	1		
		Outlet and overflow Pipe Schedule for items below:	Sum	3		
		a) 1½" to 50mm MALE ELBOW (Plasson)				
		b) 50mm Ø HDPE PIPE CLASS 10	m	3	Included	
		c) 50mm Ø PLASSON ELBOW	No	3	Included	
		d) 50mm Ø MALE ADAPTER (Plasson)	No	3	Included	
		e) 50GMS bend F/F	No	3	Included	
		f) 50mm Ø x 3000 GMS STAND PIPE	No	3	Included	
		g) 50mm Ø BRASS BALL VALVE (COBRA)	No	3	Included	
		h) 50mm Ø GMS NIPPLE	No	3	Included	
		i) 50mm Ø GMS UNION	No	3	Included	
		k) 50mm Ø GMS PIPE 6000 LONG	No	3	Included	
		l) 50mm Ø GMS ELBOW F/F	No	3	Included	
		m) 50mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	3	Included	
		n) 50mm Ø GMS STAND PIPE 700 LONG	No	3	Included	
		o) 50mm Ø GMS SOCKET	No	3	Included	
		p) 50mm Ø GMS STAND PIPE 150mm	No	3	Included	
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		Inlet Pipe Schedule (From Pump)	Sum	3		
		a) 1½ "TO 40mm MALE ELBOW (Plasson)	No	3	Included	
		b) 40mm Ø HDPE PIPE CLASS 10	m	3	Included	
		c) 40mm Ø PLASSON ELBOW	No	3	Included	
		d) 40mm Ø MALE ADAPTER (Plasson)	No	3	Included	
		k) 40mm Ø GMS PIPE 6000 LONG	No	3	Included	
		l) 40mm Ø GMS ELBOW F/F	No	3	Included	
		m) 40mm Ø GMS STAND PIPE 300 LONG (400 long in sandy conditions)	No	3	Included	
		n) 40mm Ø GMS STAND PIPE 700 LONG	No	3	Included	
		o) 40mm Ø Galvanised socket	No	3	Included	
		p) 40mm Ø Galvanised standpipe 150 mm long	No	3	Included	
3.2.7		DRAW-OFFS				
3.2.7.1		Complete supply, install and test single rudimentary domestic drawoff standard type as detailed in Drawing with :				
		i) 2 Taps	No.	6.00		
		ii) 4 Taps	No.	0.00		
3.2.7.3		Complete supply, install and test garden standpipe as detailed in Drawing	No.	1.00		
		DECOMMISSIONING OF OLD SERVICES				
		Removal of old water supply equipment including old tanks, tank stands, and pumps etc.	No	2		
TOTAL CARRIED TO SUMMARY						

Item	Description	Unit	Qty	Rate	Amount
	SCHEDULE 3 : EXTERNAL SEWER RETICULATION				
4.1	EARTHWORKS (PIPE TRENCHES)				
4.1.1	Excavation				
	Excavate in all material for trenches, backfill, compact and dispose of surplus material for pipes over 25mm dia up to 400mm dia for depths:				
	a) Exceeding 0,0m but not more than 1,0m	m ³	50.00		
	b) Exceeding 1,0m but not exceeding 2.0m	m ³	2.50		
4.2	Extra-over all excavations in pickable material irrespective of depth. for excavating in:-				
4.2.1	Intermediate excavation	m ³	10.00		
4.2.2	Hard rock excavation	m ³	7.50		
4.3	Excavation Ancilliaries				
4.3.1	Excavate and dispose of unsuitable material from trench bottom (provisional)	m ³	2.50		
4.3.2	Make deficiency in backfill material (Provisional)				
	a) from other necessary excavation on Site	m ³	2.50		
	b) by importation designated borrow pits	m ³	2.50		
	c) Compaction in platform reserves	m ³	2.50		
4.4	Existing services				
	a) Services that adjoin a trench	m	12.00		
	b) Services that intersect a trench	No	5.00		
Amount Carried Forward					

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
4.5	BEDDING (PIPES)				
4.5.1	Provision of Bedding from Trench Excavation				
	a) Selected granular material	m ³	7.50		
	b) Selected fill material	m ³	21.00		
4.5.2	Supply only of Bedding by Importation From Commercial Sources (provisional)				
	a) Selected granular material	m ³	7.50		
	b) Selected fill material	m ³	21.00		
4.6	SEWERS PIPELINES				
4.6.1	Supply, Lay, Joint and Bed PVC Heavy Duty Class 34 solid wall pipe (conforming to SABS 891), complete with fittings				
	a) 110mm dia	m	50.00		
	b) 150mm diameter	m	-		
	c) 225mm diameter	m	-		
	d) 375mm diameter	m	-		
4.6.2	Extra over items 11.3.1 for specials				
	a) 110mm Access bends	No	12.00		
	b) 110mm Access junctions	No	6.00		
	c) 160mm Bends	No			
	d) 160mm Access bends	No	-		
	e) 160mm Access Junctions	No	-		
Amount Carried Forward					

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
4.7	Sundries				
4.7.1	Breaking into and connecting into existing manhole	No	6.00		
4.8	MANHOLES				
4.8.1	Supply and install manholes & slabs (SABS 1294)				
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 750mm and not exceeding 1m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	1.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1000mm and not exceeding 1250m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	1.00		
4.8.1.1	Precast concrete manholes 1200mm diameter, exceeding 1250mm and not exceeding 1500m deep, complete with precast concrete heavy duty cover and frame TYPE 4A	No	2.00		
4.9	PIPE ANCILLARIES				
4.9.1	Encasing around pipe				
4.9.1.1	Anchor blocks in strength concrete 25Mpa /19mm including all formwork, reinforcement, reinforcement, etc.				
4.9.1.2	Anchor block size 600 x 600mm	No	10.00		
4.10	EXISTING SERVICES				
4.10.1	Connection to existing sewer				
4.10.1.1	200mm Diameter pipe to existing manhole	No	1.00		
4.10.2	Raising or lowering of existing manholes	No	1.00		
4.10.2.1	Remove cover and frame then lower the manhole to required level, complete with all necessary accessories.	No	1.00		
Amount Carried to Forward					

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
4.11	SEPTIC TANK				
4.11.1	Septic tank:				
	Excavate in soft material exceeding 2m deep.	m ³	73.017		
	Extra over septic tank excavations for carting away surplus material from excavations or stock piles to a dumping site to be located by the Contractor.	m ³	10.95		
	Risk of collapse to sides septic tank excavations not exceeding 1,5m deep.	m ²	49.09		
	Earthfilling obtained from the excavations or stock piles compacted to 93% in septic tank.	m ³	10.95		
	Modified AASHTO density tests	No	2		
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	Item	1.5		
	25 MPa Reinforced concrete top slab.	m ³	5.48		
	25 MPa Reinforced concrete base.	m ³	5.48		
	Backfilling to sides of septic tank.	m ³	7.30		
	Type 395 fabric reinforcement in concrete surface beds, floor slabs, etc.	m ²	40		
	Rough formwork to soffit of slab.	m ²	36.51		
	Plaster to vertical surfaces.	m ²	49.09		
	One brick wall in commons including wire ties for septic tank walls.	m ²	6.588		
	Two brick wall in commons including wire ties for septic tank walls.	m ²	49.09		
	Lintels as permanent shutters	m	73.017		
	600 x 600mm Cast iron manhole covers	No	2		
	Pipework				
	Extra over excavation in soft material for pipe trenches, chambers, etc. for excavation in intermediate material.	m ³	35		
	Connecting 110mm uPVC pipe including 110mm channel junction and making good concrete benching.	No	2		
	Connecting 160mm pipe including inserting 160mm channel junction and making good concrete benching.	No	2		
	Allow for testing the complete drainage installation by visual and Air Pressure test to the satisfaction of the Employer. (All defective work to be replaced at the Contractor's expense).	Item	1		
	160mm uPVC slotted drainage pipe laid in and including trench not exceeding 1,00m deep with 500 x 500mm washed 25mm stone casing wrapped in u24 non-woven, spun-bonded, punched continuous polyester fabric, including fill, ram, carting away, etc.	m	35		
Amount Carried to Forward					

Item	Description	Unit	Qty	Rate	Amount
Amount Brought Forward					
	<p>Soakaway: Excavate in earth for and build French drain size as indicated on drawings , fill in with 20mm crushed stone to within 0,2m of top, enclose stone with geofabric u 24 and fill in with earth filling.</p> <p>Extra over soakaway excavations for carting away surplus material from excavations to a dumping site to be located by the Contractor.</p> <p>Risk of collapse to sides of soakaway excavations exceeding 1,5m and not exc. 2m deep.</p> <p>One layer of 250 micron waterproof sheeting and sealed at overlaps with pressure sensitive tape laid over soak away</p> <p>0,6mm IBR sheeting laid across walls.</p> <p>Lintels laid above soakaway</p>	<p>m</p> <p>m³</p> <p>m²</p> <p>m²</p> <p>m²</p> <p>m</p>	<p>35</p> <p>5</p> <p>28</p> <p>35</p> <p>35</p> <p>35</p>		
Amount Carried to Final Summary					

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
	SABS 1200 GB	SCHEDULE 4 : WALKWAYS AND CARPORTS				
5.1		FORMWORK				
5.1.1	8.2.1(b)	Normal formwork to c) Column Foundations	m ³	116.48		
5.2		REINFORCEMENT				
5.2.1	8.2.4	Mild steel bars of nominal diameter				
5.2.1.1		12mm	t	4.66		
5.2.2		High-tensile steel bars of nominal diameter				
5.2.2.1		16mm	t	6.99		
5.2.3		High-tensile welded mesh of nominal mass				
5.2.3.1		a) 3.95 kg/m ²	m ²	0.00		
5.3		CONCRETE				
5.3.1	8.2.5	Strength concrete, Grade 25MPa/19 mm in Column Footings	m ³	11.65		
5.3.2		Blinding layer, Grade 10/19,0 mm	m ³	1.46		
5.3.4	8.2.6	Unformed surface finishes				
5.3.4.1		Wood-float to all floors except	m ²	29.12		
	SABS 1200 AH	SECTION : STRUCTURAL STEELWORK				
5.5	8.3.1	PRELIMINARY AND GENERAL				
5.5.1	8.3.1	SUPPLY AND FABRICATION				
5.5.1.1	8.3.1.1	Preparation of shop detail drawings	Sum	1.00		
5.5.2	8.3.1.2	Supply, delivery and installation of steelwork (see Drawings) complete with all the necessary cleats, brackets, aussets, packs, bolts & nuts etc. as follows :				
		a) Using steel to SABS 1431 Grade 350WA for walkways				
5.5.2.1		Simple Square Tubing - columns (welded)	t	2.62		
5.5.2.2		Square Tubing Beams - beams (welded)	t	0.91		
5.5.2.3		Square Tubing purlins	t	2.65		
5.5.2.4		Unequal Angle rafter bracing	t	3.07		
5.5.2.5		200 x 200 x 6mm Base Plates	No.	148.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	444.00		
		Sika Non-shrink grout or Similar	m ³	1.18		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	592.00		
		b) Using steel to SABS 1431 Grade 350WA for assembly				
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						
		Simple Square Tubing - columns (welded)	t	0.24		
		Square Tubing Beams - beams (welded)	t	0.20		
		Square Tubing purlins	t	0.24		
		Unequal Angle rafter bracing	t	0.24		
		200 x 200 x 6mm Base Plates	No.	12.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	36.00		
		Sika Non-shrink grout or Similar	m ³	0.10		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	48.00		
		c) Using steel to SABS 1431 Grade 350WA for carports				
		Simple Square Tubing - columns (welded)	t	0.81		
		Square Tubing Beams - beams (welded)	t	0.50		
		Square Tubing purlins	t	3.21		
		Unequal Angle rafter bracing	t	2.45		
		Steel Fascia beams	t	1.54		
		200 x 200 x 6mm Base Plates	No.	22.00		
		Fasteners for angles hexhead bolts with washers - Grade 8.8	No.	66.00		
		Sika Non-shrink grout or Similar	m ³	0.18		
		M12 Holding Down Bolts - Grade 8.8 hexhead bolts	No.	88.00		
TOTAL CARRIED FORWARD						

ITEM NO.	PAYMENT REFRES	DESCRIPTION	UNIT	Estimated QTY	RATE	AMOUNT
TOTAL BROUGHT FORWARD						R -
5.5.5	8.3.5	SITE WELDING				
5.5.5.1		Site weld items inclusive	m	54.60		
		CLADDING AND SHEETING				
		ROOF CLADDING				
5.6		Supply, deliver to Site, erect and fix green chromedek sheeting/cladding etc, including the supply of all necessary fasteners etc. and cutting and notching: (See Drawings)	m ²	488.60		
5.6.2	8.2.3	Approved troughed profile-sheeting to roofs, 0,6mm Ridge flashing 450-600mm girth x 1mm - 3 bends, baked enamel external finish	m	5.00		
	8.3.1	GUTTERS AND RAINWATER PIPES				
		Galvanized mild steel				
		3mm Thick box gutter, 100mm girth 6 times bent along length to detail, including straps, stiffeners,etc as per drawing	m	276.00		
		Extra for stopped end	no	6.00		
		Extra for 150mm diameter outlet	no	42.50		
		1mm Thick 150mm diameter rainwater pipe including straps, fixed to steel columns	m	110.50		
		Extra for 45° bend	no	42.50		
	SABS 1200 HC	CORROSION PROTECTION OF STRUCTURAL STEELWORK				
		Steelwork included under Items 1 to 7inclusive, of Section 1200H (Supply, Fabrication and Erection)	t	10.18		
5.7	8.2.1	SURFACE DRESSING AND REPAIRS AT PLACE OF FABRICATION				
		Remove slag and weld spatter, grind welds to smooth profile. radius sharp edges as specified.	t	10.18		
5.7.1	8.2.3	SURFACE PREPARATION AND COATING APPLICATION				
5.7.1.1		Shopwork. Prepare surface and apply coat(s) as specified.	t	10.18		
5.7.2		Sitework. Clean down surfaces, touch up damaged shop coats and apply finish coats as specified	t	10.18		
5.7.2.1		Cold-formed sections				
		Tonnage shall be gross quantities inclusive of unpainted steel (e.g. embedded portions and underside of baseplate,etc.	t	10.18		
TOTAL CARRIED TO SUMMARY						

DEPARTMENT OF EDUCATION : LIMPOPO

IDT STORM DAMAGED SCHOOL: MOLESHATLOU SECONDARY SCHOOL

PRELIMINARY COSTS ESTIMATE FOR CIVIL ENGINEERINGS SERVICES

SUMMARY OF BILL OF QUANTITIES

SCHEDULE 1: STEEL PALISADE FENCE

SCHEDULE 2: WATER SUPPLY PIPELINES AND WATER SOURCE

SCHEDULE 3: EXTERNAL SEWER RETICULATION

SCHEDULE 4: COVERED WALKWAYS

TENDER (CONTRACT) SUM (CIVIL AND STRUCTURAL WORKS)

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES AND GENERAL	1/30	
2	NUTRITION CENTRE	2/42	
3	GUARD HOUSE	3/40	
4	DEMOLITION OF 3 CLASSROOM & RENOVATION OF 17 CLASSROOM, 2 ADMIN & 32 ENVIRO-LOO	4/40	
5	PROVISIONAL SUMS	5/6	
	Sub- Total (PART A - MAIN BUILDING WORKS)		R
	<u>PART B - ELECTRICAL AND MECHANICAL WORK</u>		
	TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)	Item	
	<u>PART C - CIVIL WORK</u>		
	TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)	Item	
	Sub- Total - BUILDING COSTS		R
	<u>CONTINGENCY ALLOWANCE TO THE CONTRACT</u>		
	<u>Contingencies:</u>		
	Allow an amount of R1 200 000.00 (One Million Two Hundred Thousand) for contingency allowance to the contract ,to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item	
	<u>PRICE ADJUSTMENT FOR INFLATION TO THE CONTRACT</u>		
	<u>Inflation:</u>		
	Allow an amount of R1 300 000.00 (One Million Three Hundred Thousand) for price adjustment for inflation.	Item	
	Carried Forward		R

**LIMPOPO DEPARTMENT OF EDUCATION
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT
MOLESHATLOU SECONDARY SCHOOL**

Section No	<u>FINAL SUMMARY</u>	Page No		Amount
	Brought Forward		R	
	Sub- Total Excluding VAT		R	
	Tax		R	
	Carried to Form of Tender		R	

PART C3 SCOPE OF WORKS



PART C3.1: SPECIAL NOTES TO BIDDERS

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

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



PART C3.2: OHS SPECIFICATIONS



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
**PUBLIC WORKS, ROADS
AND INFRASTRUCTURE**

PART C4 SITE INFORMATION



C4.1 DRAWINGS

Moleshatlou Secondary School										Sheet 1 of 1													
Project No.		2020_76								2023.06.23													
Register date of issue:		2023.06.23																					
Distribution:										Date and quantity:													
Client:		LIMPOPO DEP. OF EDUCATION								x													
Civil Engineer:		MUTEO CONSULTANTS																					
Electrical Engineer:		MUTEO CONSULTANTS																					
Fire Consultant:																							
Mechanical Engineer:		MUTEO CONSULTANTS																					
Structural Engineer:		MUTEO CONSULTANTS																					
Project Manager		RUBEN REDDY ARCHITECTS																					
Quantity Surveyor:		PROSERVE CONSULTANTS																					
Wet Services Engineer:		MUTEO CONSULTANTS																					
Transport Engineer																							
Health and Safety Consultant																							
Landscape Architect																							
Contractor																							
Other:																							
Drawing No.		Drawing Description						Size:		Revisions:													
SITE PLAN																							
2020_76 SDP-001		Site development Plan						A0		A													
NUTRITION BLOCK																							
2020_76-NU-001		Ground Floor Plan and Elevations						A1		A													
2020_76-NU-002		Sections & Elevations						A1		A													
2020_76-NU-003		Electrical & Sewer						A1		A													
2020_76-NU-004		Water Reticulation & Fire						A1		A													
2020_76-NU-005		Joinery & Details						A1		A													
2020_76-NU-006		Roof Plan & Ceiling Layout						A1		A													
2020_76-NU-007		Foundation Layout						A1		A													
2020_76-NU-008		Door & Window Schedules						A1		A													
GUARD HOUSE																							
2020_76-GH-001		Ground Floor Plan and Elevations						A1		A													
2020_76-GH-002		Elevations, Sections & Ceiling Plan						A1		A													
2020_76-GH-003		Foundation, Sewer, Electrical, Water and Fire Plans						A1		A													
2020_76-GH-004		Door & Window Schedules						A1		A													
AS-BUILT BLOCKS																							
2020_76-MSR-001		Staff Room Block						A1		A													
2020_76-SAR-001		Small Admin.						A1		A													
2020_76-3CLR-001		3 Classroom Block						A1		A													
2020_76-2CLR-001		2 Classroom Block						A1		A													
2020_76-ENVLR-001		Enviro-Loo Block						A1		A													
PURPOSE OF ISSUE:		TENDER						ISSUED BY:						Signature:									
DATE RECEIVED:								RECEIVED BY:						Signature:									
Key:		Issued in colour - C				Issued by fax - F				Issued via e-mail - E				Issued on a disk - CD									

NOTES :

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
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ISSUED FOR TENDER

SIGNATURE TABLE

DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

REVISIONS
SIZE ON ORIGINAL DRAWING 100 mm



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

INSTITUTION
MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER
920210128

SERVICE
NEW BUILDINGS


CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE ARCHITECTURAL	PROJECT STAGE 4
------------------------------------	---------------------------

WORK DESCRIPTION - SUB DIVISION
NUTRITION BLOCK

DRAWING DESCRIPTION
PLAN AND ELEVATION

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

CONSULTANT :

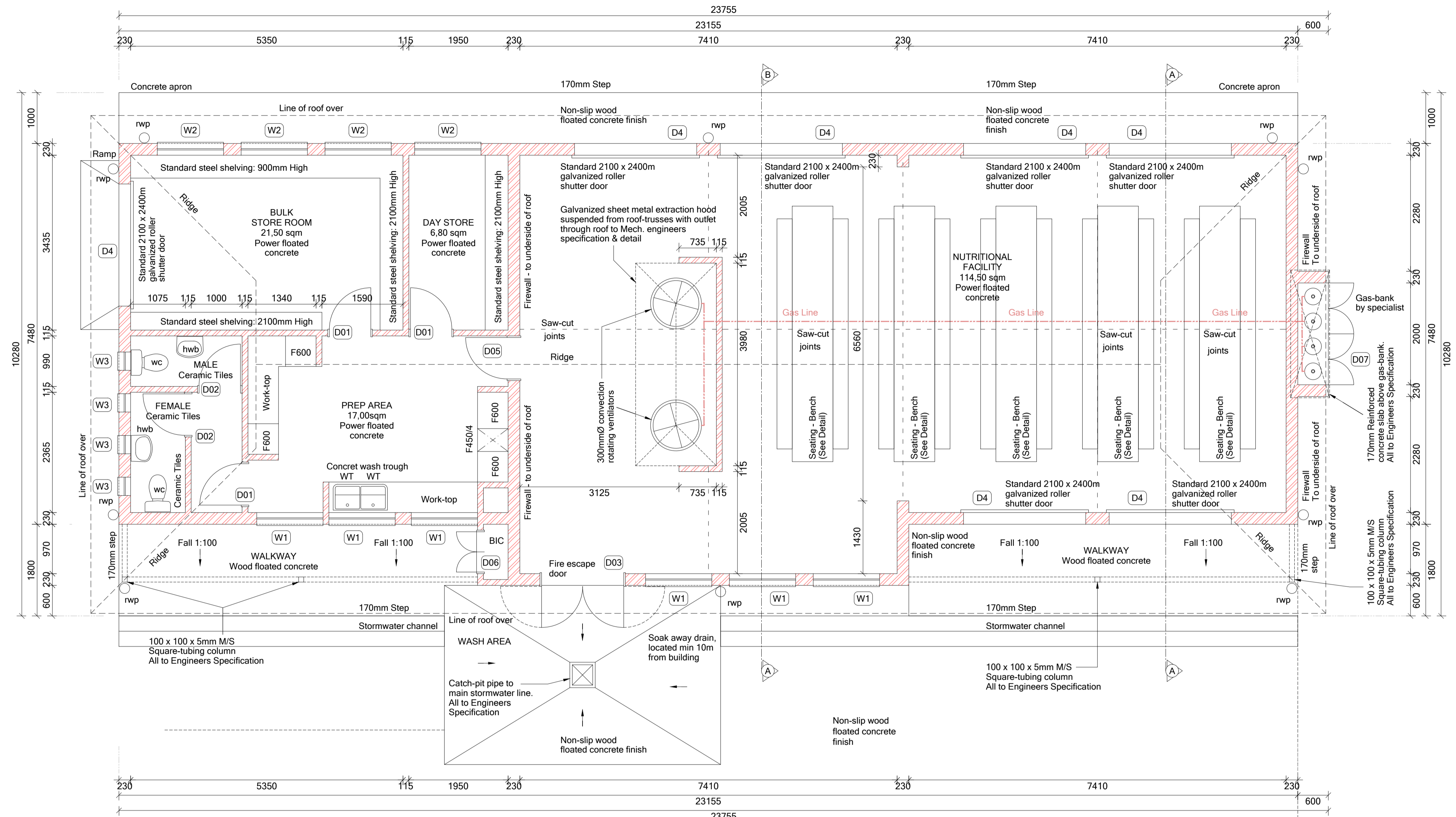


Scale 4 No 8 Service Office Building
6 Harrow Street, Polokwane, 0959 South Africa
Tel: +27 15 065 0845, Fax: +27 11 475 8364
Email: info@rubenreddyarch.co.za
Web: www.rubenreddyarch.co.za

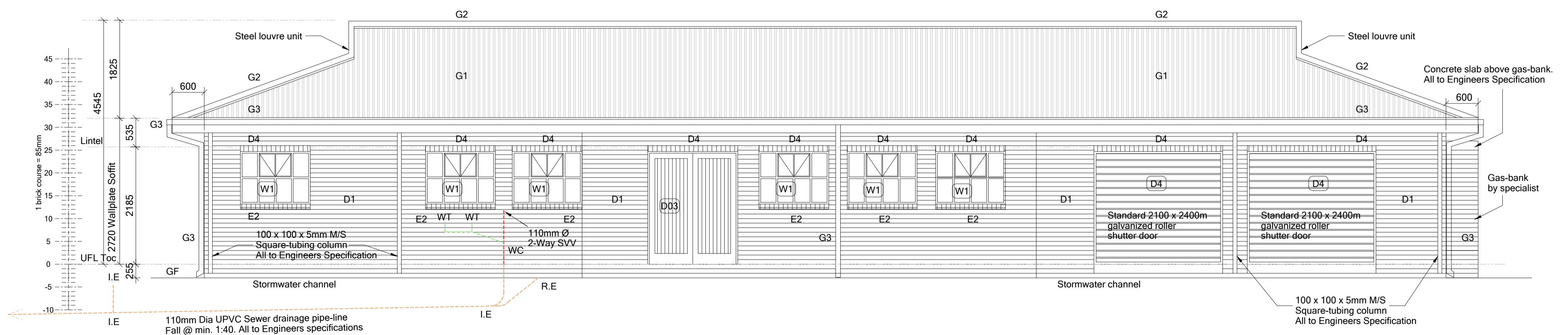
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SIZE	DRAWING NUMBER	REVZ

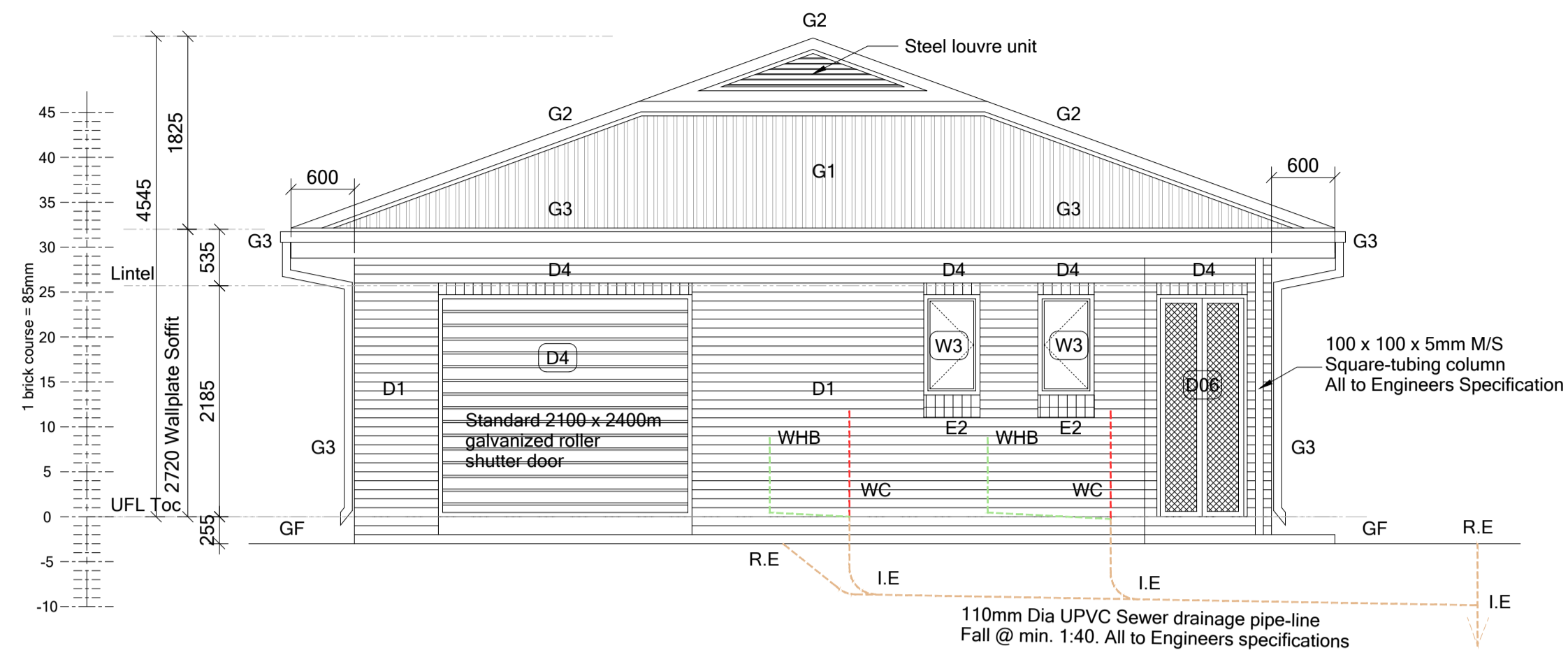
A 1	2020_20-NU-001	A
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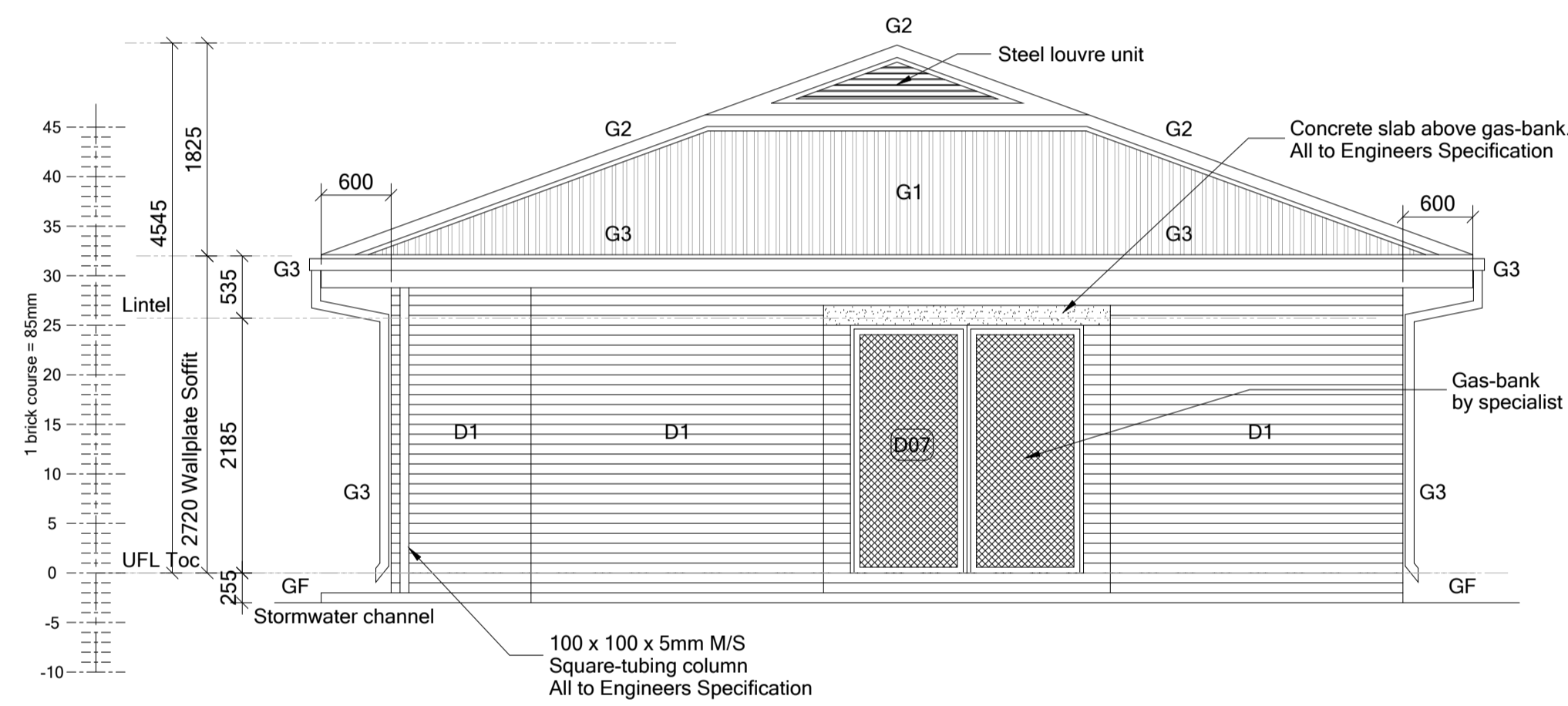
**GROUND FLOOR PLAN
NUTRITION CENTER
Scale 1:50**



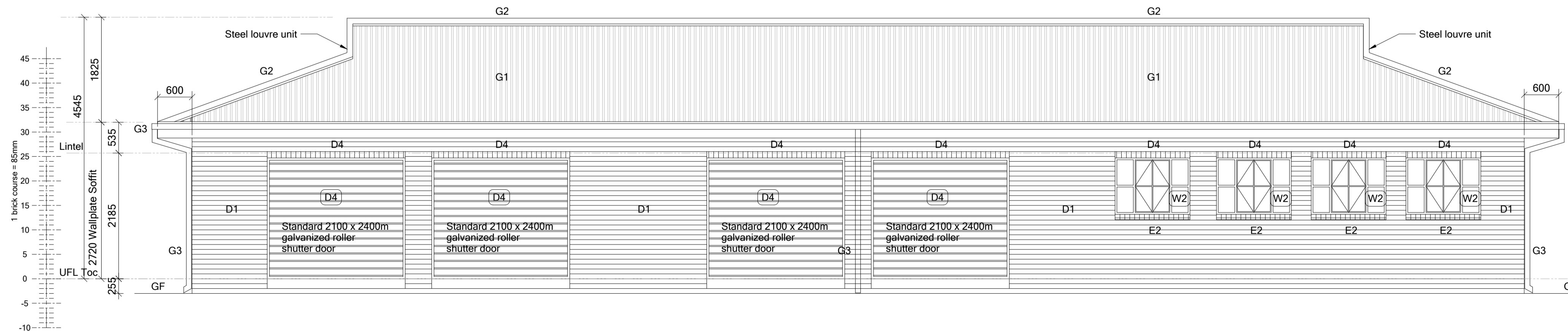
**FRONT ELEVATION
NUTRITION CENTRE
Scale 1:50**



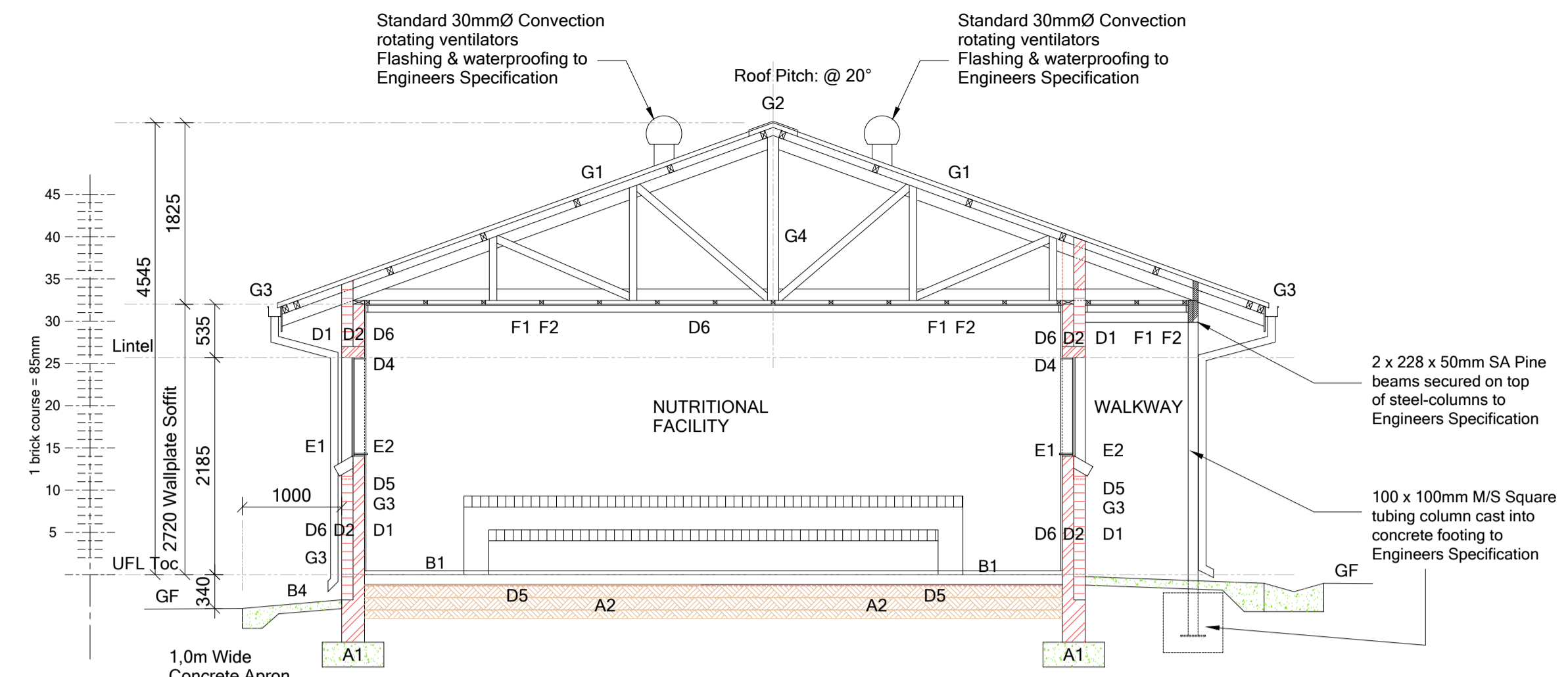
SIDE ELEVATION:
NUTRITION CENTRE
Scale 1:50



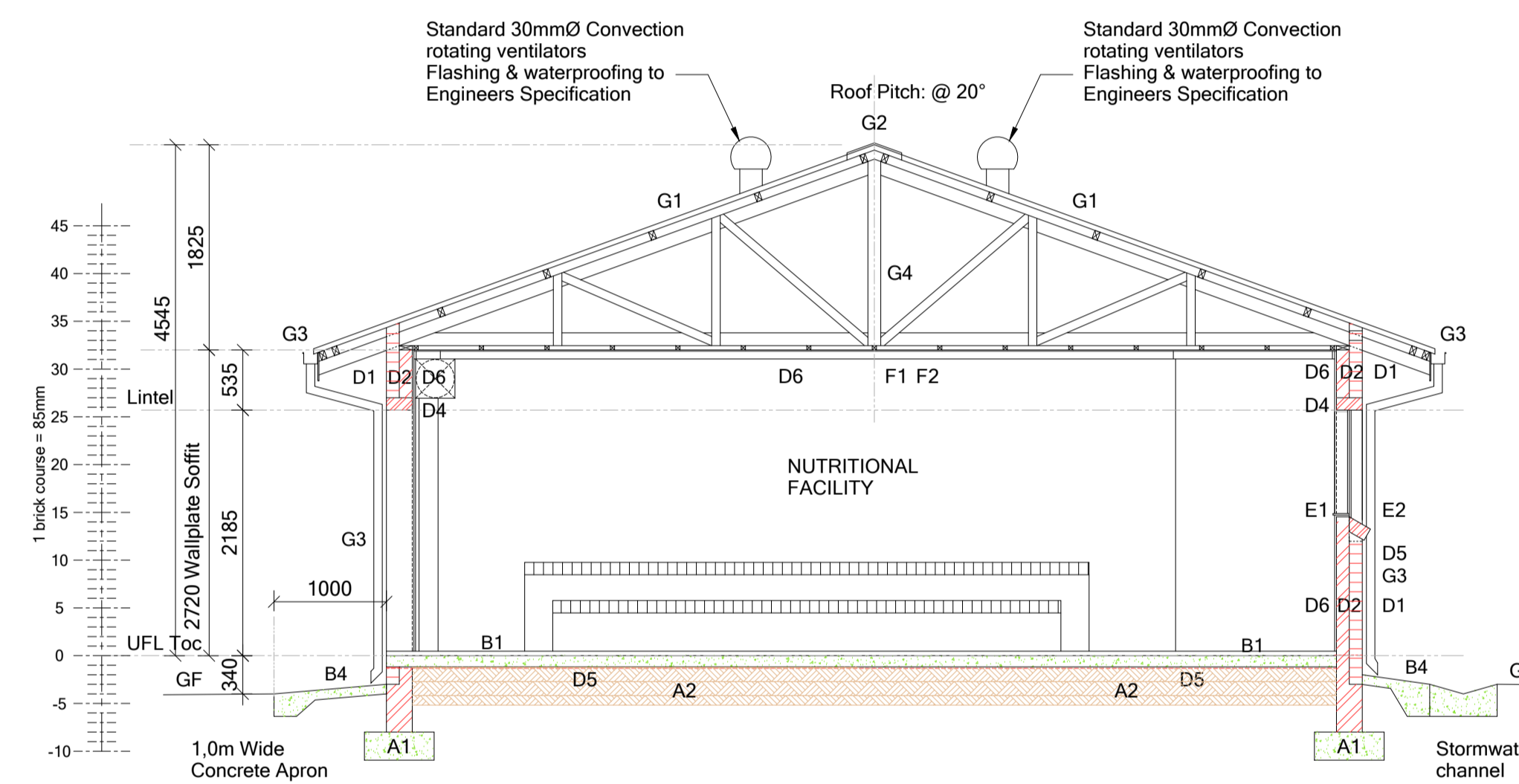
SIDE ELEVATION:
NUTRITION CENTRE
Scale 1:50



REAR ELEVATION:
NUTRITION CENTRE
Scale 1:50



SECTION B-B
Scale 1:50



SECTION A-A
Scale 1:50

NOTES :

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ISSUED FOR TENDER

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ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No DATE DESCRIPTION

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF
EDUCATION

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

NUTRITION BLOCK

DRAWING DESCRIPTION

SECTIONS AND ELEVATIONS

FILE No. ITEM No.

DESIGN DRAWN

SCALE 1:100 CHECKED

DATE RESPONSIBLE PROFESSIONAL NAME SIGNATURE PR NUMBER

2023.06.20 YUSUF VAHED PA7812

DRAWING CO-ORDINATED

CONSULTANT :

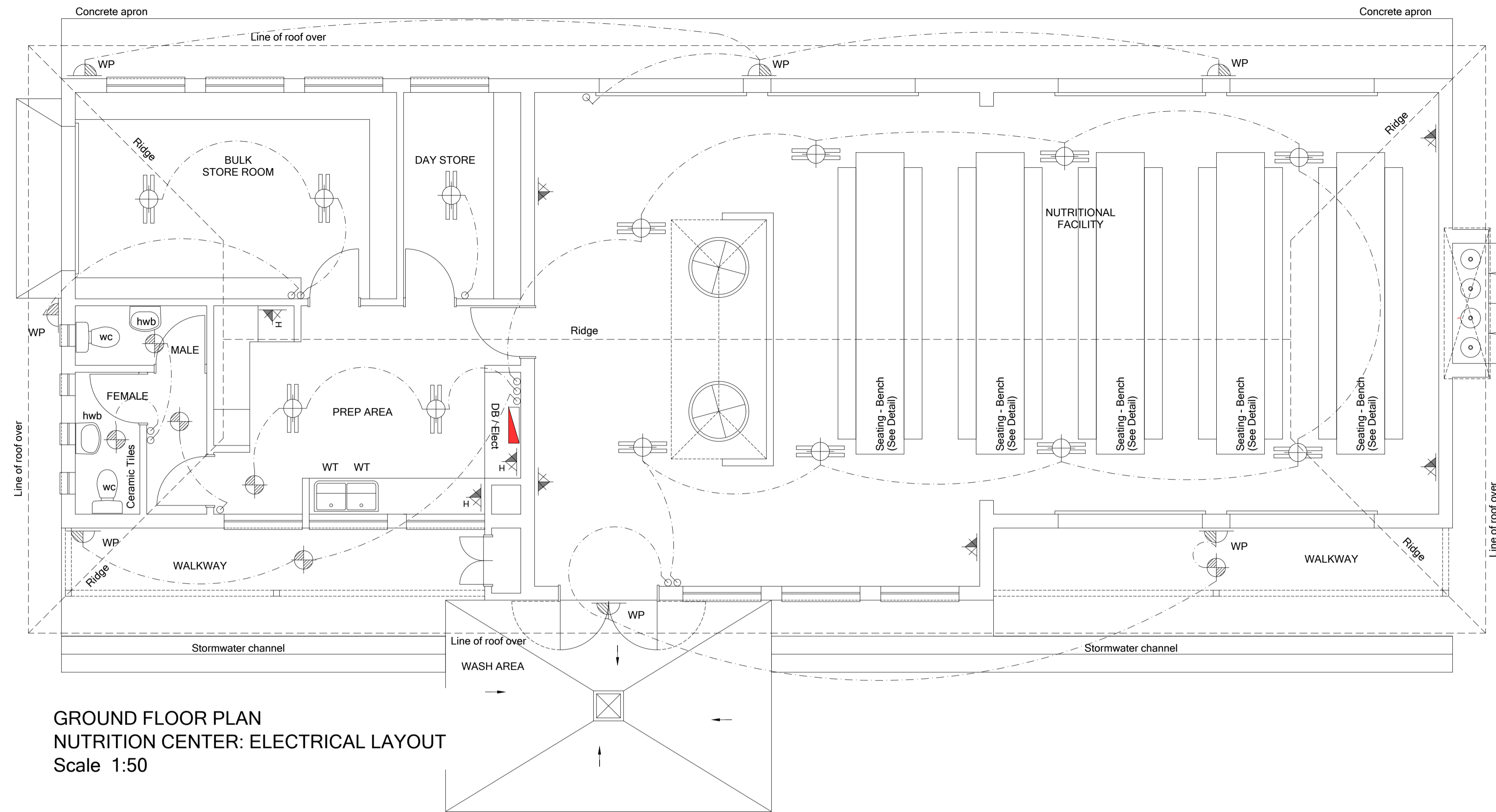


CONTRACTOR :

CADD SYSTEM AUTO CAD DRAWING NUMBER FILE NAME

SIZE 1:100 DRAWING NUMBER FILE NAME

A 1 2020_20-NU-002 A



**GROUND FLOOR PLAN
NUTRITION CENTER: ELECTRICAL LAYOUT
Scale 1:50**

ELECTRICAL LEGEND			
⊕	CEILING LIGHT FITTING	⊕	15 AMP DOUBLE FLUG BUILT IN 300mm ABOVE FFL
⊕	DECORATIVE WALL LIGHT FITTING	⊕	15 AMP DOUBLE FLUG POINT BUILT IN 1000mm ABOVE FFL
⊕	DECORATIVE WATERPROOF EXTERNAL WALL MOUNTED LIGHT FITTING	⊕	TELEPHONE POINT
⊕	DOUBLE TUBE FLUOR FITTING FLUORESCENT LIGHT COMPLETE WITH DIFFUSER	⊕	12 AMP ISOLATOR FOR AC UNIT MOUNTED 150mm BELOW CEILING
⊕	DISTRIBUTION BOARD & PRE PAID METER BOX	⊕	40 AMP ISOLATOR FOR AC UNIT MOUNTED 150mm BELOW ROOF'S EAVE
		⊕	LIGHT SWITCH

- NOTES :**
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WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

REVISIONS
SIZE ON ORIGINAL DRAWING 100 mm



INSTITUTION
MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER
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SERVICE
NEW BUILDINGS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4

WORK DESCRIPTION - SUB DIVISION
NUTRITION BLOCK

DRAWING DESCRIPTION
ELECTRICAL AND SEWER PLAN

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

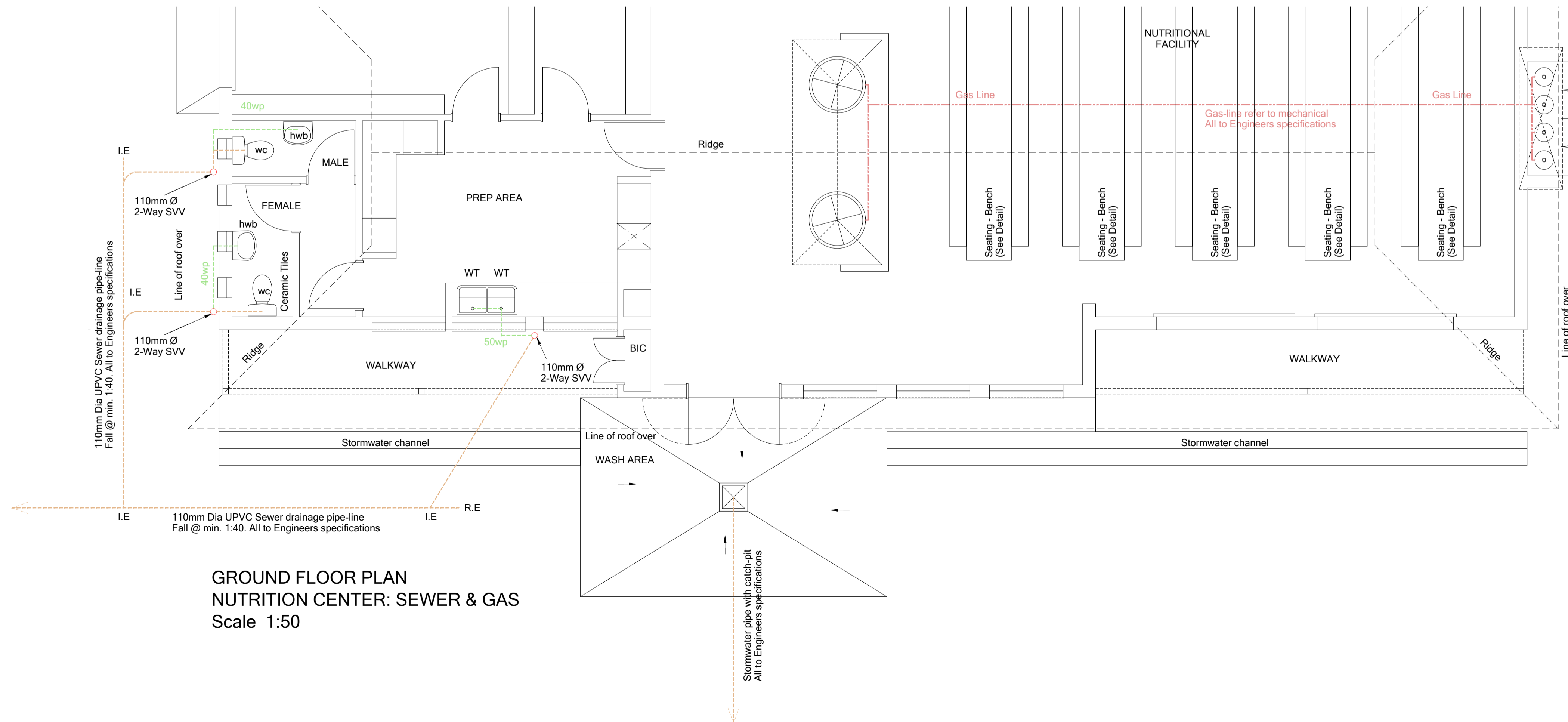
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CONSULTANT :

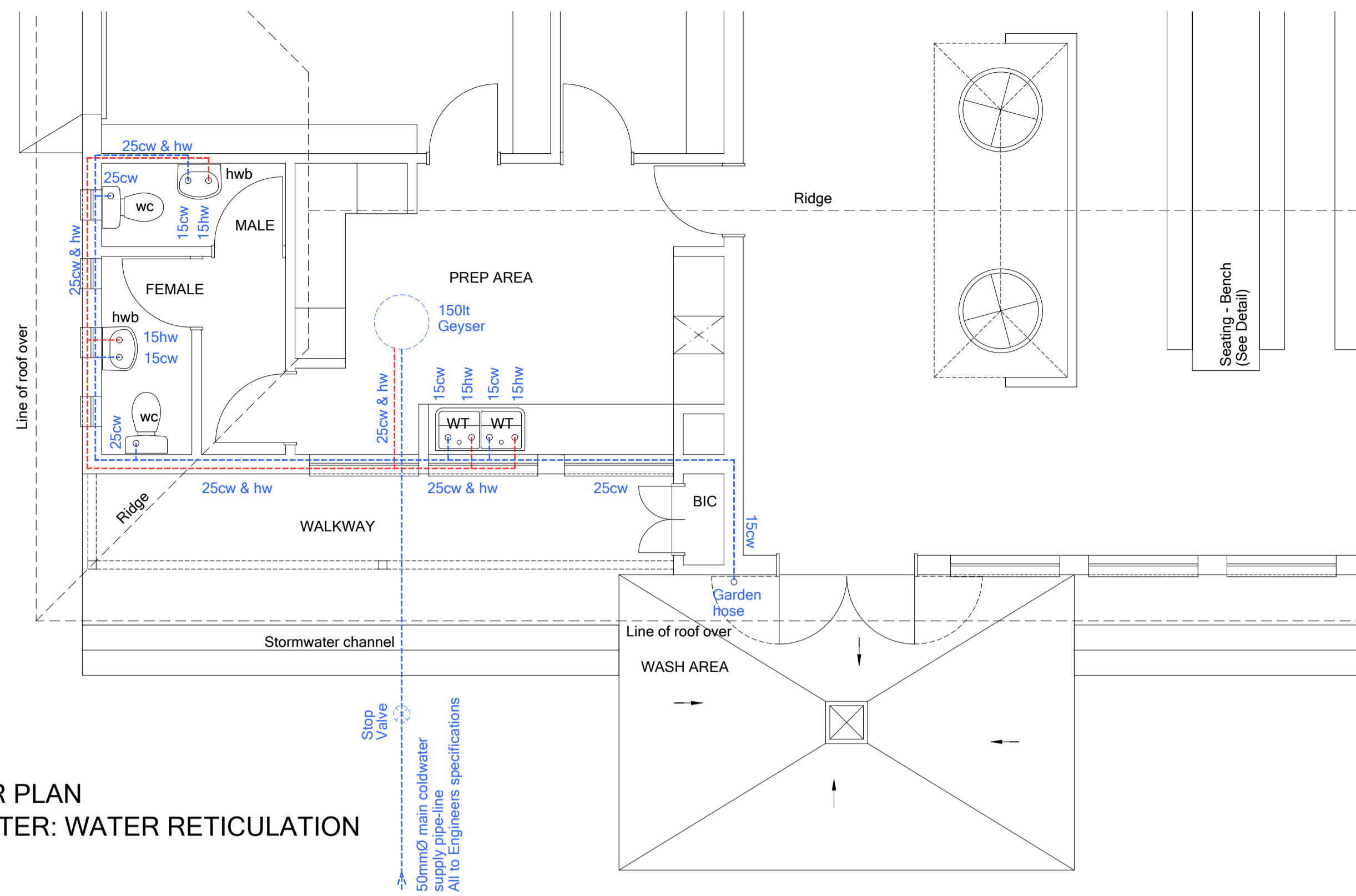
Scale 4 No 6 Jemini Office Building
6 Jemini Street, Polokwane, 0959 South Africa
Tel: +27 15 065 0845, Fax: +27 11 475 8364
Email: info@rubenreddyarch.co.za
Web: www.rubenreddyarch.co.za

CONTRACTOR :

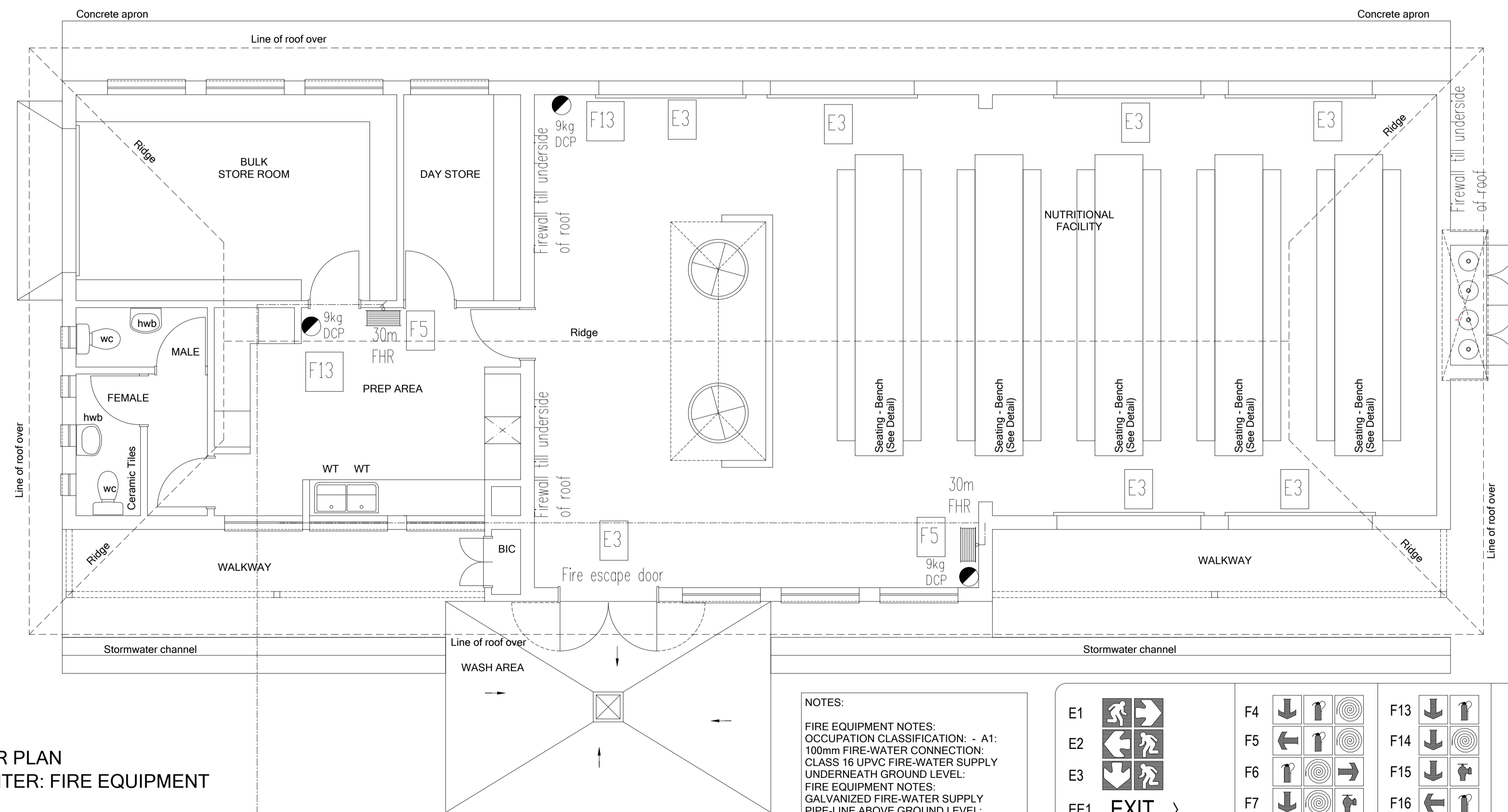
CADD SYSTEM	AUTO CAD	FILE NAME
SCALE	DRAWING NUMBER	REVZ
A 1	2020_20-NU-003	A



**GROUND FLOOR PLAN
NUTRITION CENTER: SEWER & GAS
Scale 1:50**



GROUND FLOOR PLAN
NUTRITION CENTER: WATER RETICULATION
Scale 1:50

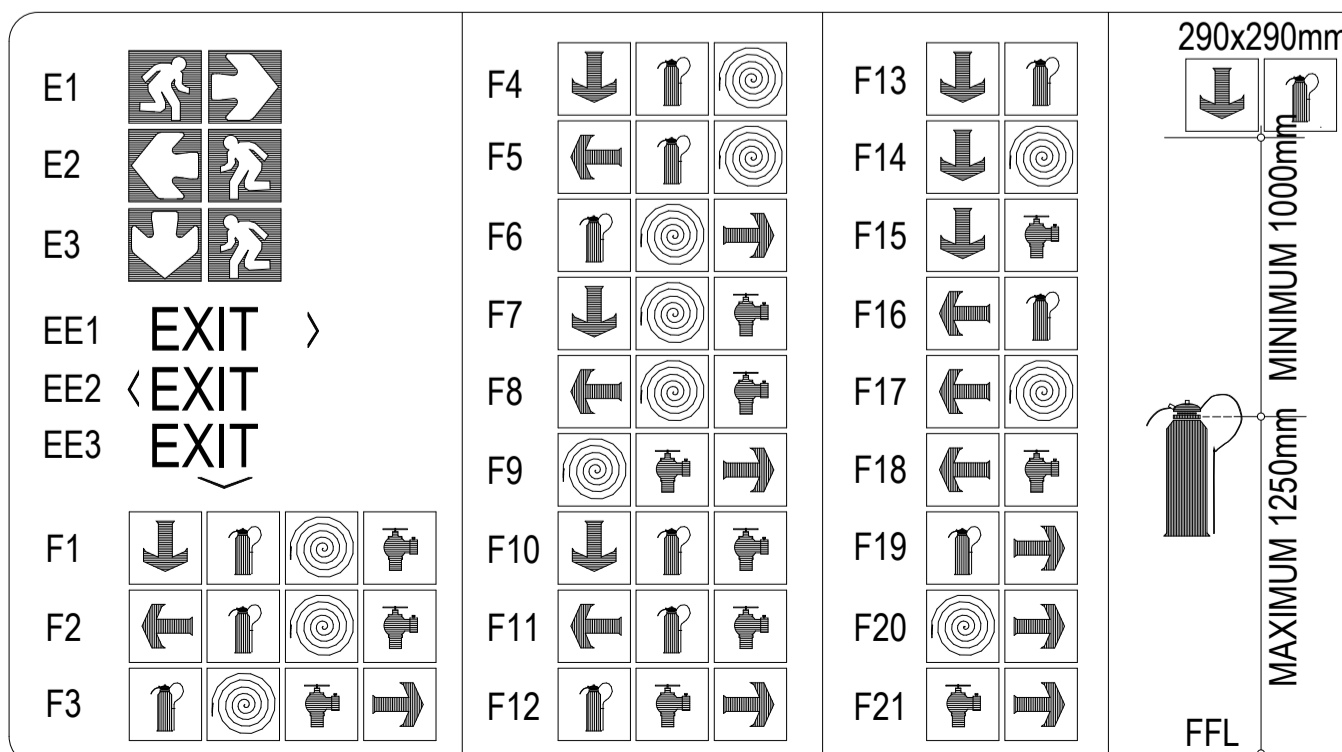


GROUND FLOOR PLAN
NUTRITION CENTER: FIRE EQUIPMENT
Scale 1:50

50mm Dia UPVC Class 16 underneath ground level & galvanized pipes above floor level.
Refer to engineers drawings & detail

NOTES:

FIRE EQUIPMENT NOTES:
OCCUPATION CLASSIFICATION: - A1:
100mm FIRE-WATER CONNECTION:
CLASS 16 UPVC FIRE-WATER SUPPLY
UNDERNEATH GROUND LEVEL:
FIRE EQUIPMENT NOTES:
GALVANIZED FIRE-WATER SUPPLY
PIPE-LINE ABOVE GROUND LEVEL:
ACC. TO TT33.WW5
3 x 9KG DCP: 1/200sqm. ACC. TO TT37.
2 x 30m FIRE HOSE REEL ACC. TO TT34
SIGNAGE & EQUIPMENT ACC. TO TT32
SIZES OF SIGNAGE MINIMUM 150x150mm
PROVIDED BY SPECIALIST ACC. NBR &
MUNICIPAL APPROVAL.
SIZES OF STEPS: RISERS: 170mm
TREADS: 250mm
ACC. TO MM2.3 & 2.4 REF TO SECTION.



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WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No DATE DESCRIPTION

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF
EDUCATION

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

NUTRITION BLOCK

DRAWING DESCRIPTION

WATER RETICULATION AND FIRE

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

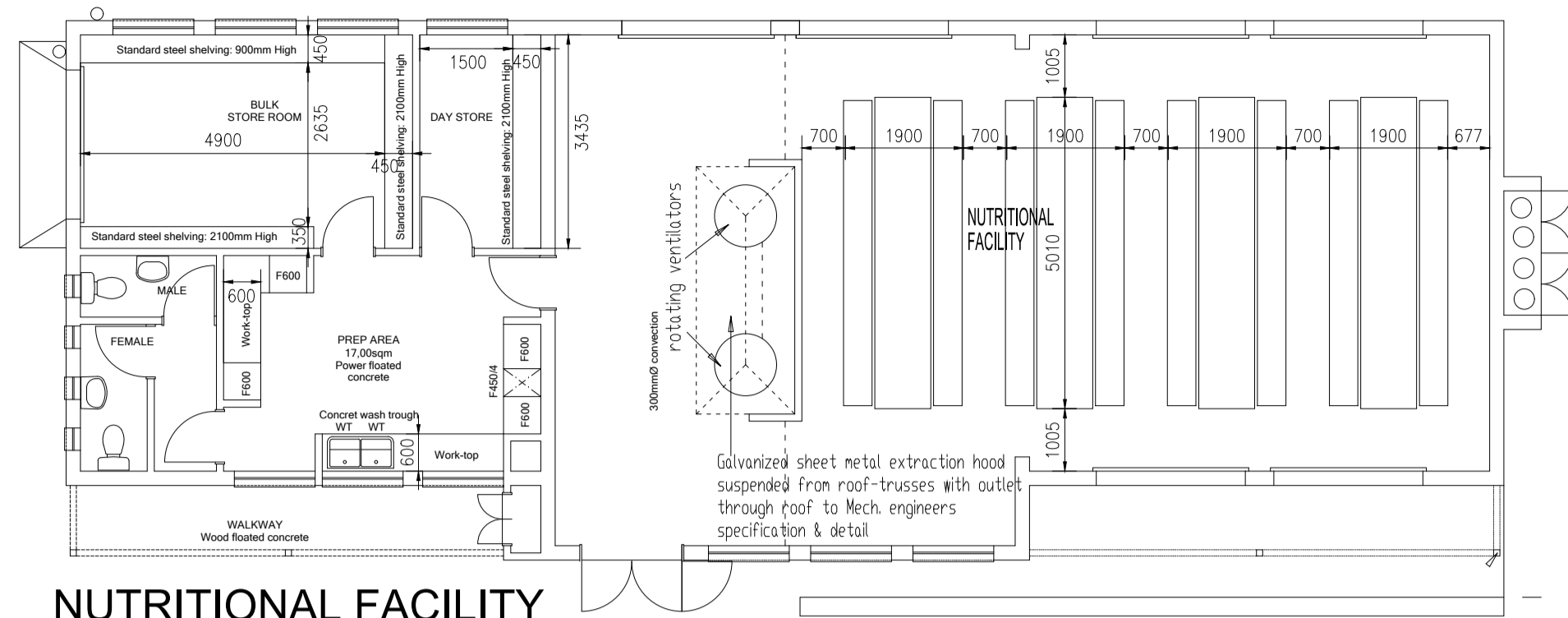
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CONSULTANT :

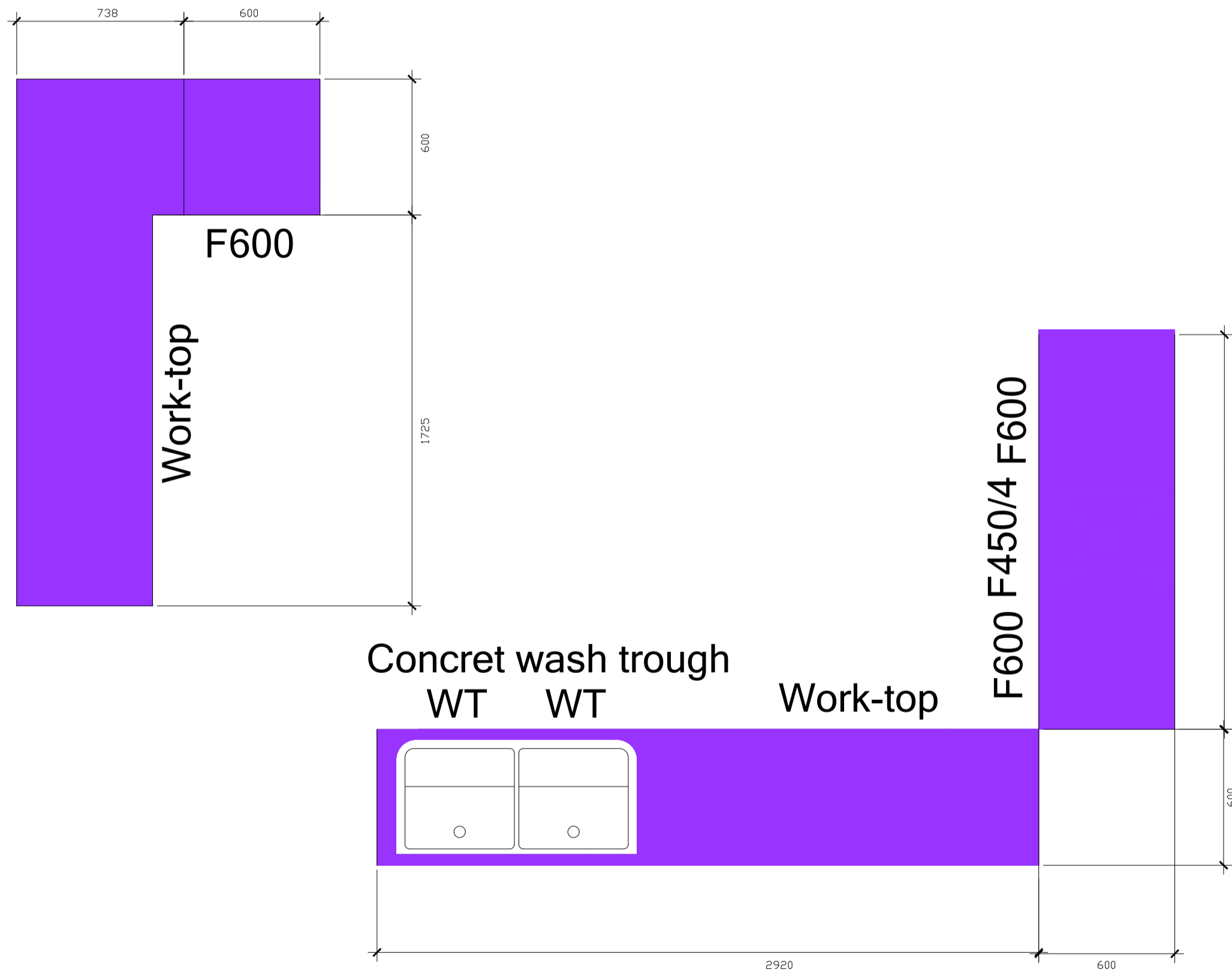


CONTRACTOR :

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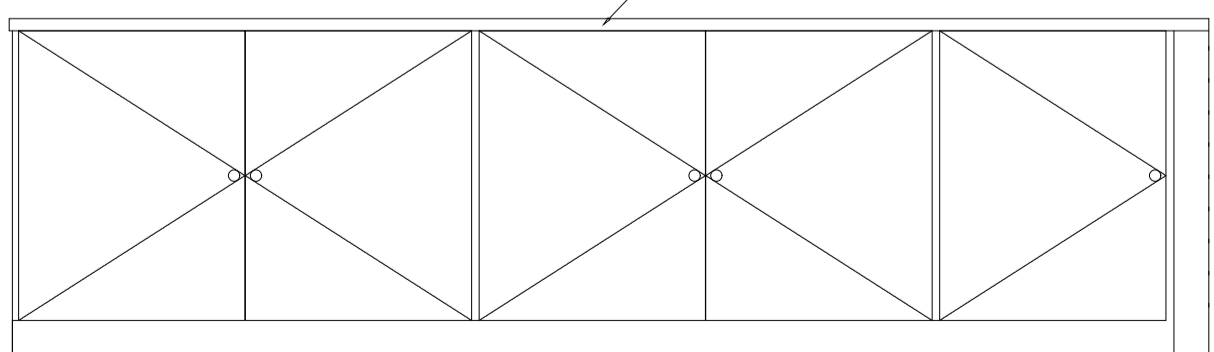


NUTRITIONAL FACILITY JOINERY LAYOUT

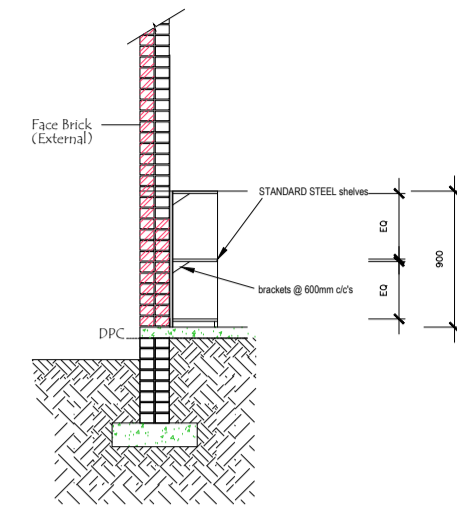


SCALE 1/25

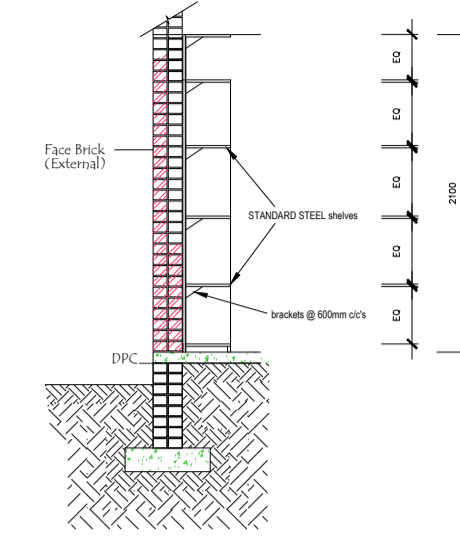
22mm Thick laminated melamine worktop Colour to be approved by architect.



ELEVATION
SCALE 1/25



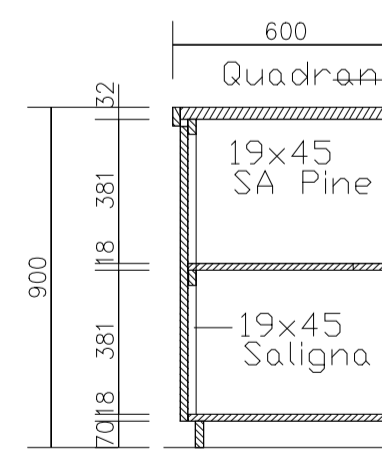
DETAIL 1 (STEEL SHELVES)
Section Scale 1:20



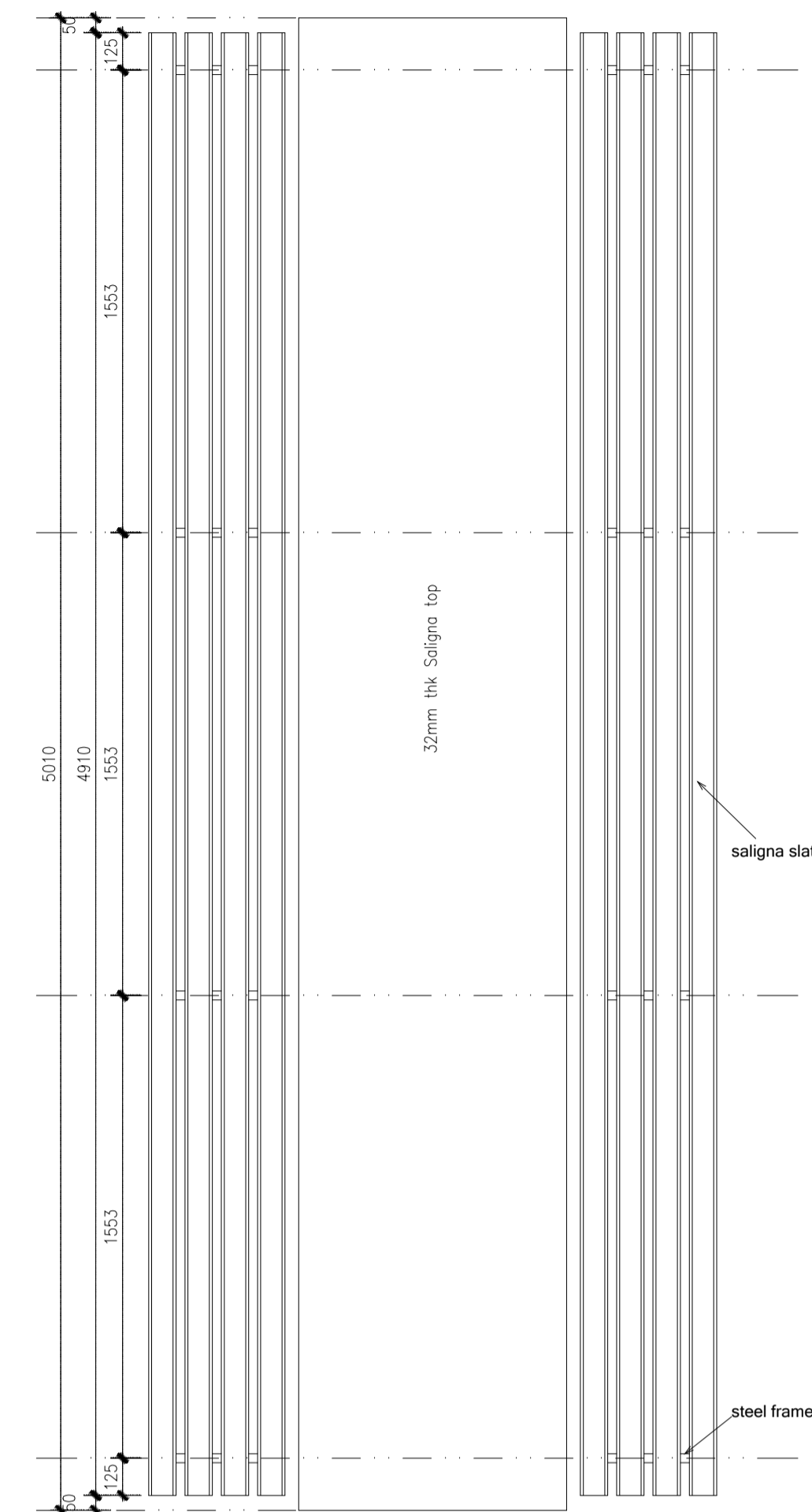
DETAIL 3 (STORE ROOM SHELVES)
Section Scale 1:20

NOTE:
FOUNDATION PLAN & DETAILS - WHERE APPLICABLE REFER TO ENGINEERS DRAWINGS & DETAIL FOR REINFORCED CONCRETE FOUNDATIONS.

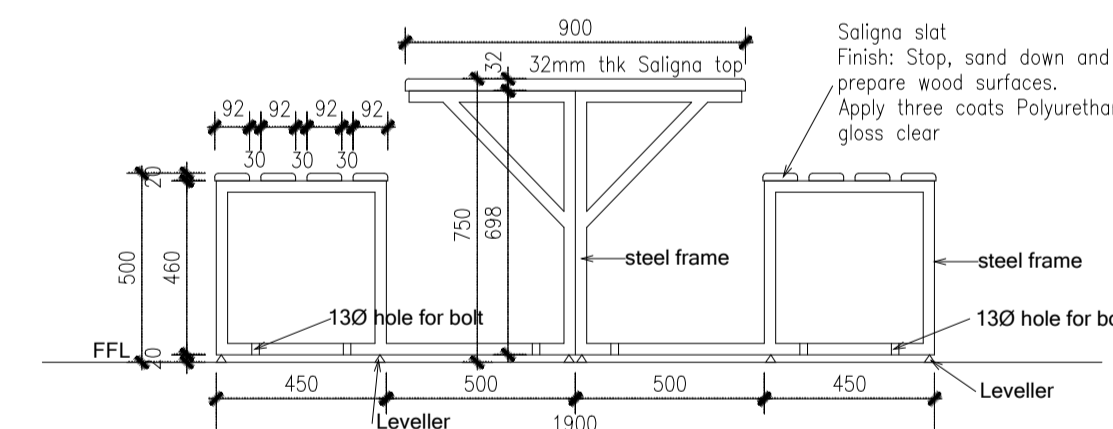
NOTES: FURNITURE:
FORMICA TOPS WITH WHITE MELAMINE CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY CUPBOARD CONNECTIONS.
SHELVING: CODE SST2100/300 & SST2100/450 WITH MILD STEEL SHELVING
SHELVING COMPLETE WITH WALLBANDS & BRACKETS AS SUPPLY BY CUPBOARD CONNECTIONS.



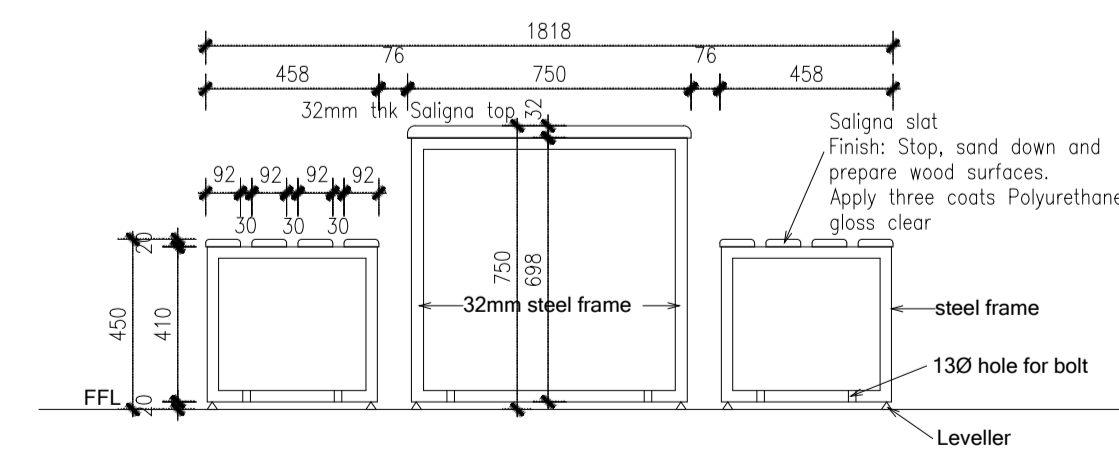
SECTION
SCALE 1/25



PLAN
NUTRITION CENTRE BENCHES



ELEVATION
NUTRITION CENTRE BENCHES



ELEVATION
NUTRITION CENTRE BENCHES

NOTES :

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ISSUED FOR TENDER

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DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No DATE DESCRIPTION

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF EDUCATION

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

NUTRITION BLOCK

DRAWING DESCRIPTION

JOINERY AND DETAILS

FILE No.	DESIGN	SCALE	ITEM No.	DRAWN	CHECKED
		1:100			

DATE	RESPONSIBLE NAME	PROFESSIONAL SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

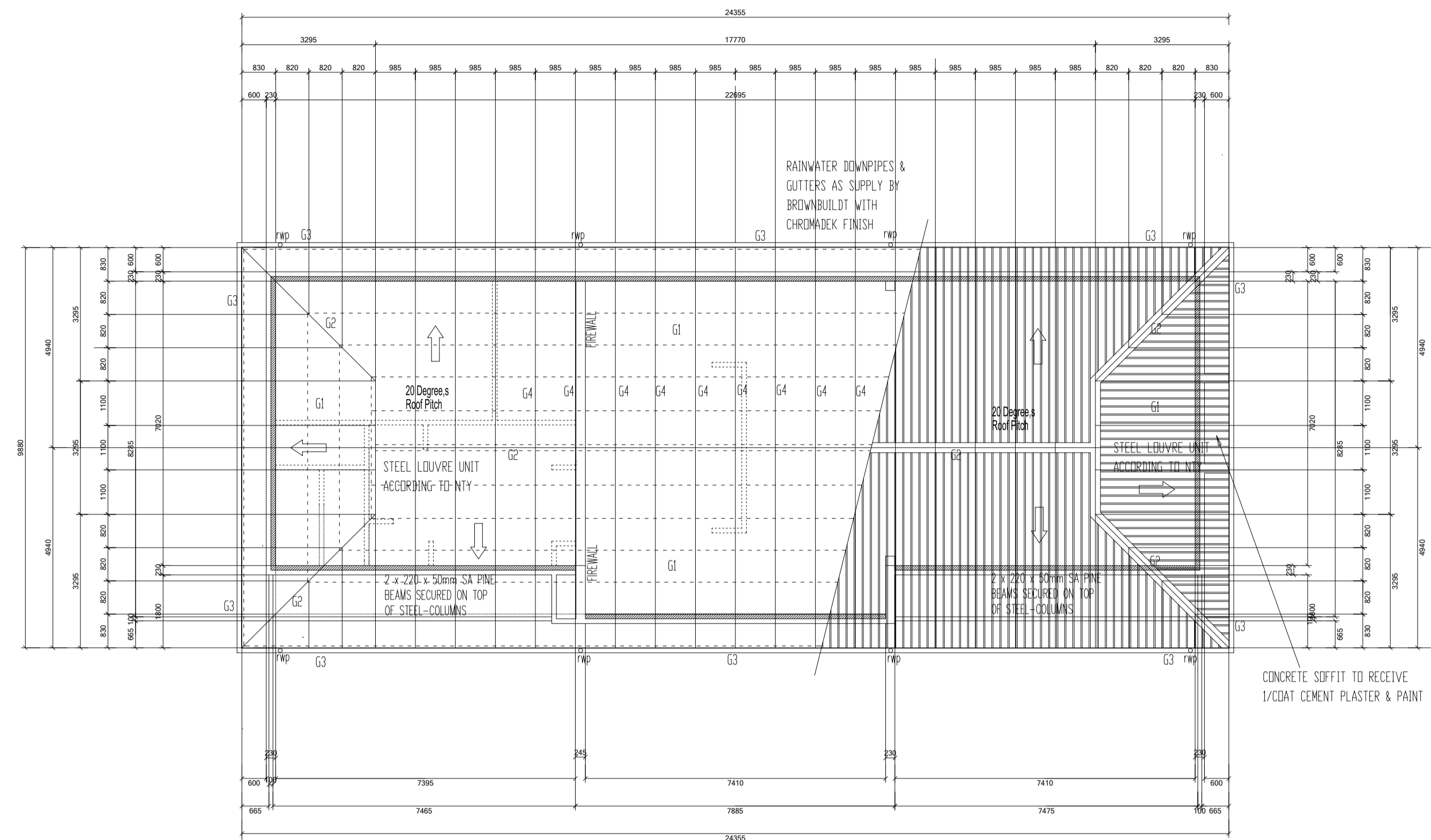
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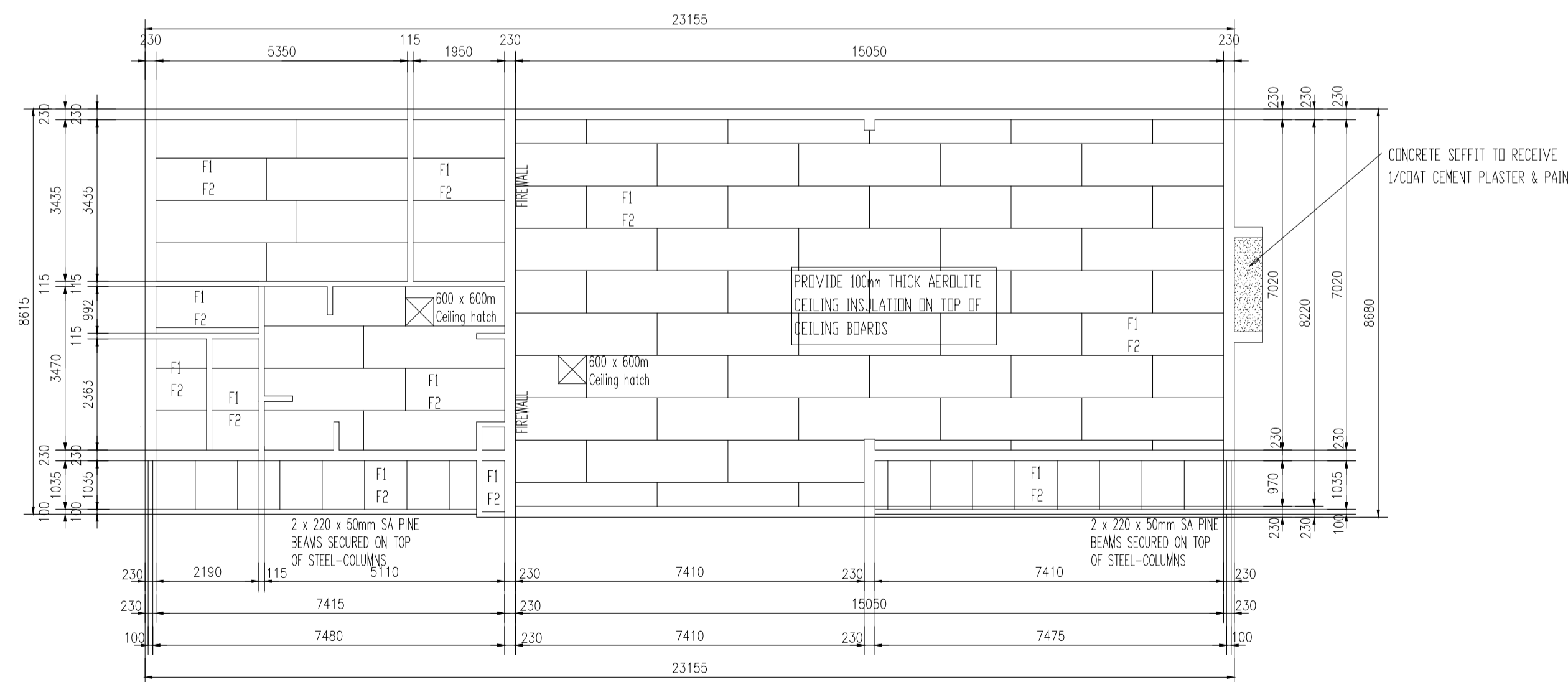
CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
3/2		

DRAWING NUMBER	FILE NAME
A 1	2020_20-NU-005



ROOF PLAN:
NUTRITION CENTRE:
Scale 1:50



CEILING PLAN:
NUTRITION CENTRE:
Scale 1:100

NOTES :

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WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No DATE DESCRIPTION

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



DEPARTMENT OF
EDUCATION

INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EIMS NUMBER

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SERVICE

NEW BUILDINGS

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

NUTRITION BLOCK

DRAWING DESCRIPTION

ROOF PLAN AND CEILING LAYOUT

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED
1:100	

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

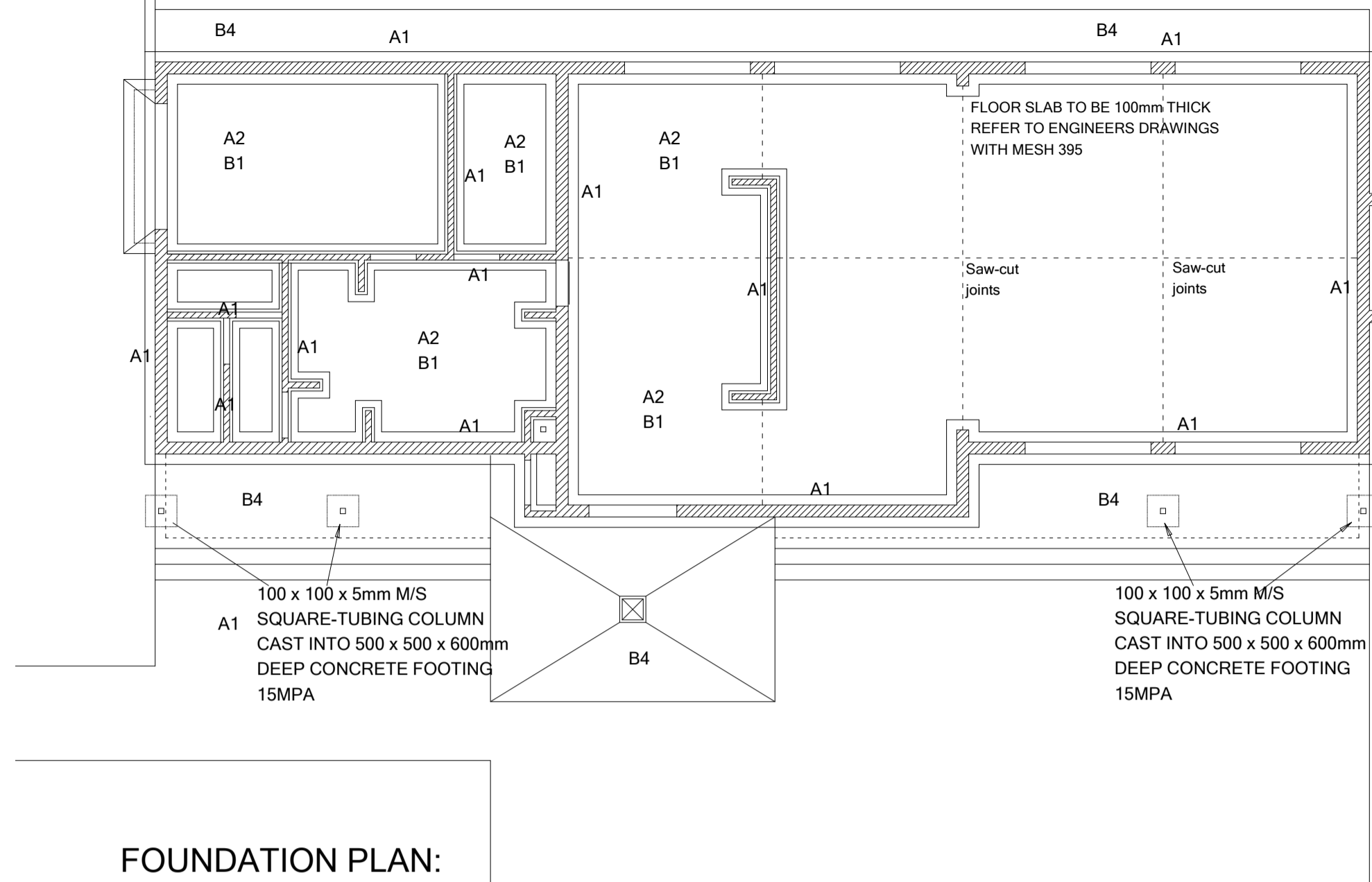
DRAWING CO-ORDINATED

CONSULTANT :



CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SCALE	DRAWING NUMBER	REVZ
A 1	2020_20-NU-006	A



FOUNDATION PLAN:
NUTRITION CENTRE:
Scale 1:100.

NOTE:
FOUNDATION PLAN & DETAILS - WHERE
APPLICABLE REFER TO ENGINEERS DRAWINGS
& DETAIL FOR REINFORCED CONCRETE
FOUNDATIONS.

NOTES: FURNITURE:
FORMICA TOPS WITH WHITE MELAMINE
CUPBOARD ACC TO DETAIL LAYOUT PROVIDED BY
CUPBOARD CONNECTIONS.
SHELVING: CODE SST2100/300 & SST2100/450 WITH MILD
STEEL SHELVING
SHELVING COMPLETE WITH WALLBANDS & BRACKETS
AS SUPPLY BY CUPBOARD CONNECTIONS.

CONSTRUCTION NOTES

Foundations
A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m² or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m² by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.

A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m² filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m² by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.

Surface beds and floors
B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m² or 1 per batch).
B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m² or 1 per batch).
B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool.
B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level.

Skirtings
C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings.

Walls and structure
D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints.
D2. Brickforce - Brickforce to 15 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below.
D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm grth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aqualolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule.
D4. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish.
D5. Lintel - Corobrik brick-on-edge face brick lintel over all window, door and clear openings with 10 x 6mm square recessed joints.
D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1.5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent.
D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1.5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer.
D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips.

Window sills
E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed joints.

Ceilings and cornices
F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Ultra (X44) suede varnish to cornice.
F2. Ceilings - 6mm Everite Nutec fire-cement boards nailed to 38 x 38mm SAP brundering at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings.
F3. Plastered ceiling as per finishes schedule.
F4. 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses.

Roof and fascias
G1. Roof sheeting - 0.58mm Brownbuilt Kilg-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee.
G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with Globalcoat finish (colour Traffic Green).
G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
G4. Truss system - Mitek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP well plate to be carbolinium treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolinium treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around ratters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule.
G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters.
G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes.
G7. Barge flashing over barge boards at louvers - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green).
G8. Flashings at bottom of louvers - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green).

Fittings
H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high & two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail.
H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom).
H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high with four shelves (2 per classroom).
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves.

Miscellaneous
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) & then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire extinguisher sign and Union AL5066-E05/2AS aluminium red down arrow sign above fire extinguisher.
I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union AL5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aqualolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & Trims (G-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

NOTES :

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Built in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50 mm mineral wool insulation to be installed where there are ceilings
- 7) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 8) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

ISSUED FOR TENDER

SIGNATURE TABLE		
DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

REVISIONS	
SIZE ON ORIGINAL DRAWING	100 mm



INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER
920210128

SERVICE
NEW BUILDINGS

CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4

WORK DESCRIPTION - SUB DIVISION
NUTRITION BLOCK
DRAWING DESCRIPTION
FOUNDATION LAYOUT

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE NAME	PROFESSIONAL SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

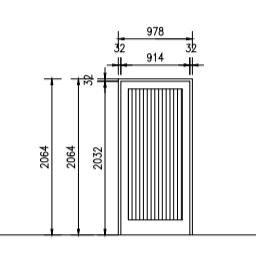
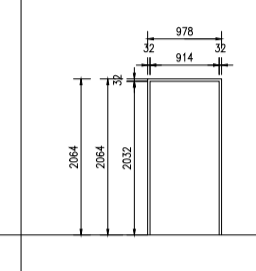
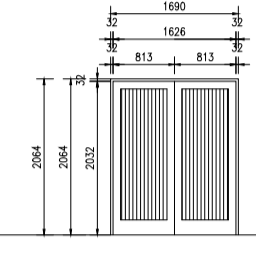
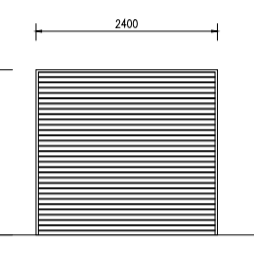
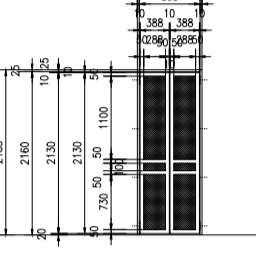
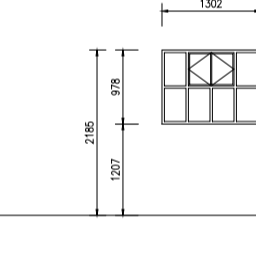
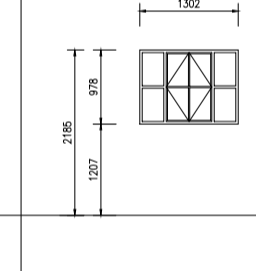
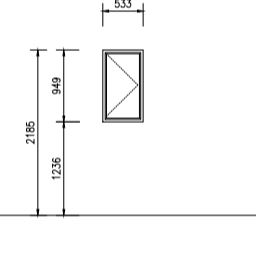
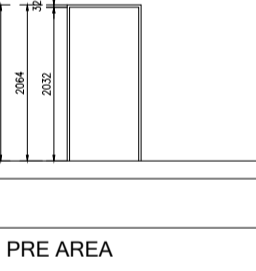

DRAWING CO-ORDINATED

CONSULTANT :

Ruben Reddy Architects
Scale 4 No 8 Unit: Office Building
6 Horns Street, Polokwane, 0959 South Africa
Tel: +27 15 065 0845, Fax: +27 11 475 8364,
Email: info@rubenreddyarch.co.za
Web: www.rubenreddyarch.co.za

CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
SIZE	DRAWING NUMBER	REVZ
A 1	2020_20-NU-007	A

DOOR SCHEDULE: Scale 1:50.			DOOR SCHEDULE: Scale 1:50.		
					
DOOR NUMBER: D1	D2	D3	D4	D6	
POSITION: BULK STORE ROOM, DAY STORE AREA TOILET	ENTRANCE TO TOILET	ENTRANCE TO NUTRITION FACILITY	NUTRITION FACILITY	BIC	
QUANTITY: 3 (2=RH) (1=LH)	2 (2 = LH) (0 = RH)	1	7	1	
DOOR-FRAME DESCRIPTION: 1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 115MM WALL TO RECEIVE PLASTER ON ONE-SIDE	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.	FRAME OUT OF 50 x 25 x 1,6mm MS RECTANGULAR TUBING MITRE 45 DEGREE S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL	
FINISHES: 1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	FINISH: CHROMADEX FINISH - COLOUR BY ARCHITECT	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	
DOOR DESCRIPTION: 2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE BACKING. TYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.	2032 x 1025 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE BACKING. TYPE OF HARDWOOD DOOR ACCORDING TO OWNERS CHOICE.	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.	GATE OUT OF 25 x 25 x 1,6mm MS SQUARE-TUBING SECTIONS WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm MS SOLID BAR ON BOTH SIDES OF MESH	
IRON MONGERY: HINGES - 2x100mm MS STEEL BUTT HINGES PER DOOR LEAF	HINGES - 2x100mm MS STEEL BUTT PER DOOR LEAF	HINGES - 1x100mm MS FIXATURE HINGES PER DOOR LEAF	STANDARD WISPECO 2185 x 2400mm ROLLERSHUTTER DOOR WITH CHROMADEX FINISH COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER.	2/PAIRS 100mm BULLET HINGES WELDED TO FRAME & GATE. LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
FITTINGS: LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.			
FINISHES: PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	FINISH: CHROMADEX FINISH - COLOUR BY ARCHITECT	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
GLASS: NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	
WINDOW SCHEDULE: Scale 1:50.			DOOR SCHEDULE: Scale 1:50.		
					
WINDOW NUMBER: W1	W2	W3	DOOR NUMBER: D5	D7	
POSITION: PREP AREA , NUTRITION FACILITY TOILET.	BULK & DAY STORE	TOILETS	ENTRANCE PRE AREA	GAS-BANK	
DESCRIPTION: 6	4	4	QUANTITY: 1 (1 = LH) (0 = RH)	1	
WINDOW-FRAME DESCRIPTION: STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER S5415541 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	STANDARD SS INDUSTRIAL TYPE STEEL WINDOW-FRAME CATALOGUE NUMBER S542 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	STANDARD E-TYPE TOP-HUNG STEEL WINDOW-FRAME CATALOGUE NUMBER NE 1 COMPLETE WITH FITTINGS AS SUPPLY BY MANUFACTURER	1,2mm THICK STANDARD STEEL DOUBLE REBATED DOORFRAME FOR 230MM WALL TO RECEIVE PLASTER ON ONE-SIDE	FRAME OUT OF 50 x 25 x 1,6mm MS RECTANGULAR TUBING MITRE 45 DEGREE S AT CORNER BEFORE WELDED AND SECURED IN OPENING WITH BRACKETS WELDED TO GATE & BOLTED TO WALL	
WINDOW FINISHES: IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	
DOOR DESCRIPTION: 2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.			2032 x 914 x 40mm THICK SOLID HARDWOOD DOOR WITH MASONITE FACINGS TO RECEIVE 1/COAT UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT.	GATE OUT OF 25 x 25 x 1,6mm MS SQUARE-TUBING SECTIONS WITH EXPANDED METAL MESH ON INSIDE OF OPENING ELDED TO FRAME WITH 10 x 10mm MS SOLID BAR ON BOTH SIDES OF MESH	
IRON MONGERY: IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	IRON-MONGERY & FITTINGS AS SUPPLY BY WINDOW MANUFACTURER. AND ACCORDING TO ARCHITECTS APPROVAL.	HINGES - 2x100mm MS STEEL BUTT HINGES PER DOOR LEAF	1/RED OXIDE PRIMER + 1/COAT UNIVERSAL UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR TO ARCHITECT.	
FITTINGS: LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.		2/PAIRS 100mm BULLET HINGES WELDED TO FRAME & GATE. LOCKSET - "SOLID BLESBOK" 460/313 FOUR LEVER LOCKSET.	
FINISHES: 1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	1/UNDERCOAT + 2/COATS PLASCON VELVAGLO PAINT FINISH.	1/UNDERCOAT + 2/COATS PLASCON GLOSS ENAMEL PAINT - COLOUR ACCORDING TO ARCHITECT.	NOT APPLICABLE	PREPARE NEW DOOR & FRAME TO RECEIVE ONE UNDERCOAT PLUS 3/COATS POLYURETHANE VARNISH.	
GLASS: NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	

NOTES :

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Build in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50 mm mineral wool insulation to be installed where there are ceilings. Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 7) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 8) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

ISSUED FOR TENDER

SIGNATURE TABLE

DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

REVISIONS

SIZE ON ORIGINAL DRAWING 100 mm



INSTITUTION

MOLESHSTLOU SECONDARY SCHOOL

INSTITUTION EMIS NUMBER
920210128

SERVICE
NEW BUILDINGS

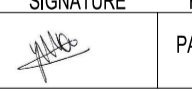
CONTRACT - SECTION
DOCUMENTATION & PROCUREMENT

DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4

WORK DESCRIPTION - SUB DIVISION
NUTRITION BLOCK

DRAWING DESCRIPTION
WINDOW AND DOOR SHEDULE

FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED

DATE	RESPONSIBLE PROFESSIONAL NAME	SIGNATURE	PR NUMBER
2023.06.20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

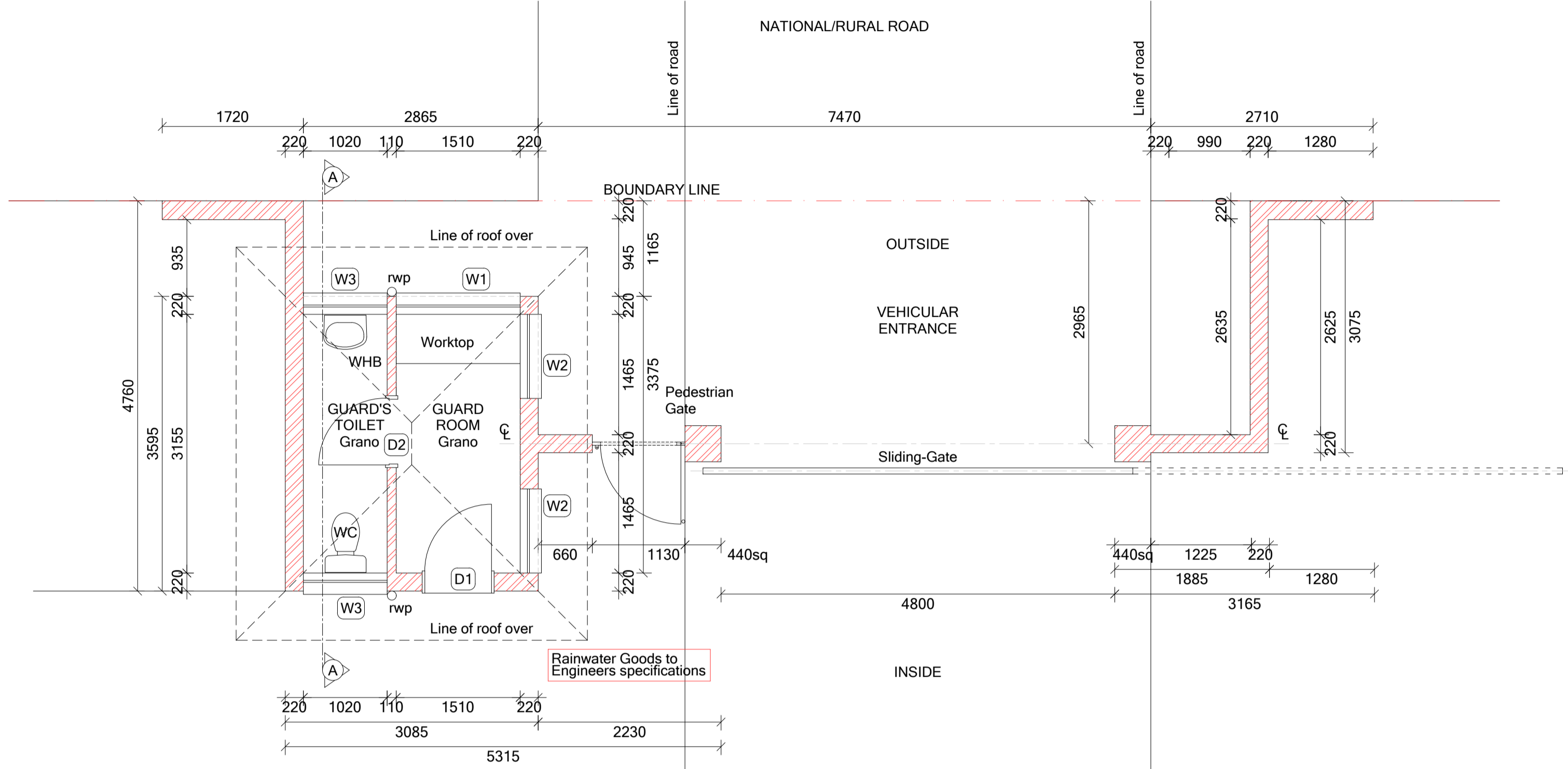
CONSULTANT :



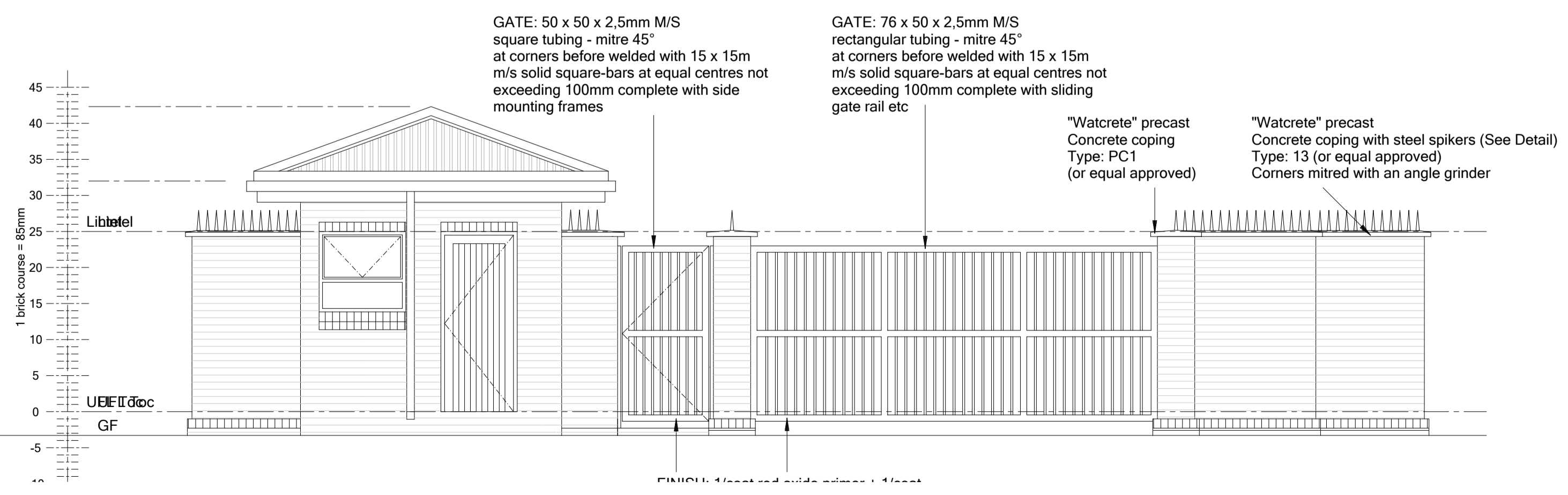
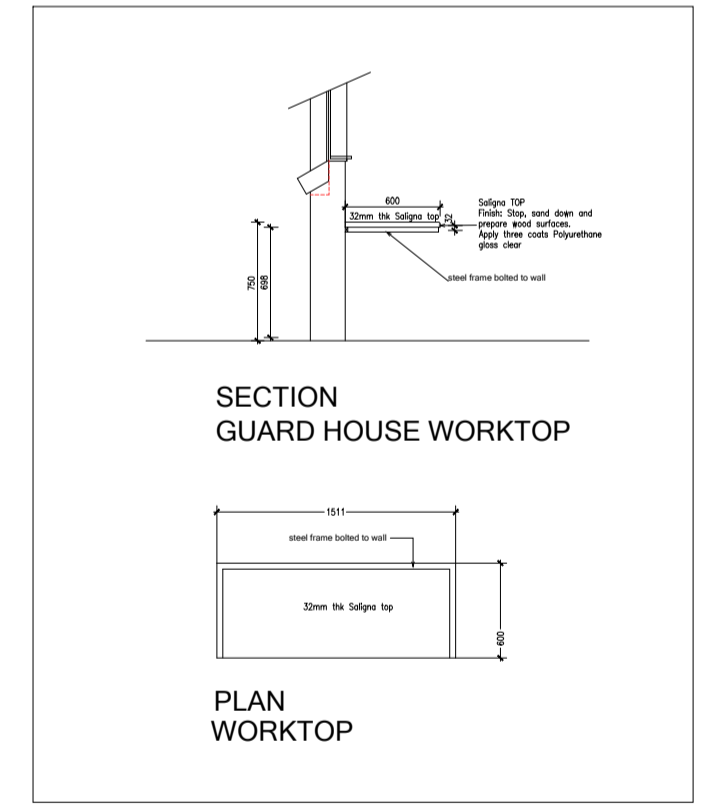
Scale 4 No 6 (www) Office Building
6 Harrow Street, Polokwane, 0959 South Africa
Tel: +27 15 065 0845, Fax: +27 11 475 8364,
Email: info@rubenreddyarch.co.za
Web: www.rubenreddyarch.co.za

CONTRACTOR :

CADD SYSTEM	AUTO CAD	FILE NAME
A 1	2020_20-NU-008	A



PLAN: Gate-House
Scale 1:50



CONSTRUCTION NOTES

- Foundations**
A1. Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m³ or 1 per batch). Finished sides and bottoms of trenches to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m² by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.
A2. Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m² filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with ant poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m² by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.
- Surface beds and floors**
B1. Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m³ or 1 per batch).
B2. Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with expansion joints with joints filled up with polysulfide sealer. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m³ or 1 per batch).
B3. Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool.
B4. Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level.
- Skirtings**
C1. 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrand bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range) (colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings.
- Walls and structure**
D1. External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints.
D2. Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below.
D3. 75 x 75 x 3mm Thick tubular section steel columns with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with "Plascon Aquasolv Degreaser (GR1)", remove rust with "Plascon Rust Remover (RR1)", prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule.
D4. 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Sunproof (Amber - PNW22) suede varnish.
D5. DPC - SANS Specified Type B approved 375 micron black dpc in walls at floor level above all window sills.
D6. Internal walls - approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour broken white (EPL314) or French Chartreuse (Y5-D2-3) as per Principal Agent.
D7. Internal walls - face brick plinth up to 850mm with approved stockbrick walls in stretcher bond above to receive one coat smooth 1:5 cement plaster finished off with one coat Plascon Plaster Primer (UC56) and two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
D8. All exposed expansion joints in walls and floors to be filled in with Urochem 205 polysulfide joint sealant after surfaces have been primed with Urochem 614 primer.
D9. Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips.
- Window sills**
E1. Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
E2. External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed joints.
- Ceilings and cornices**
F1. Internal cornice - 19 x 76mm Meranti cornice nailed to walls at 400mm centres maximum. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range) (colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to cornices.
F2. Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP bracing at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings.
F3. Plastered ceiling as per finishes schedule.
F4. 610 x 610mm Trap door formed of 60 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross brander covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses.
- Roof and fascias**
G1. Roof sheeting - 0.58mm Brownbuilt Klip-lok roof sheeting with Globalcoat finish (colour Traffic Green) on 50 x 76mm SAP purlins at maximum 1200mm centres on patent and approved pre-fabricated truss system. Roof sheeting to be done by specialist installer providing a five year guarantee.
G2. Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with Globalcoat finish (colour Traffic Green).
G3. Fascia boards - 10 x 300mm Everite Nutec-cement fascia boards screw fixed to truss ends and counter batten with countersunk brass screws. Barge boards - 200 x 80mm Everite socketless barge boards screw fixed to trusses or purlins with countersunk brass screws. Prime fascias and barge boards with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
G4. Truss system - Mitek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carbolineum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet trades to be carbolineum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and tied around rafters and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knots with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule.
G5. Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters.
G6. Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes.
G7. Barge flashing over barge boards at louvers - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green).
G8. Flashings at bottom of louvers - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (colour Traffic Green).
- Fittings**
H1. Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high and two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail.
H2. Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom).
H3. Greenfield G25 double door steel cupboard with standard baked enameled finish, 760 x 610 x 1700mm high with four shelves (2 per classroom).
H4. Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves.
- Miscellaneous**
I1. 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) and then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E08/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher.
I2. Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union AL5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 25mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & Trims (C-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E08/2AS aluminium fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.

NOTES :

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Built in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50 mm mineral wool insulation to be installed where there are ceilings
- 7) Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 8) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 9) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

ISSUED FOR TENDER

SIGNATURE TABLE		
DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

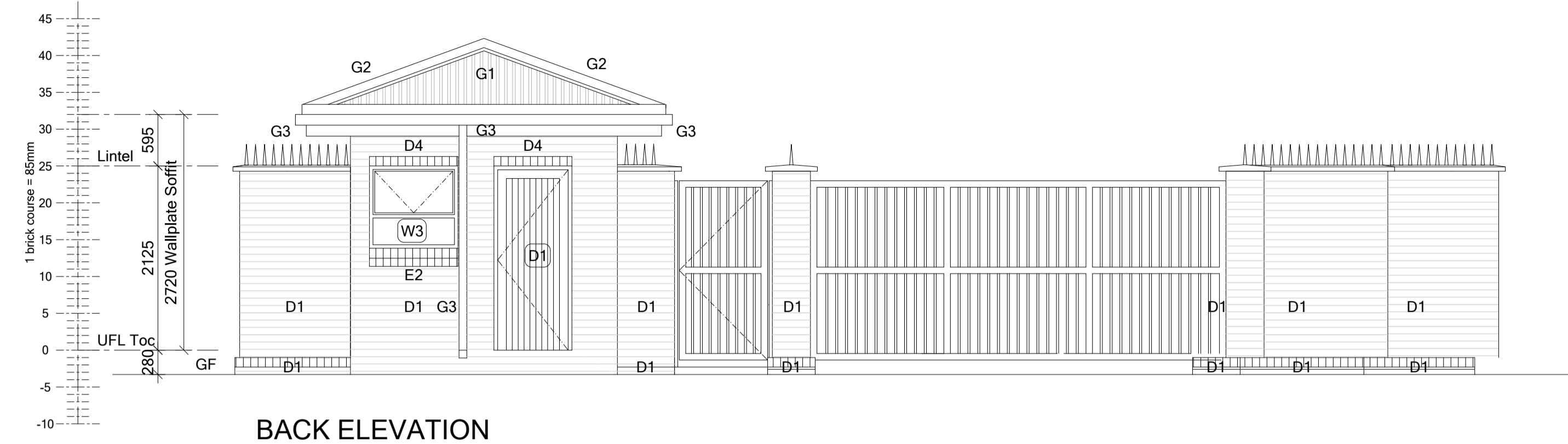


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MOLESHSTLOU SECPNDARY SCHOOL	
INSTITUTION EMIS NUMBER	
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SERVICE	
NEW BUILDINGS	
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DOCUMENTATION & PROCUREMENT	
DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4
WORK DESCRIPTION - SUB DIVISION	
GUARD HOUSE	
DRAWING DESCRIPTION	
PLAN, ELEVATIONS AND JOINERY	
FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED
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RESPONSIBLE PROFESSIONAL	
DATE	NAME
2020/06/20	YUSUF VAHED
SIGNATURE	PR NUMBER
[Signature]	PA7812
DRAWING CO-ORDINATED	
CONSULTANT :	
Scale 4 No 6 minor Office Building 6 Irons Street, Polokwane, 0959 South Africa Tel: +27 15 065 0845, Fax: +27 11 475 8364, Email: info@rubenreddyarch.co.za Web: www.rubenreddyarch.co.za	
CONTRACTOR :	

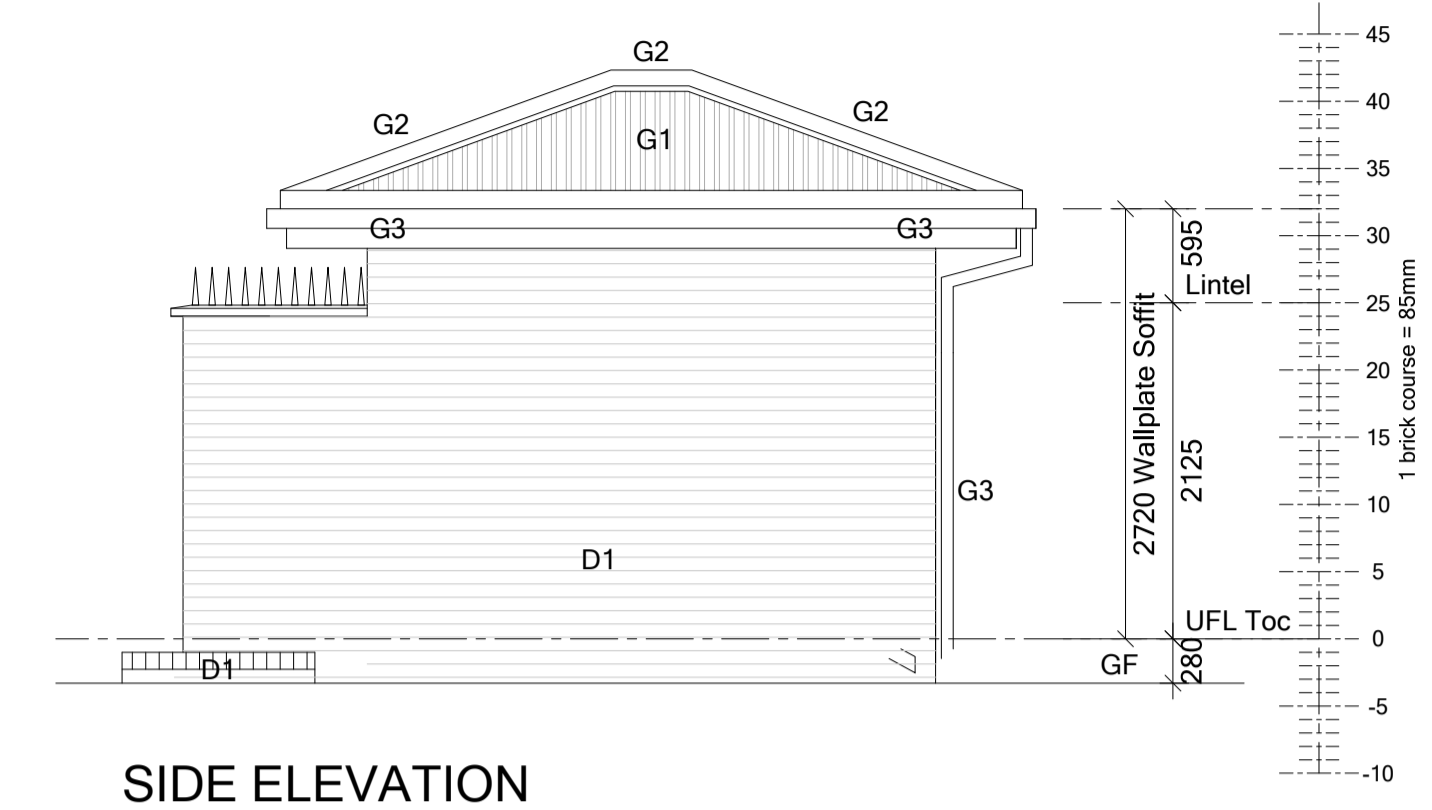
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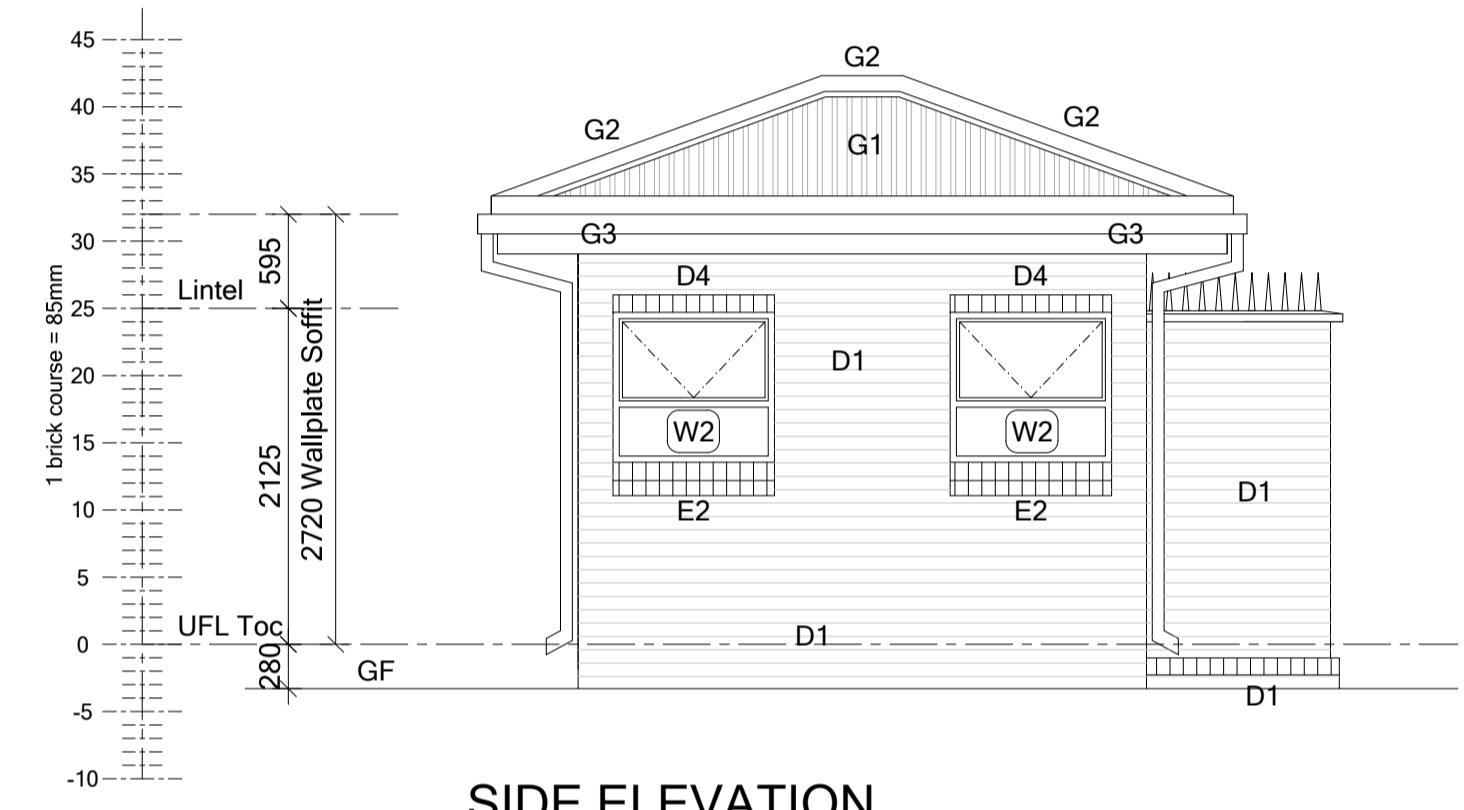
- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Built in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50 mm mineral wool insulation to be installed where there are ceilings. Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 7) Vest Facing Facades to have standardised aluminium louvres from below eaves to drop of 1200 mm
- 8) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers



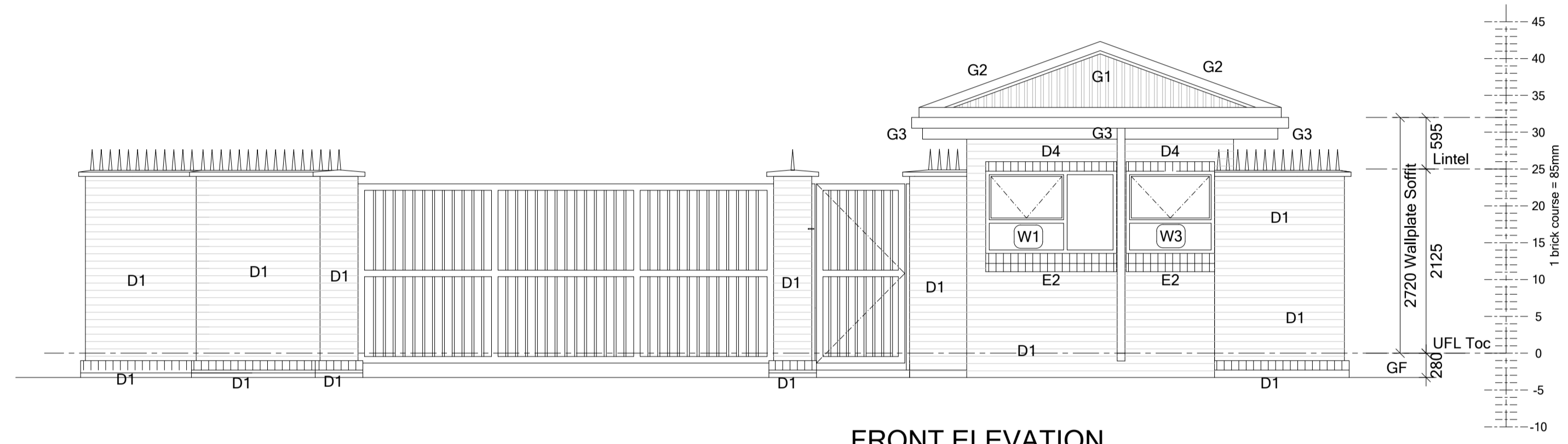
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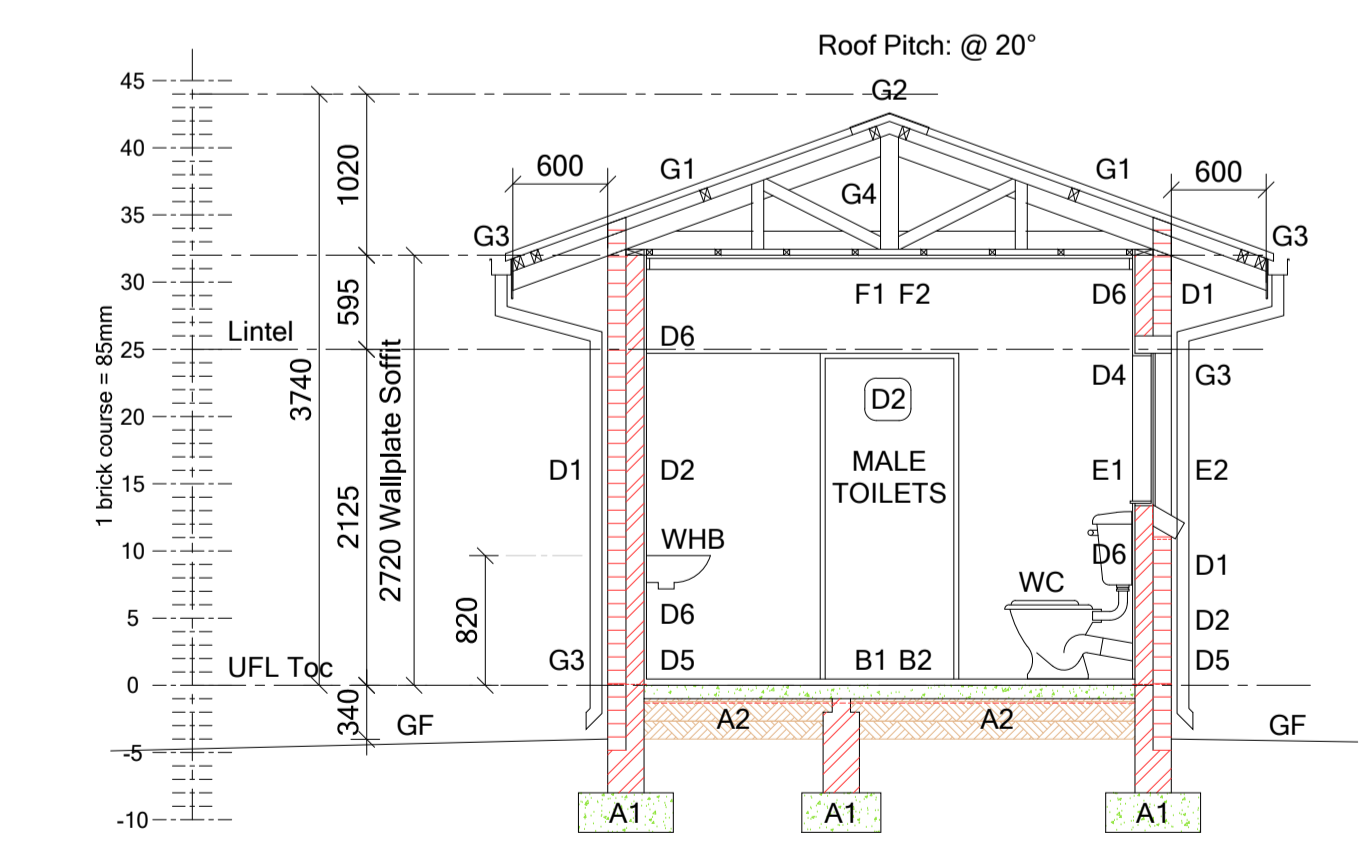
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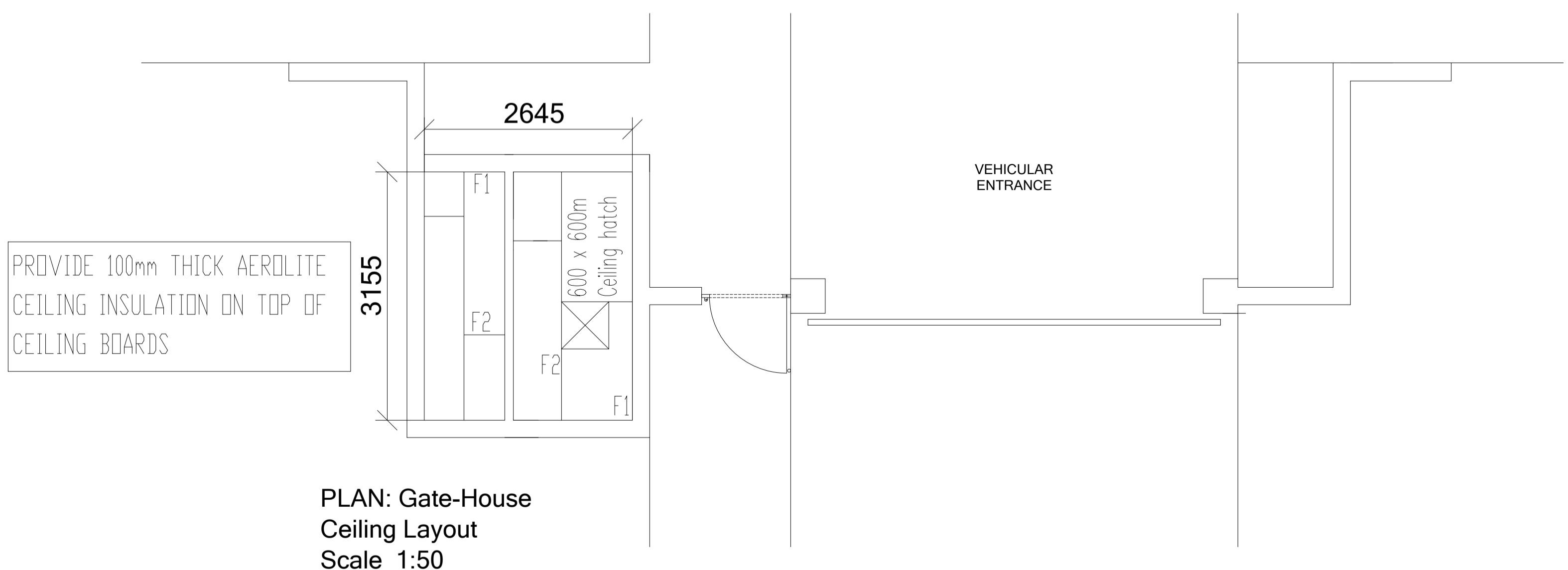
SIDE ELEVATION
Scale 1:50



FRONT ELEVATION
Scale 1:50



SECTION A-A
Scale 1:50



PLAN: Gate-House
Ceiling Layout
Scale 1:50


ISSUED FOR TENDER

SIGNATURE TABLE

DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION

REVISIONS
SIZE ON ORIGINAL DRAWING 100 mm



LIMPOPO
PROVINCIAL GOVERNMENT
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF
EDUCATION

INSTITUTION	
MOLESHSTLOU SECPNDARY SCHOOL	
INSTITUTION EMIS NUMBER	
920210128	
SERVICE	
NEW BUILDINGS	
CONTRACT - SECTION	
DOCUMENTATION & PROCUREMENT	
DISCIPLINE	PROJECT STAGE
ARCHITECTURAL	4
WORK DESCRIPTION - SUB DIVISION	
GUARD HOUSE	
DRAWING DESCRIPTION	
SECTION, ELEVATIONS AND CEILING	
FILE No.	ITEM No.
DESIGN	DRAWN
SCALE	CHECKED
DATE	RESPONSIBLE PROFESSIONAL NAME
2023.06.20	YUSUF VAHED
	SIGNATURE
	PR NUMBER
	PA7812
DRAWING CO-ORDINATED	

CONSULTANT :

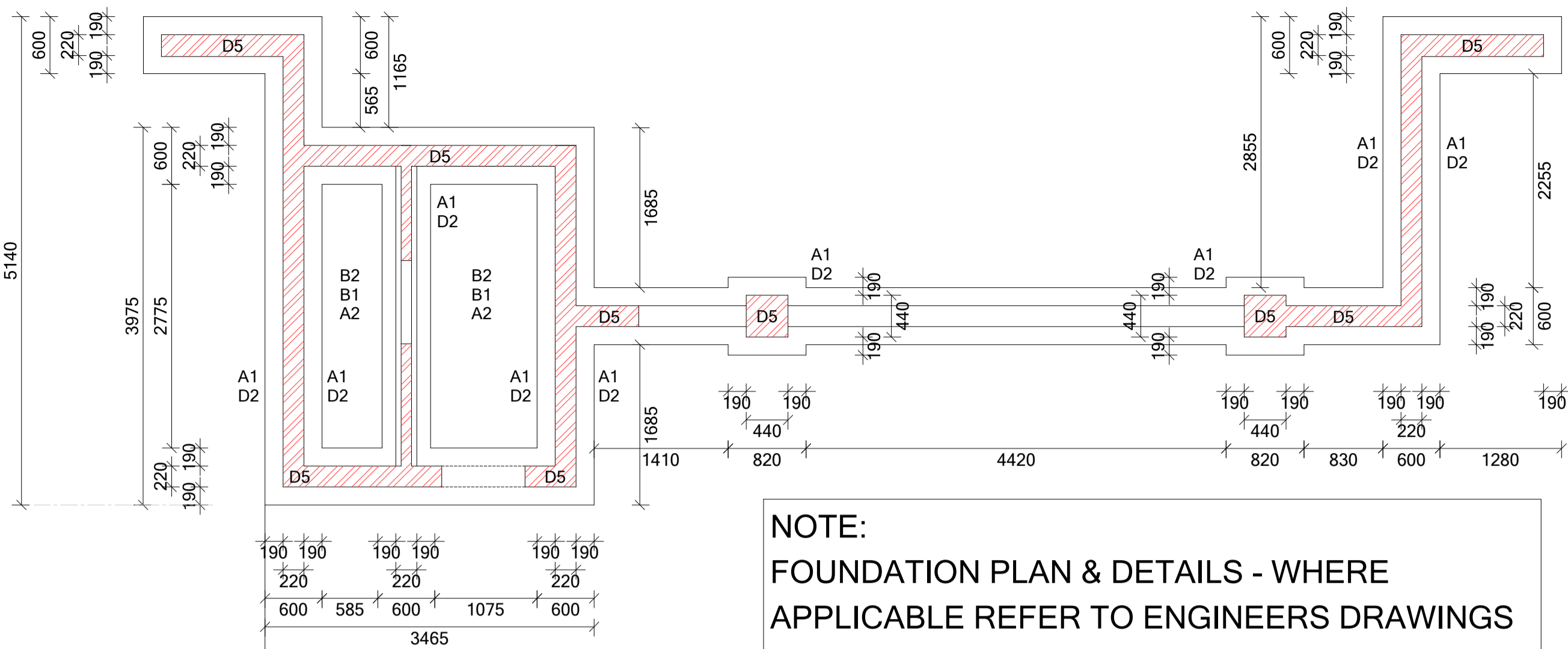


ruben reddy architects

Scale 4 No 6 Unit: Office Building
6 Irons Street, Polokwane, 0999 South Africa
Tel: +27 15 065 0845, Fax: +27 11 475 8364
Email: info@rubenreddyarch.co.za
Web: www.rubenreddyarch.co.za

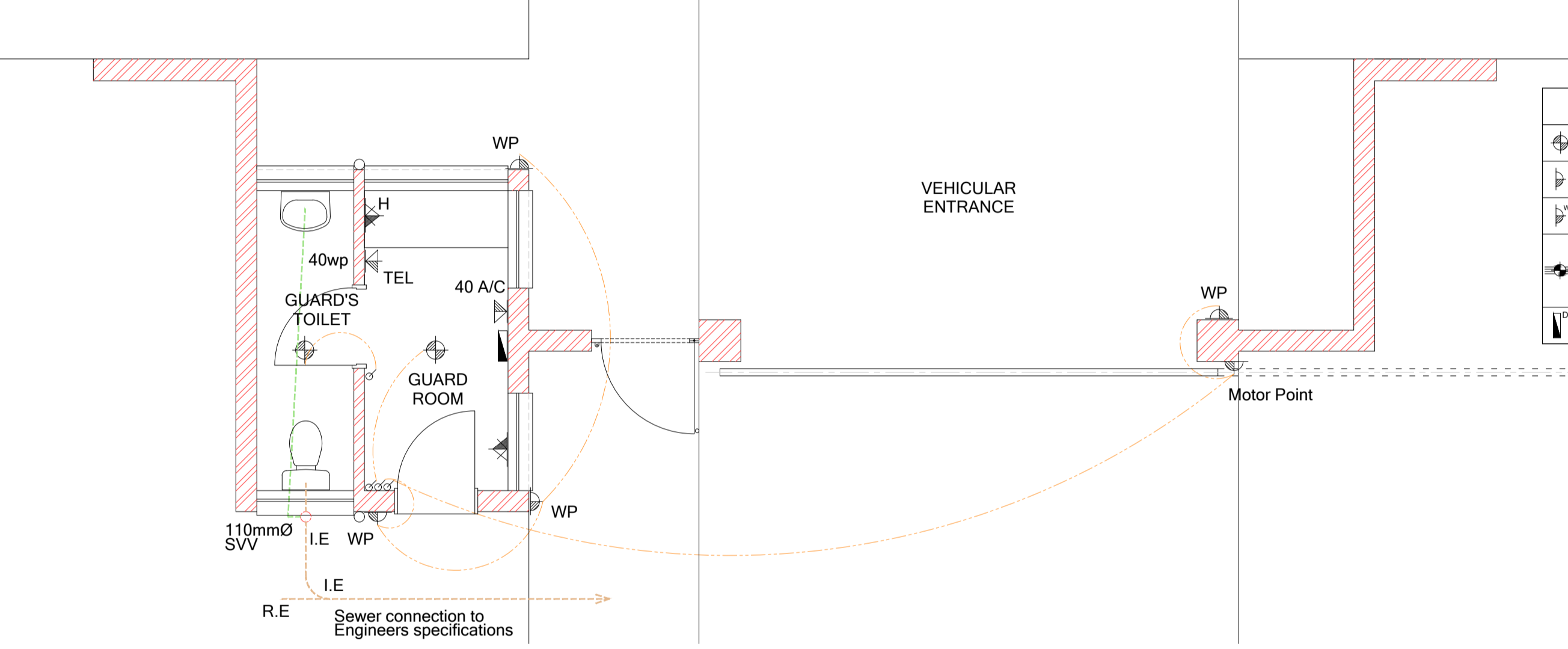
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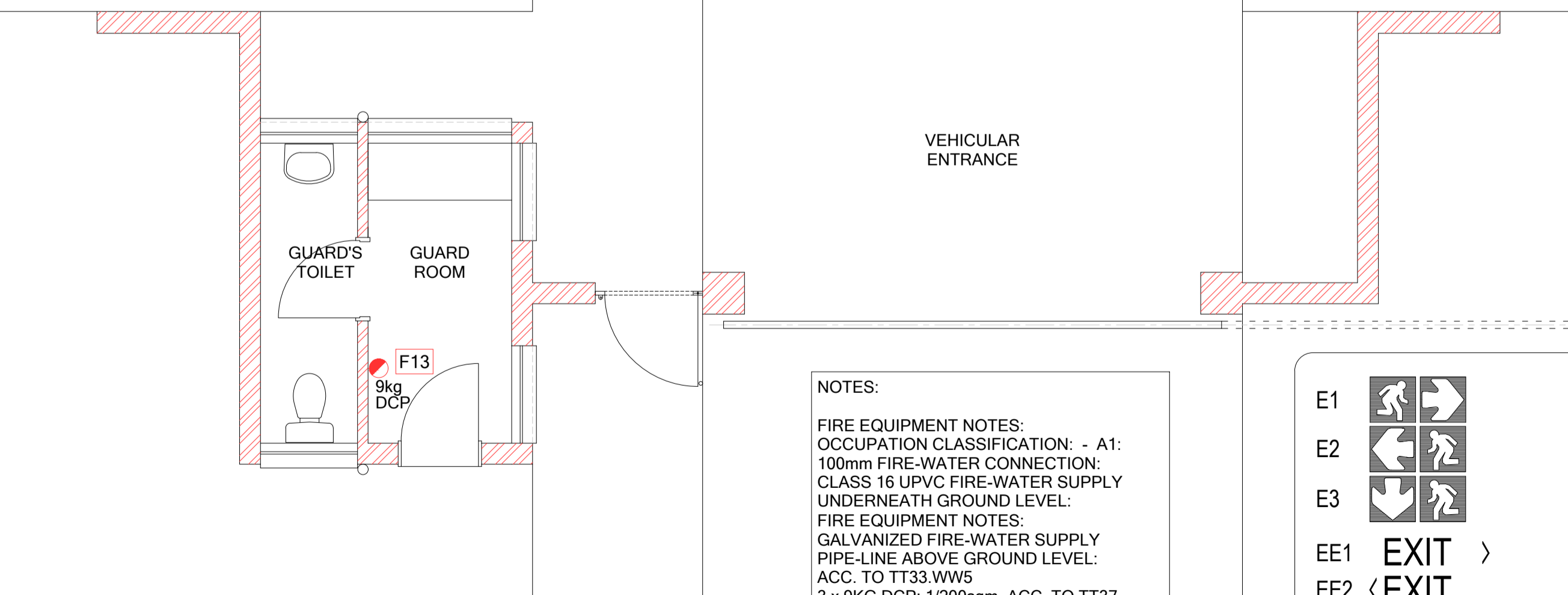


NOTE:
FOUNDATION PLAN & DETAILS - WHERE APPLICABLE REFER TO ENGINEERS DRAWINGS & DETAIL FOR REINFORCED CONCRETE FOUNDATIONS.

FOUNDATION PLAN - Gate-House
 Scale 1:50

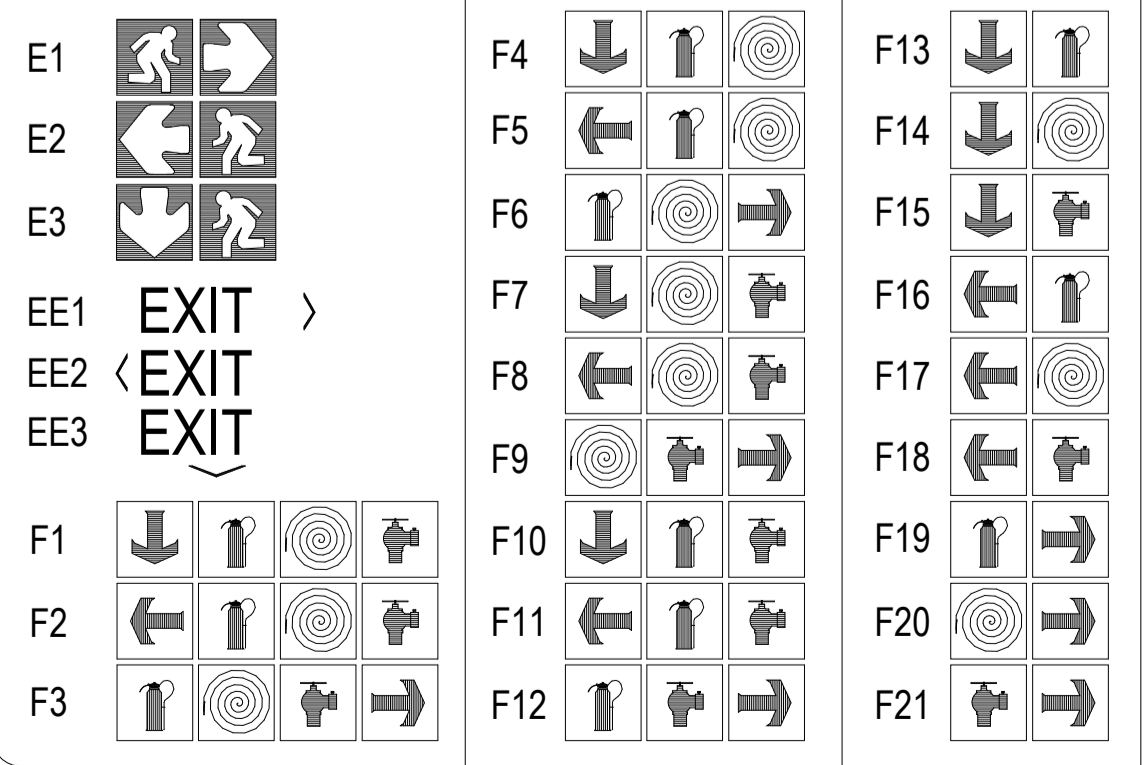


PLAN: Gate-House
Sewer Drainage & Electrical Layout
 Scale 1:50



PLAN: Gate-House
Water & Fire Equipment Layout
 Scale 1:50

NOTES:
FIRE EQUIPMENT NOTES:
 OCCUPATION CLASSIFICATION: - A1:
 100mm FIRE-WATER CONNECTION:
 CLASS 16 UPVC FIRE-WATER SUPPLY
 UNDERNEATH GROUND LEVEL:
FIRE EQUIPMENT NOTES:
 GALVANIZED FIRE-WATER SUPPLY
 PIPE-LINE ABOVE GROUND LEVEL:
 ACC. TO TT33.WW5
 3 x 9KG DCP: 1/200sqm. ACC. TO TT37.
 2 x 30m FIRE HOSE REEL ACC. TO TT34
 SIGNAGE & EQUIPMENT ACC. TO TT32
 SIZES OF SIGNAGE MINIMUM 150x150mm
 PROVIDED BY SPECIALIST ACC. NBR &
 MUNICIPAL APPROVAL.
 SIZES OF STEPS, RISERS: 170mm
 TREADS: 250mm
 ACC. TO MM2.3 & 2.4 REF TO SECTION.



CONSTRUCTION NOTES

Foundations
A1 Concrete foundations - concrete mix type and with steel reinforcement according to structural engineer's drawings. Top of strip footings to be 340mm minimum below N.G.L. Provide test cubes (1 per 15m³ or 1 per batch).
A2 Backfilling and filling under floors - in general, approved filling compacted to at least 93% Mod. AASHTO density in layers of maximum 150mm - refer to engineer's drawings for detail in case of poor soil conditions. Minimum of 170mm filling to be provided above natural or compacted ground level under floors. All filling to be approved by engineer (imported filling to be minimum G5 or G7 material as per engineer's drawings). Compaction tests to be provided at a rate of one test per 125m³ filling area under floors per each layer of 150mm compacted filling. Filling under floors to be treated with anti poison of the Prothor 200 SC or other approved type applied at a rate of not less than 5 litres of solution per m² by a firm of specialists in accordance with SANS Specification 1165 and SANS Code of Practice 0124. Concrete to be casted within 24 hours of application. Contractor to provide five year guarantee.

Surface beds and floors
B1 Surface bed - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with saw cut joints with joints filled up with polysulfide sealer. All saw cut joints to be done within 24 hours after casting of concrete. Provide 10mm thick bitumen impregnated soft board between all walls and concrete and seal joint with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m³ or 1 per batch).
B2 Surface bed on walkways - concrete mix as described on structural engineer's drawings but minimum 85mm thick on SANS Specification 952 Type C approved USB Green 250 micron waterproofing membrane with laps sealed with pressure sensitive tape. Surface bed cast in alternative sections of maximum 20m² with expansion joints with joints filled up with polysulfide sealer. Provide mesh ref. no. 193 as per structural engineer's drawings. Provide test cubes (1 per 15m³ or 1 per batch).
B3 Screed and floor finish on walkways - Average 30mm thick wood floated 1:4 granolithic screed sloping towards edges. At all external door openings external surface beds must be level with granolithic threshold finish. Finish off edges of screed smooth with edging tool.
B4 Apron - 1200mm wide 15MPa mass concrete apron with wood floated finish. Apron to be cast in alternative sections in lengths of maximum 3m and to have a 1:100 fall away from building. Apron edge to be thickened by 240mm wide x 115mm deep (net) edge excavated in natural or finished ground level.

Skirtings
C1 19 x 76mm Meranti skirting plugged to walls at 400mm c/c with 19mm meranti quadrant bead plated on. Sand down to a smooth finish, stop with Polycell Woodfiller, stain with Plascon Woodcare Stain (W-range)(colour meranti), apply one coat Plascon Woodcare Ultra Varnish (X44), thinned with 1:3 mineral turpentine (AZH1) and apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to skirtings.

Walls and structure
D1 External walls - Corobrik face bricks in stretcher bond with 10mm wide x 6mm deep square recessed joints.
D2 Brickforce - Brickforce to 115 and 230mm foundation walls - every 2nd course. Superstructure walls - every 6th course. Over openings formed in brickwork as per table below.
D3 15 x 75 x 3mm Thick tubular sections with 250mm girth x 4.5mm thick flat section U-shaped fixing bracket, 200mm long, twice holed and welded to top, 200 x 200 x 10mm thick flat section baseplate, four times holed and welded to bottom. Columns to be fixed to top of brickwork below copings with four M10 x 75mm masonry anchor bolts. Degrease with Plascon Aquasolv Degreaser (GR1), remove rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Door & Trims high gloss enamel paint - colour as per finishes schedule.
D4 50 x 228mm Laminated SA Pine beam twice bolted to steel columns. Sand down to a smooth finish, stop with Polycell Woodfiller, provide one coat raw linseed oil thinned with 1:3 mineral turpentine (AZH1), apply one coat Plascon Woodcare Sunproof (Amber - PNW22) suede varnish.
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D9 Expansion joints in walls and ceilings to be covered with 2 x 50mm Migua KF250/30 aluminium cover strips.

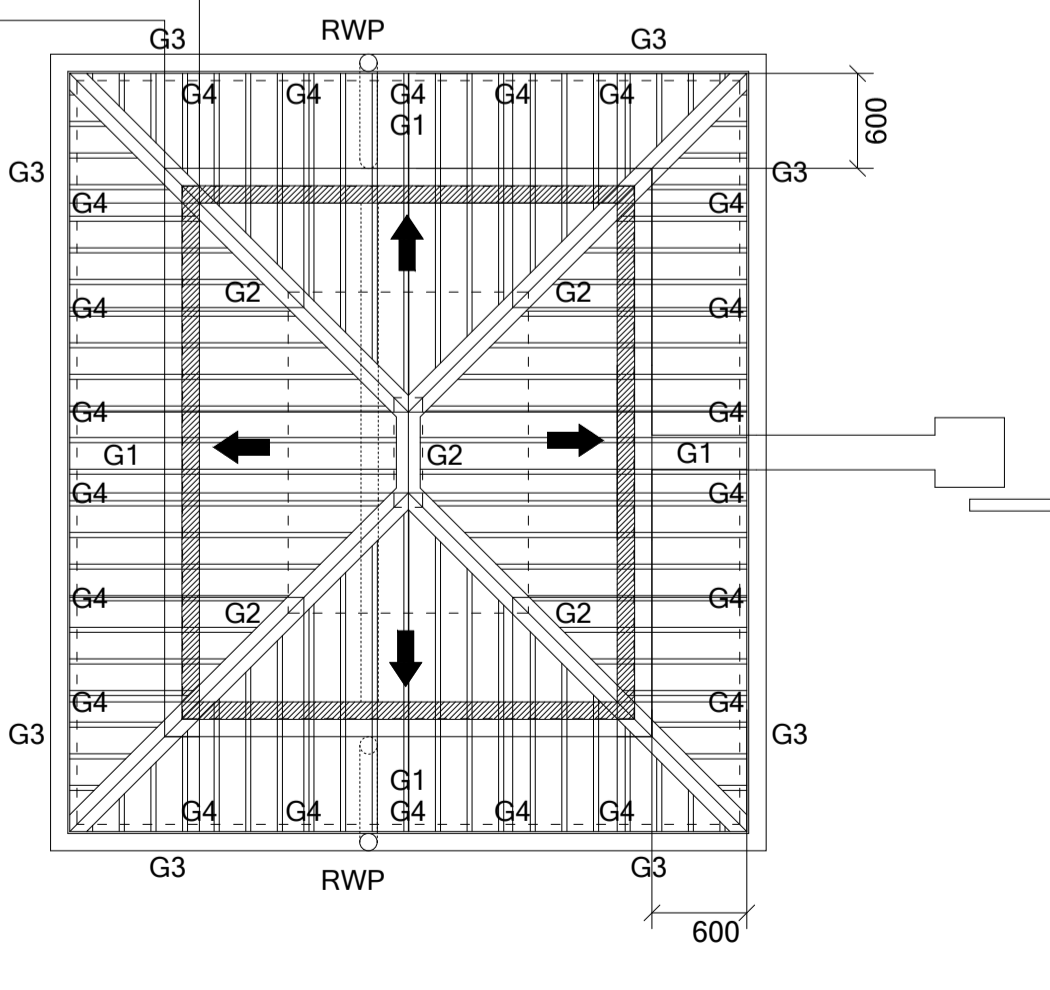
Window
E1 Internal window sills - 15 x 150mm nutec-cement window sills, bedded and set flat in 1:4 cement mortar. Prime with one coat Plascon Multi-surface Primer (WUP1) and apply two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour as per finishes schedule.
E2 External window sills - Middelwit Fynbos Geel face brick-on-edge sloping sill to match walls with 10 x 6mm square recessed joints.

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F2 Ceilings - 6mm Everite Nutec fibre-cement boards nailed to 38 x 38mm SAP bracing at 400mm centres maximum with galvanised clout nails. Provide H-profile galvanised jointing strips. Jointing strips to be pre-painted. Prime ceilings with one coat Plascon Multi-Surface Primer (WUP1) and finish off with two coats Plascon Polvin Walls & Ceilings (EPL) PVA paint. Colour White (EPL30). Provide 100mm thick Aerolite insulation on top of ceilings.
F3 Plastered ceiling as per finishes schedule.
F4 610 x 610mm Trap door formed of 50 x 65mm SA pine rebated frame with 38 x 38mm SA pine cross bender covered with ceiling board and fitted flush in opening. Provide 18 x 50mm meranti surround. Trap door and surround to be painted as for ceiling. Trap door opening between trusses to be formed with 38 x 114mm SA pine bearers, nailed to trusses.

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G2 Ridge and hip flashings - 0.8mm galvanised sheet iron standard factory manufactured FK3 ridge or hip flashing with Globalcoat finish (colour Traffic Green).
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G4 Truss system - Mitek or other approved patent timber pre-fabricated truss system at maximum 1100mm centres with 20 degrees pitch. 50 x 76mm SAP purlins at maximum 1200mm centres. 38 x 114mm SAP wall plate to be carboliteum treated before fixing. Truss manufacturer to provide certificate and guarantee for design and erection of trusses as well as detailed shop drawings. Shop drawings to be provided to the Principal Agent for approval before manufacturing. All sections in contact with wet treated to be carboliteum treated before fixing in position. Trusses to be secured to walls with 2.5mm diameter galvanised steel wire ties, built into walls minimum 6 courses. Purlins nailed to trusses must also be secured with 2.5mm diameter galvanised steel wire, twice wrapped around and purlins. All exposed parts of trusses, purlins, etc. to be sanded smooth, seal knobs with Plascon Knot Seal (PK2), prime with one coat Plascon Wood Primer (UC2) and apply two coats Plascon Enamel Doors & Trims paint. Colour as per finishes schedule.
G5 Gutters - 100 x 100mm High gutters formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All brackets, etc. to be pre-coated with Globalcoat to match colour of gutters.
G6 Downpipes - 100mm Diameter downpipes formed of 0.58mm galvanised sheet iron with Globalcoat finish (colour Gemsbok Sand). All holderbats, brackets, etc. to be pre-coated to match colour of downpipes.
G7 Barge flashing over barge boards at louvres - 0.8mm galvanised sheet iron standard factory manufactured FK13 barge or gable flashing with Globalcoat finish (colour Traffic Green).
G8 Flashings at bottom of louvres - 0.8mm galvanised sheet iron standard factory manufactured FK8 headwall flashing and FK7 counter flashing with Globalcoat finish (Colour Traffic Green).

Fittings
H1 Vitrex Model 2400 (code 2404) enameled green folding type writing board with wall mounted centre board 2000 x 1200mm high, two wall mounted side boards each 1000 x 1200mm high and two swing leaves each 1000 x 1200mm high with permanent aluminium chalk rail.
H2 Vitrex System 2000 (code 2317) light grey wall mounted pinning board, size 2000 x 1200mm high (2 per classroom).
H3 Greenfield C25 double door steel cupboard with hard baked enameled finish, 760 x 610 x 1700mm high with four shelves (2 per classroom).
H4 Five rows of 19mm Thick laminated SA Pine shelving, 350mm wide, evenly spaced & fixed from underside to 305mm wide Shelco epoxy powder coated steel brackets. Brackets to be fixed to 25mm wide x 2134mm long double slotted epoxy powder coated Shelco type FT6 wall bands, plugged to walls at maximum 600mm c/c. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra Varnish (X44) thinned with 1:3 mineral turpentine (AZH1) then apply two finishing coats Plascon Woodcare Clear Ultra (X44) suede varnish to shelves.

Miscellaneous
I1 9 Kg DCP fire extinguisher fitted to 400 x 200 x 22mm thick meranti backplate with chamfered edges. Sand down to a smooth finish, stop with Polycell Woodfiller, apply one coat Plascon Woodcare Ultra (X44) suede varnish thinned with 1:3 mineral turpentine (AZH1) and then apply two finishing coats Plascon Woodcare Ultra (X44) suede varnish to back plate. Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire extinguisher sign and Union AL5066-E08/2AS aluminium red down arrow sign above fire extinguisher.
I2 Safex fire hose reel with 30m hose. Supply 152 x 152 x 3mm thick Union AL5066-06ASE05 aluminium engraved red fire hose reel sign & Union AL5066-06ASE08 aluminium engraved red down arrow sign above fire hose reel. Water supply in buildings to fire hose reel to be 20mm galvanised mild steel. Degrease exposed parts of pipes with Plascon Aquasolv Degreaser (GR1), remove any rust with Plascon Rust Remover (RR1), prime with Plascon Metal Primer (UC501) and apply two coats Plascon Enamel Doors & Trims (C-Range) paint - colour Signal Red (G7). Provide 150 x 150mm Union AL5066-E05/2AS aluminium fire sign & Union AL5066-E08/2AS aluminium red down arrow sign above fire hose reel.



ROOF PLAN: Gate-House
 Scale 1:50

NOTES :

- 1) Workmanship to comply with Standard Specification of materials and methods to be used - SABS 0400
- 2) Light Switch in Disabled toilet to be at 1200 mm above FFL
- 3) If Step over 800 mm Built in Balustrade
- 4) Gully positions to be determined as per site prescribed overall drainage design
- 5) 2 x coats sealant on all exposed trusses (sand off all SABS & other markings)
- 6) 50 mm mineral wool insulation to be installed where there are ceilings
- 7) Bubble plastic insulation with foil backing to be installed with wire supports in all areas that do not have ceilings
- 8) West Facing Facades to have standardised aluminium louvers from below eaves to drop of 1200 mm
- 9) Trusses to be designed in accordance with SABS 0400 & approved by Project Engineers

ISSUED FOR TENDER

SIGNATURE TABLE		
DISCIPLINE	SIGNATURE	DATE
CLIENT		
PLAN EXAMINER		
FIRE CONTROL		
ENVIRONMENTAL OFFICER		
ROADS / STORMWATER		
WATER AND SANITATION		
ENVIRONMENTAL OFFICER		

REV No	DATE	DESCRIPTION



INSTITUTION

MOLESHSTLOU SECPNDARY SCHOOL

INSTITUTION EMIS NUMBER

920210128

SERVICE

CONTRACT - SECTION

DOCUMENTATION & PROCUREMENT

DISCIPLINE PROJECT STAGE

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION

GUARD HOUSE

DRAWING DESCRIPTION

FOUNDATION, SEWER, FIRE AND ROOF

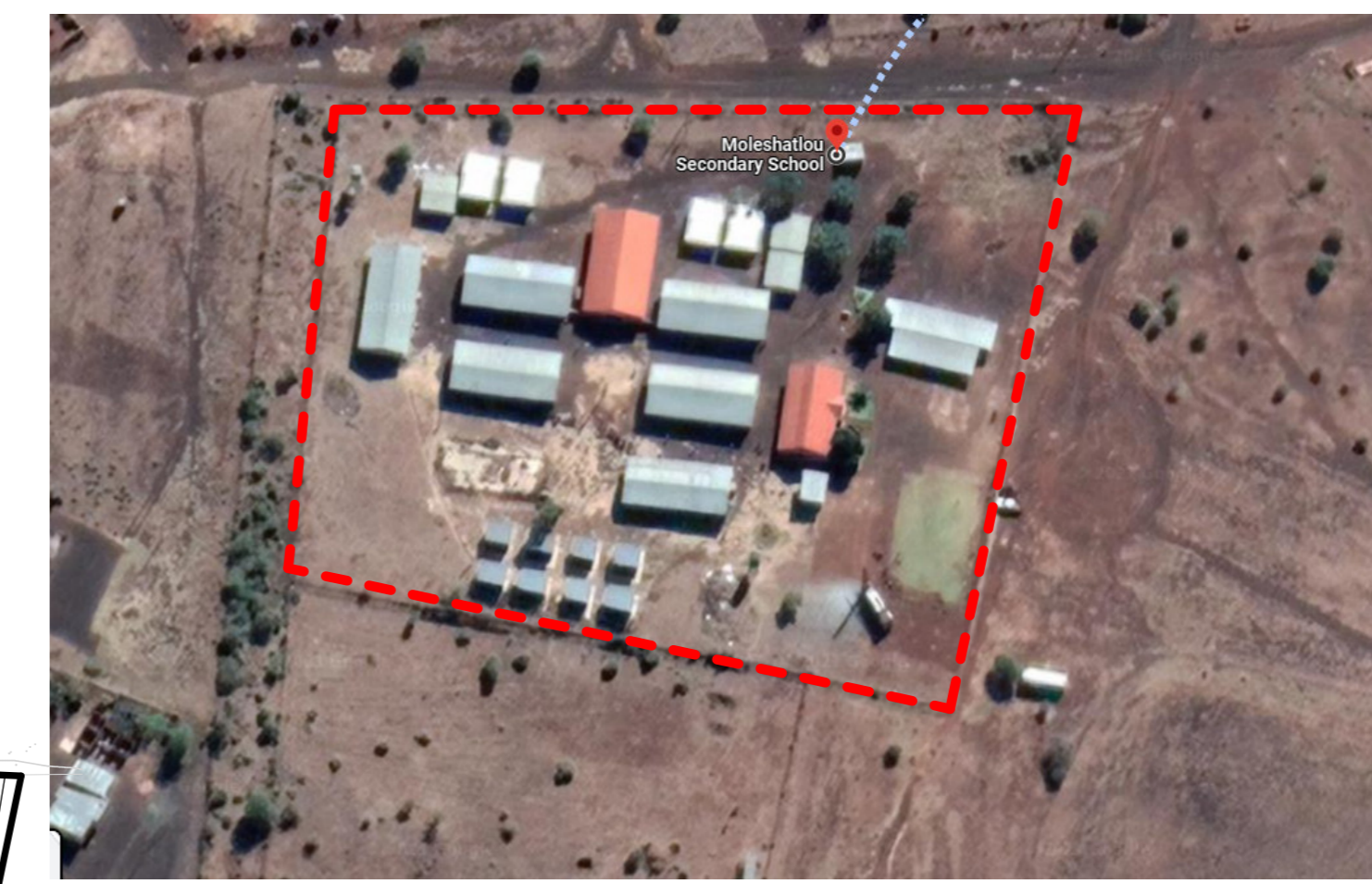
FILE No.	ITEM No.

DATE	NAME	SIGNATURE	PR NUMBER
2023/06/20	YUSUF VAHED		PA7812

DRAWING CO-ORDINATED

CONSULTANT

CADD SYSTEM	AUTO CAD	FILE NAME
A 1	2020_76-GH-003	A



LOCALITY MAP

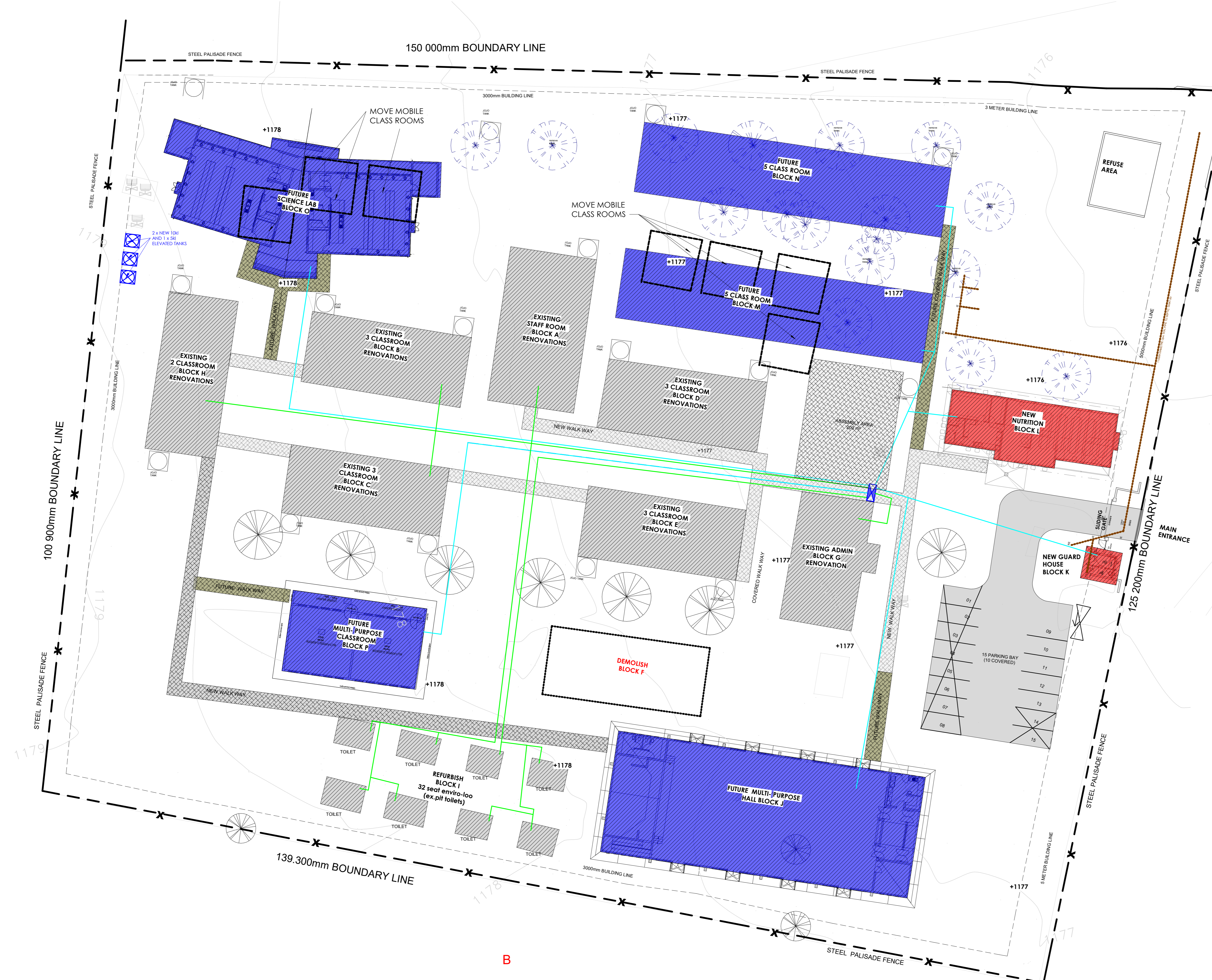


TABLE 2A: DEMOLITION WORKS

NO	Building Usage	(sqm)	QUANTITY
01	BLOCK F	210	1
02			
03			
04			
05			
06			
07			

TABLE 2B: RENOVATION/REFURBISHMENT WORKS

NO	Building Usage	(sqm)	QUANTITY
01	BLOCK A - Admn block	240	1
02	BLOCK B - 3 classroom block	207	1
03	BLOCK C - 3 classroom block	207	1
04	BLOCK D - 3 classroom block	215	1
05	BLOCK E - 3 classroom block	215	1
06	BLOCK G - Staff block	185	1
07	BLOCK H - 3 classroom block	207	1
08	BLOCK I - 32 SEAT ENVIRO LOO		

TABLE 2C: NEW WORKS

NO	Building Usage	(sqm)	QUANTITY
01	NUTRITION CENTRE	185	1
02	GUARD HOUSE	15	1
03	ASSEMBLY AREA	200	1
04	15 PARKING BAYS		15
05	STEEL PALISADE FENCE		
06			
07			

TABLE 2D: FUTURE PROPOSAL

NO	Building Usage	(sqm)	QUANTITY
01	MULTIPURPOSE HALL	865	1
02	MULTIPURPOSE CLASSROOM	207	1
03	SCIENCE LAB	250	1
04	COMPUTER LAB	250	1
05	5 CLASSROOM BLOCK	410	2
06			
07			

TABLE 2D: CLASSROOM SUMMARY

CLASSROOM BLOCK	QUANTITY
2 CLASSROOM BLOCK	1
3 CLASSROOM BLOCK	4
5 CLASSROOM BLOCK	2

TABLE 01: SUMMARY FOR HUMAN CAPITAL

TABLE 1A: Grade Enrolment Figures For:

GRADES	Number Of Pupils:		
	BOYS	GIRLS	TOTAL
GRADE 8	0	0	0
GRADE 9	0	0	0
GRADE 10	0	0	0
GRADE 11	0	0	0
GRADE 12	0	0	0
	0	0	0
	0	0	0
	0	0	0
TOTAL	0	0	0
TEACHERS	0	0	0

LEGEND

- NEW BUILDING BLOCKS - NOTE: 2 JOJO tanks on each block
- FUTURE BUILDING BLOCKS - NOTE: 2 JOJO tanks on each block
- EXISTING BUILDING TO REMAIN UNCHANGED
- EXISTING BUILDING BLOCKS TO BE RENOVATED - NOTE: 2 JOJO tanks on each block
- EXISTING BUILDING BLOCKS TO BE DEMOLISHED
- NEW WALK WAYS
- EXISTING WALKWAY
- FUTURE WALKWAY
- DRIVE WAYS TO BE PAVED
- WATER SUPPLY PIPES - HDPE CLASS 6
- - - SEWER PIPES - PVC CLASS 6
- - - WASTE PIPES - PVC CLASS 6
- ☒ ELEVATED WATER TANKS
- ⊕ ISOLATION VALVE
- ⊙ STANDPIPE
- ⊙ BOREHOLE

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SIGNATURE TABLE:

DISCIPLINE:	SIGNATURE:	DATE:
CLIENT:		
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FIRE CONTROL:		
ENVIRONMENTAL OFFICER:		
ROADS/STORMWATER:		
WATER AND SANITATION:		
ENVIRONMENTAL OFFICER:		

REV No. DATE DESCRIPTION

1 SITE DEVELOPMENT PLAN
1:250



INSTITUTION: MOLESHATLOU SECONDARY SCHOOL
 INSTITUTION ROLL NUMBER: 920219128
 SERVICE: NEW BUILDINGS & ALTERATIONS
 CONTRACT / SECTION: DOCUMENTATION & PROCUREMENT
 DISCIPLINE: ARCHITECTURAL PROJECT STAGE: 04
 DRAWING DESCRIPTION: SITE DEVELOPMENT PLAN (SDP)

DATE: 2023.06.19 Y: V: M: 7912
 CONSULTANT: ruben redy architects
 RUBY & NO. 8 BERRY OFFICE BUILDING
 8 BERRY STREET, PORTERBURG, 2024 SOUTH AFRICA
 TEL: +27 21 854 6122
 E: info@rubenredy.co.za

CONTRACTOR:

DRAWING SYSTEM:	REV:	FILE NAME:
A0	2020_91-SDP-001	00

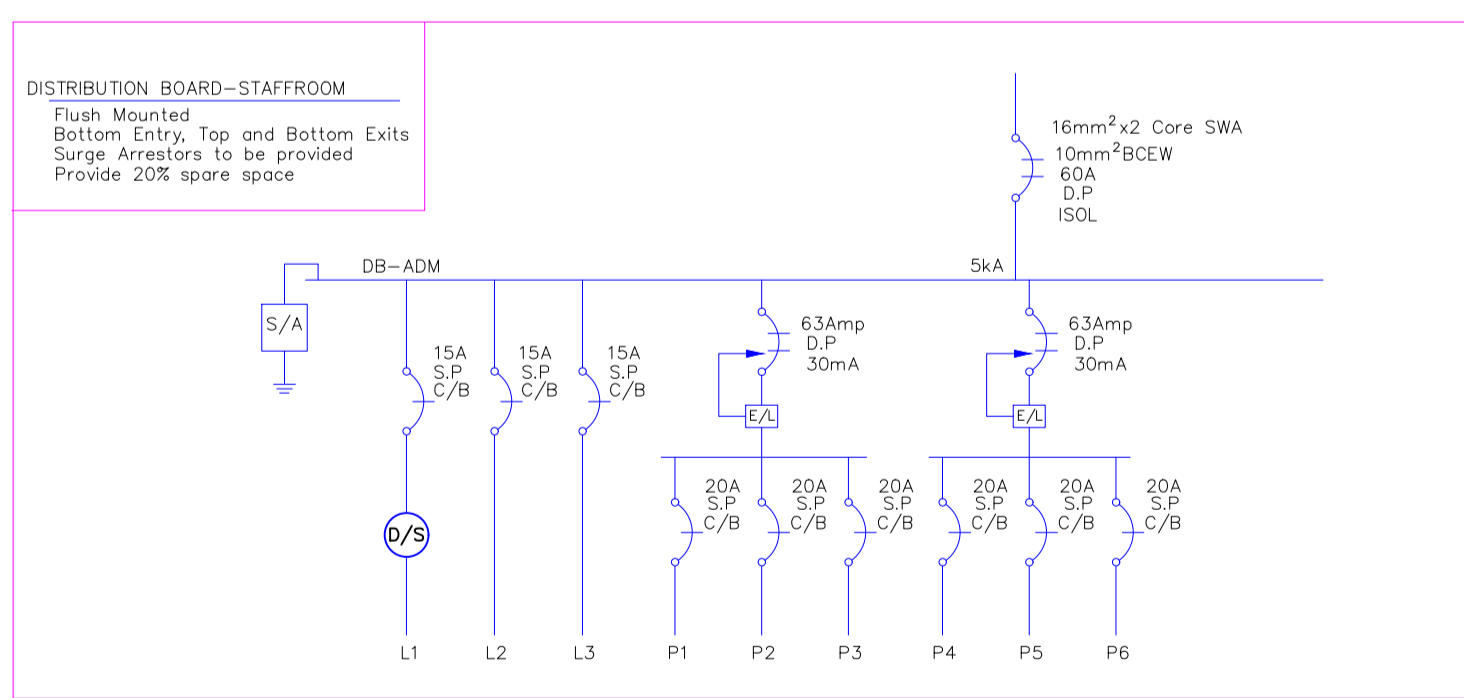
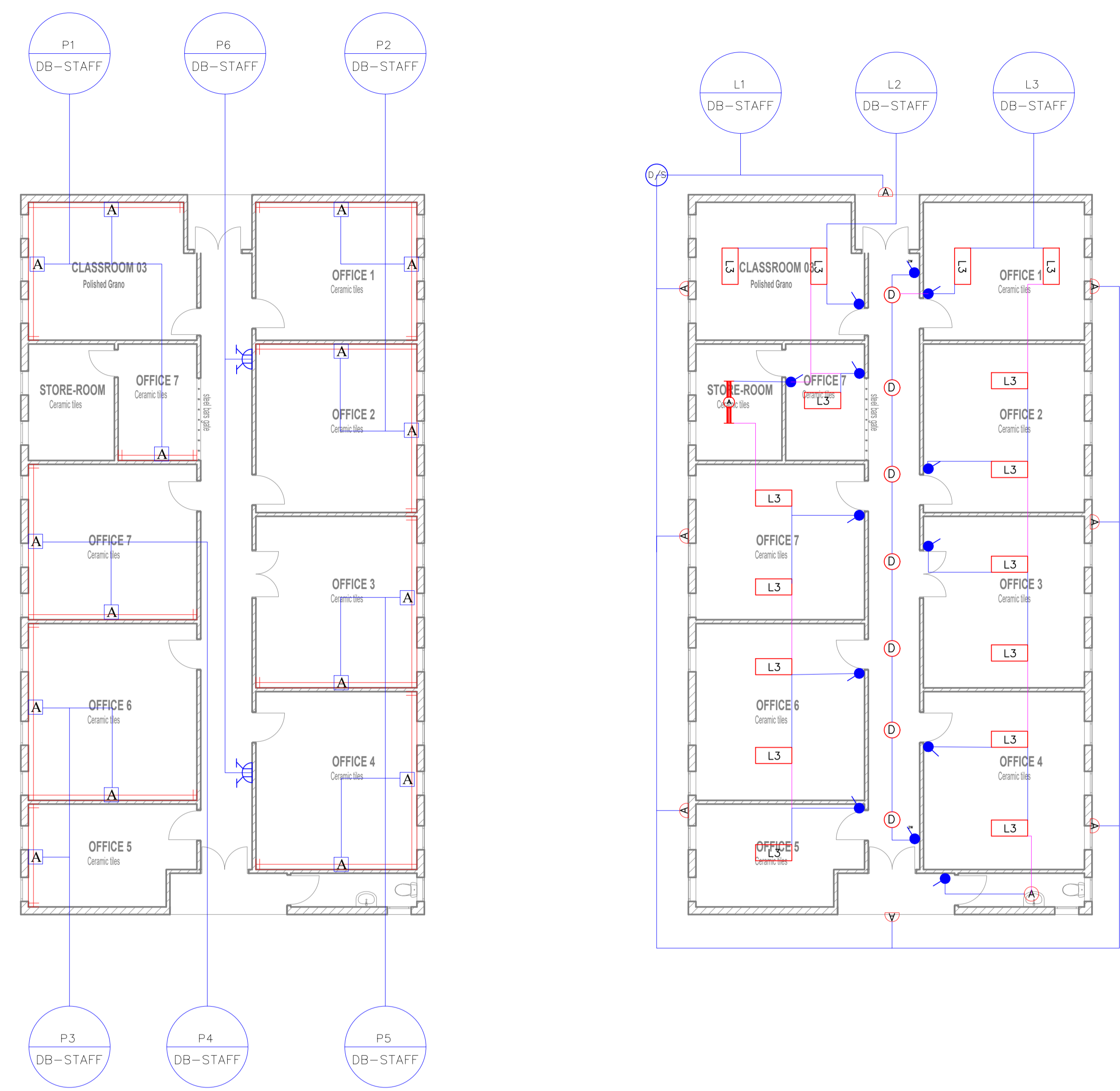
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 - DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

	57W CFL POST TOP FITTING ON 3M POLE
	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m T5 FLUORESCENT FITTING
	2x37W 1.5m T5 FLUORESCENT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES



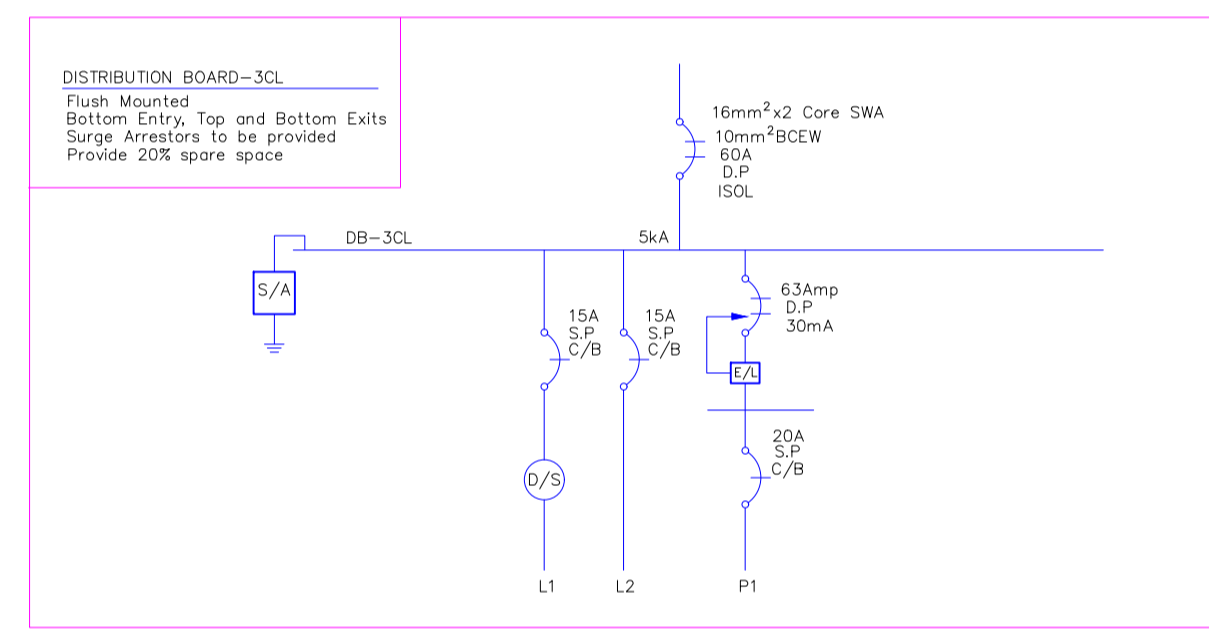
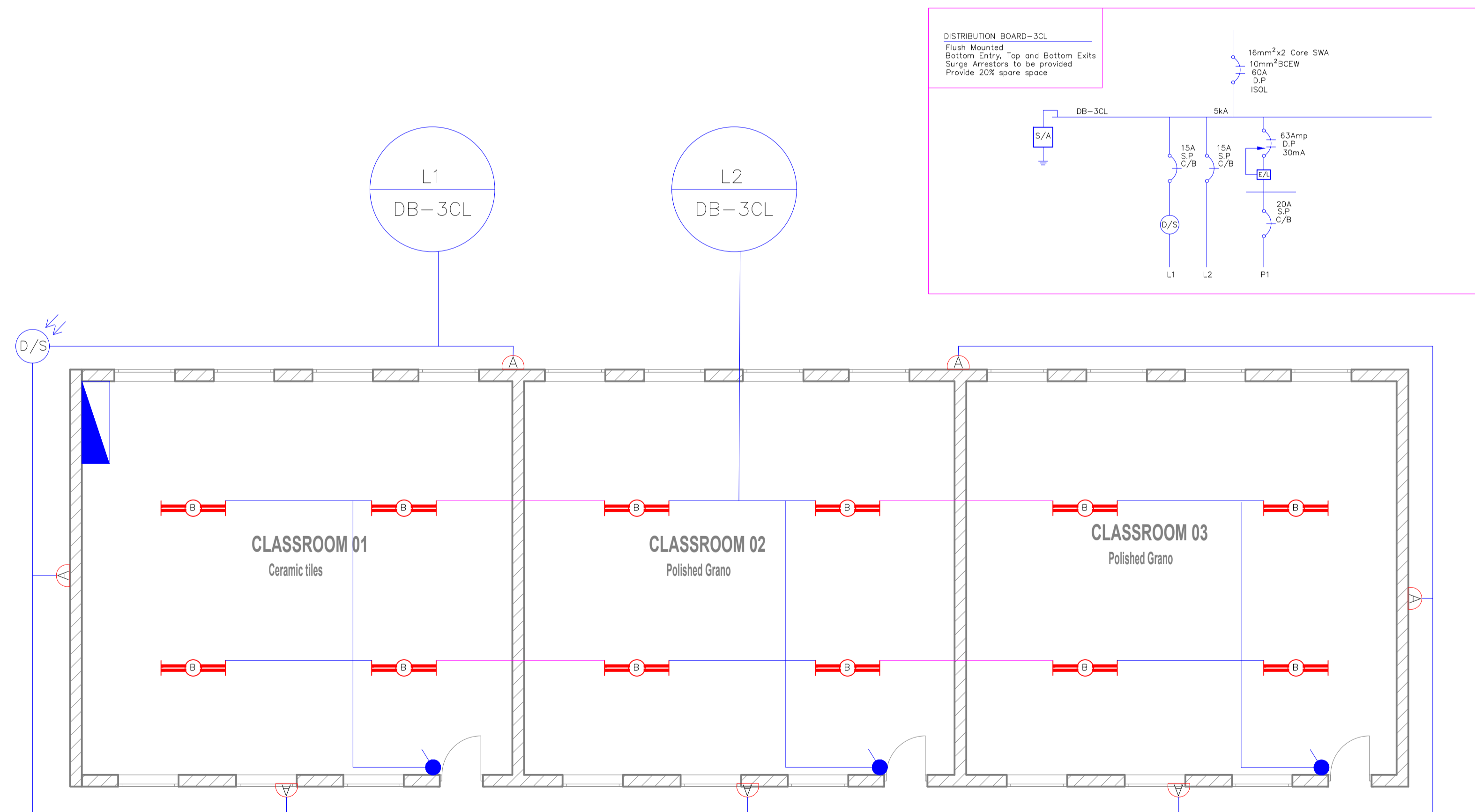
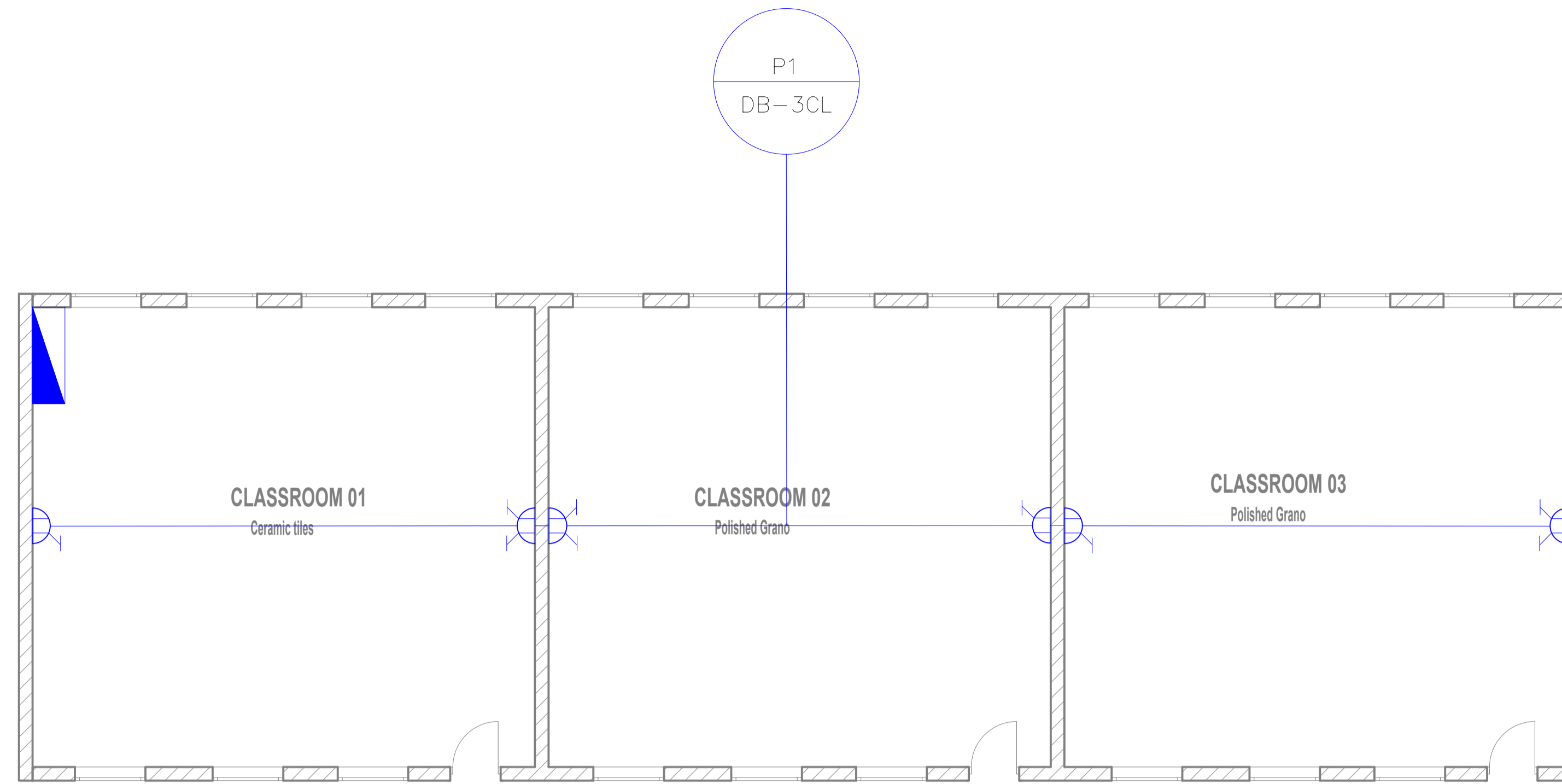
REV	DATE	CHK	APP	DESCRIPTION

 Department of Public Works, Roads and Infrastructure		39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	<table border="1"> <tr> <th>PROJECT APPR.</th> <th>DATE</th> <th>BY</th> <th>SIGNATURE</th> </tr> <tr> <td>DESIGNED</td> <td>18/10/2021</td> <td>E.KHUMALO</td> <td> </td> </tr> <tr> <td>CHECKED</td> <td>18/10/2021</td> <td>V.FUNGHEHLE</td> <td> </td> </tr> <tr> <td>DRAWN</td> <td>18/10/2021</td> <td>E.KHUMALO</td> <td> </td> </tr> <tr> <td>PROJECT MNG.</td> <td>-</td> <td>-</td> <td> </td> </tr> <tr> <td>APPROVED</td> <td>-</td> <td>-</td> <td> </td> </tr> <tr> <td>CLIENT</td> <td>-</td> <td>-</td> <td> </td> </tr> </table>	PROJECT APPR.	DATE	BY	SIGNATURE	DESIGNED	18/10/2021	E.KHUMALO		CHECKED	18/10/2021	V.FUNGHEHLE		DRAWN	18/10/2021	E.KHUMALO		PROJECT MNG.	-	-		APPROVED	-	-		CLIENT	-	-		SCALE DO NOT SCALE IF IN DOUBT ASK.	TITLE MOLESHTLOU SECONDARY SCHOOL STAFF - ADMIN BLOCK LIGHTS AND PLUGS LAYOUT
PROJECT APPR.	DATE	BY	SIGNATURE																														
DESIGNED	18/10/2021	E.KHUMALO																															
CHECKED	18/10/2021	V.FUNGHEHLE																															
DRAWN	18/10/2021	E.KHUMALO																															
PROJECT MNG.	-	-																															
APPROVED	-	-																															
CLIENT	-	-																															
PROJECT No. DRG SIZE A1 DRAWING No. MC/LDPWRI/EE/001																																	

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 - INSTALLATION ON LIGHTNING PROTECTION TO COMPLY WITH SANS 10313 IN CONJUNCTION WITH SANS2305-1.
 - DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.



POWER LEGEND

G	57W CFL POST TOP FITTING ON 3M POLE
A	2x18W ROUND CEILING MOUNT BULKHEAD
A	2x18W ROUND WALL MOUNT BULKHEAD
D	2x18W DOWN LIGHTER
E	2x23W 1.2m T5 FLUORESCENT FITTING
F	2x37W 1.5m T5 FLUORESCENT FITTING
L3	3x23W 1.2m LBR LIGHT FITTING
S/A	16A SA/EURO SWITCH SOCKET OUTLET
ISOL	SINGLE PHASE ISOLATOR
A	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
SK	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
SP	LIGHTNING PROTECTION
S1	1 LEVER 1 WAY SWITCH
S2	2 LEVER 1 WAY SWITCH
S3	1 LEVER 2 WAY SWITCH
DS	DAYLIGHT SWITCH 16A
TEL	TELEPHONE DB
DATA	DATA DB
DB	DISTRIBUTION BOARD NORMAL
K	KIOSK
C	CIRCUIT
S	SWITCHING
SWA	LOW VOLTAGE CABLE SWA
PVC	CABLE PVC SLEEVES

				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	TITLE
							DESIGNED	21/10/2021	E.KHUMALO		DO NOT SCALE IF IN DOUBT ASK.	MOLESATLOU SECONDARY SCHOOL THREE CLASSROOM BLOCK LIGHTS AND PLUGS LAYOUT
				Department of Public Works, Roads and Infrastructure			CHECKED	21/10/2021	V.FUNGHEHLE			
REV	DATE	CHK	APP	DESCRIPTION			PROJECT MNG.	-	-		PROJECT No.	DRAWING No.
1							APPROVED	-	-		MC/LDPWRI/EE/002	
							CLIENT	-	-		DRG SIZE A1	

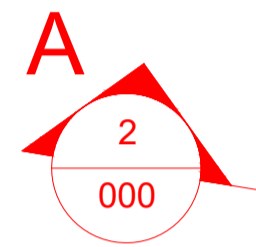
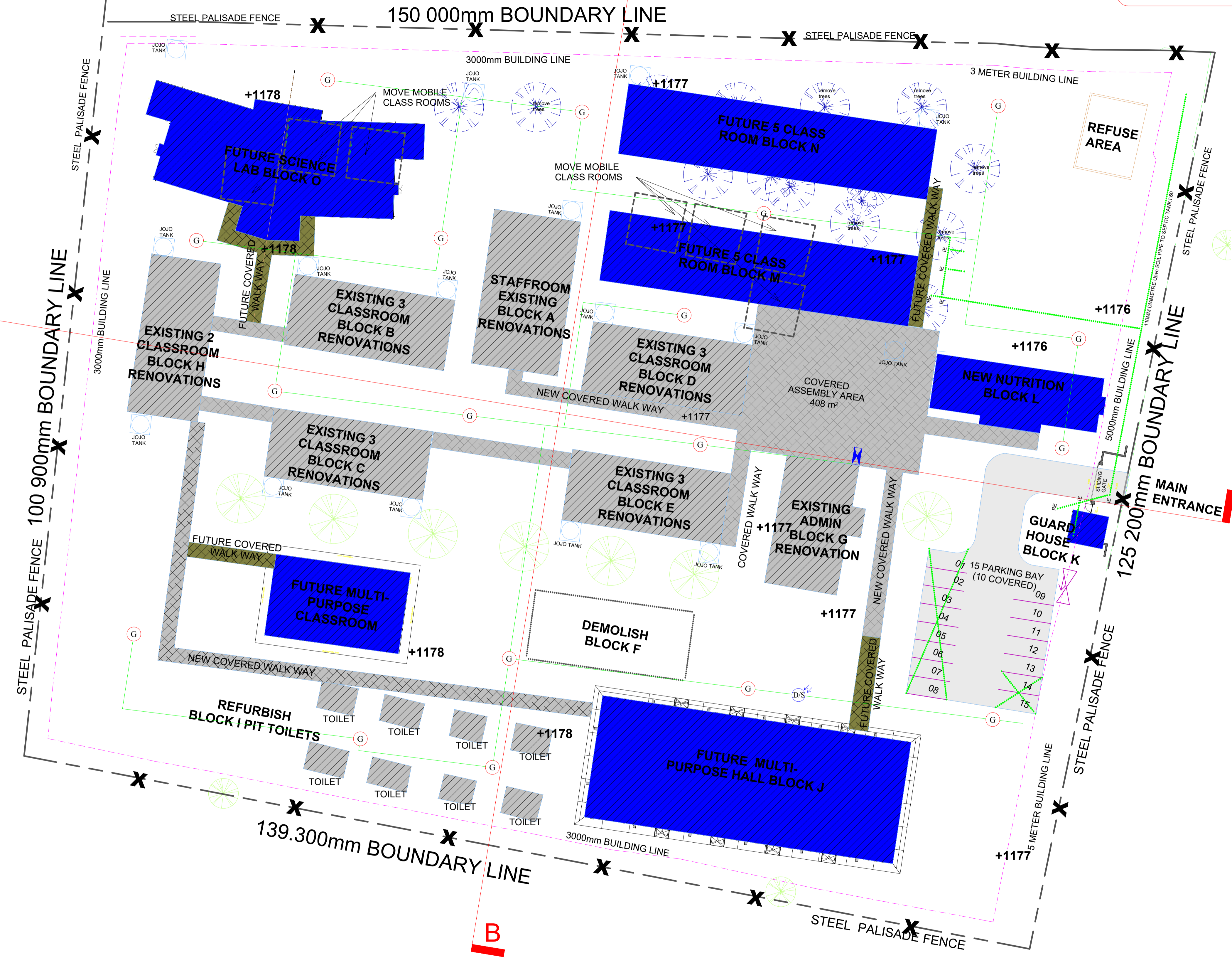
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 5. DB FLUSH MOUNTED WITH POWER SUPPLY CABLE BOTTOM ENTRY AND 20% SPARE CAPACITY, CONDUITS AND WIRES BOTTOM AND TOP EXIT.

POWER LEGEND

	57W CFL POST TOP FITTING ON 3M POLE FUTURE
	57W CFL POST TOP FITTING ON 3M POLE
	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m TS FLUORESCENT FITTING
	2x37W 1.5m TS FLUORESCENT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER.
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	FUTURE LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES



REV	DATE	CHK	APP	DESCRIPTION

CLIENT
 LIMPOPO PROVINCIAL GOVERNMENT
 Department of Public Works, Roads and Infrastructure

MUTEO CONSULTING

PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	14/10/2021	E.KHUMALO	
CHECKED	14/10/2021	V.FUNGHANI	
DRAWN	14/10/2021	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE	TITLE
DO NOT SCALE IF IN DOUBT ASK.	MOLESHATLOU SECONDARY SCHOOL AREA LIGHTING LAYOUT
PROJECT No. DRG SIZE A1	DRAWING No. MC/LDPWRI/EE/005



Drawing Register

Author:	Management Representative	Issue Date:	20 January 2016
Approver:	Chief Executive Officer	Revised Date:	20 January 2016
Doc. No:	FM-QMS-23	Issue No:	01

Project: MOLESHATLOU SECONDARY SCHOOL

Date: 21/02/2022

Subdivision: Electrical

DRAWING REGISTER

Register No 001

Date: 21/02/2022

Issued For:

Tender

Architect Rev No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date Latest Rev Issued	REVISION NO								
						0	1	2	3					
	MC/LDWRI/EE/001	Administration block lights and plugs layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/002	3 Classroom Block lights and plugs layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/003	Kiosk layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/004	Cable Layout	A1	E.K	14/08/2021	X								
	MC/LDWRI/EE/005	Area layout	A1	E.K	14/08/2021	X								

Issuer Name: Edwin Khumalo

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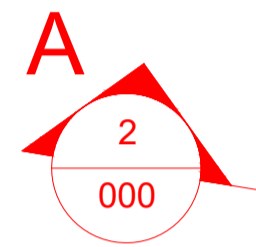
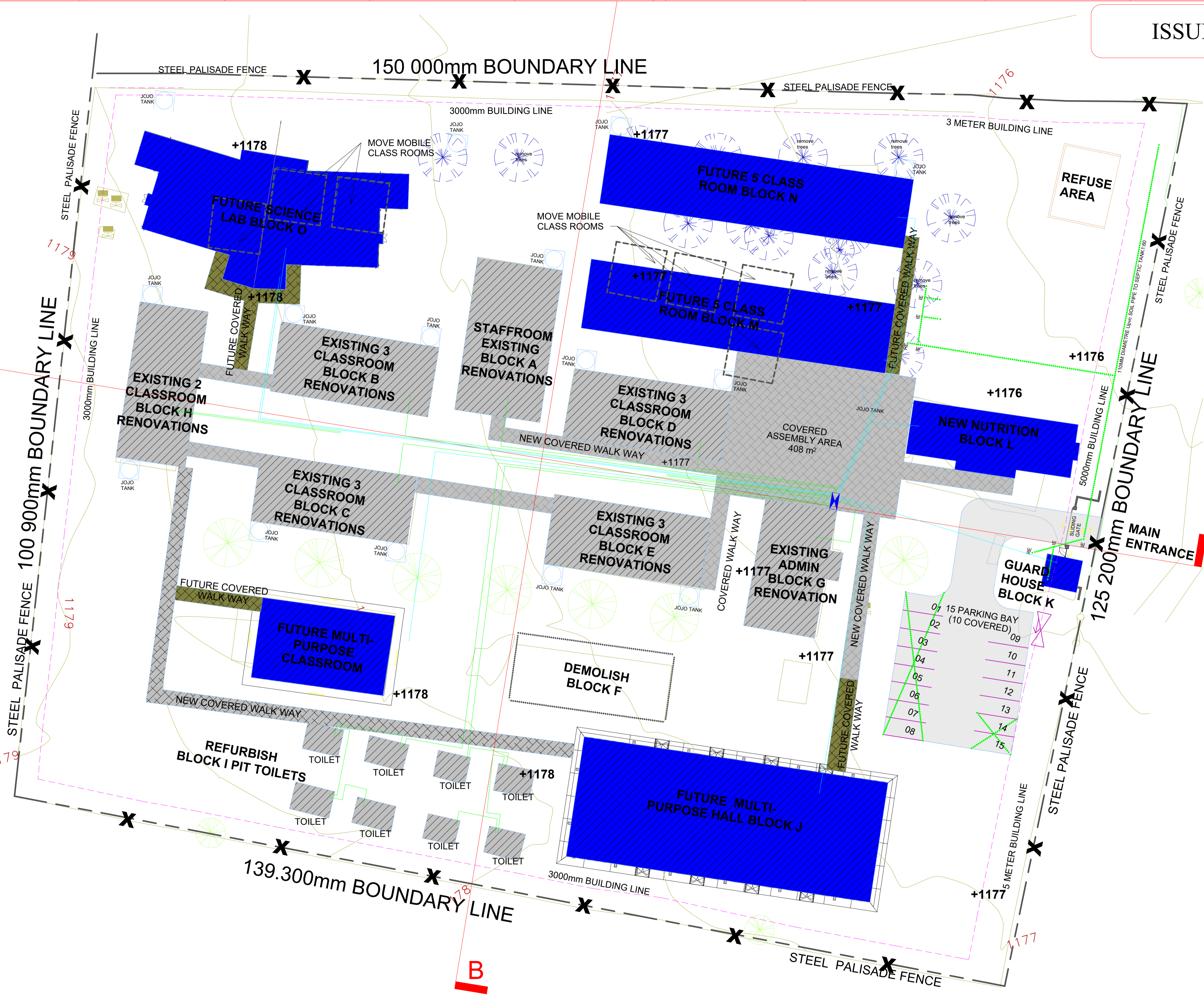
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POWER LEGEND

	57W CFL POST TOP FITTING ON 3M POLE FUTURE
	57W CFL POST TOP FITTING ON 3M POLE
	2x18W ROUND CEILING MOUNT BULKHEAD
	2x18W ROUND WALL MOUNT BULKHEAD
	2x18W DOWN LIGHTER
	2x23W 1.2m T5 FLUORESCENT FITTING
	2x37W 1.5m T5 FLUORESCENT FITTING
	3x23W 1.2m LBR LIGHT FITTING
	16A SA/EURO SWITCH SOCKET OUTLET
	SINGLE PHASE ISOLATOR
	1 NORMAL PLUG, 1 DEDICATED, 1 DATA, 1 TELKOM
	2 COMPARTMENT POWER SKIRTING C/W DIVIDER
	LIGHTNING PROTECTION
	1 LEVER 1 WAY SWITCH
	2 LEVER 1 WAY SWITCH
	1 LEVER 2 WAY SWITCH
	DAYLIGHT SWITCH 16A
	TELEPHONE DB
	DATA DB
	DISTRIBUTION BOARD NORMAL
	KIOSK
	CIRCUIT
	SWITCHING
	LOW VOLTAGE CABLE SWA
	FUTURE LOW VOLTAGE CABLE SWA
	CABLE PVC SLEEVES



REV	DATE	CHK	APP	DESCRIPTION
1				
2				
3				
4				
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8				
9				
10				
11				



39 GROBLER STREET
 POLOKWANE 0699
 P.O. BOX 6196
 POLOKWANE NORTH
 0750
 TEL : (015) 291 4065
 FAX : (015) 291 4043
 website: www.muteo.co.za

PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	14/10/2021	E.KHUMALO	
CHECKED	14/10/2021	V.FUNGHANI	
DRAWN	14/10/2021	E.KHUMALO	
PROJECT MNG.	-	-	
APPROVED	-	-	
CLIENT	-	-	

SCALE
DO NOT SCALE IF IN DOUBT ASK.
PROJECT No.
DRG SIZE
A1

TITLE
MOLESHATLOU SECONDARY SCHOOL CABLE LAYOUT
DRAWING No.
MC/LDPWRI/EE/004



Drawing Register

Author:	Management Representative	Issue Date:	20 January 2016
Approver:	Chief Executive Officer	Revised Date:	20 January 2016
Doc. No:	FM-QMS-23	Issue No:	2

Project: Renovations and additions to MOLESHATLOU Primary School

Date: 23 June 2023

DRAWING REGISTER	Register No 001	
	Issued For:	Construction

Item No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date of Latest Revision	REVISION NO.								
						0	1	2	3	4	5	6	7	
1	LDPWRI SCHOOLS/B/MOLESHATLOU/01	WATER AND SEWER LAYOUT	A1	NM	23-Jun-23	x								
2	LDPWRI SCHOOLS/B/MOLESHATLOU/11	PAVING LAYOUT DRAWING	A1	NM	23-Jun-23	x								
3	LDPWRI SCHOOLS/B/MOKHARI/08	SEPTIC TANK	A1	NM	23-Jun-23	x								
4	LDPWRI SCHOOLS/B&C/01	STEEL PALISADE FENCE	A1	NM	23-Jun-23	x								
5	LDPWRI SCHOOLS/B&C/02	BOREHOLE SPECIFICATIONS	A1	NM	23-Jun-23	x								
6	LDPWRI SCHOOLS/B&C/03	PVC TANK AND STEEL TANK	A1	NM	23-Jun-23	x								
7	LDPWRI SCHOOLS/NUTRISION/2	NUTRISION BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
8	LDPWRI SCHOOLS/RAFTNUTRISION/03	NUTRISION BLOCK FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
9	LDPWRI SCHOOLS/GUARDHOUSERAFT/01	GUARDHOUSE FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x								
10	LDPWRI SCHOOLS/GUARDHOUSERAFT/02	GUARDHOUSE BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x								
11	LDPWRI SCHOOLS/CMOLESHATLOU/03	3 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
12	LDPWRI SCHOOLS/CMOLESHATLOU/04	3 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
13	LDPWRI SCHOOLS/C/MOLESHATLOU/01	2 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
14	LDPWRI SCHOOLS/B/MOLESHATLOU /02	2 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
15	LDPWRI SCHOOLS/C/MOLESHATLOU/08	SMALL ADMIN BLOCK RENOVATION FLOOR JOINTS & DETAILS	A1	NM	23-Jun-23	x								
16	LDPWRI SCHOOLS/C/MOLESHATLOU/07	SMALL ADMIN BLOCK RENOVATION FOUNDATION LAYOUT & DETAILS	A1	NM	23-Jun-23	x								
17	LDPWRI SCHOOLS/C/MOLESHATLOU/06	STAFF ROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x								
18	LDPWRI SCHOOLS/C/MOLESHATLOU/05	STAFF ROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x								

Issued by: NICHOLAS MASHEGO

Received by: _____

Signature: _____

Signature: _____

Date: 2023/06/23

Date: _____

ISSUED FOR TENDER

NOTES.

• Panels: 1.8 x 3m

1. Fence bearers:
 • 40 x 40 x 2mm angle iron. These are to be placed 300mm from top of paling and 300mm from bottom of paling. (350mm from ground level).
 • These are to be welded flash with the back of the post.

2. Palings "Devil fork"
 • 21 palings per panel.
 • 30 x 30 x 2mm steel angle iron paling 1.8m high.
 • Palings to be inserted and firmly welded to the bearers at 133mm centre to centre.
 • Top of the paling to provide a "Devil Fork" effect and the bottom will have a dove tail.

3. Posts:
 • 76 x 76 x 2 mm steel square tubing with closing pyramid caps on top.
 • Post must 2.4m high and 600mm will be planted into concrete footing.

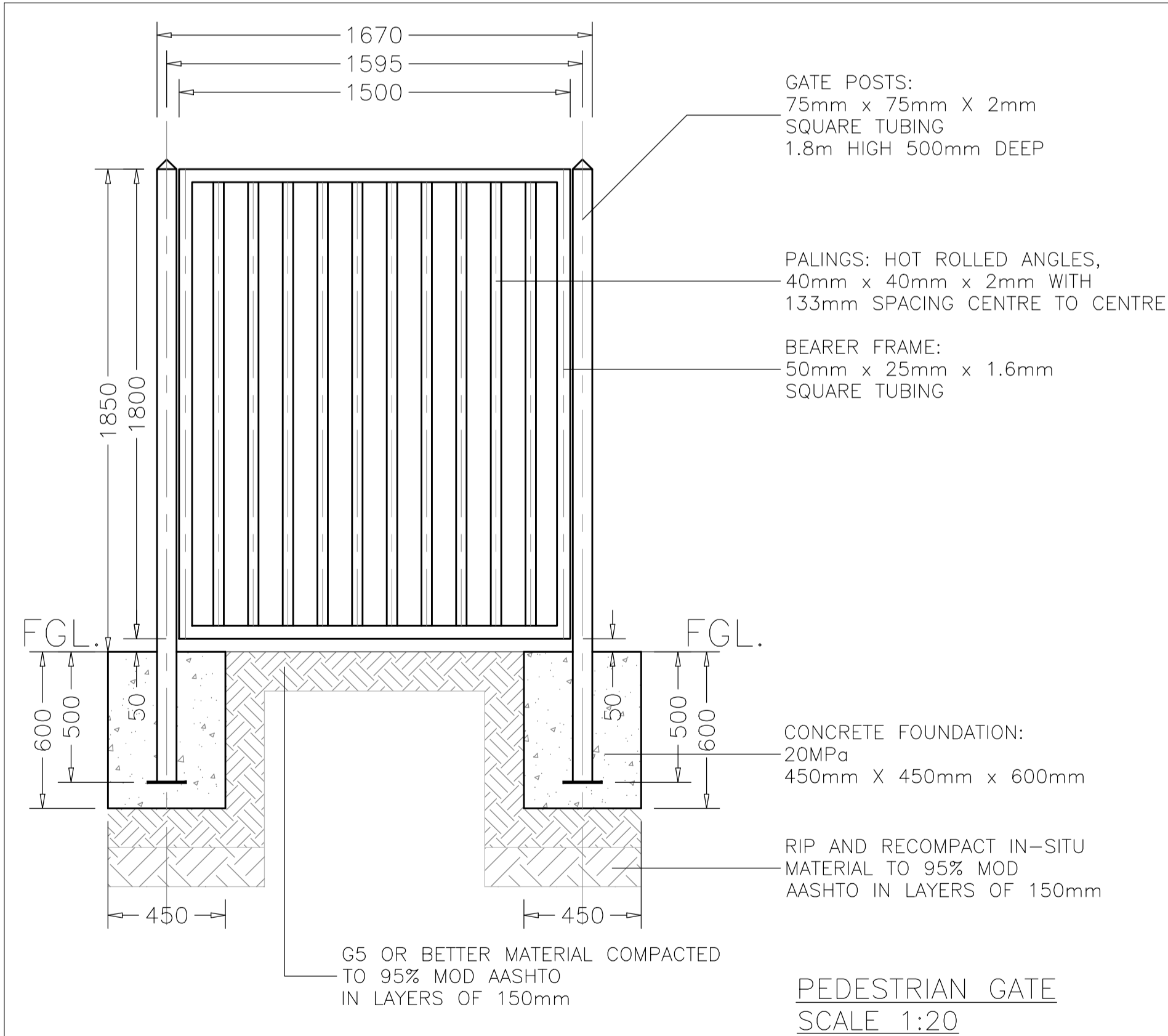
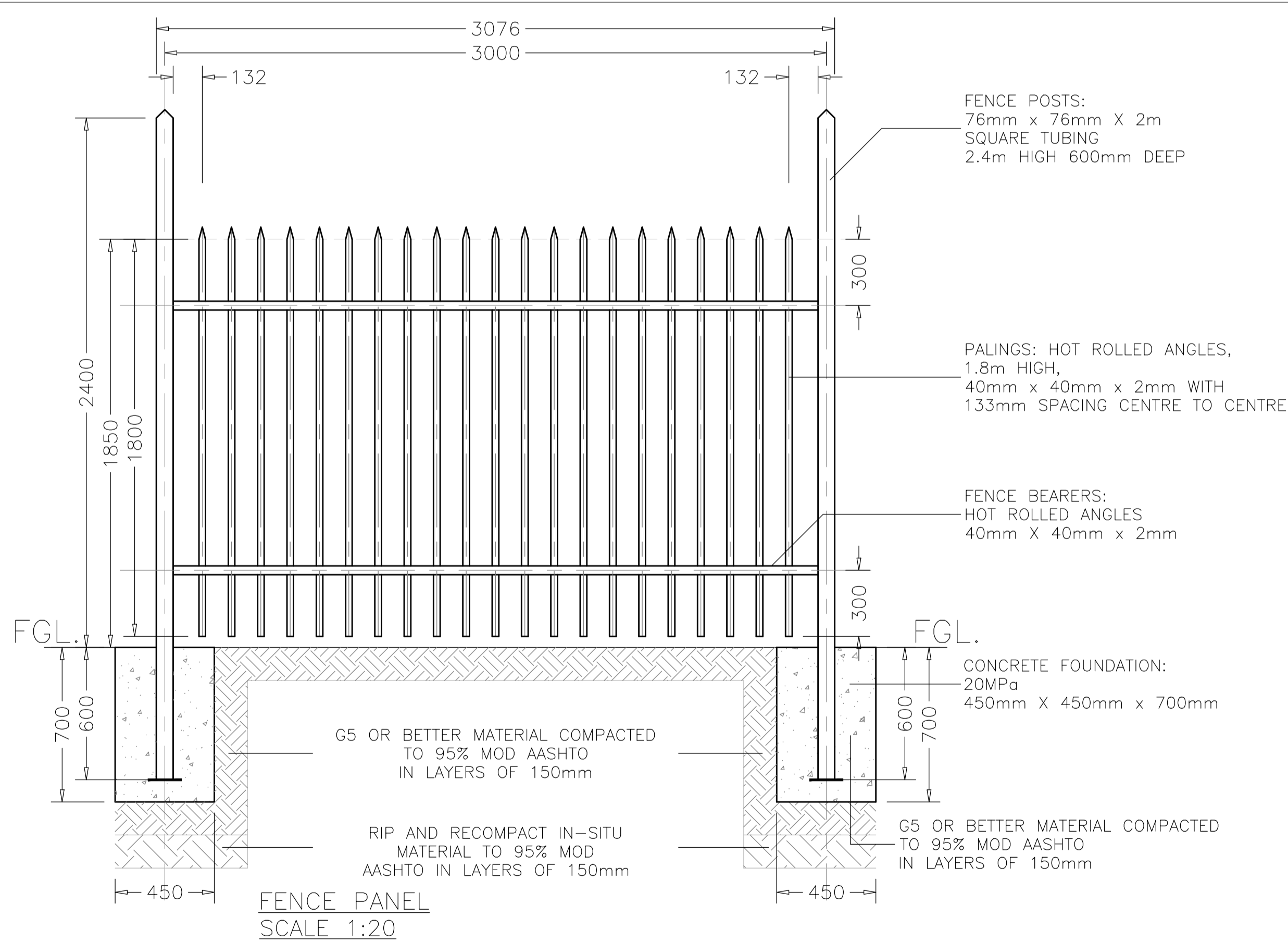
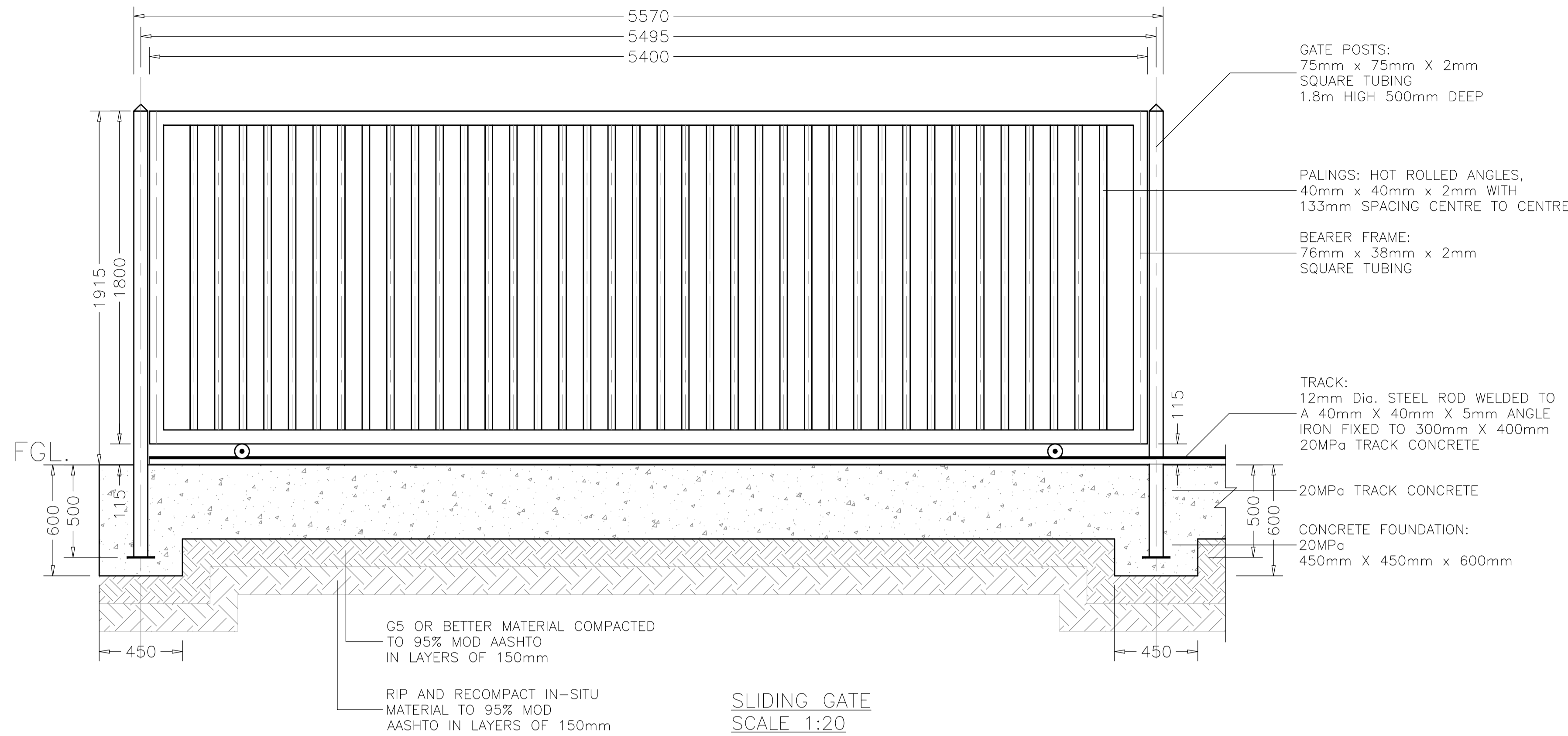
Palisade Gates

1. Sliding Gate:
 • 5/4 m wide x 1.8 m high. 40 x 40 x 2 mm angle iron palings welded to a 76 x 38x 2mm rectangular tubing bearer frame.
 • Palings to be placed at 133 mm apart from each other centre to centre.
 • Gate to be provided with 2 x 80mm roller coaster wheels fitted with ball bearing. These are to be fitted 500mm from edge of the gates.
 • Gate to be provide with proper closing and guidance mechanism.
 • Track is to be 12 mm steel rod welded to a 40 x 40 x 5mm angle iron fixed into a 300 wide x 400 thick x 5m length of the gate (track concrete to engineer's design).
 • Gate Post: 75mm x 75mm 2mm steel square tubing post is to be provided on each side of gate opening with closing pyramid caps on top.
 • Post to be founded in a concrete footing 450 x 450 x 600 deep. Concrete strength to be 20Mpa (minimum) at 28 days.

2. Pedestrian gate:
 • 1.5 m wide x 1.8 m high. 40 x 40 x 2 mm angle iron palings welded to a minimum 50 x 25 x 1.6mm rectangular tubing bearer frame.
 • Palings to be placed at 133 mm apart from each other centre to centre.

Painting

• All joints must be smoothed off.
 • All Flux, rust, grease and loose material to be removed before painting.
 • Apply one coat primer for steel (red oxide), apply one coat universal undercoat for all surfaces, apply one coat Gloss enamel (colour as specified by the LPDE).
 • No brush painting.



				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE
							DESIGNED	02 July 2021	V.M		DO NOT SCALE IF IN DOUBT ASK.	TITLE
							CHECKED	02 July 2021	E.M			PROJECT No.
							DRAWN	02 July 2021	V.M		LDPWRI-PROF/16003B	DRAWING No.
							PROJECT MNG.				A1	LDPWRI SCHOOLS/B&C/01
							APPROVED					REV
REV	DATE	CHK	APP	DESCRIPTION			CLIENT					0

LEGEND:


















-  **NEW BLOCKS - NOTE 2 Jojo tanks on each block**
-  **FUTURE BLOCKS - NOTE 2 Jojo tanks on each block, Phase 2**
-  **EXISTING BUILDING TO REMAIN UNCHANGED**
-  **EXISTING BUILDING TO BE RENOVATED - NOTE 2 Jojo tanks on each block**
-  **EXISTING BUILDING TO BE DEMOLISHED**
-  **NEW COVERED WALKWAYS**
-  **EXISTING WALKWAYS**
-  **FUTURE COVERED WALKWAYS**
-  **EXISTING MOBILE CLASSROOMS**
-  **EXISTING MOBILE CLASSROOMS**
-  **WATER SUPPLY PIPES - HDPE CLASS 6**
-  **SEWER PIPES - PVC CLASS 6**
-  **ELEVATED WATER TANKS**
-  **RAINWATER HARVESTING TANKS**
-  **STANDPIPE**
-  **BOREHOLE**
-  **ISOLATION VALVE**

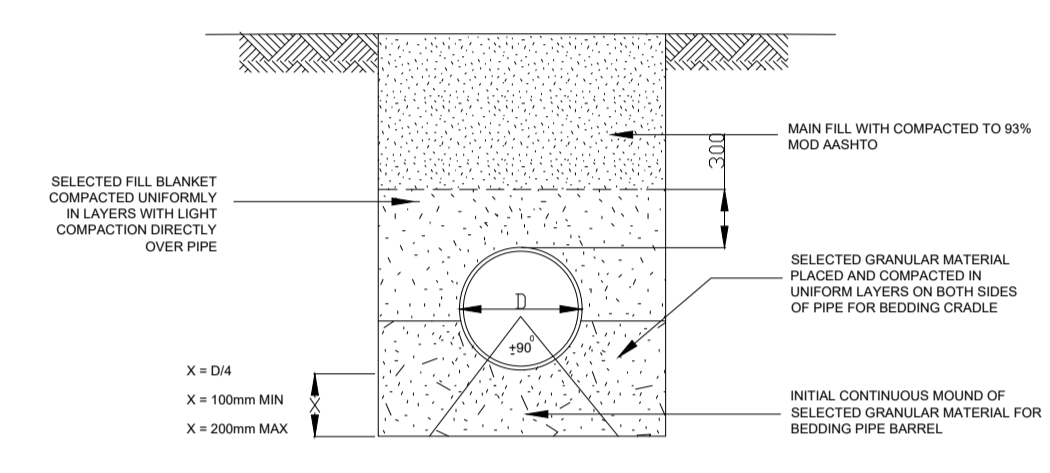


TABLE 3A: WATER SCOPE

NO.	Description	Unit	QUANTITY
01	Ø20mm HDPE Pipe	m	60
02	Ø50mm HDPE Pipe	m	30
03	Ø75mm HDPE Pipe	m	20
04	New 5kl PVC Tank on 4.5m Elevated Steel Stand	No.	1
05	New 10kl PVC Tank on 4.5m Elevated Steel Stand	No.	2
06	Refurbish existing taps	No.	6
07	Test and refurbish existing BH	No.	1

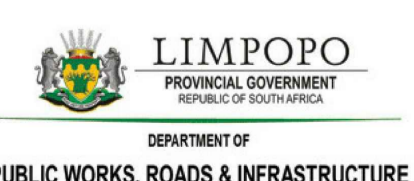

TABLE 3B: SANITATION SCOPE

NO.	Description	Unit	QUANTITY
01	Ø110mm PVC Pipe to Septic Tank	m	20
02	Septic Tank	No.	1
03			
04			
05			
06			
07			



CONSTRUCTION OF PIPES ON CLASS B BEDDING

REV	DATE	CHK	APP	DESCRIPTION

 DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE	 MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR. DESIGNED CHECKED DRAWN PROJECT MNG. APPROVED CLIENT	DATE 19 Oct 2021 19 Oct 2021 19 Oct 2021 	BY V.M E.M V.M 	SIGNATURE 	SCALE DO NOT SCALE IF IN DOUBT ASK. PROJECT No. LDPWRI-B/20- DRG SIZE A1	TITLE RENOVATION AND ADDITIONS TO STORM DAMAGED SCHOOL - CLUSTER B MOLESHTLOU SECONDARY SCHOOL WATER AND SEWER LAYOUT DRAWING No. LDPWRI SCHOOLS/B/MOLESHTLOU/01
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Drawing Register

Author:	Management Representative	Issue Date:	20 January 2016
Approver:	Chief Executive Officer	Revised Date:	20 January 2016
Doc. No:	FM-QMS-23	Issue No:	2

Project: Renovations and additions to MOLESHATLOU Primary School

Date: 23 June 2023

DRAWING REGISTER	Register No 001	
	Issued For:	Construction

Item No:	DRAWING NO.	TITLE	DRG SIZE	Done By	Date of Latest Revision	REVISION NO.							
						0	1	2	3	4	5	6	7
1	LDPWRI SCHOOLS/B/MOLESATLOU/01	WATER AND SEWER LAYOUT	A1	NM	23-Jun-23	x							
2	LDPWRI SCHOOLS/B/MOLESATLOU/11	PAVING LAYOUT DRAWING	A1	NM	23-Jun-23	x							
3	LDPWRI SCHOOLS/B/MOKHARI/08	SEPTIC TANK	A1	NM	23-Jun-23	x							
4	LDPWRI SCHOOLS/B&C/01	STEEL PALISADE FENCE	A1	NM	23-Jun-23	x							
5	LDPWRI SCHOOLS/B&C/02	BOREHOLE SPECIFICATIONS	A1	NM	23-Jun-23	x							
6	LDPWRI SCHOOLS/B&C/03	PVC TANK AND STEEL TANK	A1	NM	23-Jun-23	x							
7	LDPWRI SCHOOLS/NUTRISION/2	NUTRISION BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x							
8	LDPWRI SCHOOLS/RAFTNUTRISION/03	NUTRISION BLOCK FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x							
9	LDPWRI SCHOOLS/GUARDHOUSERAFT/01	GUARDHOUSE FOUNDATION LAYOUT AND DETAILS	A1	NM	23-Jun-23	x							
10	LDPWRI SCHOOLS/GUARDHOUSERAFT/02	GUARDHOUSE BLOCK FLOOR JOINTS	A1	NM	23-Jun-23	x							
11	LDPWRI SCHOOLS/CMOLESATLOU/03	3 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x							
12	LDPWRI SCHOOLS/CMOLESATLOU/04	3 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x							
13	LDPWRI SCHOOLS/C/MOLESATLOU/01	2 X CLASSROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x							
14	LDPWRI SCHOOLS/B/MOLESATLOU /02	2 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x							
15	LDPWRI SCHOOLS/C/MOLESATLOU/08	SMALL ADMIN BLOCK RENOVATION FLOOR JOINTS & DETAILS	A1	NM	23-Jun-23	x							
16	LDPWRI SCHOOLS/C/MOLESATLOU/07	SMALL ADMIN BLOCK RENOVATION FOUNDATION LAYOUT & DETAILS	A1	NM	23-Jun-23	x							
17	LDPWRI SCHOOLS/C/MOLESATLOU/06	STAFF ROOM BLOCK RENOVATION FLOOR JOINTS	A1	NM	23-Jun-23	x							
18	LDPWRI SCHOOLS/C/MOLESATLOU/05	STAFF ROOM BLOCK RENOVATION FLOOR SLAB LAYOUT & DETAILS	A1	NM	23-Jun-23	x							

Issued by: NICHOLAS MASHEGO

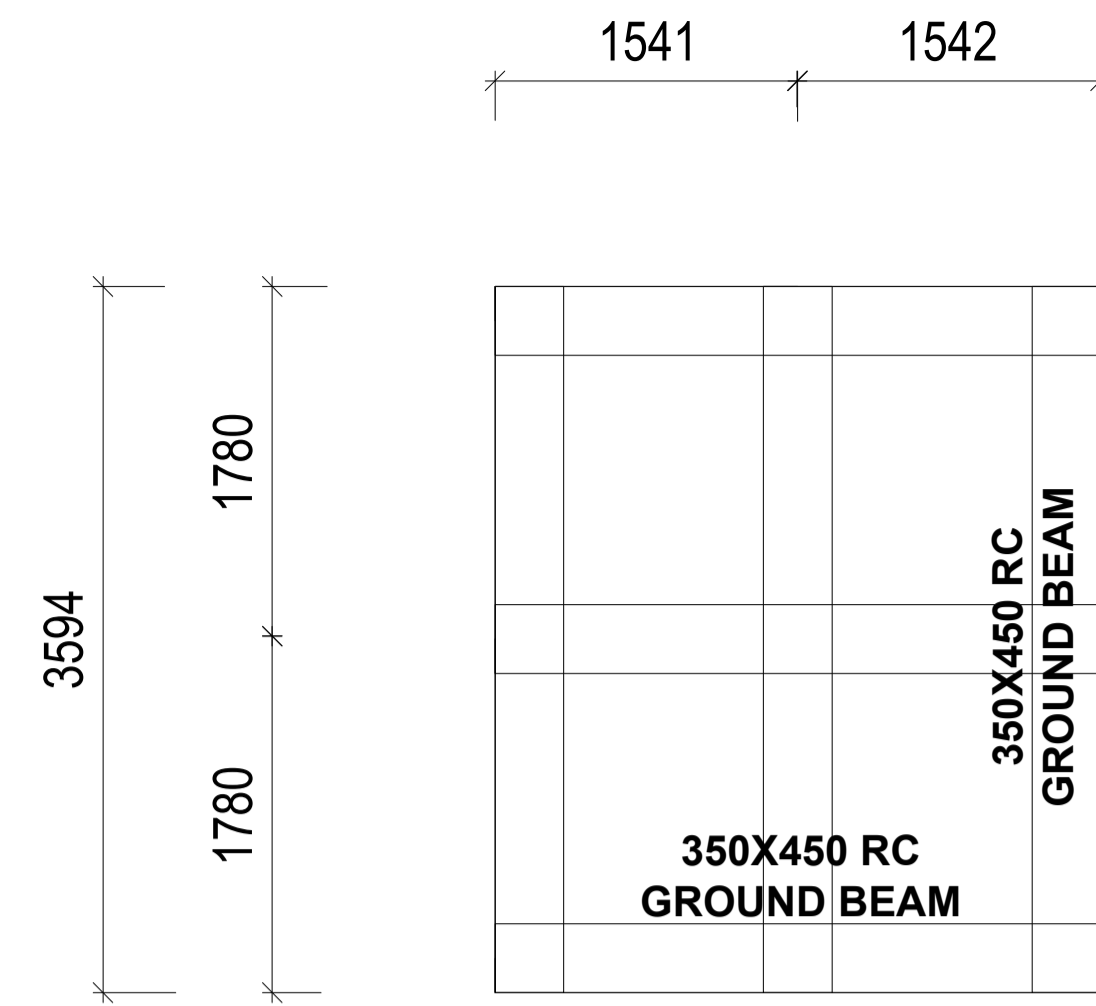
Received by: _____

Signature: _____

Signature: _____

Date: 2023/06/23

Date: _____



FOUNDATION LAYOUT - PLAN

CONCRETE NOTES:

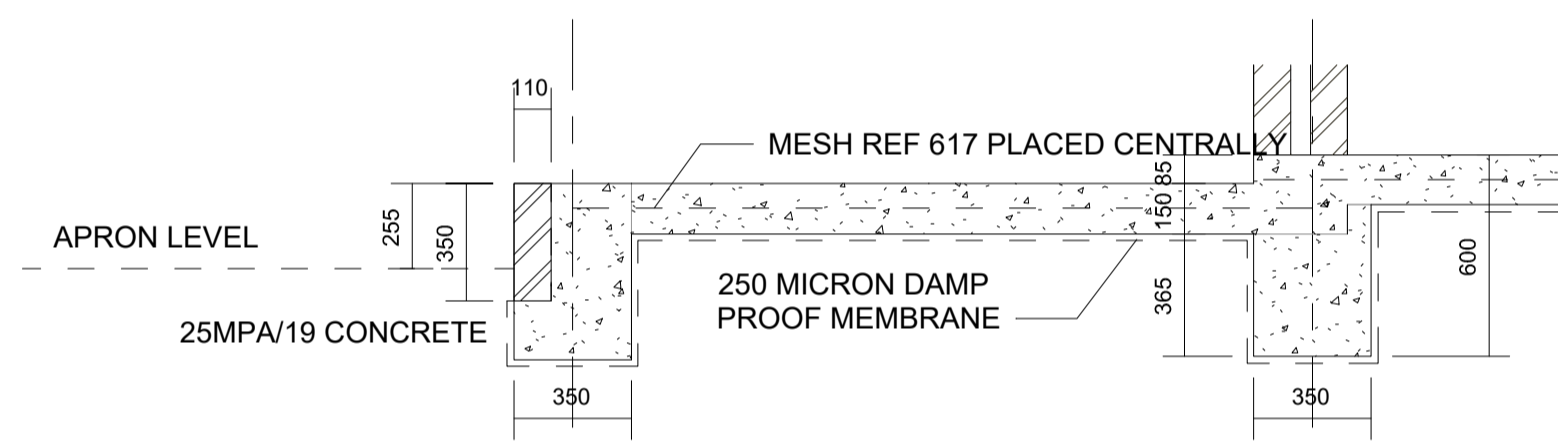
1. ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200
2. CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED BELOW UNLESS OTHERWISE NOTED.
MASS CONCRETE GRADE 10/19
BLINDING CONCRETE GRADE 10/19
STRUCTURAL CONCRETE GRADE 25/19
3. 250 MICRON PVC SHEETING IN ACCORDANCE WITH SABS 952 -1985 TYPE C TO BE PROVIDED UNDER ALL GROUND SLABS.
4. EXPOSED UNFORMED SURFACES TO BE "STEEL FLOAT FINISH" UNLESS OTHERWISE NOTED.
5. THE MINIMUM DESIGN BEARING PRESSURE FOR FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED.
6. ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF BLINDING AND TO BE KEPT DRY AT ALL TIMES.

CONSTRUCTION NOTES:

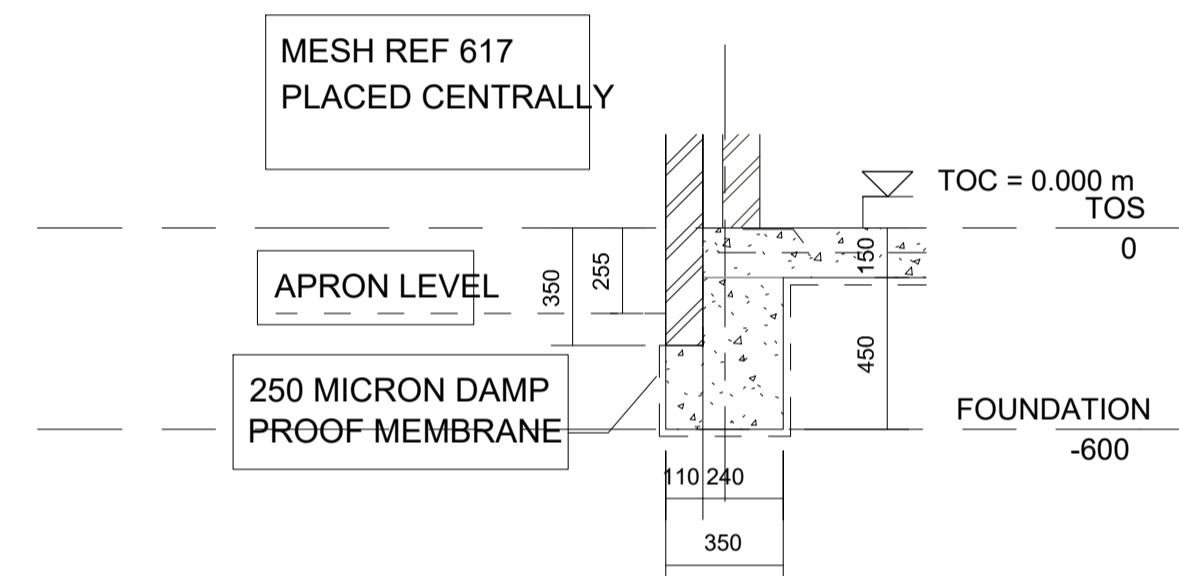
1. CONSTRUCTION PROCEDURE, SEQUENCE AND POSITIONING OF COSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE RAFT.
2. CONSTRUCTION JOINT PREPARATION: THE SURFACE OF THE FIRST CAST CONCRETE FORMING A CONSTRUCTION JOINT SHALL HAVE A LAITANCE REMOVED TO EXPOSE THE COARSE AGGREGATE AND A SOLID SURFACE. THIS MAY BE FACILITATED BY THE USE OF A SUITABLE EXPANDED METAL OR PROPRIETARY STOP END SHUTTER.
3. RAFT TO BE POWER FLOATED TO JUST SHORT OF BEING POLISHED. METHOD TO BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
4. RAFT TO BE CURED FOR 7 DAYS AFTER CONCRETE CASTING I.E KEEP WET OR COVER WITH PLASTIC MEMBRANE.

GEOTECHNICAL CONSIDERATIONS

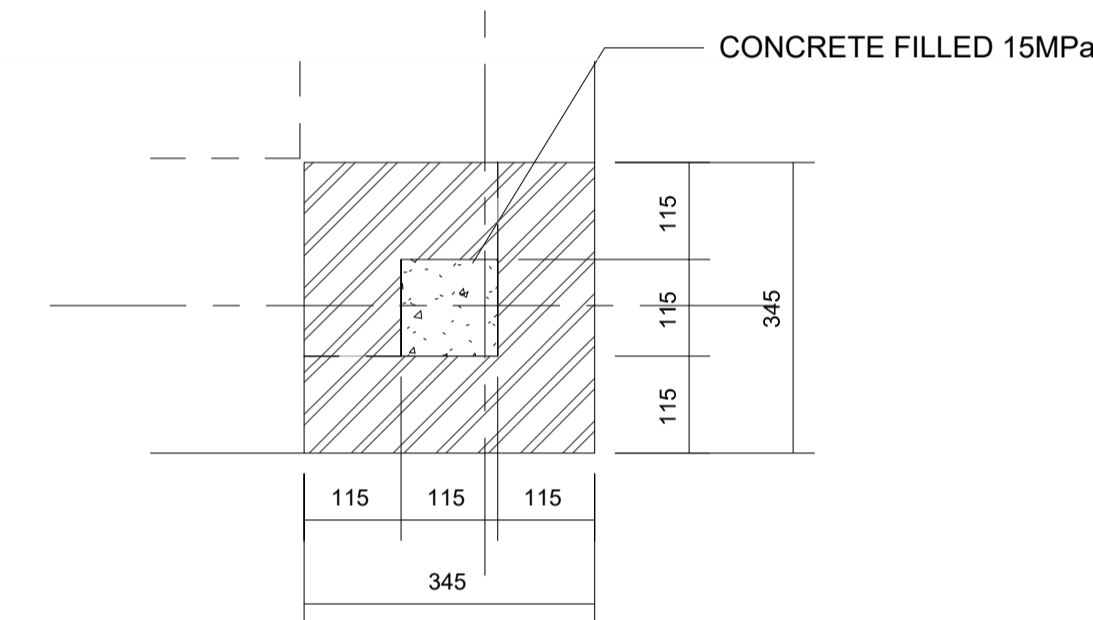
1. COGNISANCE HAS BEEN TAKEN OF THE DOLOMITE CONDITIONS AND THE FOUNDATIONS HAVE BEEN ACCORDING TO THE FOLLOWING;
2. DOLOMITE AREA DESIGNATION - D3
3. SINKHOLE MAXIMUM SIZE - 5M DIAMETER



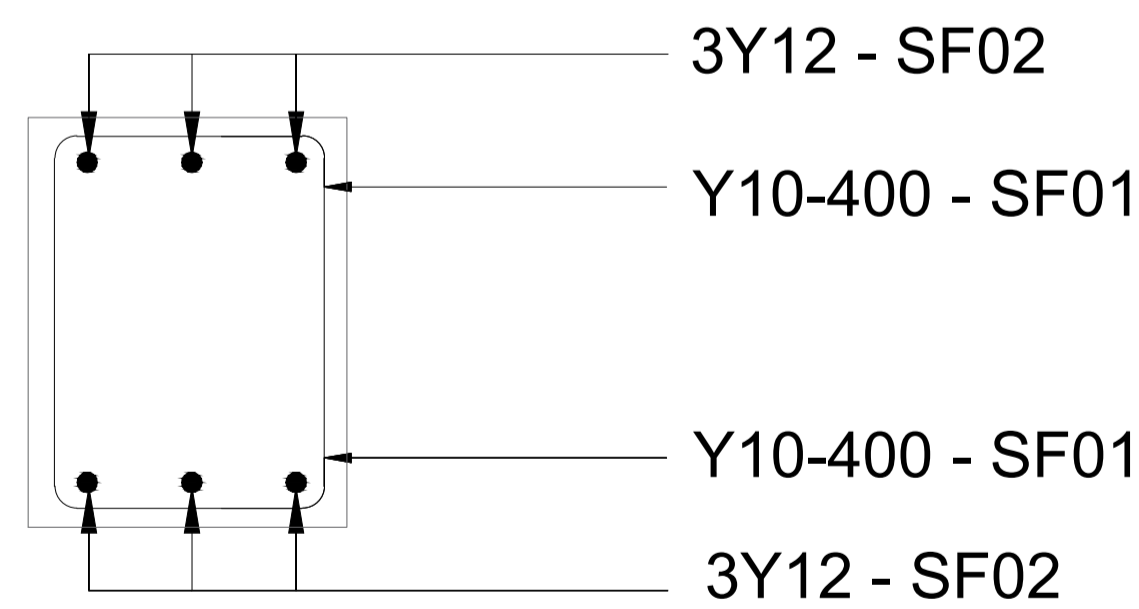
DETAIL A



DETAIL B

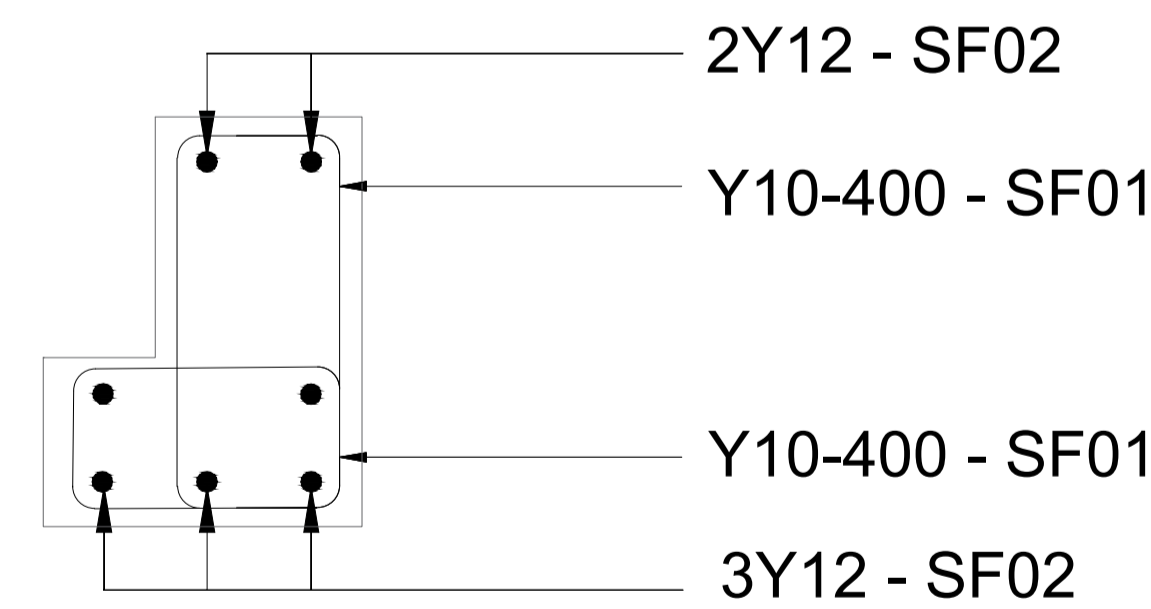


PLAN ON 345x345 PIER (2 No. PLACES)
DETAIL C



GROUND BEAMS REINFORCEMENT

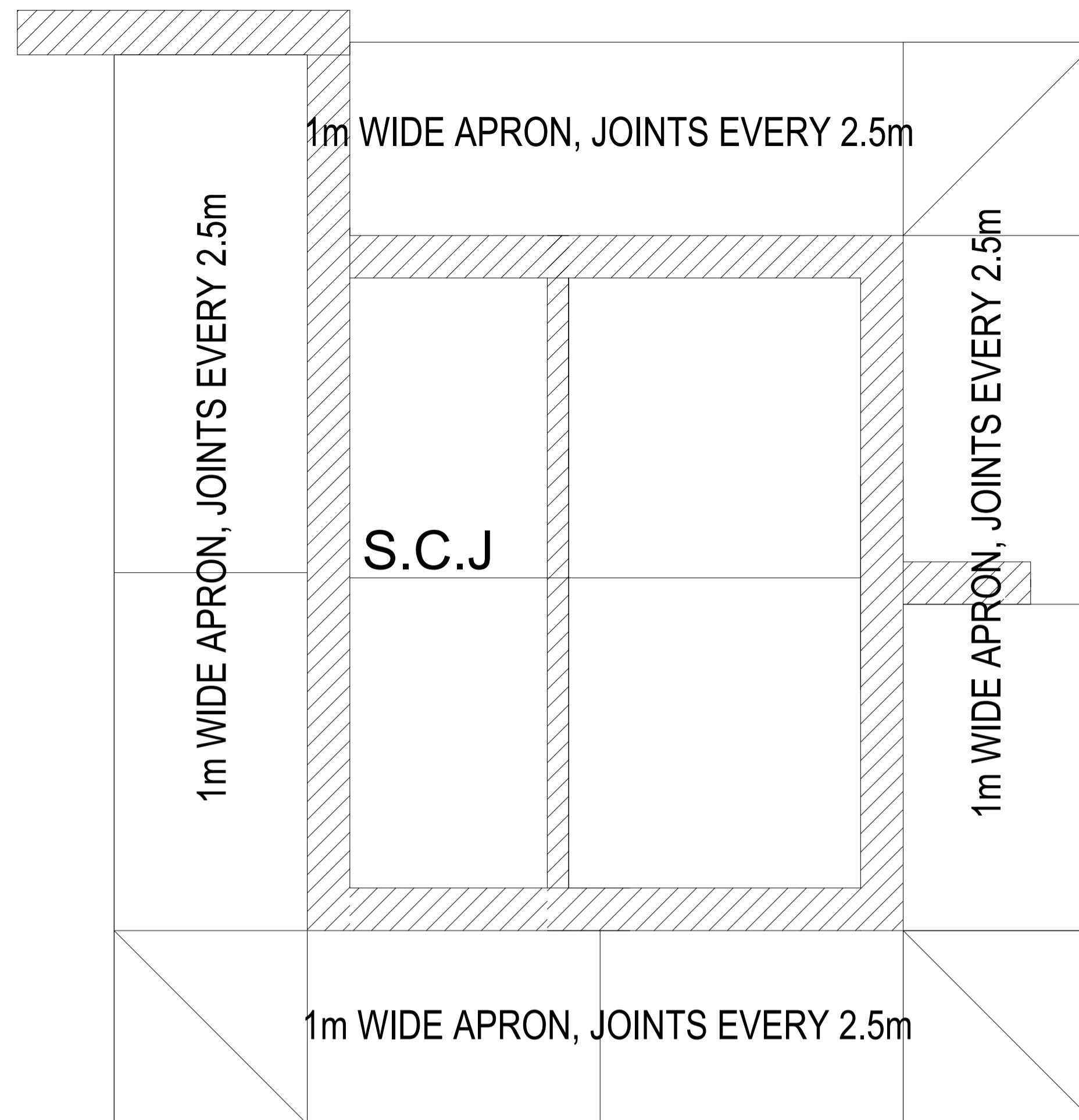
See Bending Schedule for Details



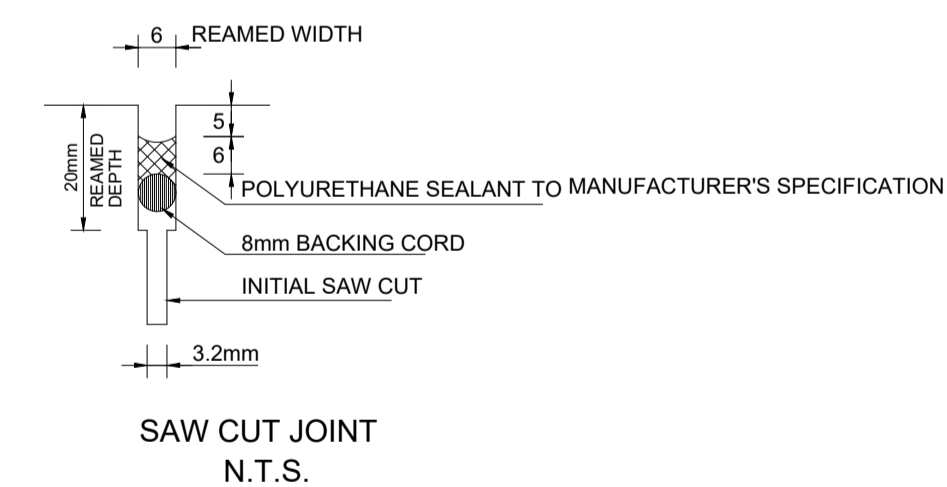
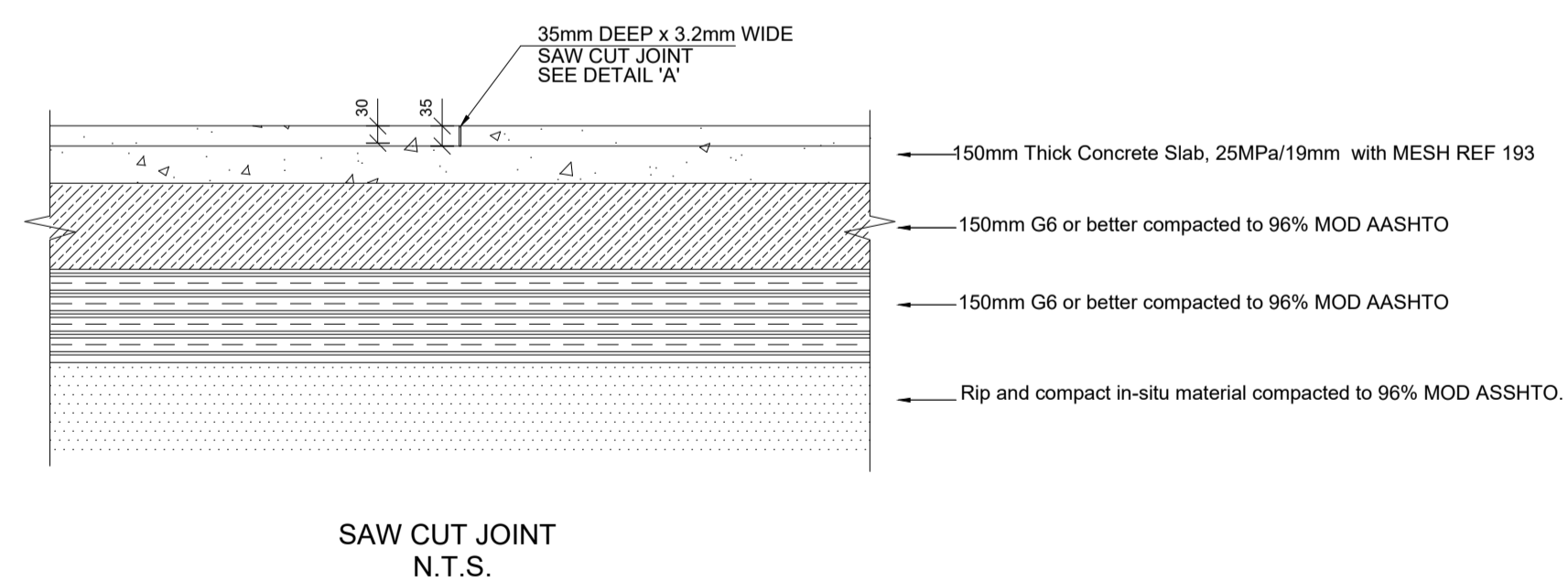
GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details

				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
							DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
							CHECKED	02 May 2023	E.M			PROJECT No.	<p>GUARDHOUSE BLOCK FOUNDATION LAYOUT & DETAILS</p>
								DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B	
								PROJECT MNG.				DRAWING No.	
								APPROVED				DRG SIZE	A1
								CLIENT				REV	0
REV	DATE	CHK	APP	DESCRIPTION									GUARDHOUSE/RAFT/001



FLOOR JOINTS



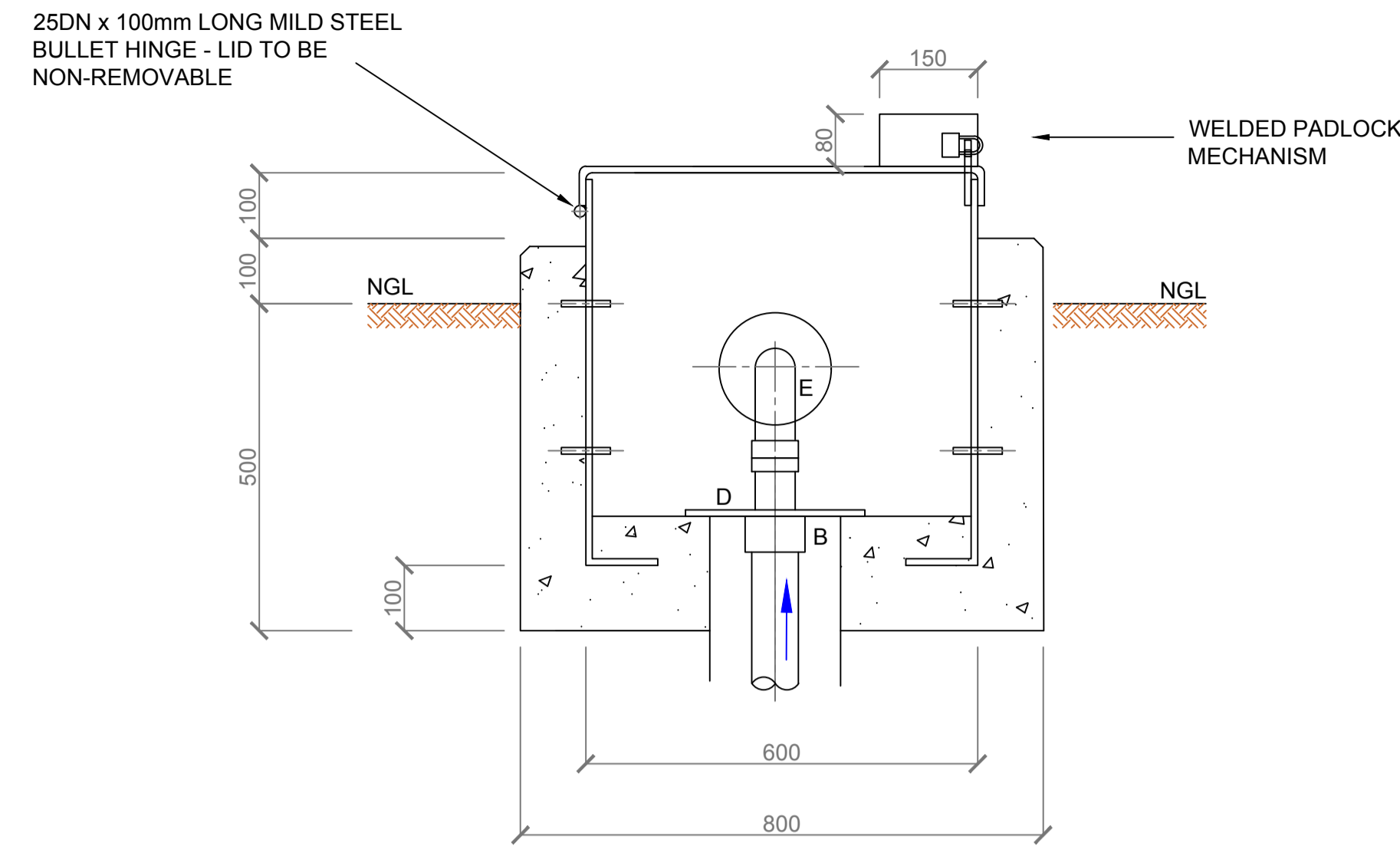
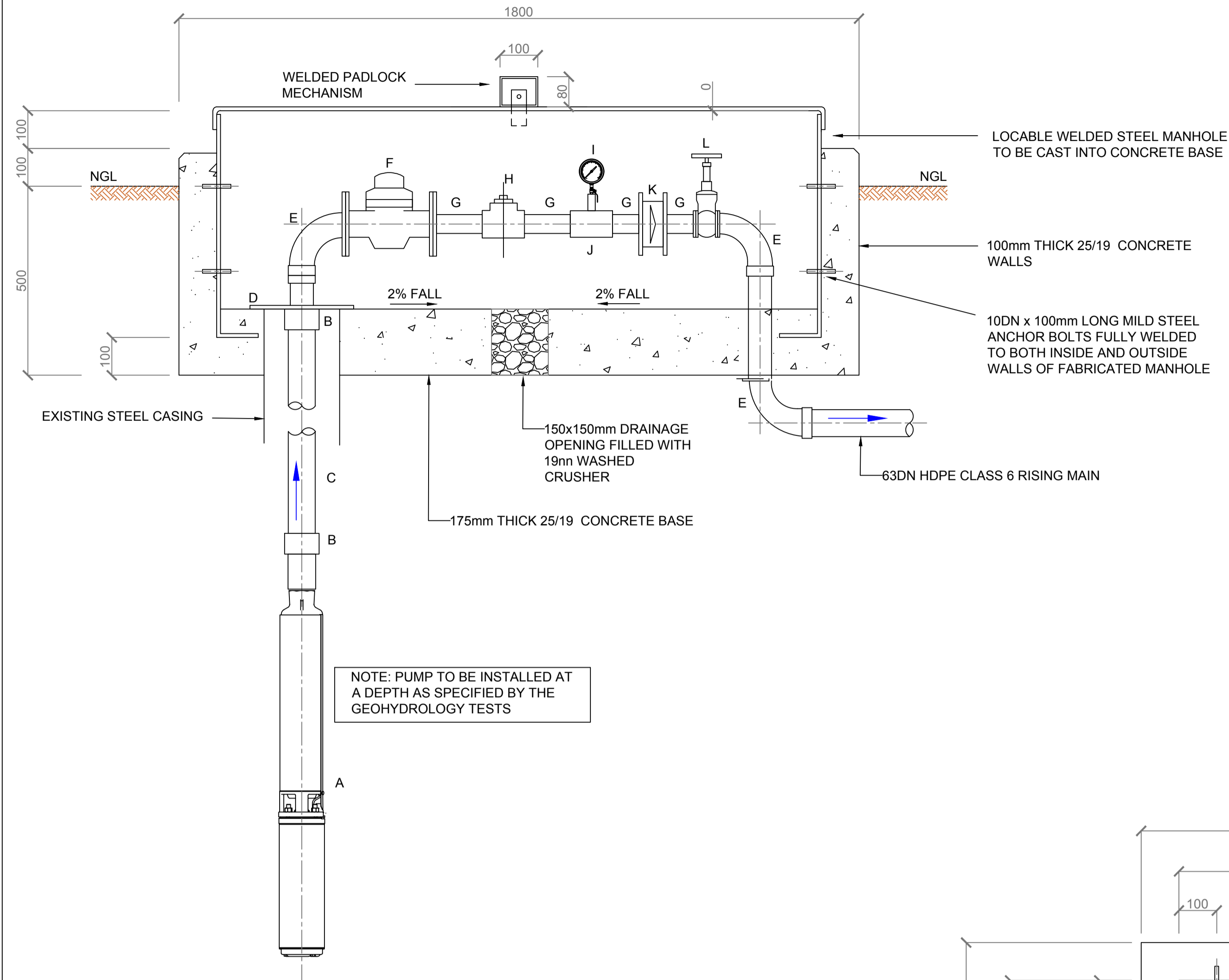
JOINT DETAILS - SECTIONS

		CLIENT		MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
		 LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE		 MUTEO CONSULTING		DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
						CHECKED	02 May 2023	E.M		PROJECT No.	GUARDHOUSE BLOCK FLOOR JOINTS	
						DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B		
REV	DATE	CHK	APP	DESCRIPTION		PROJECT MNG.				DRG SIZE	A1	DRAWING No.
						APPROVED						GUARDHOUSE/RAFT/002 REV 0
						CLIENT						

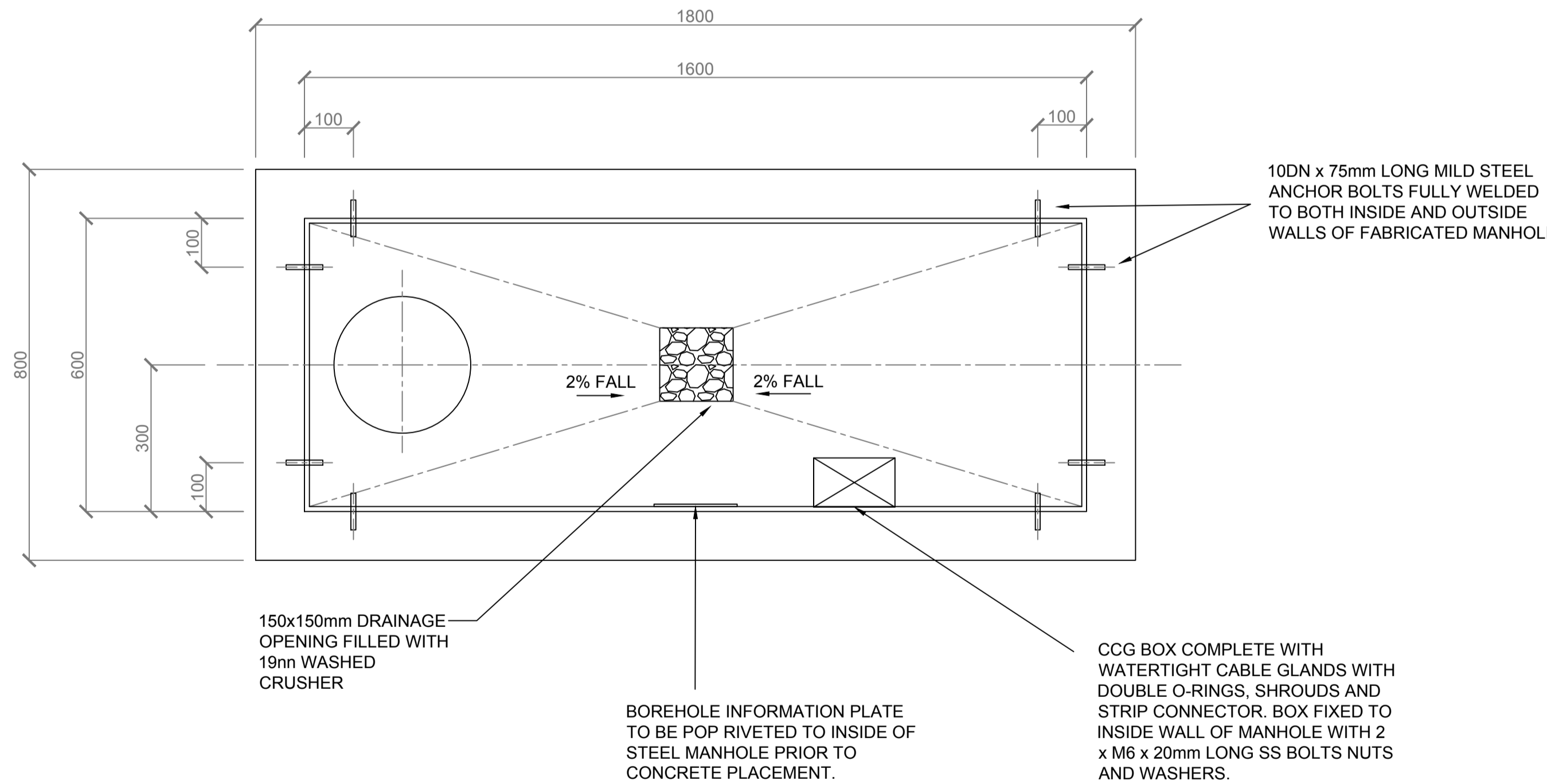
GENERAL NOTES

1. ALL STEEL PIPES AND FITTINGS TO BE HEAVY DUTY HOT DIPPED GALVANIZED WITH A MINIMUM ZINC COATING OF 105 MICRON. ANY PIPES ORDERED WITHOUT THE APPROVAL OF THE ENGINEER WILL BE RECTIFIED AT THE CONTRACTORS OWN COST.
2. EACH ITEM IS TO BE CLEARLY MARKED ACCORDING TO THE NUMBERS GIVEN IN THE LIST.
3. ALL CONCRETE TO BE 25/19 MPa, AND CAST ON 93% MOD AASHTO COMPACTED IN-SITU SOIL.
4. ALL EXPOSED CONCRETE EDGES TO HAVE A 20mm CHAMFER.
5. ALL HDPE PIPES TO BE IN ACCORDANCE WITH SABS 4427 SPECIFICATIONS.
6. CORROSION PROTECTION:
 - 6.1. ALL STEEL ITEMS, INCLUDING THE STEEL CAGE TO BE COATED WITH CORROSION PROTECTION PAINT.
 - 6.2. AFTER INSTALLATION ANY CHIPS AND SCRATCHES SHALL BE MADE GOOD ON SITE WITH BRUSH APPLIED GALVANIZED PAINT.

REF.	SCHEDULE OF FITTINGS	SIZE	LENGTH	QTY.
A	PUMP AND MOTOR	-	-	1
B	MALE ADAPTOR			
C	SUBMERSIBLE HDPE PIPE, CLASS 12, 4.1mm WALL THICKNESS, SANS 4427, BOREHOLE TO SURFACE	Ø25	110	1
D	METAL BASE PLATE - DOUBLE CHOKE	Ø280	-	1
E	90 DEGREE ELBOW	Ø65	-	2
F	FLANGED MECHANICAL FLOW METER	Ø65	-	1
G	SCHEDULE 40 GALVANIZED PIPE	Ø65	-	-
H	HEAVY DUTY GALVANISED TEE COMPLETE WITH PLUG FITTED TO BRANCH TO PRESSURE SWITCH ON ELECTRICAL INSTALLATIONS	Ø65	-	1
I	MECHANICAL PRESSURE GAUGE, WIKA 100mm DIAL AND FILLED WITH GLYCERINE, WITH A RANGE FROM 200 TO 1 200KPa, COMPLETE WITH BALL ISOLATING VALVE AND PIPING.	Ø65	-	1
J	HEAVY DUTY GALVANIZED REDUCING TEE FOR PRESSURE GAUGE	Ø65	-	1
K	TILT DISC NON-RETURN VALVE	Ø65	-	1
L	BRASS TYPE ISOLATING VALVE	Ø65	-	1



NOTE: PUMP TO BE INSTALLED AT A DEPTH AS SPECIFIED BY THE GEOHYDROLOGY TESTS



UNIVERSITY OF LIMPOPO, TURFLOOP CAMPUS	
BOREHOLE No.	BH1
BOREHOLE DEPTH	110 (m)
STATIC WATER LEVEL	1.15 (m)
PUMP INSTALLATION DEPTH	110 (m)
RECOMMENDED PUMP YIELD	0.5 (l/s)
RECOMMENDED PUMPING TIME	8 (hrs/day)
PUMP MODEL No.	Submersible
MOTOR TYPE	
ELECTRICAL MOTOR SIZE	(kW)
DATE INSTALLED	

REV	DATE	CHK	APP	DESCRIPTION

CLIENT

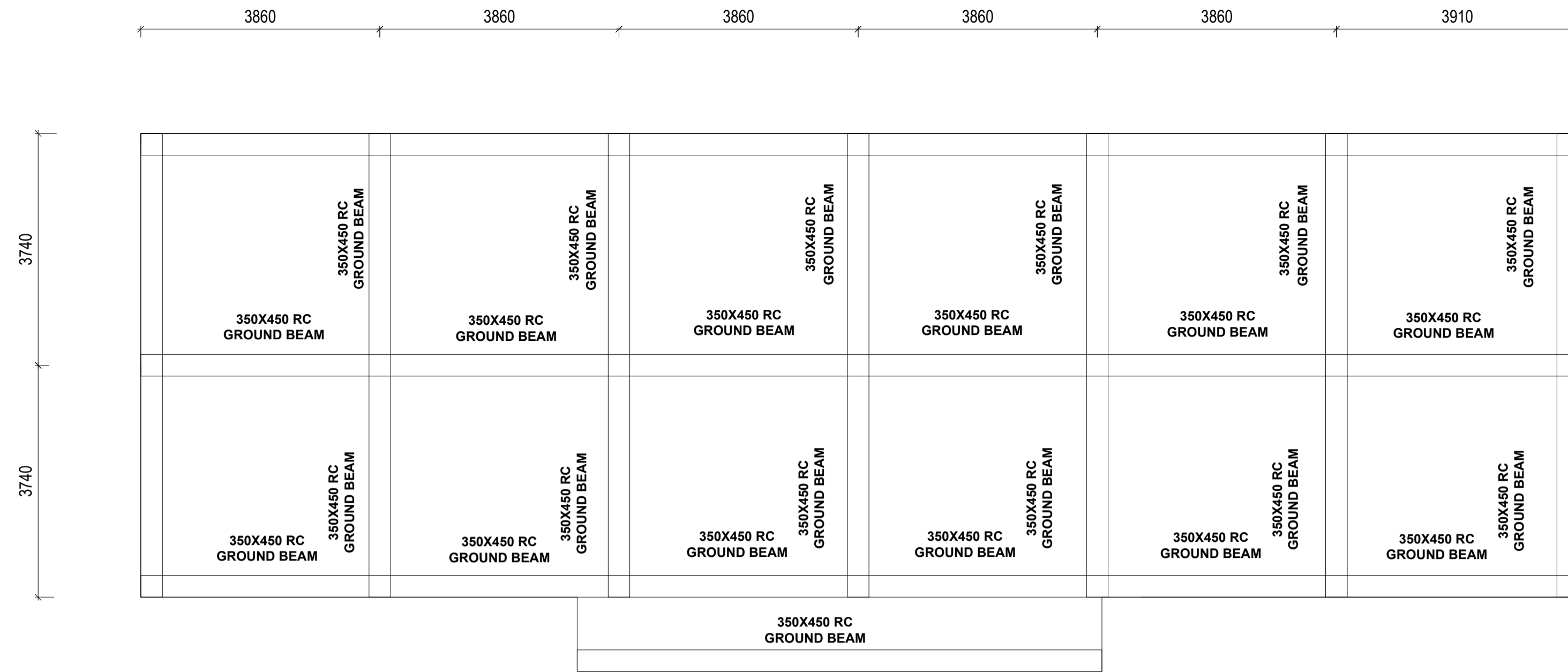
MUTEO CONSULTING

39 GROBLER STREET
 POLOKWANE 0699
 P.O. BOX 6196
 POLOKWANE NORTH
 0750
 TEL : (015) 291 4065
 FAX : (015) 291 4043
 website: www.muteo.co.za

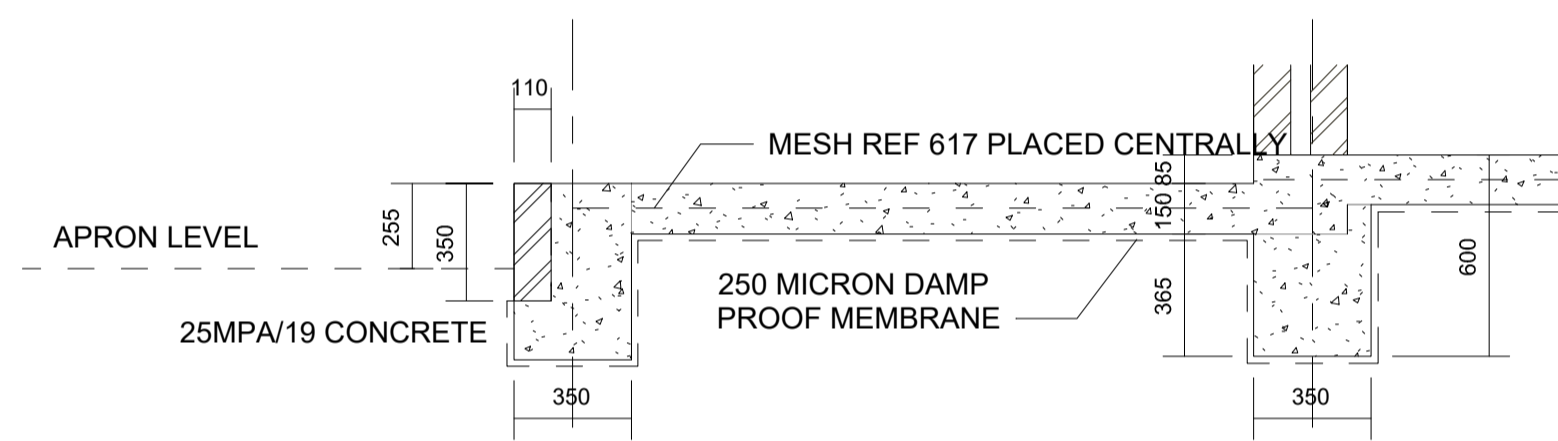
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CHECKED	10/08/2021	E.M	
DRAWN	10/08/2021	V.M	
PROJECT MNG.			
APPROVED			
CLIENT			

SCALE
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PROJECT No.
LDPWRI-PROF/16003B
DRG SIZE
A1

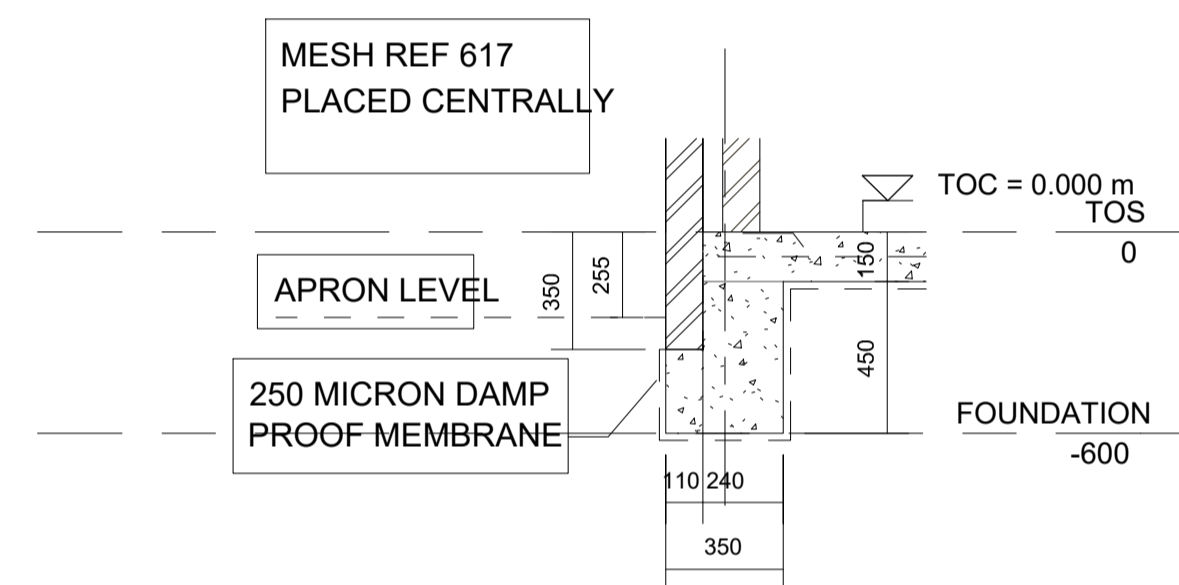
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DRAWING No.	LDPWRI SCHOOLS/B&C/02
REV	0



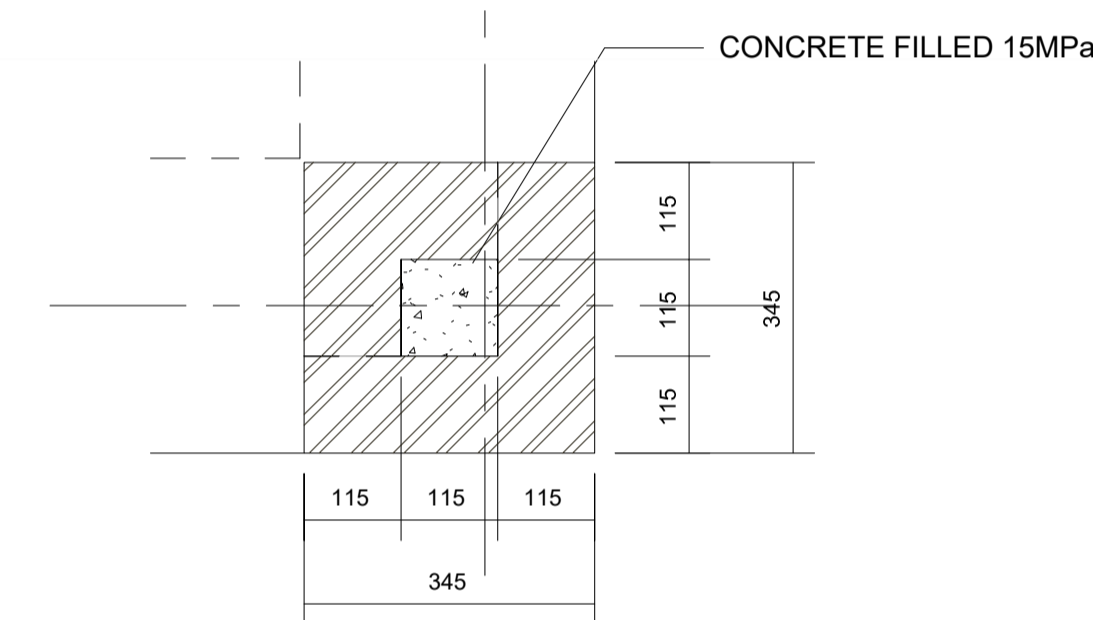
FLOOR JOINT LAYOUT - PLAN



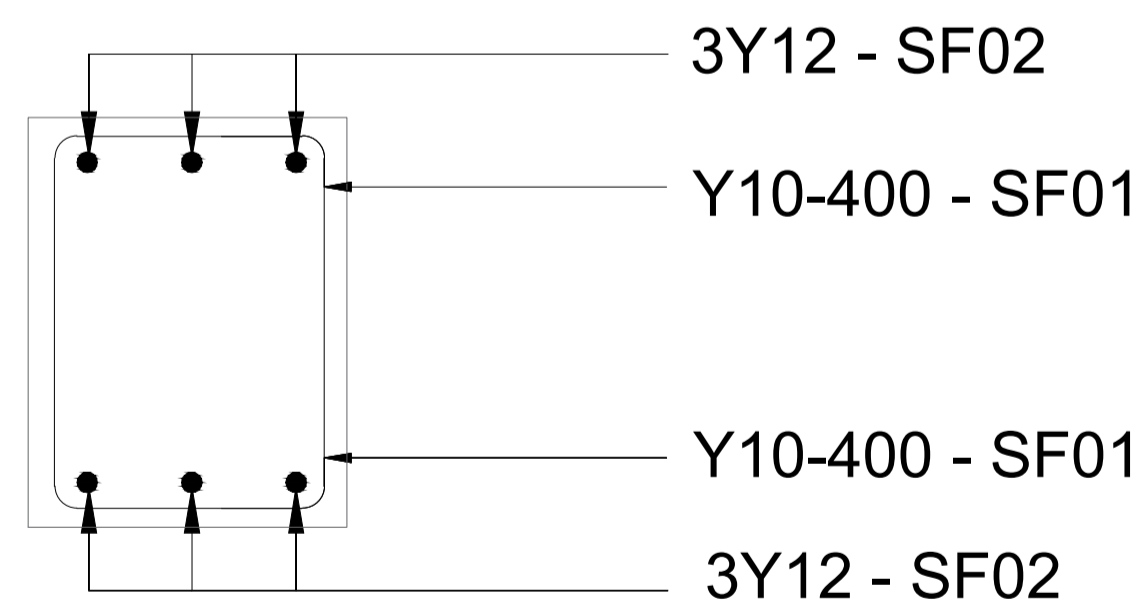
DETAIL A



DETAIL B

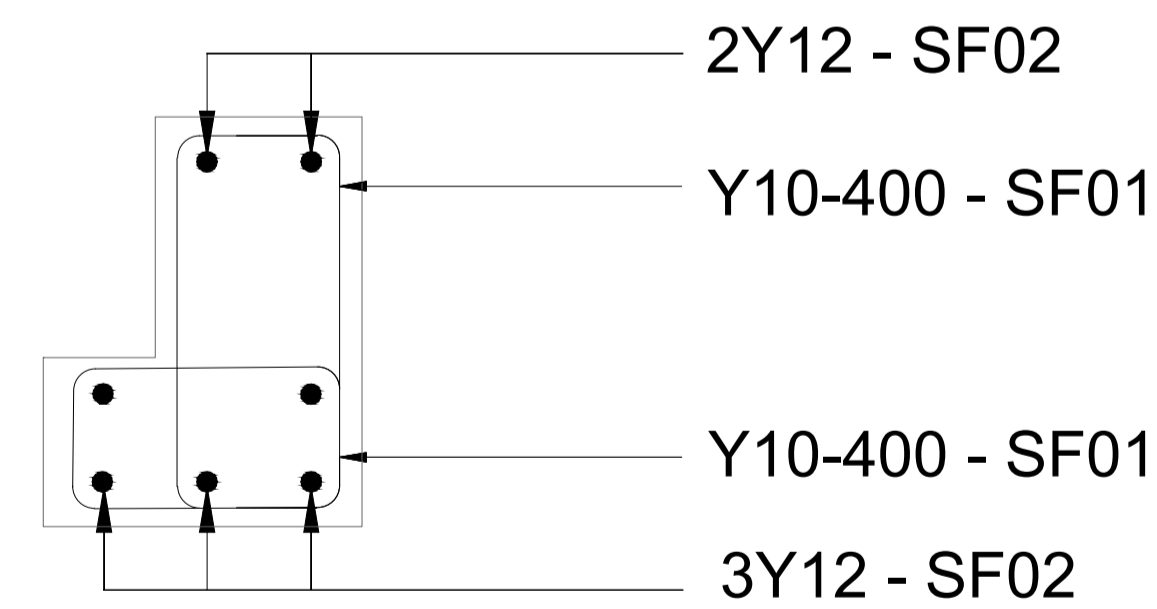


PLAN ON 345x345 PIER (2 No. PLACES)
DETAIL C



GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details



GROUND BEAMS REINFORCEMENT

See Bending Schedule for Details

CONCRETE NOTES:

- ALL CIVIL ENGINEERING WORK TO BE CARRIED OUT IN ACCORDANCE WITH SABS 1200
- CONCRETE TO BE "STRENGTH CONCRETE" AS SPECIFIED BELOW UNLESS OTHERWISE NOTED.
MASS CONCRETE GRADE 10/19
BLINDING CONCRETE GRADE 10/19
STRUCTURAL CONCRETE GRADE 25/19
- 250 MICRON PVC SHEETING IN ACCORDANCE WITH SABS 952 -1985 TYPE C TO BE PROVIDED UNDER ALL GROUND SLABS.
- EXPOSED UNFORMED SURFACES TO BE "STEEL FLOAT FINISH" UNLESS OTHERWISE NOTED.
- THE MINIMUM DESIGN BEARING PRESSURE FOR FOUNDATIONS IS 150MPa UNLESS OTHERWISE NOTED.
- ALL FOUNDATION EXCAVATIONS TO BE INSPECTED BY THE ENGINEER PRIOR TO CASTING OF BLINDING AND TO BE KEPT DRY AT ALL TIMES.

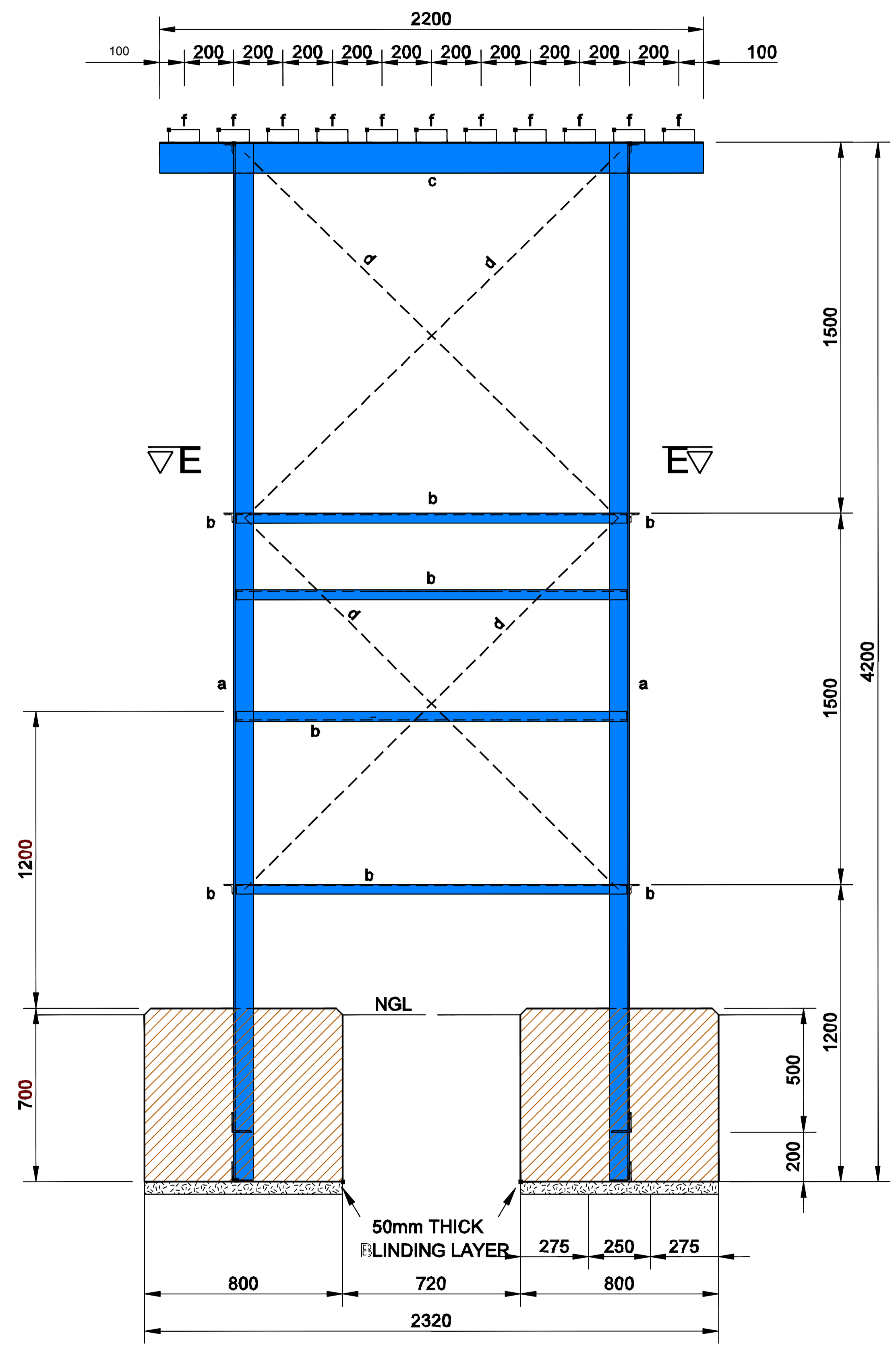
CONSTRUCTION NOTES:

- CONSTRUCTION PROCEDURE, SEQUENCE AND POSITIONING OF COSTRUCTION JOINTS TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING THE RAFT.
- CONSTRUCTION JOINT PREPARATION: THE SURFACE OF THE FIRST CAST CONCRETE FORMING A CONSTRUCTION JOINT SHALL HAVE A LAITANCE REMOVED TO EXPOSE THE COARSE AGGREGATE AND A SOLID SURFACE. THIS MAY BE FACILITATED BY THE USE OF A SUITABLE EXPANDED METAL OR PROPRIETARY STOP END SHUTTER.
- RAFT TO BE POWER FLOATED TO JUST SHORT OF BEING POLISHED. METHOD TO BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTATION.
- RAFT TO BE CURED FOR 7 DAYS AFTER CONCRETE CASTING I.E KEEP WET OR COVER WITH PLASTIC MEMBRANE.

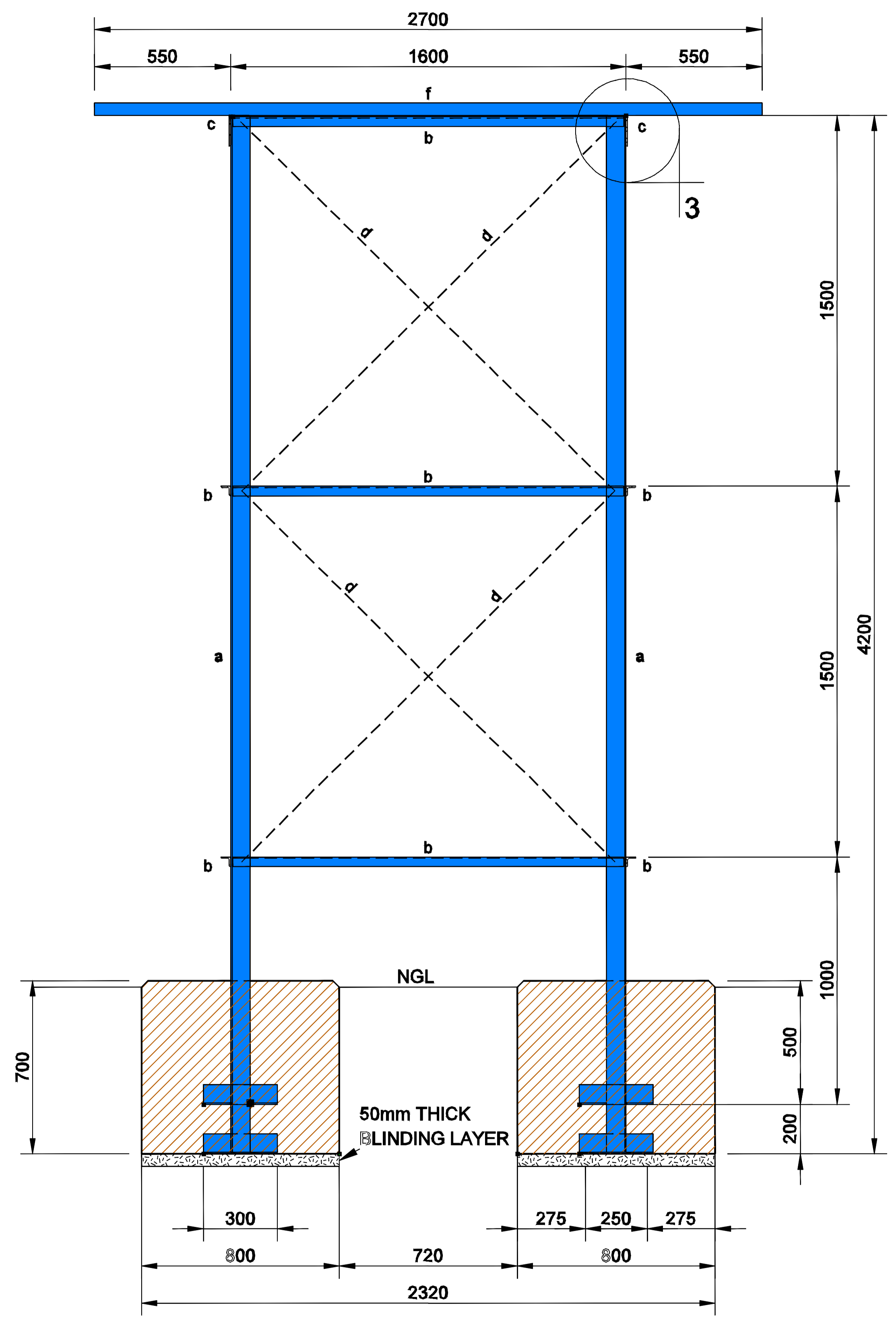
GEOTECHNICAL CONSIDERATIONS

- COGNISANCE HAS BEEN TAKEN OF THE DOLOMITE CONDITIONS AND THE FOUNDATIONS HAVE BEEN ACCORDING TO THE FOLLOWING;
- DOLOMITE AREA DESIGNATION - D3
- SINKHOLE MAXIMUM SIZE - 5M DIAMETER

				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
							DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
				DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE			CHECKED	02 May 2023	E.M		PROJECT No.	NUTRISION BLOCK FOUNDATION LAYOUT & DETAILS	
							DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B	DRAWING No.	
REV	DATE	CHK	APP	DESCRIPTION			PROJECT MNG.				DRG SIZE	A1	NUTRISION/RAFT/003
							APPROVED						REV
							CLIENT						0



SECTION C-C



SECTION D-D

STRUCTURAL STEEL MEMBERS

- a - Column legs – 60x60x5 angle made from commercial steel.
- b - Horizontal brace – 40x40x5 angle made from commercial steel.
- c - Top platform main support beam – 150x75x10 angle made from EN10025-2-
- d - S355JR steel.
Cross brace – 30x5 flat bar made from commercial steel.
- f - Top platform secondary support beams – 125x75x20x3 lipped channel made from commercial steel.

NOTES:

1. Use two M16 grade 4.8 bolts for the each of the column to platform connections.
2. Use one M12 grade 4.8 bolt for all other connections.
3. The cold formed lipped channels are to be bolted to the main support angle with two M10 grade 4.8 bolts at both ends of the lipped channel.
4. All steel to be coated with SANS approved corrosion protection galvanized paint for engineer's approval.

REV	DATE	CHK	APP	DESCRIPTION

CLIENT

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

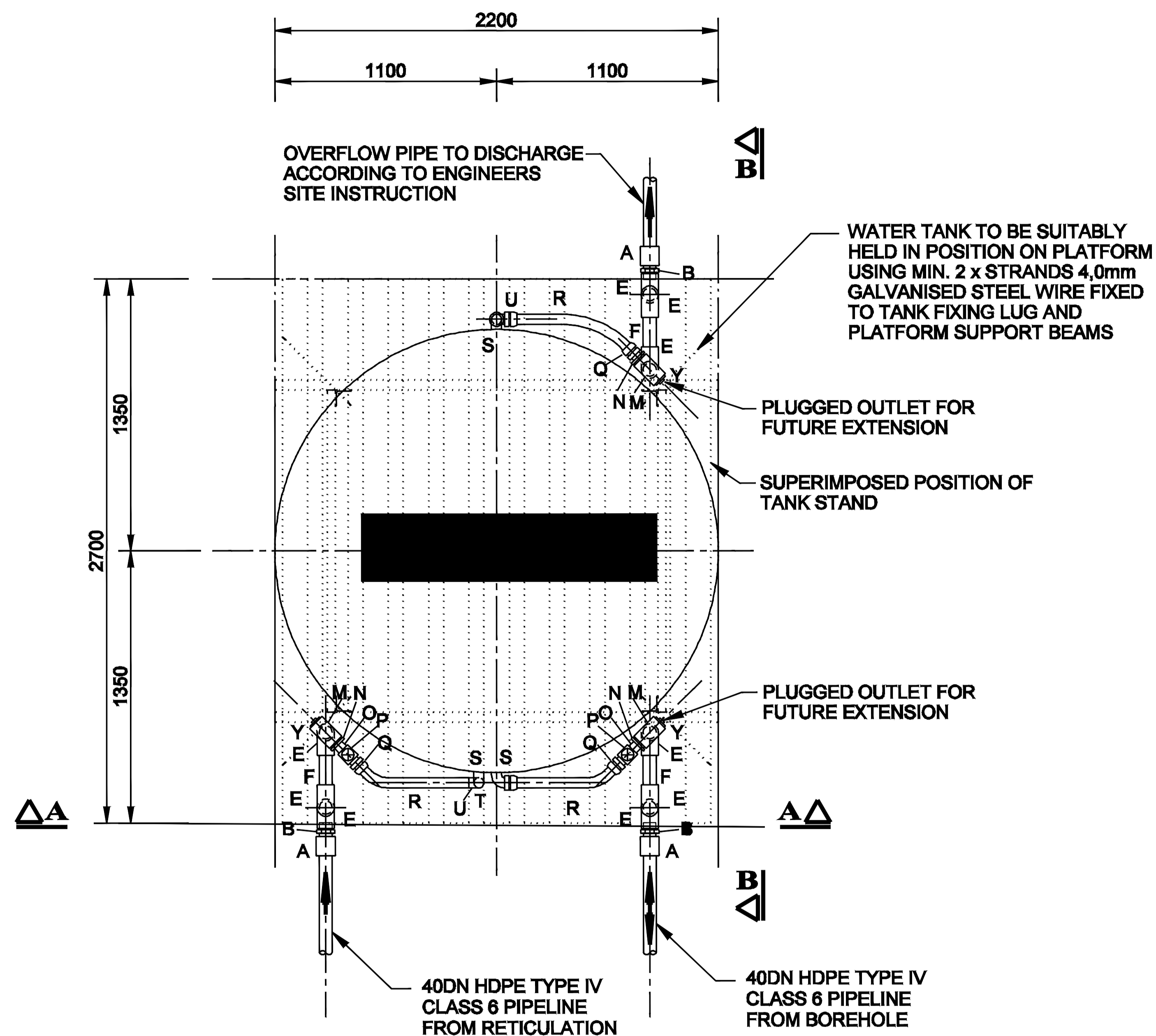
MUTEO CONSULTING

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 POLOKWANE 0699
 P.O. BOX 6196
 POLOKWANE NORTH
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PROJECT MNG.			
APPROVED			
CLIENT			

SCALE
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PROJECT No. LDPWRI-PROF/16003B
DRG SIZE A1

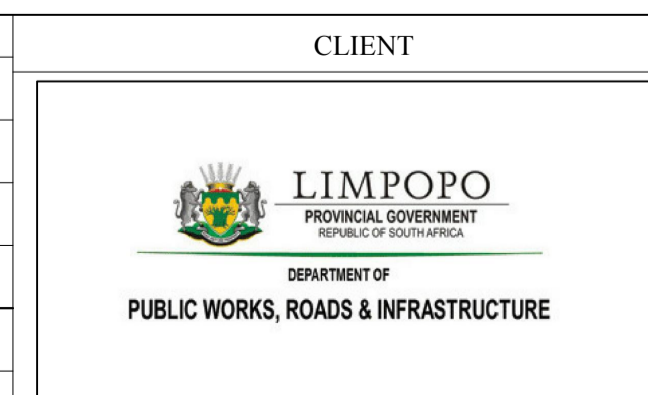
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TITLE	LDPWRI STORM DAMAGED SCHOOLS PVC TANK STAND DETAILS
DRAWING No.	LDPWRI SCHOOLS/B&C/03A
REV	0



PLAN
NTS

		SCHEDULE OF FITTINGS					
REF	NB	DESCRIPTION	WALL Ψ mm	FLANGE DRILLING	TREATMENT		QTY
					GALVA NISED	EPOXY RESIN PAINT	
A	40	'PLASSON' MALE ADAPTOR COMPRESSION FITTING					3no
B	65x40	65 x 40 DN MGI REDUCING BUSH			*		3no
D	65	475mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		3no
E	65	90 DEGREE MGI FEMALE BEND			*		9no
F	65	330mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		3no
G	65	1020mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		2no
H	65	MGI CONICAL SEAT UNION			*		2no
J	65	MGI BARREL NIPPLE			*		2no
K	65	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
L	65	2000mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		2no
M	65	65x65x65ND MGI FEMALE EQUAL TEE			*		3no
N	65x50	65x50ND MGI REDUCING BUSH			*		3no
O	50	MGI BARREL NIPPLE			*		2no
P	50	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
Q	50	50NDx50BSP MALE ADAPTOR COMPRESSION FITTING			*		3no
R	50	600mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		3no
S	50x40	50NDx40BSP MALE ELBOW COMPRESSION FITTING			*		3no
T	50	2800mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		2no
U	50	90 DEGREE ELBOW COMPRESSION FITTING			*		2no
V	65	3150mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		1no
W	-	10 000 LITRE POLYETHYLENE WATER TANK (3040mm HIGH x 2200mm DIAMETER). COMPLETE WITH 50x40ND NYLON REDUCING BUSHES SEALED INTO ALL INLETS AND OUTLETS. TANK TO BE SUPPLIED COMPLETE WITH SUFFICIENT 4mm DIA GALVANISED STEEL WIRE FOR ANCHORING TO THE TANK STAND PLATFORM AS DETAILED ON PLAN NO. 0310A.25.4					1set
X	40	HDPE TYPE IV CLASS 6 PIPING (PROVISIONAL)					12m
Y	65	MGI HOLLOW PLUG			*		3no
Z	40	100 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS	4.5		*		1no
AA	40	90 DEGREE MGI MALE / FEMALE ELBOW			*		1no
AB	40	MGI CONICAL SEAT UNION			*		1no
AC	40	MGI BARREL NIPPLE			*		1no
AD	40	STAINLESS STEEL 'BALEM' FLOAT VALVE, MODEL BLBS 040 COMPLETE WITH FLOW INDUCTION TUBE					1set
		MISCELLANEOUS FITTINGS					9no
		1) PIPE CLAMPS AS DETAILED ON PLAN NO. 0310.25.3					

REV	DATE	CHK	APP	DESCRIPTION

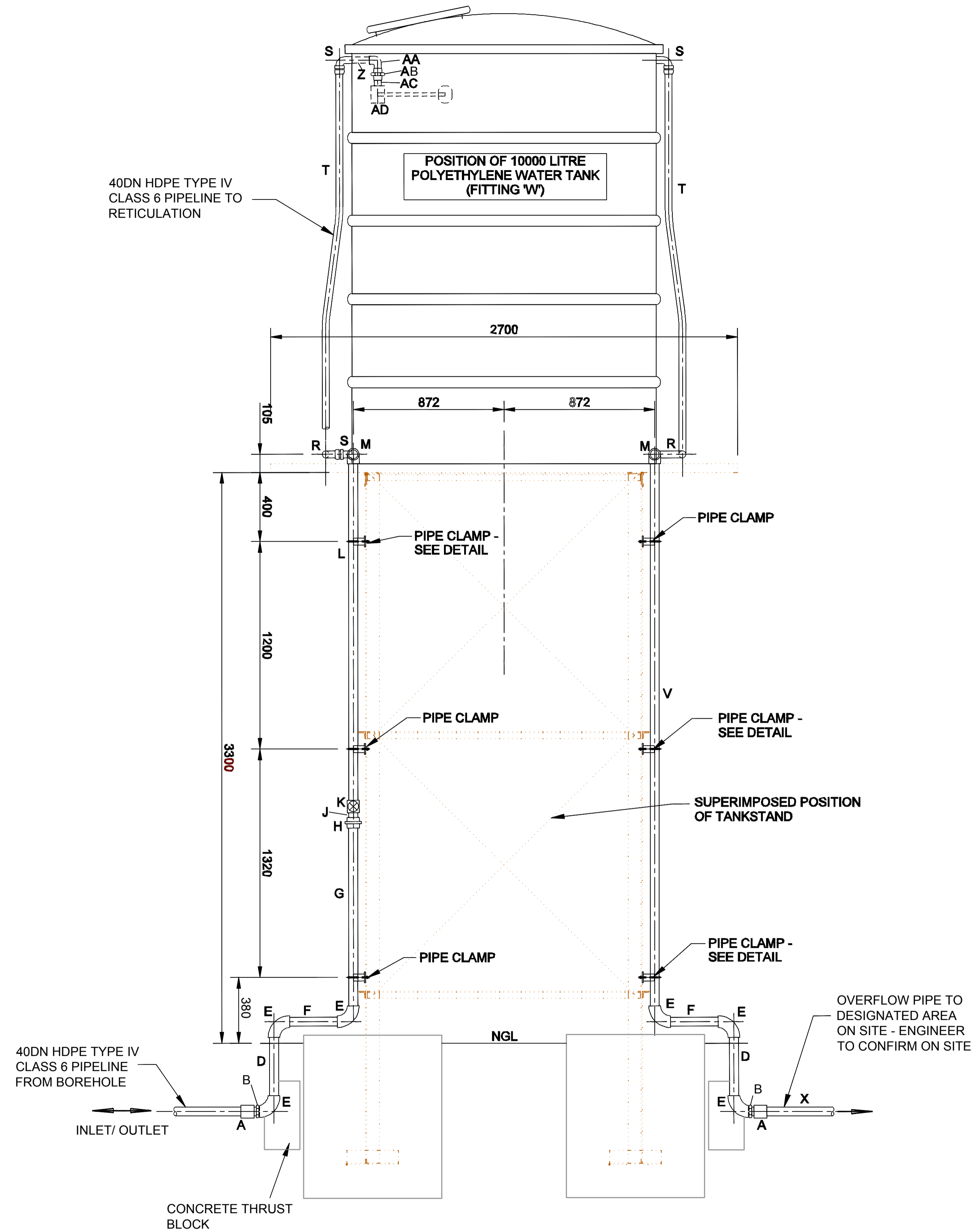


39 GROBLER STREET
POLOKWANE 0699
P.O. BOX 6196
POLOKWANE NORTH
0750
TEL : (015) 291 4065
FAX : (015) 291 4043
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PROJECT APPR.	DATE	BY	SIGNATURE
DESIGNED	10/08/2021	V.M	
CHECKED	10/08/2021	E.M	
DRAWN	10/08/2021	V.M	
PROJECT MNG.			
APPROVED			
CLIENT			

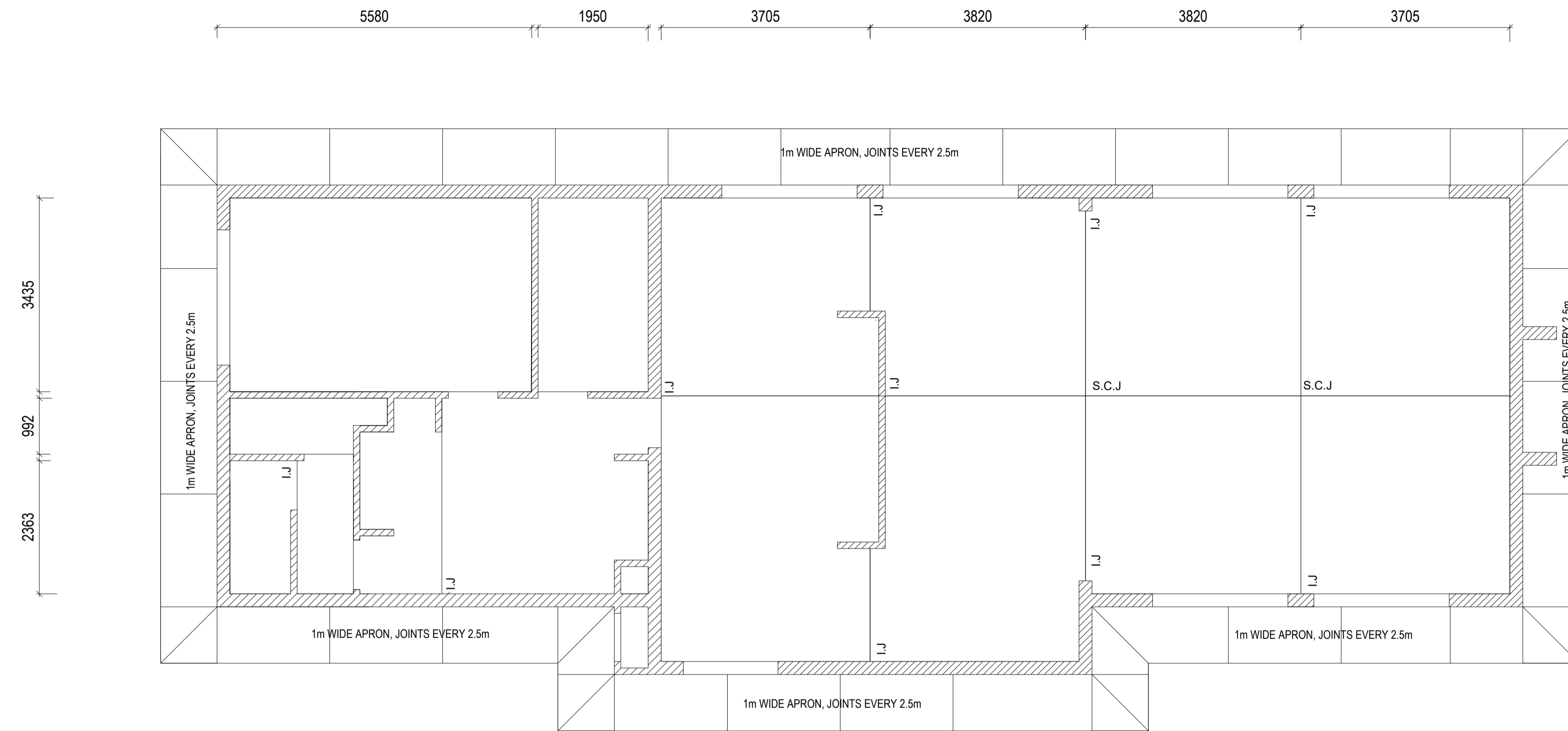
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PROJECT No. LDPWRI-PROF/16003B
DRG SIZE A1

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DRAWING No.	LDPWRI SCHOOLS/B&C/03B

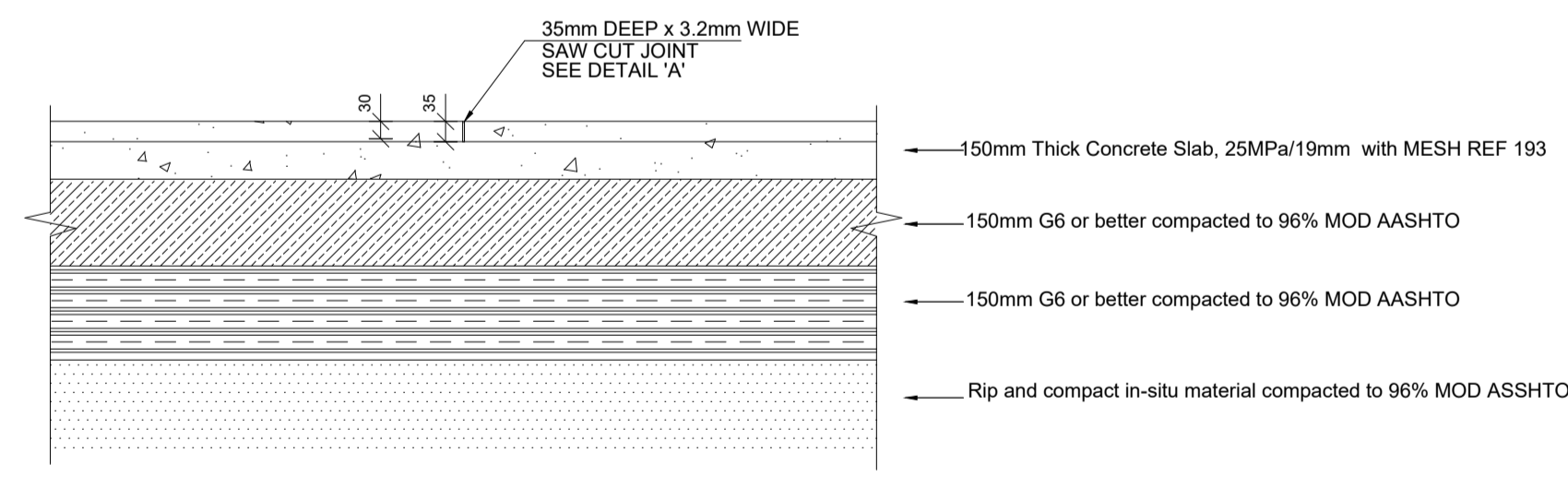


SCHEDULE OF FITTINGS							
REF	NB	DESCRIPTION	WALL T mm	FLANGE DRILLING	TREATMENT		QTY
					GALVA NISED	EPOXY RESIN PAINT	
A	40	'PLASSON' MALE ADAPTOR COMPRESSION FITTING					3no
B	65x40	65 x 40 DN MGI REDUCING BUSH			*		3no
D	65	475mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		3no
E	65	90 DEGREE MGI FEMALE BEND			*		9no
F	65	330mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		3no
G	65	1020mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		2no
H	65	MGI CONICAL SEAT UNION			*		2no
J	65	MGI BARREL NIPPLE			*		2no
K	65	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
L	65	2000mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		2no
M	65	65x65x65ND MGI FEMALE EQUAL TEE			*		3no
N	65x50	65x50ND MGI REDUCING BUSH			*		3no
O	50	MGI BARREL NIPPLE			*		2no
P	50	BRASS FEMALE THREADED FULLWAY GATE VALVE			*		2no
Q	50	50NDx50SP MALE ADAPTOR COMPRESSION FITTING			*		3no
R	50	600mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		3no
S	50x40	50NDx40SP MALE ELBOW COMPRESSION FITTING			*		3no
T	50	2800mm LONG HIGH DENSITY POLYETHYLENE TYPE IV CLASS 6 PIPE (TO SABS 633)			*		2no
U	50	90 DEGREE ELBOW COMPRESSION FITTING			*		2no
V	65	3150mm LONG MGI PIPE PIECE THREADED BOTH ENDS	4.5		*		1no
W	-	10 000 LITRE POLYETHYLENE WATER TANK (3040mm HIGH x 2200mm DIAMETER). COMPLETE WITH 60x40ND NYLON REDUCING BUSHES SEALED INTO ALL INLETS AND OUTLETS. TANK TO BE SUPPLIED COMPLETE WITH SUFFICIENT 4mm DIA GALVANISED STEEL WIRE FOR ANCHORING TO THE TANK STAND PLATFORM AS DETAILED ON PLAN NO. 0310A.25.4					1set
X	40	HDPE TYPE IV CLASS 6 PIPING (PROVISIONAL)					12m
Y	65	MGI HOLLOW PLUG			*		3no
Z	40	100 mm LONG GALVANISED STEEL PIPE THREADED BOTH ENDS	4.5		*		1no
AA	40	90 DEGREE MGI MALE / FEMALE ELBOW			*		1no
AB	40	MGI CONICAL SEAT UNION			*		1no
AC	40	MGI BARREL NIPPLE			*		1no
AD	40	STAINLESS STEEL 'BALEM' FLOAT VALVE, MODEL BLBS 040 COMPLETE WITH FLOW INDUCTION TUBE					1set
		MISCELLANEOUS FITTINGS 1) PIPE CLAMPS AS DETAILED ON PLAN NO. 0310.25.3					9no

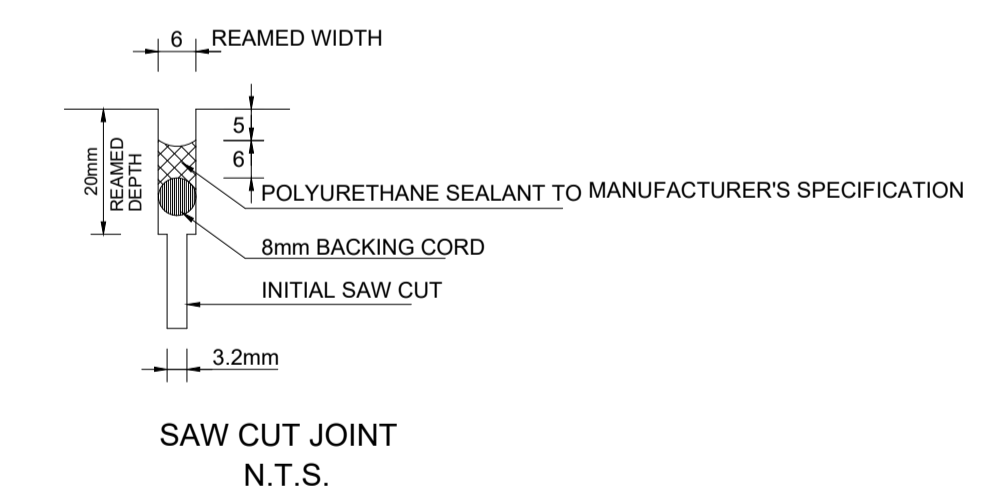
				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
							DESIGNED	10/08/2021	V.M		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
							CHECKED	10/08/2021	E.M			LDPWRI STORM DAMAGED SCHOOLS PVC TANK PIPE FITTINGS	
							DRAWN	10/08/2021	V.M			PROJECT No.	
							PROJECT MNG.				LDPWRI-PROF/16003B	DRAWING No.	
							APPROVED				DRG SIZE	A1	
							CLIENT					LDPWRI SCHOOLS/B&C/03C	
REV	DATE	CHK	APP	DESCRIPTION									REV 0



1564 3657 **FLOOR JOINT LAYOUT - PLAN**



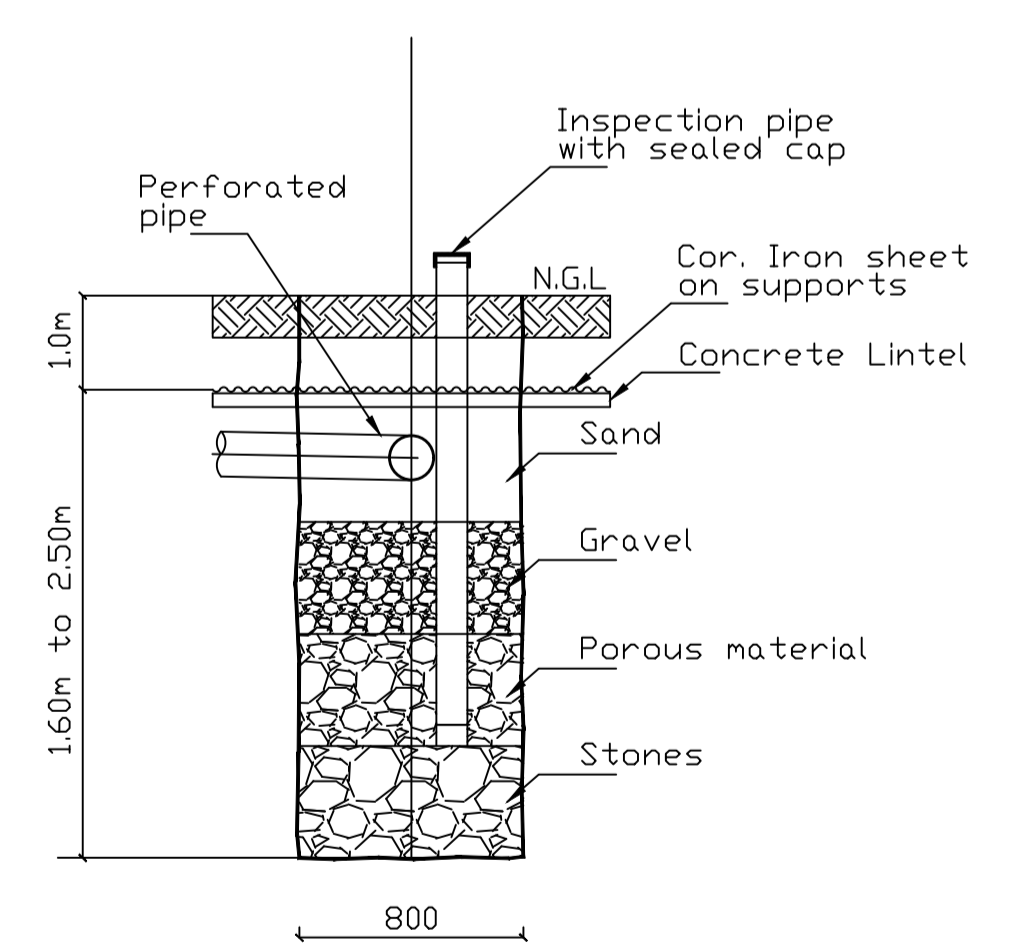
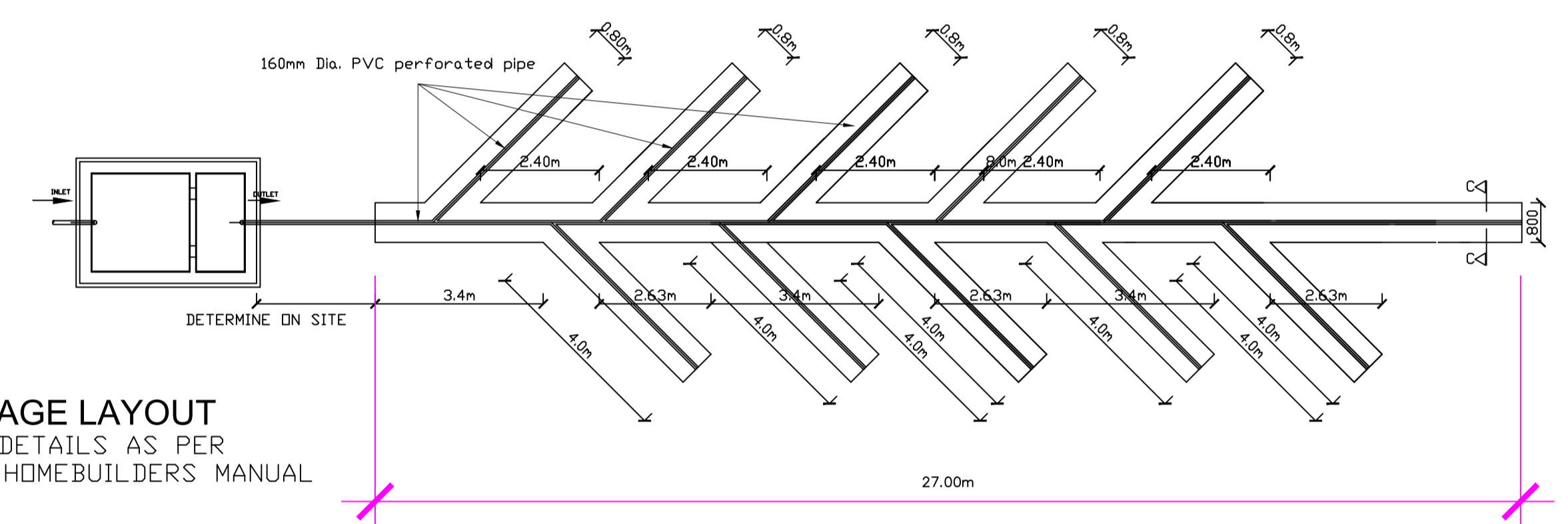
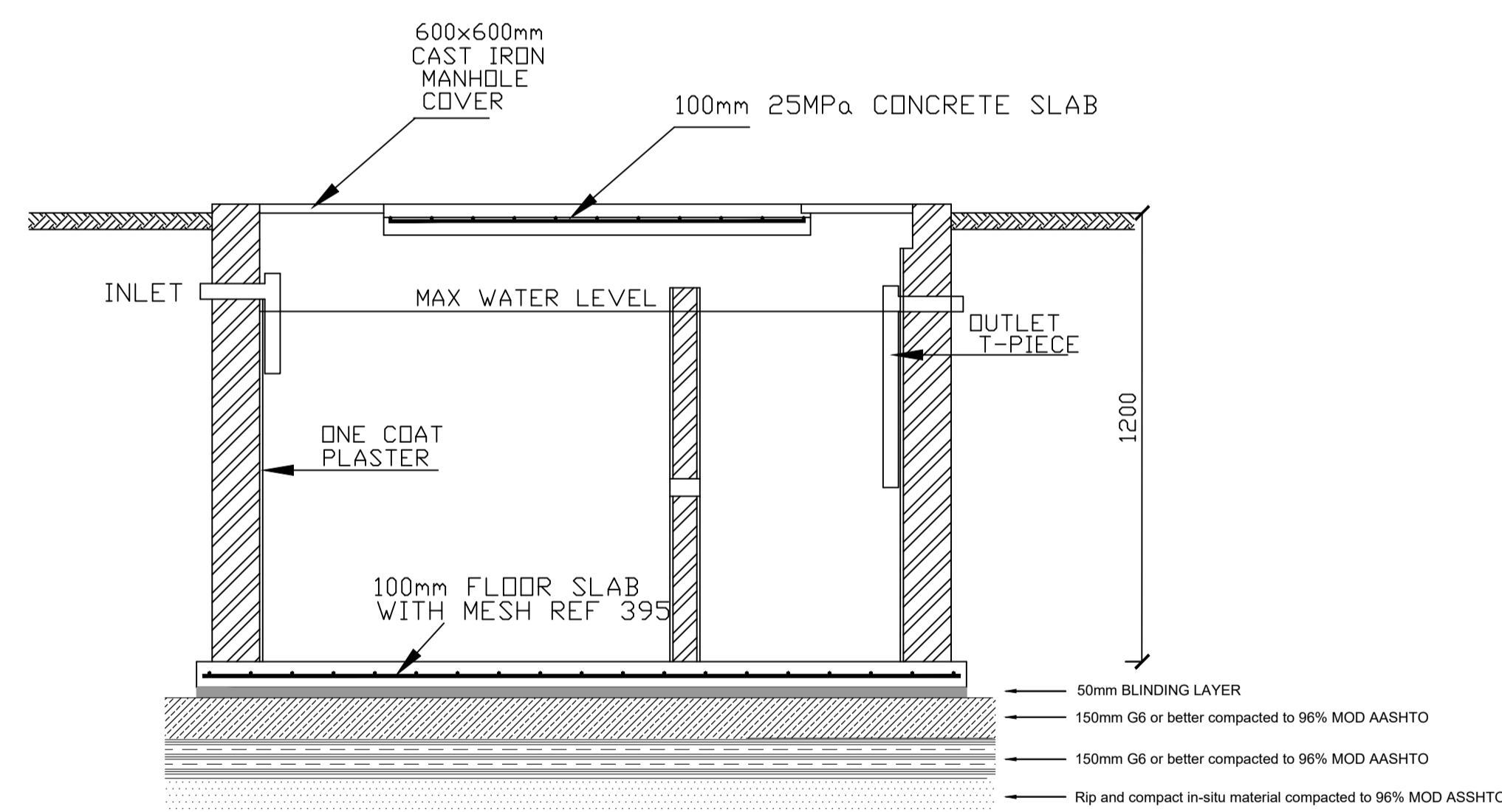
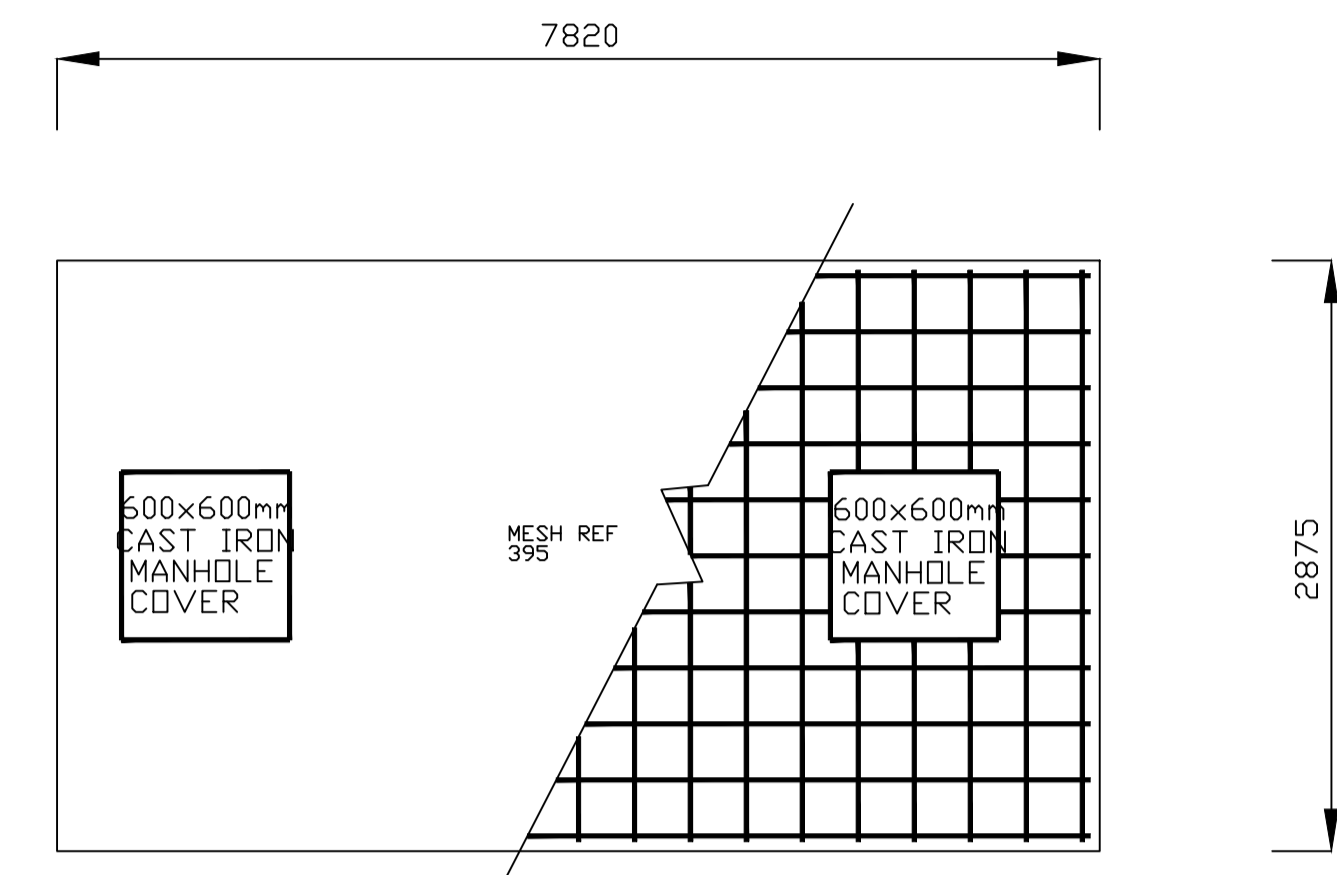
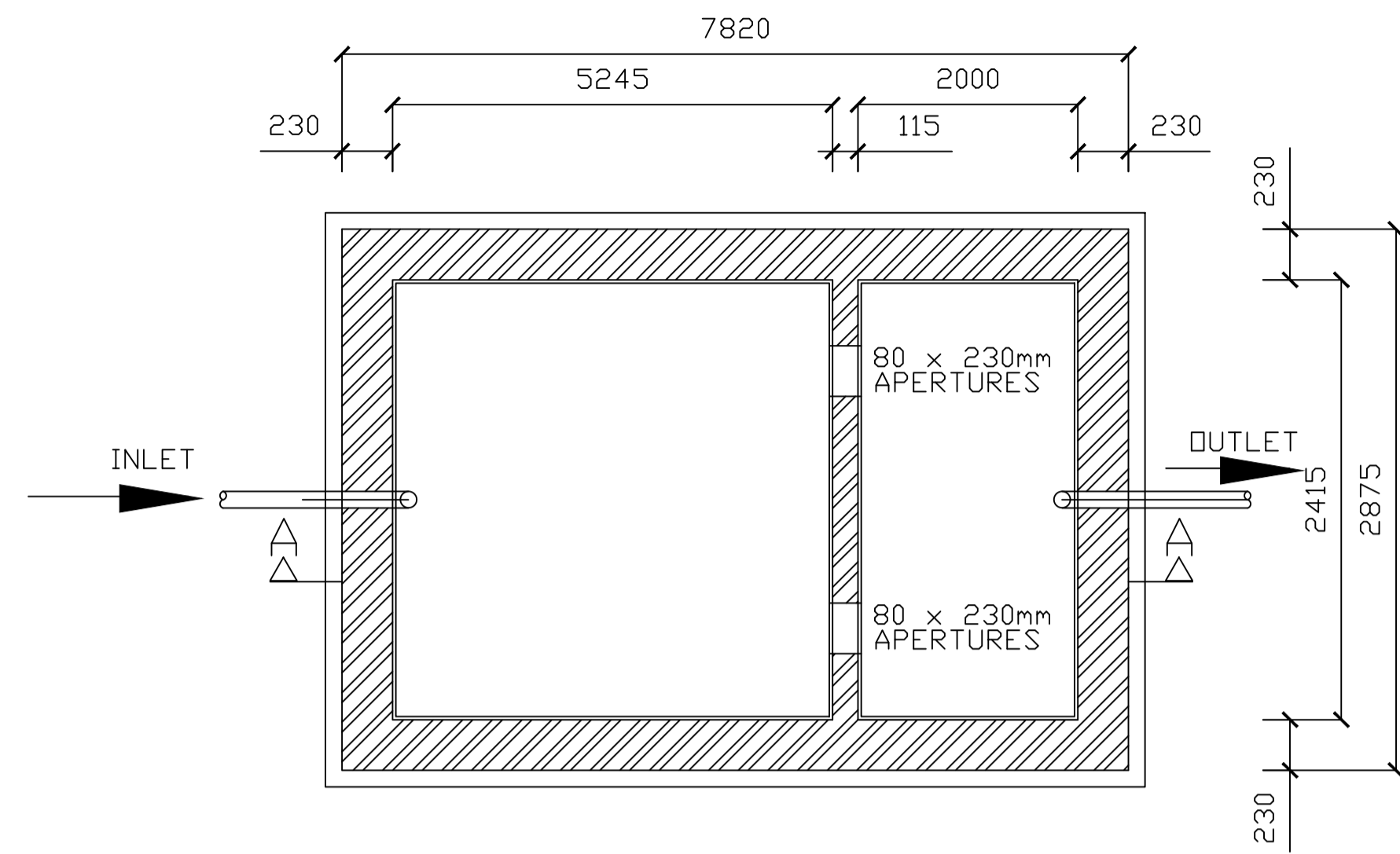
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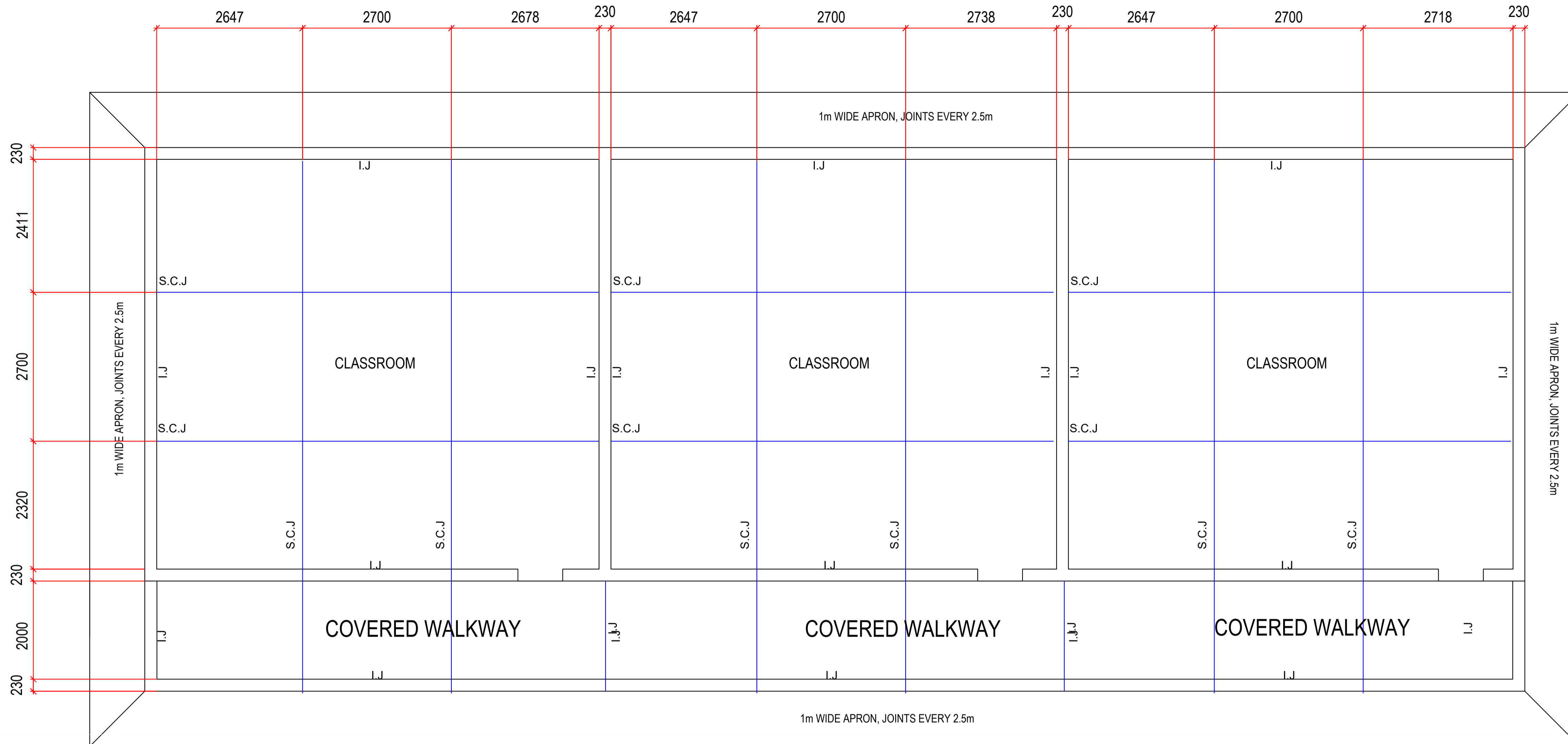
JOINT DETAILS - SECTIONS

				CLIENT	MUTEO CONSULTING	39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za	PROJECT APPR.	DATE	BY	SIGNATURE	SCALE	ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE	
				 DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE			DESIGNED	02 May 2023	S.D		DO NOT SCALE IF IN DOUBT ASK.	TITLE	
							NUTRISION BLOCK FLOOR JOINTS						
							CHECKED	02 May 2023	E.M		PROJECT No.		
							DRAWN	02 May 2023	S.D		LDPWRI-PROF/16003B		
							PROJECT MNG.				DRG SIZE	A1	DRAWING No.
							APPROVED						NUTRISION/RAFT/004
REV	DATE	CHK	APP	DESCRIPTION			CLIENT						REV
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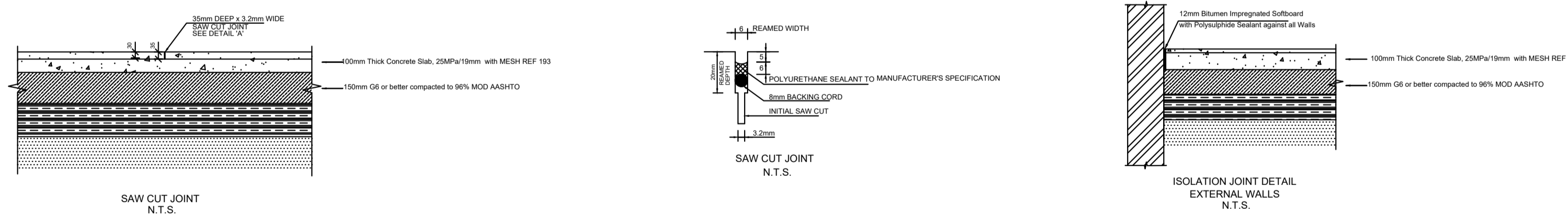


REV	DATE	CHK	APP	DESCRIPTION

CLIENT LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE		MUTEO CONSULTING MUTEO CONSULTING		39 GROBLER STREET POLOKWANE 0699 P.O. BOX 6196 POLOKWANE NORTH 0750 TEL : (015) 291 4065 FAX : (015) 291 4043 website: www.muteo.co.za		PROJECT APPR. DATE BY SIGNATURE DESIGNED 10 April 2023 S.D. CHECKED 10 April 2023 E.M. DRAWN 10 April 2023 S.D. PROJECT MNG. APPROVED CLIENT		SCALE DO NOT SCALE IF IN DOUBT ASK. PROJECT No. LDPWRI-PROF/16003C DRG SIZE A1		ALL DIMENSION IN mm UNLESS SPECIFIED OTHERWISE TITLE MOLESHATLOU SECONDARY SCHOOL SEPTIC TANK DRAWING No. LDPWRI SCHOOLS/C/SEKETE/08 REV 0	
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FLOOR JOINTS



JOINT DETAILS - SECTIONS

1. GENERAL NOTES

- All work to be done in accordance with the National Building Regulations and the relevant SABS Specifications.
- All drawings to be read in conjunction with Architect's drawings and any discrepancies must be reported to the Engineer prior to any setting out of work.
- No structural alterations are to be made without amended drawings.
- All drawings must be checked by the Contractor and any discrepancies should be reported to the Engineer before any work commences.
- All waterproofing and drainage to be to Architect's details and instructions.
- Contractor to ensure that stability of banks and excavations are continuously maintained throughout the construction period.

2. R.C. CONSTRUCTION

- No concrete is to be poured before the Engineer has inspected and approved the fixing of the reinforcement, 48 hours notice is required.
- Breaks in concrete and construction joints are to be made only with Engineer's approval.
- Shuttering and propping may be struck only after the lapse of the following times (in days):

Beam sides, walls and unloaded columns	2
Slab soffits without removal of slab props	4
Beam soffits without removal of beam props	7
Props unloaded slabs	10
Props unloaded beams	14
- Minimum concrete cover to reinforcement (in mm)

beams	30
slabs	20
retaining walls (earth face)	30
retaining walls (exposed face)	30
- Concrete cube strength at 28 days in (MPa)

blinding	15	beams	25
Mortar(Class A)	15	slabs	25
columns	30	walls	25
- Concrete cover to reinforcing to be maintained by the use of either nylon spacers or precast concrete blocks with binding wires cast in.
- All floor levels, unless otherwise indicated, are structural slab levels.

3. FOUNDING

- Foundations are subject to alterations as excavations proceed.
- No foundations are to be cast or reinforcement fixed in bases until excavations have been approved by an Engineer.
- All backfill material under foundations and floors to be as follows:
 - G6 Material or better
 - PI < 6
 - Compacted to 96% MOD AASHTO in layers of 150mm
 - Non-cohesive and free draining

4. ADDITIONAL NOTES

- All exposed concrete slabs and beams bearing on brickwork to have a slip joint made up of 2 sheets of masonite with smooth faces abutting each other at top of brick-concrete interface. Joint to extend through plaster.
- Special attention to be given to curing of concrete. Exact details to be discussed with Engineer on site prior to pouring of any concrete.
- Two lintels plus five courses of brickwork to be built over all openings - reinforced every course with brickforce.
- All brickwork to have a minimum compressive strength of 15MPa.
- A construction joint sealed with suitable flexible sealant is to be formed at all junctions between new brickwork and existing brickwork.
- No brickwork is to be built onto suspended slabs or beams until slabs/beams have attained their full strength and have been depropped.
- All deviations from architect's drawing to be confirmed by architect prior to construction.
- All work to be carried out in accordance with the National Building Regulations, Environmental and Occupational Health and Safety Act, (latest revision), and the Construction Regulations.
- The main contractor is to ensure that a competent person, approved by the South African Qualification Authority supervises and approves all aspects of the requirements of the Occupational Health and Safety Act, latest revision.
- All temporary works to be designed, detailed, supervised and certified by a competent person or professional engineer as defined in the OHS ACT.
- The works will be inspected from time to time by the consulting engineer to ascertain that the contractor is carrying out the work in general conformity with the engineering drawings and documents. Such inspections are not carried out for the benefit of the contractor, and do not relieve him of the responsibility for the proper construction of the works in accordance with the engineering drawings, documents & good building practice.

5. COMPLETION CERTIFICATE

- No completion certificate shall be issued if all material and compaction test results are not submitted to the Engineer.

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							DESIGNED	22 June 2021	N.M		DO NOT SCALE IF IN DOUBT ASK.	TITLE
							CHECKED	22 June 2021	E.M		PROJECT No. LDPWRI-PROF/16003B	MOLESHATLOU SECONDARY SCHOOL 3 X CLASSROOM BLOCK RENOVATION FLOOR JOINTS
							DRAWN	22 June 2021	N.M		DRG SIZE	DRAWING No. LDPWRI SCHOOLS/C/MOLESHATLOU/04
REV	DATE	CHK	APP	DESCRIPTION			APPROVED				A1	REV 0