



**BID NUMBER: LDPWRI-B/20299**

**APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT**

**for**

**LIMPOPO DEPARTMENT OF EDUCATION (LDOE),**

**LIMPOPO PROVINCE**

**FRAMEWORK CATEGORY A (7GB AND ABOVE)**

**Issued by:**

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

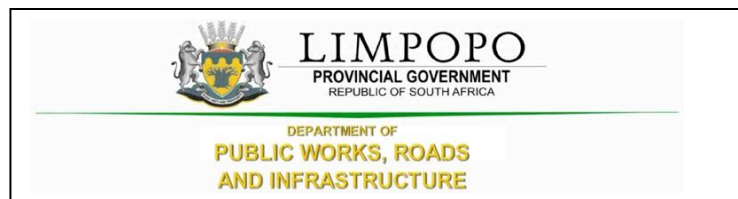
**Contact Person: General Queries**

Name : Mr NJ Motsopye,  
Tel No. : 015 284 7126  
Email : [motsopyen@dpw.limpopo.gov.za](mailto:motsopyen@dpw.limpopo.gov.za)

**Technical: Technical Queries**

Name : Mr K Modjadji  
Tel No. : 083 673 5436  
Email : [ModjadjiM@dpw.limpopo.gov.za](mailto:ModjadjiM@dpw.limpopo.gov.za)

**Name of the Bidder : .....**



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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE  
(KGOSI MAHLANGU), SEKHUKHUNE DISTRICT

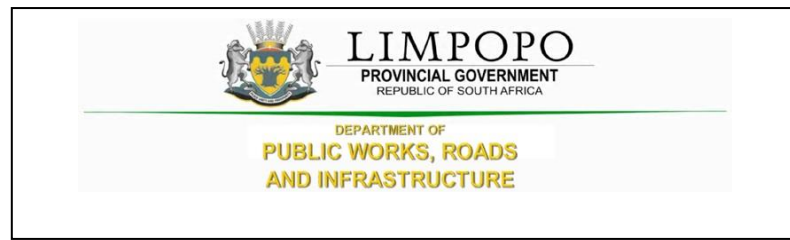
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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE  
(KGOSI MAHLANGU), SEKHUKHUNE DISTRICT

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## **PART T1: TENDERING PROCEDURE**



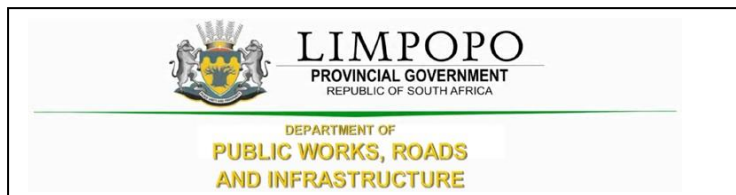
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## T1.1 Tender Notice and Invitation to Tender

The Limpopo Department of Public Works, Roads and Infrastructure invites tenderers from contractors appointed on the framework agreement on **category A** for **APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE)** for a period of 18 months. It is estimated that tenderers must have a CIDB contractor grading designation of **7 GB** or higher.

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

|  |   |                             |
|--|---|-----------------------------|
| <b>Project Name</b>  | APPOINTMENT OF A CONTRACTOR FOR THE DEMOLITION OF ADMINISTRATION BLOCK, 8 CLASSROOMS, THE REFURBISHMENT OF 6 CLASSROOMS, 20 ENVIROLOO SEATS AND THE CONSTRUCTION OF SMALL ADMINISTRATION BLOCK, 4 CLASSROOM BLOCK, 2 GRADE R CLASSROOM BLOCK, 4 SEATS WATERBORNE TOILET BLOCK AND EXTERNAL WORKS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT FOR LIMPOPO DEPARTMENT OF EDUCATION (LDOE) FOR A PERIOD OF 18 MONTHS |                             |
| <b>Tender Number</b>   | LDPWRI- B/20299   |                             |
| <b>Tender documents availability</b>   | Limpopo Department of Public Works, Roads and Infrastructure website  |                             |
| <b>Address for submission of tenders</b>   | DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE.<br><br>Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699.  |                             |
| <b>Closing date of the tender</b>  | <b>As per Tender invite</b>   |                             |
| <b>Closing time of the tender</b>  | <b>As per Tender invite</b>   |                             |
| <b>Compulsory briefing meeting</b> ( <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   | <b>As per Tender invite</b> |
|  | Date  | <b>As per Tender invite</b> |
|  | Time:   | <b>As per Tender invite</b> |
| <b>Evaluation criteria</b>   | <ol style="list-style-type: none"> <li>1. Compliance with mandatory or compulsory requirements</li> <li>2. Risk assessment on current projects</li> <li>3. Price</li> <li>4. Preference</li> </ol>  |                             |
| <b>Mandatory or Compulsory Requirements</b> ( <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  |                             |
|  | Completed and signed Form of Offer  |                             |
|  | Priced Bills of Quantities  |                             |
|  | Record of addenda to tender documents   |                             |
|  | Proposed amendments and qualifications  |                             |
|  | Declaration on the status of Administration compliance  |                             |
|  | CIDB grading certificate (Valid CIDB)   |                             |
|  | Declaration of current projects   |                             |



## 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 <a href="http://www.cidb.org.za">www.cidb.org.za</a>) 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 <b>No. 36190 of 25 February 2013</b>. In this case, contractor shall provide a <b>minimum Contract Participation Goal (CPG) of 5%</b> of the total project value and develop targeted enterprises stated under C3 of this document.</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><b>The Tender</b><br/> <b>Part T1: Tendering procedures</b><br/> T1.1 Tender notice and invitation to tender<br/> T1.2 Tender data</p> <p><b>Part T2: Returnable documents</b><br/> T2.1 List of returnable documents<br/> T2.2 Returnable schedules</p> <p><b>The Contract Part C1: Agreements and contract data</b><br/> C1.1 Form of offer and acceptance<br/> C1.2 Contract data<br/> C1.3 Joint Venture Agreement (If Applicable)</p> <p><b>The Contract Part C2: Pricing data</b><br/> C2.1 Pricing instructions<br/> C2.2 Bills of Quantities</p> <p><b>Part 3: Scope of work</b><br/> C3.1 Special Notes to Bidders<br/> C3.2 OHS Specifications</p> <p><b>Part 4: Site information</b><br/> C4 Drawings</p>   |
| C.1.4  | <p>The employer's representative is:</p> <p>Name : Mr K Modjadji<br/> Tel No. : 083 673 5436<br/> Email : <a href="mailto:ModjadjiM@dpw.limpopo.gov.za">ModjadjiM@dpw.limpopo.gov.za</a></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><b>Eligibility in respect of CIDB grading</b></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><b>Cost of tendering</b></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><b>Compulsory site briefing</b></p> <p>A compulsory briefing meeting will be held <b>as per Tender invite</b></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><b>Alterations to the documents</b></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><b>Alternative tender offer</b></p> <p>No alternative tender offer is permitted in this tender.</p>  |
| C.2.13.2 | <p><b>Replace sub-clause C.2.13.2 with the following;</b><br/>Return all returnable documents to the employer after completing them in by writing in <b>non-erasable black ink (Black pen)</b></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><b>Location of tender box: DEPARTMENT OF PUBLIC WORKS, ROADS &amp; INFRASTRUCTURE.</b><br/><b>Physical address: Corner River and Blaauwberg Streets, Ladanna, 0699</b><br/><b>Identification details:</b> 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 <b>120 days</b>.</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"> <li>- Persons who had no franchise in national elections prior to 1983 and 1993</li> <li>- Women</li> <li>- Disabled persons</li> <li>- Promotion of SMMEs</li> <li>- Enterprises located in Limpopo Province</li> <li>- Promotion of youth</li> <li>- South African owned enterprises</li> </ul> |

|         |   |
|---------|---|
|         | <p><b>CIDB Grading Certificate</b></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><b>Letter of Good Standing</b></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 <b>not</b> 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"> <li>(i) Stage 1: Compliance with mandatory requirements as stated in Part T1.1</li> <li>(ii) Stage 2: Risk assessment on current projects</li> <li>(iii) Stage 3: Price</li> <li>(iv) Stage 4: Preference</li> </ul> <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&amp;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.<sup>1</sup></p> <ul style="list-style-type: none"> <li>a) Stage 1: Administrative Compliance: The Compliance or compulsory documents and returnables are detailed in Section T.2.1 of this tender document. Failure to submit, complete or comply with these requirements will lead to automatic disqualification.</li> <li>b) Stage 2: Risk assessment on current projects</li> </ul> <p>The total value of current projects for a contractor under consideration cannot exceed twice the maximum value of their relevant CIDB grade. Should it exceed, the bidder will therefore not be appointed.</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

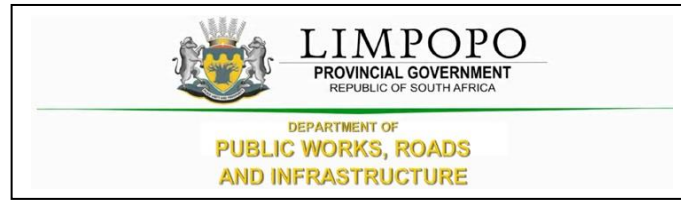
$P_m$  is the lowest Comparative bid price

$P_o$  is the comparative price under consideration

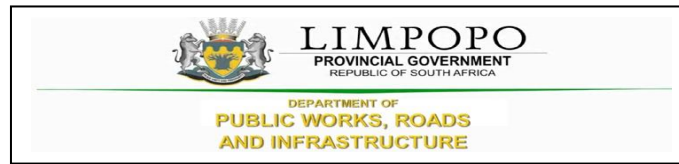
- b)  $N_P$  is the number of tender evaluation points awarded for preferences claimed in accordance with the Preferencing Schedule in 3.18

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE  
(KGOSI MAHLANGU), SEKHUKHUNE DISTRICT

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## **PART T2: RETURNABLE DOCUMENTS**



## T2.1 : LIST OF RETURNABLE DOCUMENTS

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

### **A -- MANDATORY REQUIREMENTS**

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

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

- 2.8 SBD 1 (Fully Completed and Signed)
- 2.9 SBD 4 (Fully Completed and Signed). False declaration by the bidder will render the proposal non-responsive and will not be considered
- 2.9 SBD 6.1 (Failure on the part of a bidder to complete and submit proof or documentation required in terms of this tender to claim points for specific goals with tender, will be interpreted to mean that preference points for specific goals are not claimed)

| <b>SPECIFIC GOALS</b>   | <b>REQUIRED ATTACHMENT</b>  |
|---|---|
| Persons who had no franchise in national elections prior to 1983 and 1993 | Attach certified copy of South African ID as proof  |
| Women   | Attach Director's certified copy of South African ID as proof + company registration documents  |
| Disabled Persons  | Bidder with disability must attach medical certificate completed by registered medical practitioner which is registered with Health Professions Council of South Africa (HPCSA) as proof  |
| Promotion of SMMEs  | Attach latest financial statement as proof  |
| Enterprises located in Limpopo Province                                   | <b>N.B:</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<br>a) A Title deed, Letter from a Traditional Authority or Municipal Statement which must not be older than three (3) months; or<br>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  |



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

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

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

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

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

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

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

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.

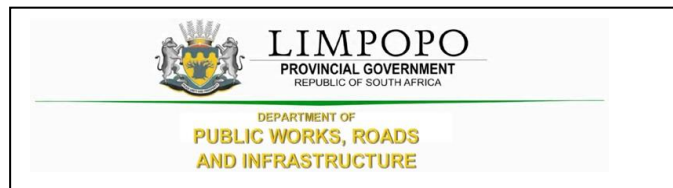
1.12 Quotations/Tenders received after the closing date and time will not be accepted for consideration.

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

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

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

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



## T 2.2: RETURNABLE SCHEDULE

|     | 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.  | 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 |
| 8.  | Declaration on the status of Administration compliance.   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.  | Proof of CIDB class grading: 7GB or higher.   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10. | Full CSD Report   | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11. | 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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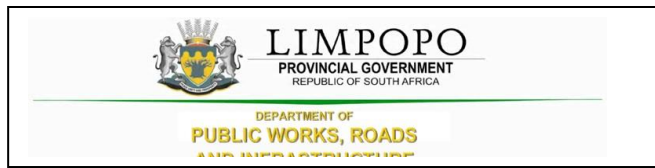
.....

.....

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.   |      |                  |

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

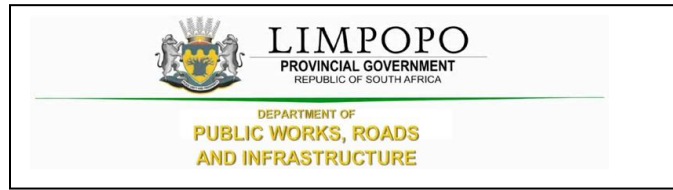
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Position

.....

*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**

|                    |                       |                     |                             |                      |                             |
|--------------------|-----------------------|---------------------|-----------------------------|----------------------|-----------------------------|
| <b>BID NUMBER:</b> | <b>LDPWRI-B/20299</b> | <b>CLOSING DATE</b> | <b>As per Tender Advert</b> | <b>CLOSING TIME:</b> | <b>As per Tender Advert</b> |
|--------------------|-----------------------|---------------------|-----------------------------|----------------------|-----------------------------|

**DESCRIPTION** **DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL**

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**

|                                   |                 |                       |  |                              |  |
|-----------------------------------|-----------------|-----------------------|--|------------------------------|--|
| <b>CONTACT PERSON</b>             | Mr. NJ Motsopye |                       |  |                              |  |
| <b>TELEPHONE NUMBER</b>           | 0152847126      | <b>E-MAIL ADDRESS</b> |  | motsopyen@dpw.limpopo.gov.za |  |
| <b>CONTACT PERSON (TECHNICAL)</b> | Mr. K Modjadji  |                       |  |                              |  |
| <b>TELEPHONE NUMBER</b>           | 083 673 5436    | <b>E-MAIL ADDRESS</b> |  | ModjadjiM@dpw.limpopo.gov.za |  |

**SUPPLIER INFORMATION**

|                                   |                                   |  |               |                                      |      |
|-----------------------------------|-----------------------------------|--|---------------|--------------------------------------|------|
| <b>NAME OF BIDDER</b>             |                                   |  |               |                                      |      |
| <b>POSTAL ADDRESS</b>             |                                   |  |               |                                      |      |
| <b>STREET ADDRESS</b>             |                                   |  |               |                                      |      |
| <b>TELEPHONE NUMBER</b>           | <b>CODE</b>                       |  | <b>NUMBER</b> |                                      |      |
| <b>CELLPHONE NUMBER</b>           |                                   |  |               |                                      |      |
| <b>E-MAIL ADDRESS</b>             |                                   |  |               |                                      |      |
| <b>VAT REGISTRATION NUMBER</b>    |                                   |  |               |                                      |      |
| <b>SUPPLIER COMPLIANCE STATUS</b> | <b>TAX COMPLIANCE SYSTEM PIN:</b> |  | <b>OR</b>     | <b>CENTRAL SUPPLIER DATABASE No:</b> | MAAA |

|  |  |  |   |
|--|--|--|---|
| <b>ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?</b> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br>[IF YES ENCLOSE PROOF] | <b>ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES WORKS OFFERED?</b> | <input type="checkbox"/> Yes <input type="checkbox"/> No<br>[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.**

CONTRACT No. LDPWRI-B/20299

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

|  |
|--|
| <b>1. BID SUBMISSION:</b>  |
| 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.   |
| 1.2. <b>ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.</b>  |
| 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. <b>THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM.</b>  |
| <b>2. TAX COMPLIANCE REQUIREMENTS</b>  |
| 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: .....

## BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

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

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

### 2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>2</sup> in the enterprise,

employed by the state?

**YES/NO**

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

| Full Name | Identity Number | Name of State institution |
|-----------|-----------------|---------------------------|
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....  
.....

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



CONTRACT No. LDPWRI-B/20299

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

2.3.1 If so, furnish particulars:

.....  
.....

**3 DECLARATION**

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

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>3</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.4 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting

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

DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), SEKHUKHUNE DISTRICT

CONTRACT No. LDPWRI-B/20299

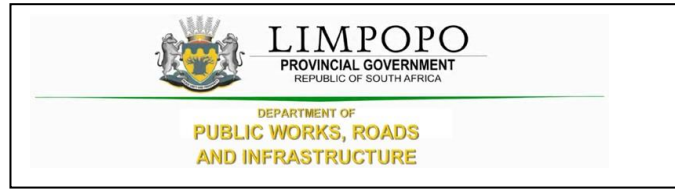
business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

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

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

.....  
Signature Date

.....  
Position Name of bidder



## SBD 6.1

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

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

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

#### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

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

#### 1.2 To be completed by the organ of state

*(delete whichever is not applicable for this tender).*

- a) ~~The applicable preference point system for this tender is the 90/10 preference point system.~~
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

CONTRACT No. LDPWRI-B/20299

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

The maximum points for this tender are allocated as follows:

|  | <b>POINTS</b> |
|--|---------------|
| <b>PRICE</b>                                     | 80            |
| <b>SPECIFIC GOALS</b>                            | 20            |
| <b>Total points for Price and SPECIFIC GOALS</b> | <b>100</b>    |

- 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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) \end{array}$$

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:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) \end{array}$$

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

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

.....  
**SIGNATURE(S) OF TENDERER(S)**

**SURNAME AND NAME:** .....

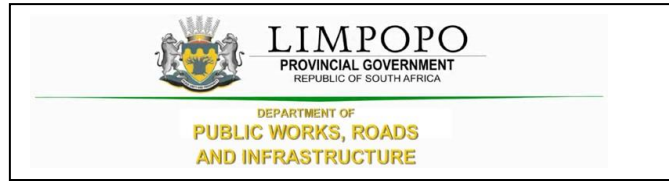
**DATE:** .....

**ADDRESS:** .....

.....

.....

.....



**DECLARATION OF CURRENT PROJECTS**

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

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

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

*Misrepresentation of facts will render your bid non-responsive.*

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

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

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



|  |  |  |  |  |  |
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Signed \_\_\_\_\_ Date \_\_\_\_\_

Name \_\_\_\_\_ Position \_\_\_\_\_

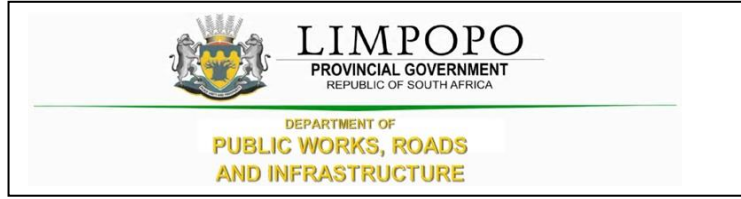
*Enterprise* \_\_\_\_\_



# 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 PHAPHAMANI PRIMARY SCHOOL IN JERUSALEM VILLAGE (KGOSI MAHLANGU), 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 .....

.....

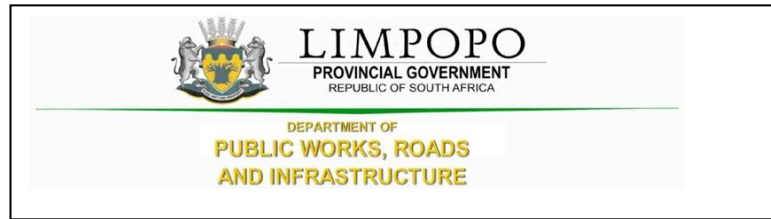
.....

.....

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.

.....



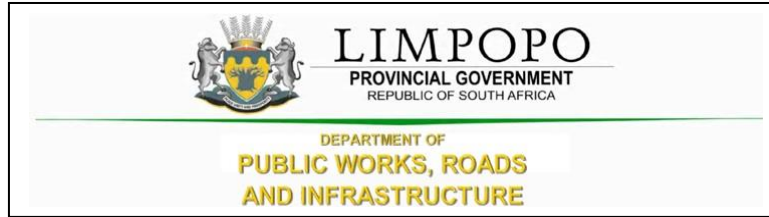
## C2.1 CONTRACT DATA

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**

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION NO. 1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARIES NOTES</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>NOTES</u></b></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 <b><i>Principal Building Agreement: Contract Data</i></b> 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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |          |      |        |

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|  | <b>Brought Forward</b>  |  | 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><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><b><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)</u></b></p> <p><b><u>DEFINITIONS AND INTERPRETATION (A1)</u></b></p> <p>1/1/1 Clause 1.0</p> <p>F:..... V:.....<br/>T:.....</p> <p style="text-align: right;">Item</p> <p><b><u>OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)</u></b></p> <p>1/1/2 Clause 2.0</p> <p>F:..... V:.....<br/>T:.....</p> <p style="text-align: right;">Item</p> <p><b><u>DOCUMENTS (A3)</u></b></p> <p>1/1/3 Clause 3.0</p> <p>F:..... V:.....<br/>T:.....</p> <p style="text-align: right;">Item</p> |  |   |  |
|  | <b>Carried Forward</b>  |  | R |  |
|  | <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |  |   |  |

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

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

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|        | Brought Forward   |      | R |  |
|--------|---|------|---|--|
|        | <b><u>EXECUTION</u></b>   |      |   |  |
|        | <b><u>PREPARATION FOR AND EXECUTION OF THE WORKS (A15)</u></b>                        |      |   |  |
| 1/1/15 | Clause 15.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>ACCESS TO THE WORKS (A13)</u></b>   |      |   |  |
| 1/1/16 | Clause 16.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>CONTRACT INSTRUCTION (A17)</u></b>  |      |   |  |
| 1/1/17 | Clause 17.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>SETTING OUT OF THE WORKS (A18)</u></b>  |      |   |  |
| 1/1/18 | Clause 18.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>ASSIGNMENT (A19)</u></b>  |      |   |  |
| 1/1/19 | Clause 19.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>NOMINATED SUBCONTRACTORS (A20)</u></b>  |      |   |  |
| 1/1/20 | Clause 20.0<br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b>Carried Forward</b>  |      | R |  |
|        | Section No. 1<br>PRELIMINARIES AND GENERAL<br>Bill No. 1<br>Preliminaries and General |      |   |  |

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

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



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

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

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|        | <b>Brought Forward</b>   |      | <b>R</b> |  |
|--------|--|------|----------|--|
|        | <b><u>SCHEDULE OF VARIABLES (A42)</u></b>  |      |          |  |
| 1/1/43 | Clause 42.0<br><br>F:..... V:.....<br>T:.....  | Item |          |  |
|        | <b><u>AGREEMENT</u></b>  |      |          |  |
|        | <b><u>AGREEMENT</u></b>  |      |          |  |
| 1/1/44 | Clause<br><br>F:..... V:.....<br>T:.....<br><br>Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder   | Item |          |  |
|        | <b><u>CONTRACT DETAILS</u></b>   |      |          |  |
|        | Works Description:<br><br>Demolitions of administration block and 08 classrooms, renovations of 6 classrooms, 20 enviro-loo seats and the construction of small administration block, 4 classrooms, 2 Grade R classrooms, 4 waterborne toilet seats including all related external works |      |          |  |
|        | Site Description:<br><br>Phaphamani Secondary School<br>Mpudulle, Monsterlus Groblersdal,<br>Sekhukhune,<br>Limpopo  |      |          |  |
|        | Work for installation by direct contractors: <b>TBC</b>  |      |          |  |
|        | <b>Carried Forward</b>   |      | <b>R</b> |  |
|        | Section No. 1<br>PRELIMINARIES AND GENERAL<br>Bill No. 1<br>Preliminaries and General  |      |          |  |

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|        | <b>Brought Forward</b>  |      | R |  |
|--------|---|------|---|--|
|        | <p>This agreement is for a government contract: <b>Yes</b></p> <p>Date on which possession of the site is intended to be given: <b>TBC</b></p> <p>Period for the commencement of the works after the contractor takes possession of the site: <b>10 days</b></p> <p>Completions in sections are required: <b>No</b></p> <p>Intended date of practical completion and the penalty per calendar day for the works as a whole:</p> <p><b>R 4 550.00</b></p> <p>Contract duration : <b>18 months</b> including national builder's break</p> <p><b>SPECIAL COMPLETION REQUIREMENTS</b></p> <p>Beneficial occupation dates: <b>TBC</b></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 |   |  |
|        | <b>Carried Forward</b>  |      | R |  |
|        | <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |      |   |  |

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|        | <b>Brought Forward</b>  |      | R |  |
|--------|---|------|---|--|
|        | <p><b><u>INSURANCES</u></b></p>   |      |   |  |
| 1/1/47 | <p>Contract works insurance to be effected by: <b>Contractor</b></p> <p>For the amount of: The <b>Contract Sum</b> 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 <b>Contractor's</b> account</p> <p>SASRIA insurance required:</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/48 | <p>Public liability insurance to be effected by <b>Contractor</b></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:.....<br/>T:.....</p>   | Item |   |  |
|        | <p><b><u>DOCUMENT</u></b></p> <p>Waivers of contractors lien is required: <b>Yes</b></p> <p>Number of construction document copies to be supplied free of charge: <b>3</b></p> <p>Number of days for submission of priced documents:<br/><b>TBA</b></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: <b>No</b></p> <p>Alternative if contract value is not adjusted using Contract Price Adjustment Provision: <b>N/A</b></p> <p>Tender Price is requested for Fixed Rates.</p> |      |   |  |
|        | <b>Carried Forward</b>  |      | R |  |
|        | <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |      |   |  |

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|   |  |  |  |   |
|---|--|--|--|---|
| <p style="text-align: center;"><b>Brought Forward</b></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;"><b>Carried Forward</b></p> <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |  |  |  | R |

|        | <b>Brought Forward</b>  |      | R |  |
|--------|---|------|---|--|
|        | <b><u>SECTION B: PRELIMINARIES</u></b>  |      |   |  |
|        | <b><u>Definition and interpretation (B1)</u></b>  |      |   |  |
| 1/1/49 | Definition and interpretation (B1.1 - B1.6.5)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>Documents (B2)</u></b>  |      |   |  |
| 1/1/50 | Checking of documents (B2.1)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/51 | These bills of quantities contain pages and annexures as indexed on the flyleaf<br><br>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.<br><br>F:..... V:.....<br>T:..... | Item |   |  |
| 1/1/52 | Provisional bills of quantities (B2.2)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/53 | Availability of construction documentation for contracts based on provisional bills of quantities (B2.3)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/54 | Interests of agents (B2.4)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
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| 1/1/55 | Priced documents (B2.5)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/56 | Tender submission (B2.6)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/57 | Notwithstanding anything contained in this clause<br>tenders shall be valid for a period of 90 days from the<br>closing date of tenders<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
|        | <b><u>The site (B3)</u></b>   |      |   |  |
| 1/1/58 | Defined works area (B3.1)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/59 | The area of the works to be occupied by the contractor,<br>any restriction on the area and the limit of access or exit<br>will be pointed out to the contractor by the principal<br>agent at the official site briefing meeting.<br><br>Site Meeting Date: <b>TBC</b><br>The meeting will be held at: <b>TBC</b><br>Tenderers are advise to arrive at least one hour earlier<br>for the briefing meeting in order to avoid delays related<br>to locating the venue.<br><br>F:..... V:.....<br>T:..... | Item |   |  |
| 1/1/60 | Inspection of the site (B3.3)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
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| 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 Phaphamani Primary School</p> <p>F:..... V:.....<br/>T:.....</p> | Item |   |
| 1/1/62  | <p>Existing premises occupied (B3.4)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/63  | <p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/64  | <p>Previous work - defects (B3.6)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |
| 1/1/65  | <p>Services - known (B3.7)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/66  | <p>Services - unknown (B3.8)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/67  | <p>Protection of trees etc (B3.9)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |
| 1/1/68  | <p>Articles of value (B3.10)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
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|---|--|------|---|
| 1/1/69  | Inspection of adjoining properties etc (B3.11)<br><br>F:..... V:.....<br>T:.....   | Item |   |
| <b><u>Management of contract (B4)</u></b>   |  |      |   |
| 1/1/70  | Management of the works (B4.1)<br><br>The contractor is to submit with his tender a synopsis of the proposed management team envisaged for this project.<br><br>F:..... V:.....<br>T:..... | Item |   |
| 1/1/71  | Programme for the works<br><br>The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works<br><br>F:..... V:.....<br>T:.....           | Item |   |
| 1/1/72  | Progress meetings (B4.3)<br><br>F:..... V:.....<br>T:.....   | Item |   |
| 1/1/73  | Technical meetings (B4.4)<br><br>F:..... V:.....<br>T:.....  | Item |   |
| <b><u>Samples and shop drawings and manufacturer's instructions (B5)</u></b>          |  |      |   |
| 1/1/74  | Samples of materials (B5.1)<br><br>F:..... V:.....<br>T:.....  | Item |   |
| 1/1/75  | Workmanship samples (B5.2)<br><br>F:..... V:.....<br>T:.....   | Item |   |
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|---|---|------|---|--|
| 1/1/76  | Shop drawings (B5.3)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| <b><u>Temporary works and plant (B6)</u></b>  |   |      |   |  |
| 1/1/77  | Deposits and fees (B6.1)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/78  | Enclosure of the works (B6.2)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/79  | Advertising (B6.3)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/80  | Plant, equipment, sheds and offices (B6.4)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/81  | Main notice board (B6.5)<br><br>Provision shall be made for 1 set of Professional boards<br><br>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.<br><br>F:..... V:.....<br>T:..... | Item |   |  |
| 1/1/82  | Subcontractors notice board (B6.6)<br><br>F:..... V:.....<br>T:.....  | Item |   |  |
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|        | <b><u>Temporary services (B7)</u></b>   |      |   |  |
| 1/1/83 | Location (B7.1)<br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/84 | Water (B7.2)<br>Alternative A<br>F:..... V:.....<br>T:.....                           | Item |   |  |
| 1/1/85 | Electricity (B7.3)<br>Alternative A<br>F:..... V:.....<br>T:.....                     | Item |   |  |
| 1/1/86 | Telecommunication equipment (B7.4)<br>Alternative A<br>F:..... V:.....<br>T:.....     | Item |   |  |
| 1/1/87 | Ablution facilities (B7.5)<br>Alternative A<br>F:..... V:.....<br>T:.....             | Item |   |  |
|        | <b><u>Prime cost amounts (B8)</u></b>   |      |   |  |
| 1/1/88 | Responsibility for prime cost amounts (B8.1)<br>F:..... V:.....<br>T:.....            | Item |   |  |
|        | <b><u>Attendance on N/S Subcontractors (B9)</u></b>                                   |      |   |  |
| 1/1/89 | General attendance (B9.1)<br>F:..... V:.....<br>T:.....                               | Item |   |  |
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| 1/1/90 | Special attendance (B9.2)<br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/91 | Commissioning - Fuel, water and power (B9.3)<br>F:..... V:.....<br>T:.....                     | Item |   |  |
|        | <b><u>Financial aspects (B10)</u></b>  |      |   |  |
|        | Statutory taxes, duties and levies (B10.1)<br>F:..... V:.....<br>T:.....                       | Item |   |  |
| 1/1/92 | Provision for Value Added Tax (VAT) is made in the Final Summary<br>F:..... V:.....<br>T:..... | Item |   |  |
| 1/1/93 | Payment of preliminaries (B10.2)<br>F:..... V:.....<br>T:.....                                 | Item |   |  |
| 1/1/94 | Adjustment of preliminaries (B10.3)<br>F:..... V:.....<br>T:.....                              | Item |   |  |
| 1/1/95 | Payment certificate cash flow (B10.4)<br>F:..... V:.....<br>T:.....                            | Item |   |  |
| 1/1/96 | Contractor information supply (B10.5)<br>F:..... V:.....<br>T:.....                            | Item |   |  |
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| <b><u>General (B11)</u></b>   |   |      |
| 1/1/97  | Protection of works (B11.1)<br>F:..... V:.....<br>T:.....   | Item |
| 1/1/98  | Protection/isolation of existing/sectionally occupied works (B11.2)<br>F:..... V:.....<br>T:..... | Item |
| 1/1/99  | Site security (B11.3)<br>F:..... V:.....<br>T:.....   | Item |
| 1/1/100   | Notice before covering work (B11.4)<br>F:..... V:.....<br>T:.....                                 | Item |
| 1/1/101   | Disturbance (B11.5)<br>F:..... V:.....<br>T:.....   | Item |
| 1/1/102   | Works cleaning and clearing (B11.6)<br>F:..... V:.....<br>T:.....                                 | Item |
| 1/1/103   | Vermin (B11.7)<br>F:..... V:.....<br>T:.....  | Item |
| 1/1/104   | Overhand work (B11.8)<br>F:..... V:.....<br>T:.....   | Item |
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|         | <b><u>Schedule of variables (B12)</u></b>  |      |   |  |
| 1/1/105 | Pre-tender information (B12.1)<br><br>F:..... V:.....<br>T:.....<br><br>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 | Item |   |  |
| 1/1/106 | 12.1.1 Provisional bills of quantities (B2.2)<br>The quantities are provisional: <b>Yes</b><br><br>F:..... V:.....<br>T:.....  | Item |   |  |
| 1/1/107 | 12.1.2 Availability of construction documentation (B2.3)<br>Construction documentation is not complete: <b>Yes</b><br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/108 | 12.1.3 Interest of agents (B2.4)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/109 | 12.1.4 Defined works area (B3.1)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/110 | 12.1.5 Geotechnical investigation (B3.2)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
| 1/1/111 | 12.1.6 Existing premises occupied (B3.4)<br><br>F:..... V:.....<br>T:.....   | Item |   |  |
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| 1/1/112   | <p>12.1.7 Services - known (B3.7)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |
| 1/1/113   | <p>12.1.8 Protection of trees (B3.9)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/114   | <p>12.1.9 Inspection of adjoining properties (B3.11)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/115   | <p>12.1.10 Enclosure of the works (B6.2)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |
| 1/1/116   | <p>12.1.11 Offices (B6.4.3)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |
| 1/1/117   | <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:.....<br/>T:.....</p> | Item |   |
| 1/1/118   | <p>12.1.13 Subcontractors notice board (B6.6)</p> <p>A notice board is required: <b>Yes</b></p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |
| <b>Carried Forward</b>  |   |      | R |
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|---------|--|------|---|--|
| 1/1/119 | <p>12.1.14 Water (B7.2)<br/>Alternative Selected: <b>A</b></p> <p>The contractor shall make provision for water connection requirements that will enable them to carry out works around the site.<br/>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:.....<br/>T:.....</p> | Item |   |  |
| 1/1/120 | <p>12.1.15 Electricity (B7.3)<br/>Alternative selected: <b>A</b></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:.....<br/>T:.....</p>   | Item |   |  |
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| 1/1/121 | <p>12.1.16 Telecommunications (B7.4)<br/>Alternative selected: <b>A</b></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:.....<br/>T:.....</p> | Item |   |  |
| 1/1/122 | <p>12.1.17 Ablution facilities (B7.5)<br/>Alternative selected: <b>A</b></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:.....<br/>T:.....</p>                                    | Item |   |  |
| 1/1/123 | <p>12.1.8 Special attendance (B9.2)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/124 | <p>12.1.19 Protection of the works (B11.1)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |  |
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| 1/1/125 | <p>12.1.20 Protection of existing/sectionally occupied works (B11.2)<br/>Protection is required: <b>Yes</b></p> <p><b>The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.</b></p> <p>F:..... V:.....<br/>T:.....</p> | Item |   |  |
| 1/1/126 | <p>12.1.21 Disturbance (B11.5)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/127 | <p>Post tender information (B12.2)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/128 | <p>12.2.1 Payment of preliminaries<br/>Alternative selected: (A or B)</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |  |
| 1/1/129 | <p>12.2.2 Adjustment of preliminaries<br/>Alternative selected: (A or B)</p> <p>F:..... V:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/130 | <p>12.2.3 Additional agreed preliminaries items</p> <p>F:..... V:.....<br/>T:.....</p>   | Item |   |  |
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|         | <b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>   |      |   |  |
| 1/1/131 | <p><b>GUARANTEE</b></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:.....<br/>T:.....</p> | Item |   |  |
| 1/1/132 | <p><b>SHOP DRAWINGS</b></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:.....<br/>T:.....</p>   | Item |   |  |
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| 1/1/133 | <p><b>SAMPLES</b></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:.....<br/>T:.....</p> | Item |   |  |
| 1/1/134 | <p><b>SITE INSTRUCTIONS</b></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:.....<br/>T:.....</p>   | Item |   |  |
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| 1/1/135 | <p><b>OVERTIME</b></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:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/136 | <p><b>CO-OPERATION OF CONTRACTOR FOR COST CONTROL</b></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:.....<br/>T:.....</p> | Item |   |  |
| 1/1/137 | <p><b>SITE LEVELS</b></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:.....<br/>T:.....</p>  | Item |   |  |
| 1/1/138 | <p><b>PROPRIETARY BRANDED PRODUCTS</b></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:.....<br/>T:.....</p>  | Item |   |  |
|         | <b>Carried Forward</b>  |      | R |  |
|         | <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p>   |      |   |  |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   | <b>Brought Forward</b>   |      | R |  |
|---|--|------|---|--|
| 1/1/139   | <p><b>AS BUILT DRAWINGS</b></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:.....<br/>T:.....</p>   | Item |   |  |
| 1/1/140   | <p><b>OCCUPATIONAL HEALTH AND SAFETY ACT</b></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 |   |  |
| 1/1/141   | <p><b>COVID-19 RELATED ITEMS</b></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 |   |  |
| <b>Carried to Final Summary</b>   |  |      | R |  |
| <p>Section No. 1<br/>PRELIMINARIES AND GENERAL<br/>Bill No. 1<br/>Preliminaries and General</p> |  |      |   |  |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 1<br/>Earthworks</p>   |          |      |        |



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| <b>Brought Forward</b>  |  |    |     | <b>R</b> |
|---|--|----|-----|----------|
| <b><u>SITE CLEARANCE ETC</u></b>  |  |    |     |          |
| <b><u>Site clearance</u></b>  |  |    |     |          |
| 2/1/1   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc                                       | m2 | 457 |          |
| <b><u>EXCAVATIONS</u></b>   |  |    |     |          |
| <b><u>Excavation in earth not exceeding 2m deep</u></b>   |  |    |     |          |
| 2/1/2   | Trenches   | m3 | 104 |          |
| <b><u>Extra over excavations in earth to trenches and holes for</u></b>   |  |    |     |          |
| 2/1/3   | Excavation in soft rock  | m3 | 10  |          |
| 2/1/4   | Excavation in hard rock  | m3 | 5   |          |
| <b><u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u></b>  |  |    |     |          |
| <b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>  |  |    |     |          |
| <b><u>Note:</u></b>   |  |    |     |          |
| Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site. |  |    |     |          |
| 2/1/5   | Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor | m3 | 57  |          |
| <b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>   |  |    |     |          |
| <b><u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u></b>   |  |    |     |          |
| 2/1/6   | Trenches and holes   | m2 | 298 |          |
| <b>Carried Forward</b>  |  |    |     | <b>R</b> |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 1<br>Earthworks  |  |    |     |          |

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| <b>Brought Forward</b> |   |      | R   |
|------------------------|---|------|-----|
|                        | <b><u>Keeping excavations free of water</u></b>   |      |     |
| 2/1/7                  | Keeping excavations free of water   | Item |     |
|                        | <b><u>FILLING, ETC.</u></b>   |      |     |
|                        | <b><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></b> |      |     |
| 2/1/8                  | Backfilling to trenches, holes, etc   | m3   | 53  |
| 2/1/9                  | Under floors, steps, pavings, etc   | m3   | 222 |
|                        | <b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>                           |      |     |
| 2/1/10                 | Backfilling to trenches, holes, etc   | m3   | 16  |
| 2/1/11                 | Under floors, steps, pavings, etc   | m3   | 49  |
|                        | <b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>   |      |     |
| 2/1/12                 | Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick                     | m3   | 49  |
|                        | <b><u>COMPACTION OF SURFACES</u></b>  |      |     |
| 2/1/13                 | Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density   | m2   | 413 |
|                        | <b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>  |      |     |
|                        | <b><u>Protection against termites, ants, etc</u></b>  |      |     |
| 2/1/14                 | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming   | m2   | 413 |
| 2/1/15                 | To bottom and sides of excavated trenches, Holes, etc.  | m2   | 402 |
|                        | <b>Carried Forward to Summary of Section No.</b>  |      | R   |
|                        | Section No. 2   |      |     |
|                        | 4 CLASSROOM BLOCK   |      |     |
|                        | Bill No. 1  |      |     |
|                        | Earthworks  |      |     |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></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><b><u>Formwork</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |          |      |        |

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|   |  |  |   |  |
|---|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <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;"><b>Carried Forward</b></p> <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |  |  | R |  |

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| <b>Brought Forward</b>   |  |    | <b>R</b> |
|--|--|----|----------|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |          |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |          |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>  |  |    |          |
| <b><u>15Mpa/19mm concrete</u></b>  |  |    |          |
| 2/2/1  | Blinding   | m3 | 5        |
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u></b>   |  |    |          |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |          |
| 2/2/2  | Strip footings   | m3 | 26       |
| <b><u>REINFORCED CONCRETE CAST IN FORMWORK</u></b>   |  |    |          |
| <b><u>20Mpa/19mm concrete</u></b>  |  |    |          |
| 2/2/3  | Concrete Apron cast to fall etc,   | m3 | 9        |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |          |
| 2/2/4  | Surface beds cast in panels  | m3 | 42       |
| <b><u>TEST BLOCKS</u></b>  |  |    |          |
| <b><u>Notes:</u></b>   |  |    |          |
| Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional) |  |    |          |
| 2/2/5  | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) | No | 39       |
| <b>Carried Forward</b>   |  |    | <b>R</b> |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 2<br>Concrete, Formwork and Reinforcement   |  |    |          |

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| Brought Forward   |   |    | R   |
|---|---|----|-----|
| <b><u>SUNDRIES TO CONCRETE</u></b>  |   |    |     |
| <b><u>Surface treatment</u></b>   |   |    |     |
| 2/2/6   | Power float top surface of concrete surface bed to a true and even level finish | m2 | 413 |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                |   |    |     |
| <b><u>Rough formwork to sides</u></b>   |   |    |     |
| 2/2/7   | Edges, risers, ends and reveals not exceeding 300mm high or wide                | m  | 174 |
| <b><u>MOVEMENTS JOINTS ETC,</u></b>   |   |    |     |
| <b><u>Saw cuts Joints</u></b>   |   |    |     |
| 2/2/8   | 3 x 30mm In saw cut joints in floors  | m  | 73  |
| <b><u>Expansion joints</u></b>  |   |    |     |
| 2/2/9   | 10mm soft board or similar approved between concrete and brick wall             | m  | 87  |
| <b><u>REINFORCEMENT (PROVISIONAL)</u></b>   |   |    |     |
| <b><u>High and mild tensile steel reinforcement to structural concrete work</u></b> |   |    |     |
| 2/2/10  | All diameter bars   | t  | 2   |
| <b><u>Fabric reinforcement:</u></b>   |   |    |     |
| 2/2/11  | Type 245 fabric reinforcement in concrete surface beds, slabs, etc.             | m2 | 326 |
| <b>Carried Forward to Summary of Section No.</b>                                    |   |    | R   |
| Section No. 2   |   |    |     |
| 4 CLASSROOM BLOCK   |   |    |     |
| Bill No. 2  |   |    |     |
| Concrete, Formwork and Reinforcement  |   |    |     |

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|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Hollow walls etc</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 3<br/>Masonry</p>  |          |      |        |

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|       |   |    |     |   |
|-------|---|----|-----|---|
|       | <b>Brought Forward</b>  |    |     | R |
|       | <b><u>Pointing</u></b>  |    |     |   |
|       | Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc  |    |     |   |
|       | <b><u>BRICKWORK IN FOUNDATION</u></b>   |    |     |   |
|       | <b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b>  |    |     |   |
| 2/3/1 | One brick wall  | m2 | 112 |   |
|       | <b><u>SUPERSTRUCTURE BRICKWORK</u></b>  |    |     |   |
|       | <b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>   |    |     |   |
| 2/3/2 | One brick wall  | m2 | 338 |   |
| 2/3/3 | Half brick wall, in beamfilling   | m2 | 14  |   |
|       | <b><u>FACE BRICKWORK</u></b>  |    |     |   |
|       | Bricks shall be ordered timeously to obtain uniformity in size and colour   |    |     |   |
|       | <b><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></b> |    |     |   |
| 2/3/4 | Extra over brickwork for face brickwork in foundations (Provisional)  | m2 | 224 |   |
| 2/3/5 | Extra over brickwork for face brickwork in superstructure   | m2 | 252 |   |
| 2/3/6 | Extra over brickwork for face brickwork in brick-on-edge header course lintel   | m  | 44  |   |
| 2/3/7 | Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped  | m  | 41  |   |
|       | <b>Carried Forward</b>  |    |     | R |
|       | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 3<br>Masonry   |    |     |   |



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

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|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 4</u></b>  |          |      |        |
|         | <b><u>WATERPROOFING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>   |          |      |        |
|         | <b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>  |          |      |        |
| 2/4/1   | Under walls   | m2       | 3    |        |
| 2/4/2   | Under cills, etc.   | m2       | 9    |        |
|         | <b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>  |          |      |        |
| 2/4/3   | Under surface beds.   | m2       | 413  |        |
|         | <b><u>JOINTS SEALANTS, ETC.</u></b>   |          |      |        |
|         | <b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b>  |          |      |        |
| 2/4/4   | 3 x 30mm In saw cut joints in floors  | m        | 73   |        |
| 2/4/5   | 10mm Isolation Joints between surface bed concrete and brick wall   | m        | 87   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 4<br>Waterproofing   |          |      | R      |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 5</u></b>  |          |      |        |
|         | <b><u>ROOF COVERINGS</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>ROOF SHEETING</u></b>   |          |      |        |
|         | <b><u>Similar Approved</u></b>  |          |      |        |
|         | <b><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></b> |          |      |        |
| 2/5/1   | Roof sheeting pitch not exceeding 25 degrees  | m2       | 483  |        |
| 2/5/2   | 550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile  | m        | 35   |        |
| 2/5/3   | 550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.   | m        | 20   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 5<br>Roof Coverings  |          |      |        |

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|       | Brought Forward  |    |     | R |
|-------|--|----|-----|---|
|       | <p><b><u>ROOF AND WALL INSULATION</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>Sisalation "Bubble Foil" aluminium foil binded insulation</u></b></p> |    |     |   |
| 2/5/4 | <p>135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories</p>   | m2 | 483 |   |
|       | <p><b>Carried Forward to Summary of Section No.</b></p>  |    |     | R |
|       | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 5<br/>Roof Coverings</p>   |    |     |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>   |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   |  |  |   |  |
|---|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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;"><b>Carried Forward</b></p> <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>   |  |  | R |  |

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PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>   |    | R   |   |
|-------|--|----|-----|---|
|       | <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Plate nailed timber roof truss construction</u></b></p> <p>The following is applicable in respect of roof trusses:</p> <p>All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.</p> <p>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.</p> <p>All joints to be close fitted butt joints.</p> <p><b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b></p> <p><b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b></p> <p><b>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.</b></p> <p><b><u>Roof trusses</u></b></p> |    |     |   |
| 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 | 403 |   |
|       | <p><b><u>Sawn softwood</u></b></p>   |    |     |   |
| 2/6/2 | 38 x 114mm Wall plates   | m  | 94  |   |
|       | <p><b><u>Sundries</u></b></p>  |    |     |   |
| 2/6/3 | Two coats creosote on sawn timbers   | m2 | 35  |   |
|       | <b>Carried Forward</b>   |    |     | R |
|       | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>  |    |     |   |

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PHAPHAMANI PRIMARY SCHOOL**

|       |   | Brought Forward  |    | R |
|-------|---|--|----|---|
|       |   | <b><u>Similar Approved</u></b>   |    |   |
|       |   | <b><u>"Everite FC77" Fascia and badge boards</u></b>   |    |   |
|       |   | <b><u>DOORS ETC</u></b>  |    |   |
|       |   | <b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b> |    |   |
| 2/6/4 | 914 x 2032mm single door  | No   | 4  |   |
|       |   | <b><u>WINDOWS</u></b>  |    |   |
|       |   | <b><u>Similar Approved</u></b>   |    |   |
|       |   | <b><u>"Nutec" fibre cement window cills</u></b>  |    |   |
| 2/6/5 | 150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations | m  | 41 |   |
|       |   | <b>Carried Forward to Summary of Section No.</b>   |    | R |
|       |   | Section No. 2  |    |   |
|       |   | 4 CLASSROOM BLOCK  |    |   |
|       |   | Bill No. 6   |    |   |
|       |   | Carpentry and Joinery  |    |   |



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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></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><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |     |   |
|-------|--|----|-----|---|
|       | <b>Brought Forward</b>   |    |     | R |
|       | <p><b><u>Proprietary suspended ceilings</u></b></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><b><u>Suspension systems</u></b></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><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p> |    |     |   |
| 2/7/1 | 2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails   | m2 | 310 |   |
|       | <p><b><u>CORNICES</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>  |    |     |   |
| 2/7/2 | 75mm Coved cornice, plugged to brickwork   | m  | 202 |   |
|       | <b>Carried Forward</b>   |    |     | R |
|       | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>   |    |     |   |

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PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>  |    |     | <b>R</b> |
|-------|---|----|-----|----------|
|       | <b><u>SUNDRIES</u></b>  |    |     |          |
|       | <b><u>Extra over for Trap Doors</u></b>   |    |     |          |
| 2/7/3 | Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | No | 4   |          |
|       | <b><u>CEILING INSULATION</u></b>  |    |     |          |
|       | <b><u>Insulation</u></b>  |    |     |          |
| 2/7/4 | 125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.                                      | m2 | 310 |          |
|       | <b>Carried Forward to Summary of Section No.</b>  |    |     | <b>R</b> |
|       | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 7<br>Ceilings, Partitions and Access Flooring  |    |     |          |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 8<br/>Ironmongery</p>   |          |      |        |

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| <b>Brought Forward</b>   |   |      | 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. |   |      |     |
| <b><u>DOOR FURNITURE</u></b>   |   |      |     |
| <b><u>Locks</u></b>  |   |      |     |
| 2/8/1  | SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)                                 | No   | 4   |
| 2/8/2  | SC 150mm Cabin hook (Code: CH 150)  | No   | 4   |
| <b><u>Kick and push plates</u></b>   |   |      |     |
| 2/8/3  | SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200) | No   | 8   |
| <b><u>Panic hardware</u></b>   |   |      |     |
| 2/8/4  | Three point locking panic bar for single door (Code: PHA3/S DD)   | Sets | 4.0 |
| 2/8/5  | Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)                                  | No   | 4   |
| <b>Carried Forward</b>   |   |      | R   |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery  |   |      |     |

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| Brought Forward |  |    |   | R |
|-----------------|--|----|---|---|
|                 | <p><b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></b></p> <p><b><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></b></p> |    |   |   |
| 2/8/6           | 2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations  | No | 8 |   |
|                 | <p><b><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></b></p>   |    |   |   |
| 2/8/7           | 2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations   | No | 8 |   |
|                 | <p><b><u>SUNDRIES</u></b></p> <p><b><u>Approved</u></b></p>  |    |   |   |
| 2/8/8           | "CZ8730SC" Door stop or similarly approved to wall or floors   | No | 4 |   |
|                 | <b>Carried Forward to Summary of Section No.</b>   |    |   | R |
|                 | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery  |    |   |   |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></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><b><u>Ironmongery</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |          |      |        |

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|   |                        |  |   |
|---|------------------------|--|---|
|   | <b>Brought Forward</b> |  | R |
| <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><b><u>Protection</u></b></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.<br/>All tenderers to include cost of protection in tender price.</p> <p><b><u>Installation</u></b></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><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> |                        |  |   |
|   | <b>Carried Forward</b> |  | R |
| <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |                        |  |   |



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|  |  |   |  |
|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></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><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></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><b><u>Protection:</u></b></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><b><u>Cleaning:</u></b></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;"><b>Carried Forward</b></p> <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |  | R |  |

| Brought Forward   |  |    |     | R |
|---|--|----|-----|---|
| <b><u>WELDED SCREENS, GATES, ETC.</u></b>   |  |    |     |   |
| <b><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></b> |  |    |     |   |
| 2/9/1   | Steel gate to door, size 914 x 2032mm high | No | 4   |   |
| <b><u>PRESSED STEEL DOOR FRAMES</u></b>   |  |    |     |   |
| <b><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></b>   |  |    |     |   |
| 2/9/2   | 914 x 2032mm single door                   | No | 4   |   |
| <b><u>WINDOWS FRAMES, etc.</u></b>  |  |    |     |   |
| <b><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></b>  |  |    |     |   |
| 2/9/3   | Window size 1143 x 1272mm high             | No | 36  |   |
| <b><u>MESH IN CEILING VOIDS</u></b>   |  |    |     |   |
| <b><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></b>   |  |    |     |   |
| 2/9/4   | In Ceiling voids                           | m2 | 252 |   |
| <b>Carried Forward</b>  |  |    |     | R |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 9<br>Metalwork   |  |    |     |   |

|       | Brought Forward  |    |     | R |
|-------|--|----|-----|---|
|       | <p><b><u>STEEL COLUMNS AND BEAMS</u></b></p> <p><b><u>Welded columns and beams in single lengths with flat section bearer and connection plates bolted and welded to</u></b></p> |    |     |   |
| 2/9/5 | 76 x 76 x 3mm x 6.54kg/m Mild steel square tubing column   | kg | 280 |   |
|       | <b>Carried Forward to Summary of Section No.</b>   |    |     | R |
|       | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 9<br>Metalwork  |    |     |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

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

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|        | Brought Forward  |   |   |   |
|--------|--|---|---|---|
| 2/10/5 | <p><b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></b></p> <p>Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.</p> | m | 3 | R |
|        | <p><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 10<br/>Plastering</p>  |   |   | R |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></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><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 11<br/>Tiling</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward   |  |    | R   |
|---|--|----|-----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>  |  |    |     |
| General notes, described in Bill No. 1, shall equally apply to this Bill.   |  |    |     |
| <u>Note</u>   |  |    |     |
| All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.   |  |    |     |
| <b><u>FLOOR TILING</u></b>  |  |    |     |
| <b><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></b> |  |    |     |
| 2/11/1  | On floors  | m2 | 266 |
| 2/11/2  | 75mm high skirting   | m  | 131 |
| <b><u>ATTIC STOCK</u></b>   |  |    |     |
| 2/11/3  | 420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site) | m2 | 27  |
| <b><u>SUNDRIES</u></b>  |  |    |     |
| <b><u>10mm aluminium straight edge trim</u></b>   |  |    |     |
| 2/11/4  | Dividing strip between tiles and door frames   | m  | 3   |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R   |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 11<br>Tiling   |  |    |     |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 12<br/>Plumbing and Drainage</p>  |          |      |        |



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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    |    | R |
|--|--|----|----|---|
| <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 |  |    |    |   |
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |   |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |   |
| <b><u>RAINWATER GOODS</u></b>  |  |    |    |   |
| <b><u>Similar Approved</u></b>   |  |    |    |   |
| <b><u>Gutters</u></b>  |  |    |    |   |
| 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  | 94 |   |
| 2/12/2   | Extra over eaves gutter for stopped end  | No | 8  |   |
| 2/12/3   | Extra over eaves gutter for corner   | No | 41 |   |
| 2/12/4   | Extra over eaves gutter for outlet   | No | 10 |   |
| <b><u>Rainwater downpipes</u></b>  |  |    |    |   |
| 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  | 35 |   |
| 2/12/6   | Extra over downpipe for offset   | No | 20 |   |
| 2/12/7   | Extra over downpipe for shoe   | No | 10 |   |
| <b>Carried Forward</b>   |  |    |    | R |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 12<br>Plumbing and Drainage   |  |    |    |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward  |  |    | R |
|--|--|----|---|
| <b><u>FIRE FIGHTING EQUIPMENT</u></b>  |  |    |   |
| <b><u>Extinguishers including initial charge and setting up in position:</u></b> |  |    |   |
| 2/12/8   | 9kg dry chemical powder fire extinguisher  | No | 8 |
| 2/12/9   | Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket | No | 2 |
| <b>Carried Forward to Summary of Section No.</b>                                 |  |    | R |
| Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 12<br>Plumbing and Drainage       |  |    |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 13</u></b></p> <p><b><u>GLAZING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note:</u></p> <p>All glazing to comply with SABS 1263 Part 3:1998. Light and ventilation to comply with Part O if NBR 0400</p> <p><b><u>GLASS TO STEEL WITH PUTTY</u></b></p> <p><b><u>5mm clear floated glass fixed glazing putty</u></b></p> |          |      |        |
| 2/13/1  | <p>Panes exceeding 0.1m2 and not exceeding 0.5m2</p>  | m2       | 52   |        |
|         | <p><b>Carried Forward to Summary of Section No.</b></p>   |          |      | R      |
|         | <p>Section No. 2<br/>4 CLASSROOM BLOCK<br/>Bill No. 13<br/>Glazing</p>  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 14</u></b>   |          |      |        |
|         | <b><u>PAINTWORK</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>PAINTWORK ETC TO NEW WORK</u></b>   |          |      |        |
|         | <b><u>FIBRE CEMENT</u></b>  |          |      |        |
|         | <b><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></b>   |          |      |        |
| 2/14/1  | On internal ceilings and cornices   | m2       | 328  |        |
| 2/14/2  | Fibre cement fascias boards not exceeding 300mm high or wide painted on both side   | m        | 94   |        |
|         | <b><u>FLOATED PLASTER INTERNAL WALLS</u></b>  |          |      |        |
|         | <b><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></b>                                   |          |      |        |
| 2/14/3  | Plastered walls   | m2       | 379  |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 2<br>4 CLASSROOM BLOCK<br>Bill No. 14<br>Paintwork  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|         | <b>Brought Forward</b>   |    |    | R |
|---------|--|----|----|---|
|         | <b><u>METAL SURFACES</u></b>   |    |    |   |
|         | <b><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></b> |    |    |   |
| 2/14/4  | On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)   | m2 | 15 |   |
| 2/14/5  | On window frames   | m2 | 52 |   |
| 2/14/6  | On door frames   | m2 | 5  |   |
| 2/14/7  | On mild steel columns, beams, etc  | m2 | 13 |   |
| 2/14/8  | On gutters   | m  | 94 |   |
| 2/14/9  | On downpipes   | m  | 36 |   |
|         | <b><u>WOOD</u></b>   |    |    |   |
|         | <b><u>Prepare and paint three coats clear varnish:</u></b>   |    |    |   |
| 2/14/10 | On door  | m2 | 13 |   |
|         | <b>Carried Forward to Summary of Section No.</b>   |    |    | R |
|         | Section No. 2  |    |    |   |
|         | 4 CLASSROOM BLOCK  |    |    |   |
|         | Bill No. 14  |    |    |   |
|         | Paintwork  |    |    |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| <b>Bill No</b> | <b>SECTION SUMMARY</b>                   | <b>Page No</b> | <b>Amount</b> |
|----------------|--|----------------|---------------|
| 2/1            | Earthworks                               | 2/3            |               |
| 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                               | 2/30           |               |
| 2/11           | Tiling                                   | 2/32           |               |
| 2/12           | Plumbing and Drainage                    | 2/35           |               |
| 2/13           | Glazing                                  | 2/36           |               |
| 2/14           | Paintwork                                | 2/38           |               |
|                | <b>Carried to Final Summary</b>          |                | R             |
|                | Section No. 2<br>4 CLASSROOM BLOCK       |                |               |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 1<br/>Earthworks</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |  | R      |
|---|--|--------|
| <b><u>SITE CLEARANCE ETC</u></b>  |  |        |
| <b><u>Site clearance</u></b>  |  |        |
| 3/1/1   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc                                       | m2 366 |
| <b><u>EXCAVATIONS</u></b>   |  |        |
| <b><u>Excavation in earth not exceeding 2m deep</u></b>   |  |        |
| 3/1/2   | Trenches   | m3 94  |
| <b><u>Extra over excavations in earth to trenches and holes for</u></b>   |  |        |
| 3/1/3   | Excavation in soft rock  | m3 9   |
| 3/1/4   | Excavation in hard rock  | m3 5   |
| <b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>  |  |        |
| <b><u>Note:</u></b>   |  |        |
| 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 54  |
| <b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>   |  |        |
| <b><u>Risk of collapse to side of excavation in earth not exceeding 1.5m deep</u></b>   |  |        |
| 3/1/6   | Trenches and holes   | m2 294 |
| <b><u>Keeping excavations free of water</u></b>   |  |        |
| 3/1/7   | Keeping excavations free of water  | Item   |
| <b>Carried Forward</b>  |  | R      |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 1<br>Earthworks  |  |        |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    | R   |
|---|---|----|-----|
| <b><u>FILLING, ETC.</u></b>   |   |    |     |
| <b><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></b> |   |    |     |
| 3/1/8   | Backfilling to trenches, holes, etc   | m3 | 45  |
| 3/1/9   | Under floors, steps, pavings, etc   | m3 | 177 |
| <b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>                           |   |    |     |
| 3/1/10  | Backfilling to trenches, holes, etc   | m3 | 14  |
| 3/1/11  | Under floors, steps, pavings, etc   | m3 | 39  |
| <b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>   |   |    |     |
| 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 | 39  |
| <b><u>COMPACTION OF SURFACES</u></b>  |   |    |     |
| 3/1/13  | Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density   | m2 | 330 |
| <b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>  |   |    |     |
| <b><u>Protection against termites, ants, etc</u></b>  |   |    |     |
| 3/1/14  | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming                       | m2 | 330 |
| 3/1/15  | To bottom and sides of excavated trenches, Holes, etc.  | m2 | 388 |
| <b>Carried Forward to Summary of Section No.</b>  |   |    | R   |
| Section No. 3   |   |    |     |
| 2 GRADE R CLASSROOM BLOCK   |   |    |     |
| Bill No. 1  |   |    |     |
| Earthworks  |   |    |     |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></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><b><u>Formwork</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

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

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    | R  |
|--|--|----|----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>  |  |    |    |
| <b><u>15Mpa/19mm concrete</u></b>  |  |    |    |
| 3/2/1  | Blinding   | m3 | 5  |
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u></b>   |  |    |    |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |    |
| 3/2/2  | Strip footings   | m3 | 23 |
| <b><u>REINFORCED CONCRETE CAST IN FORMWORK</u></b>   |  |    |    |
| <b><u>20Mpa/19mm concrete</u></b>  |  |    |    |
| 3/2/3  | Concrete Apron cast to fall etc,   | m3 | 7  |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |    |
| 3/2/4  | Surface beds cast in panels  | m3 | 34 |
| <b><u>TEST BLOCKS</u></b>  |  |    |    |
| <b><u>Notes:</u></b>   |  |    |    |
| 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 | 31 |
| <b>Carried Forward</b>   |  |    | R  |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 2<br>Concrete, Formwork and Reinforcement   |  |    |    |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    |     | R |
|---|---|----|-----|---|
| <b><u>SUNDRIES TO CONCRETE</u></b>  |   |    |     |   |
| <b><u>Surface treatment</u></b>   |   |    |     |   |
| 3/2/6   | Power float top surface of concrete surface bed to a true and even level finish | m2 | 330 |   |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                |   |    |     |   |
| <b><u>Rough formwork to sides</u></b>   |   |    |     |   |
| 3/2/7   | Edges, risers, ends and reveals not exceeding 300mm high or wide                | m  | 143 |   |
| <b><u>MOVEMENTS JOINTS ETC,</u></b>   |   |    |     |   |
| <b><u>Saw cuts Joints</u></b>   |   |    |     |   |
| 3/2/8   | 3 x 30mm In saw cut joints in floors  | m  | 34  |   |
| <b><u>Expansion joints</u></b>  |   |    |     |   |
| 3/2/9   | 10mm soft board or similar approved between concrete and brick wall             | m  | 72  |   |
| <b><u>REINFORCEMENT (PROVISIONAL)</u></b>   |   |    |     |   |
| <b><u>High and mild tensile steel reinforcement to structural concrete work</u></b> |   |    |     |   |
| 3/2/10  | All diameter bars   | t  | 2   |   |
| <b><u>Fabric reinforcement:</u></b>   |   |    |     |   |
| 3/2/11  | Type 245 fabric reinforcement in concrete surface beds, slabs, etc.             | m2 | 259 |   |
| <b>Carried Forward to Summary of Section No.</b>                                    |   |    |     | R |
| Section No. 3   |   |    |     |   |
| 2 GRADE R CLASSROOM BLOCK   |   |    |     |   |
| Bill No. 2  |   |    |     |   |
| Concrete, Formwork and Reinforcement  |   |    |     |   |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Hollow walls etc</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 3<br/>Masonry</p>  |          |      |        |

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PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |  |    | R   |
|---|--|----|-----|
| <b><u>Pointing</u></b>  |  |    |     |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc  |  |    |     |
| <b><u>BRICKWORK IN FOUNDATION</u></b>   |  |    |     |
| <b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b>  |  |    |     |
| 3/3/1   | One brick wall   | m2 | 110 |
| <b><u>SUPERSTRUCTURE BRICKWORK</u></b>  |  |    |     |
| <b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>   |  |    |     |
| 3/3/2   | One brick wall   | m2 | 327 |
| 3/3/3   | Half brick wall  | m2 | 65  |
| 3/3/4   | Half brick wall, in beamfilling                                      | m2 | 11  |
| <b><u>Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond</u></b>  |  |    |     |
| 3/3/5   | 360 x 230mm Brick Piers  | m3 | 2   |
| 3/3/6   | 330 x 330mm Brick Piers  | m3 | 4   |
| <b><u>FACE BRICKWORK</u></b>  |  |    |     |
| Bricks shall be ordered timeously to obtain uniformity in size and colour   |  |    |     |
| <b><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></b> |  |    |     |
| 3/3/7   | Extra over brickwork for face brickwork in foundations (Provisional) | m2 | 220 |
| <b>Carried Forward</b>  |  |    | R   |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 3<br>Masonry   |  |    |     |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| <b>Brought Forward</b>   |  |    | R     |
|--|--|----|-------|
| 3/3/8  | Extra over brickwork for face brickwork in superstructure  | m2 | 215   |
| 3/3/9  | Extra over brickwork for face brickwork in brick-on-edge header course lintel  | m  | 24    |
| 3/3/10   | Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped | m  | 20    |
| 3/3/11   | Extra over brickwork for face brickwork to piers   | m2 | 80    |
| 3/3/12   | Extra over brickwork for face brickwork in beamfilling   | m2 | 11    |
| <b><u>BRICKWORK SUNDRIES</u></b>   |  |    |       |
| <b><u>Brickwork reinforcement</u></b>  |  |    |       |
| 3/3/13   | 75mm Wide reinforcement built in horizontally  | m  | 190   |
| 3/3/14   | 150mm Wide reinforcement built in horizontally.  | m  | 1 642 |
| <b><u>"Allied concrete" or similar approved prestressed fabricated lintels</u></b> |  |    |       |
| 3/3/15   | 100 x 70mm Lintels in lengths not exceeding 3m   | m  | 27    |
| 3/3/16   | 175 x 70mm Lintels in lengths not exceeding 3m   | m  | 19    |
| <b><u>Turning pieces</u></b>   |  |    |       |
| 3/3/17   | 110mm Wide turning piece to flat brick lintels   | m  | 34    |
| <b><u>Air bricks etc</u></b>   |  |    |       |
| 3/3/18   | Set of 2 240 x 155mm Terracota air bricks as per architects specification  | No | 5     |
| <b><u>Fair cutting to face brickwork</u></b>                                       |  |    |       |
| 3/3/19   | Fair raking cutting at gables  | m  | 77    |
| <b><u>Roof ties</u></b>  |  |    |       |
| 3/3/20   | 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses          | No | 64    |
| <b>Carried Forward</b>   |  |    | R     |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 3<br>Masonry                |  |    |       |



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 DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| Brought Forward   |   |    | R  |
|---|---|----|----|
| <b><u>MOVEMENTS JOINTS ETC,</u></b>   |   |    |    |
| <b><u>Expansion joints</u></b>  |   |    |    |
| 3/3/21  | 30mm softboard between vertical brick surfaces not exceeding 300mm wide | m2 | 15 |
| <p style="text-align: right;"><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 3<br/>           2 GRADE R CLASSROOM BLOCK<br/>           Bill No. 3<br/>           Masonry</p> |   |    | R  |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 4</u></b>  |          |      |        |
|         | <b><u>WATERPROOFING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>   |          |      |        |
|         | <b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>  |          |      |        |
| 3/4/1   | Under walls   | m2       | 3    |        |
| 3/4/2   | Under cills, etc.   | m2       | 4    |        |
|         | <b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>  |          |      |        |
| 3/4/3   | Under surface beds.   | m2       | 330  |        |
|         | <b><u>JOINTS SEALANTS, ETC.</u></b>   |          |      |        |
|         | <b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b>  |          |      |        |
| 3/4/4   | 3 x 30mm In saw cut joints in floors  | m        | 34   |        |
| 3/4/5   | 10mm Isolation Joints between surface bed concrete and brick wall   | m        | 72   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      | R      |
|         | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 4<br>Waterproofing   |          |      |        |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 5</u></b></p> <p><b><u>ROOF COVERINGS</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ROOF SHEETING</u></b></p> <p><b><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></b></p> |          |      |        |
| 3/5/1   | Roof sheeting pitch not exceeding 25 degrees  | m2       | 366  |        |
| 3/5/2   | 550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile  | m        | 28   |        |
| 3/5/3   | 550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.   | m        | 21   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 5<br/>Roof Coverings</p>  |          |      |        |

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|       | Brought Forward   |    |     | R |
|-------|---|----|-----|---|
|       | <b><u>ROOF AND WALL INSULATION</u></b>  |    |     |   |
|       | <b><u>Sisalation "Bubble Foil" aluminium foil banded insulation</u></b>   |    |     |   |
| 3/5/4 | 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories | m2 | 366 |   |
|       | <b>Carried Forward to Summary of Section No.</b>  |    |     |   |
|       | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 5<br>Roof Coverings  |    |     | R |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
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|   |  |   |  |
|---|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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;"><b>Carried Forward</b></p> <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>   |  | R |  |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    | <b>R</b> |
|---|---|----|----------|
| <b><u>ROOFS, ETC</u></b>  |   |    |          |
| <b><u>Plate nailed timber roof truss construction</u></b>   |   |    |          |
| 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.  |   |    |          |
| <b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b>  |   |    |          |
| <b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b>   |   |    |          |
| <b>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.</b> |   |    |          |
| <b><u>Roof trusses</u></b>  |   |    |          |
| 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 | 305      |
| <b><u>Sawn softwood</u></b>   |   |    |          |
| 3/6/2   | 38 x 114mm Wall plates  | m  | 76       |
| <b><u>Sundries</u></b>  |   |    |          |
| 3/6/3   | Two coats creosote on sawn timbers  | m2 | 28       |
| <b>Carried Forward</b>  |   |    | <b>R</b> |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 6<br>Carpentry and Joinery   |   |    |          |

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PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |   |    |    | R |
|--|---|----|----|---|
| <b><u>"Everite FC77" Fascia and badge boards</u></b>   |   |    |    |   |
| 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  | 77 |   |
| 3/6/5  | 15 x 80 x 300mm fibre cement barge board  | m  | 77 |   |
| <b><u>DOORS ETC</u></b>  |   |    |    |   |
| <b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b> |   |    |    |   |
| 3/6/6  | 813 x 2032mm single door  | No | 4  |   |
| 3/6/7  | 914 x 2032mm single door  | No | 13 |   |
| <b><u>WINDOWS</u></b>  |   |    |    |   |
| <b><u>"Nutec" fibre cement window cills</u></b>  |   |    |    |   |
| 3/6/8  | 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  | 20 |   |
| <b>Carried Forward to Summary of Section No.</b>   |   |    |    | R |
| Section No. 3  |   |    |    |   |
| 2 GRADE R CLASSROOM BLOCK  |   |    |    |   |
| Bill No. 6   |   |    |    |   |
| Carpentry and Joinery  |   |    |    |   |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></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><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |     |   |
|-------|--|----|-----|---|
|       | <b>Brought Forward</b>   |    |     | R |
|       | <p><b><u>Proprietary suspended ceilings</u></b></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><b><u>Suspension systems</u></b></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><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></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 | 211 |   |
|       | <p><b><u>CORNICES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>  |    |     |   |
| 3/7/2 | 75mm Coved cornice, plugged to brickwork   | m  | 226 |   |
|       | <b>Carried Forward</b>   |    |     | R |
|       | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>   |    |     |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>  |    | R   |   |
|-------|---|----|-----|---|
|       | <b><u>SUNDRIES</u></b>  |    |     |   |
|       | <b><u>Extra over for Trap Doors</u></b>   |    |     |   |
| 3/7/3 | Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | No | 2   |   |
|       | <b><u>CEILING INSULATION</u></b>  |    |     |   |
|       | <b><u>Insulation</u></b>  |    |     |   |
| 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 | 211 |   |
|       | <b>Carried Forward to Summary of Section No.</b>  |    |     |   |
|       | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 7<br>Ceilings, Partitions and Access Flooring  |    |     | R |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 8<br/>Ironmongery</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |   | 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. |   |   |
| <b><u>DOOR FURNITURE</u></b>   |   |   |
| <b><u>Similar Approved</u></b>   |   |   |
| <b><u>Handles</u></b>  |   |   |
| 3/8/1  | SS 325 x 25mm straight tubular pull handle with flange fixing (Code: DPH301B) No  | 4 |
| 3/8/2  | SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170) No   | 4 |
| 3/8/3  | SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing (Code: DHP-430-BL 150X300) No | 6 |
| <b><u>Locks</u></b>  |   |   |
| 3/8/4  | SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS) No   | 6 |
| <b>Carried Forward</b>   |   | R |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery                                      |   |   |

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| <b>Brought Forward</b>  |  |      | R   |
|---|--|------|-----|
| 3/8/5   | SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)   | No   | 6   |
| 3/8/6   | SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)  | No   | 10  |
| 3/8/7   | SC 150mm Cabin hook (Code: CH 150)   | No   | 4   |
| 3/8/8   | SS disabled WC indicator (red and white) and turnknob for the physically impaired (Code: DWC-006)  | Sets | 2.0 |
| 3/8/9   | SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)  | Sets | 4.0 |
| <b><u>Kick and push plates</u></b>                                      |  |      |     |
| 3/8/10  | SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)  | No   | 32  |
| 3/8/11  | SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)                               | No   | 4   |
| 3/8/12  | SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300) | No   | 6   |
| <b><u>Signage</u></b>   |  |      |     |
| 3/8/13  | SS 150 x 150mm "DISABLED PERSONS" sign (Code: DSS-133 P)   | No   | 2   |
| <b><u>Panic hardware</u></b>  |  |      |     |
| 3/8/14  | Three point locking panic bar for single door (Code: PHA3/S DD)  | Sets | 4.0 |
| 3/8/15  | Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)   | No   | 4   |
| <b>Carried Forward</b>  |  |      | R   |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery |  |      |     |

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| <b>Brought Forward</b>  |  |      | R    |
|---|--|------|------|
| <b><u>Door closers</u></b>  |  |      |      |
| 3/8/16  | EN 2-4 parallel arm delayed action door closer, with push side fixing ( parallel arm bracket included) EN 2 750-850, EN3 850-950, EN4 950-1100 (Colour: Silver) (Code: TS73V PA DC + parallel arm bracket)                                     | No   | 2    |
| 3/8/17  | Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B) | No   | 6    |
| <b><u>Sundries</u></b>  |  |      |      |
| 3/8/18  | Male / Female fixing screws (Qty 4 per pack)   | Sets | 10.0 |
| 3/8/19  | SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  | No   | 4    |
| 3/8/20  | NP floor mounted Door stop (Code: DDS-NP-018)  | No   | 8    |
| <b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></b>  |  |      |      |
| <b><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></b> |  |      |      |
| 3/8/21  | 2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations  | No   | 2    |
| <b><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></b>   |  |      |      |
| 3/8/22  | 2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations   | No   | 4    |
| <b><u>SUNDRIES</u></b>  |  |      |      |
| <b>Carried Forward</b>  |  |      | R    |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery   |  |      |      |

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|        | <b>Brought Forward</b>  |    |    | R |
|--------|---|----|----|---|
| 3/8/23 | <p><b><u>Approved</u></b></p> <p>"CZ8730SC" Door stop or similarly approved to wall or floors</p> | No | 17 |   |
|        | <b>Carried Forward to Summary of Section No.</b>  |    |    | R |
|        | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 8<br>Ironmongery                           |    |    |   |



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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></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><b><u>Ironmongery</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |          |      |        |

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|  |                        |                        |   |
|--|------------------------|------------------------|---|
|  | <b>Brought Forward</b> |                        | R |
| <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p>   |                        |                        |   |
| <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p>   |                        |                        |   |
| <p><b><u>Protection</u></b></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.<br/>All tenderers to include cost of protection in tender price.</p>         |                        |                        |   |
| <p><b><u>Installation</u></b></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><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p>  |                        |                        |   |
| <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p>   |                        |                        |   |
| <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>   |                        |                        |   |
|  |                        | <b>Carried Forward</b> | R |
| <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |                        |                        |   |

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|  |  |   |  |
|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></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><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></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><b><u>Protection:</u></b></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><b><u>Cleaning:</u></b></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;"><b>Carried Forward</b></p> <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |  | R |  |

| Brought Forward   |  |    | R  |
|---|--|----|----|
| <b><u>WELDED SCREENS, GATES, ETC.</u></b>   |  |    |    |
| <b><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></b> |  |    |    |
| 3/9/1   | Steel gate to door, size 914 x 2032mm high | No | 4  |
| <b><u>PRESSED STEEL DOOR FRAMES</u></b>   |  |    |    |
| <b><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></b>  |  |    |    |
| 3/9/2   | 813 x 2032mm single door                   | No | 4  |
| 3/9/3   | 914 x 2032mm single door                   | No | 6  |
| <b><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></b>   |  |    |    |
| 3/9/4   | 914 x 2032mm single door                   | No | 7  |
| <b><u>WINDOWS FRAMES, etc.</u></b>  |  |    |    |
| <b><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></b>  |  |    |    |
| 3/9/5   | Window size 881 x 1240mm high              | No | 12 |
| 3/9/6   | Window size 881 x 820mm high               | No | 8  |
| 3/9/7   | Window size 534 x 648mm high               | No | 4  |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R  |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 9<br>Metalwork   |  |    |    |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 10</u></b>   |          |      |        |
|         | <b><u>PLASTERING</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>SCREEDS</u></b>   |          |      |        |
|         | <b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b>  |          |      |        |
| 3/10/1  | 30mm Thick on floors and landings   | m2       | 174  |        |
| 3/10/2  | 30mm Thick to falls and currents  | m2       | 7    |        |
|         | <b><u>INTERNAL PLASTER</u></b>  |          |      |        |
|         | <b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>  |          |      |        |
| 3/10/3  | On brick walls  | m2       | 496  |        |
| 3/10/4  | On narrow widths  | m2       | 50   |        |
|         | <b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></b>   |          |      |        |
| 3/10/5  | Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification.  | m        | 100  |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      | R      |
|         | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 10<br>Plastering   |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></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><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 11<br/>Tiling</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward   |  |    | R   |
|---|--|----|-----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>  |  |    |     |
| General notes, described in Bill No. 1, shall equally apply to this Bill.   |  |    |     |
| <u>Note</u>   |  |    |     |
| All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.   |  |    |     |
| <b><u>WALL TILING</u></b>   |  |    |     |
| <b><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></b> |  |    |     |
| 3/11/1  | Splash backs   | m2 | 1   |
| <b><u>FLOOR TILING</u></b>  |  |    |     |
| <b><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></b> |  |    |     |
| 3/11/2  | On floors  | m2 | 180 |
| 3/11/3  | 75mm high skirting   | m  | 156 |
| <b><u>ATTIC STOCK</u></b>   |  |    |     |
| 3/11/4  | 420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site) | m2 | 18  |
| <b><u>SUNDRIES</u></b>  |  |    |     |
| <b><u>10mm aluminium straight edge trim</u></b>   |  |    |     |
| 3/11/5  | Dividing strip between tiles and door frames   | m  | 4   |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R   |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 11<br>Tiling   |  |    |     |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 3<br/>2 GRADE R CLASSROOM BLOCK<br/>Bill No. 12<br/>Plumbing and Drainage</p> |          |      | R      |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    |    | R |
|--|--|----|----|---|
| <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 |  |    |    |   |
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |   |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |   |
| <b><u>RAINWATER GOODS</u></b>  |  |    |    |   |
| <b><u>Gutters</u></b>  |  |    |    |   |
| 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  | 77 |   |
| 3/12/2   | Extra over eaves gutter for stopped end  | No | 8  |   |
| 3/12/3   | Extra over eaves gutter for corner   | No | 33 |   |
| 3/12/4   | Extra over eaves gutter for outlet   | No | 8  |   |
| <b><u>Rainwater downpipes</u></b>  |  |    |    |   |
| 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  | 28 |   |
| 3/12/6   | Extra over downpipe for offset   | No | 16 |   |
| 3/12/7   | Extra over downpipe for shoe   | No | 8  |   |
| <b><u>SANITARY FITTINGS</u></b>  |  |    |    |   |
| Refer to sanitary schedule drawing for full description of abbreviations   |  |    |    |   |
| <b>Carried Forward</b>   |  |    |    | R |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 12<br>Plumbing and Drainage                                       |  |    |    |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL

|         |  |    |   |   |
|---------|--|----|---|---|
|         | <b>Brought Forward</b>   |    |   | R |
|         | <b><u>WASH HAND BASINS</u></b>   |    |   |   |
|         | <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, installed complete  | No | 4 |   |
|         | <b><u>WATER CLOSET</u></b>   |    |   |   |
|         | <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 | 2 |   |
|         | <u>Vaal Sanitaryware "Pearl Paraplegic" semi-close coupled water closet, comprising double flap heavy duty thermoplastic seat rim pan and matching 9 litre cisten, including dog leg twice bent 45 degrees and straight cistern back grab rail, including purpose made chromium plated side-flush lever. (PC allowance of R9 300.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u> |    |   |   |
| 3/12/10 | Paraplegic WC, installed complete  | No | 2 |   |
|         | <b><u>SINKS, etc.</u></b>  |    |   |   |
|         | <u>Stainless steel single bowl sink, size 1350 x 457mm complete on and including integrated supports and legs (PC allowance of R1500.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u>   |    |   |   |
| 3/12/11 | Stainless steel Sink, complete.  | No | 2 |   |
|         | <b>Carried Forward</b>   |    |   | R |
|         | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 12<br>Plumbing and Drainage   |    |   |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward  |   |    | R |
|--|---|----|---|
| <b><u>CHROME PLATED WASTE UNIONS, ETC.</u></b>                                     |   |    |   |
| <b><u>(Supply &amp; Fit)</u></b>   |   |    |   |
| 3/12/12  | 32mm Basin waste union  | No | 4 |
| 3/12/13  | 38mm Sink waste union   | No | 2 |
| <b><u>TOILET ROLL HOLDER</u></b>   |   |    |   |
| <b><u>To be approved by Architect</u></b>  |   |    |   |
| 3/12/14  | 130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls                      | No | 2 |
| <b><u>SOAP DISPENSER</u></b>   |   |    |   |
| <b><u>To be approved by Architect</u></b>  |   |    |   |
| 3/12/15  | 110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall | No | 3 |
| <b><u>PAPER TOWEL DISPENSER</u></b>  |   |    |   |
| <b><u>To be approved by Architect</u></b>  |   |    |   |
| 3/12/16  | 360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall          | No | 2 |
| <b><u>TAPS, VALVES, ETC</u></b>  |   |    |   |
| <b><u>Similar Approved</u></b>   |   |    |   |
| 3/12/17  | 15mm Cobra brass watertight hose Bib tap (Code: 108-15)   | No | 2 |
| 3/12/18  | 15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)                               | No | 2 |
| <b>Carried Forward</b>   |   |    | R |
| Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 12<br>Plumbing and Drainage |   |    |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward  |  |    | R          |
|--|--|----|------------|
| <b><u>FIRE FIGHTING EQUIPMENT</u></b>  |  |    |            |
| <b><u>Extinguishers including initial charge and setting up in position:</u></b> |  |    |            |
| 3/12/19  | 9kg dry chemical powder fire extinguisher  | No | 2          |
| 3/12/20  | Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket                               | No | 2          |
| <b><u>TESTING</u></b>  |  |    |            |
| 3/12/21  | Testing water pipe system  |    | Item       |
| <b><u>BUDGETARY ALLOWANCE</u></b>  |  |    |            |
| 3/12/22  | Allow an amount of R170 000.00 (One Hundred and Seventy Thousand) for the supply and installation of Sanitary Fitting Sundries |    | Item       |
| <b>Carried Forward to Summary of Section No.</b>                                 |  |    | R          |
| Section No. 3  |  |    |            |
| 2 GRADE R CLASSROOM BLOCK  |  |    |            |
| Bill No. 12  |  |    |            |
| Plumbing and Drainage  |  |    |            |
|  |  |    | 170 000.00 |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 13</u></b>   |          |      |        |
|         | <b><u>GLAZING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>GLASS TO STEEL WITH PUTTY</u></b>   |          |      |        |
|         | <b><u>5mm clear floated glass fixed glazing putty</u></b>   |          |      |        |
| 3/13/1  | Panes not exceeding 0.1m2   | m2       | 19   |        |
|         | <b><u>6mm obscure floated glass fixed glazing putty</u></b>   |          |      |        |
| 3/13/2  | Panes not exceeding 0.1m2   | m2       | 1    |        |
|         | <b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>  |          |      |        |
|         | <b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>  |          |      |        |
| 3/13/3  | Mirror 400 x 600 mm high  | No       | 2    |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 13<br>Glazing  |          |      | R      |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 14</u></b>   |          |      |        |
|         | <b><u>PAINTWORK</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>FIBRE CEMENT</u></b>  |          |      |        |
|         | <b><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></b>   |          |      |        |
| 3/14/1  | On internal ceilings and cornices   | m2       | 230  |        |
| 3/14/2  | Fibre cement fascias boards not exceeding 300mm high or wide painted on both side   | m        | 155  |        |
|         | <b><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></b>  |          |      |        |
| 3/14/3  | Fiber cement window sill not exceeding 300mm high or wide   | m        | 20   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 3<br>2 GRADE R CLASSROOM BLOCK<br>Bill No. 14<br>Paintwork  |          |      |        |

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PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward   |  |    | R   |
|---|--|----|-----|
| <b><u>FLOATED PLASTER INTERNAL WALLS</u></b>  |  |    |     |
| <b><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></b> |  |    |     |
| 3/14/4  | Plastered walls  | m2 | 496 |
| <b><u>METAL SURFACES</u></b>  |  |    |     |
| <b><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></b>            |  |    |     |
| 3/14/5  | On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area) | m2 | 19  |
| 3/14/6  | On window frames   | m2 | 20  |
| 3/14/7  | On door frames   | m2 | 22  |
| 3/14/8  | On gutters   | m  | 77  |
| 3/14/9  | On downpipes   | m  | 28  |
| <b><u>WOOD</u></b>  |  |    |     |
| <b><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u></b>                                       |  |    |     |
| 3/14/10   | On door  | m2 | 40  |
| <b><u>Prepare and paint three coats clear varnish:</u></b>  |  |    |     |
| 3/14/11   | On door  | m2 | 16  |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R   |
| Section No. 3   |  |    |     |
| 2 GRADE R CLASSROOM BLOCK   |  |    |     |
| Bill No. 14   |  |    |     |
| Paintwork   |  |    |     |

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| <b>Bill No</b> | <b>SECTION SUMMARY</b>                     | <b>Page No</b> | <b>Amount</b> |
|----------------|--|----------------|---------------|
| 3/1            | Earthworks                                 | 3/3            |               |
| 3/2            | Concrete, Formwork and Reinforcement       | 3/7            |               |
| 3/3            | Masonry                                    | 3/11           |               |
| 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                                | 3/26           |               |
| 3/9            | Metalwork                                  | 3/30           |               |
| 3/10           | Plastering                                 | 3/31           |               |
| 3/11           | Tiling                                     | 3/33           |               |
| 3/12           | Plumbing and Drainage                      | 3/38           |               |
| 3/13           | Glazing                                    | 3/39           |               |
| 3/14           | Paintwork                                  | 3/41           |               |
|                | <b>Carried to Final Summary</b>            |                | R             |
|                | Section No. 3<br>2 GRADE R CLASSROOM BLOCK |                |               |



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PHAPHAMANI PRIMARY SCHOOL**

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION NO. 4</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 1<br/>Earthworks</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| <b>Brought Forward</b>  |  |    |      | <b>R</b> |
|---|--|----|------|----------|
| <b><u>SITE CLEARANCE ETC</u></b>  |  |    |      |          |
| <b><u>Site clearance</u></b>  |  |    |      |          |
| 4/1/1   | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc                                       | m2 | 266  |          |
| <b><u>EXCAVATIONS</u></b>   |  |    |      |          |
| <b><u>Excavation in earth not exceeding 2m deep</u></b>   |  |    |      |          |
| 4/1/2   | Trenches   | m3 | 74   |          |
| <b><u>Extra over excavations in earth to trenches and holes for</u></b>   |  |    |      |          |
| 4/1/3   | Excavation in soft rock  | m3 | 7    |          |
| 4/1/4   | Excavation in hard rock  | m3 | 4    |          |
| <b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>  |  |    |      |          |
| <b><u>Note:</u></b>   |  |    |      |          |
| Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site. |  |    |      |          |
| 4/1/5   | 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 | 43   |          |
| <b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>   |  |    |      |          |
| <b><u>Risk of collapse to side of excavation in earth not exceeding 1.5m deep</u></b>   |  |    |      |          |
| 4/1/6   | Trenches and holes   | m2 | 238  |          |
| <b><u>Keeping excavations free of water</u></b>   |  |    |      |          |
| 4/1/7   | Keeping excavations free of water  |    | Item |          |
| <b>Carried Forward</b>  |  |    |      | <b>R</b> |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 1<br>Earthworks   |  |    |      |          |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| Brought Forward   |   |    | R   |
|---|---|----|-----|
| <b><u>FILLING, ETC.</u></b>   |   |    |     |
| <b><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></b> |   |    |     |
| 4/1/8   | Backfilling to trenches, holes, etc   | m3 | 35  |
| 4/1/9   | Under floors, steps, pavings, etc   | m3 | 126 |
| <b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b>                           |   |    |     |
| 4/1/10  | Backfilling to trenches, holes, etc   | m3 | 11  |
| 4/1/11  | Under floors, steps, pavings, etc   | m3 | 27  |
| <b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>   |   |    |     |
| 4/1/12  | Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick | m3 | 27  |
| <b><u>COMPACTION OF SURFACES</u></b>  |   |    |     |
| 4/1/13  | Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density   | m2 | 240 |
| <b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>  |   |    |     |
| <b><u>Protection against termites, ants, etc</u></b>  |   |    |     |
| 4/1/14  | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming                       | m2 | 240 |
| 4/1/15  | To bottom and sides of excavated trenches, Holes, etc.  | m2 | 312 |
| <b>Carried Forward to Summary of Section No.</b>  |   |    | R   |
| Section No. 4   |   |    |     |
| SMALL ADMINISTRATION BLOCK  |   |    |     |
| Bill No. 1  |   |    |     |
| Earthworks  |   |    |     |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></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><b><u>Formwork</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>   |          |      |        |

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|   |  |   |  |
|---|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <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;"><b>Carried Forward</b></p> <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>   |  | R |  |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| <b>Brought Forward</b>   |  |    | R  |
|--|--|----|----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>  |  |    |    |
| <b><u>15Mpa/19mm concrete</u></b>  |  |    |    |
| 4/2/1  | Blinding   | m3 | 4  |
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u></b>   |  |    |    |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |    |
| 4/2/2  | Strip footings   | m3 | 18 |
| <b><u>REINFORCED CONCRETE CAST IN FORMWORK</u></b>   |  |    |    |
| <b><u>20Mpa/19mm concrete</u></b>  |  |    |    |
| 4/2/3  | Concrete Apron cast to fall etc,   | m3 | 6  |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |    |
| 4/2/4  | Surface beds cast in panels  | m3 | 23 |
| <b><u>TEST BLOCKS</u></b>  |  |    |    |
| <b><u>Notes:</u></b>   |  |    |    |
| Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional) |  |    |    |
| 4/2/5  | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) | No | 23 |
| <b>Carried Forward</b>   |  |    | R  |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 2<br>Concrete, Formwork and Reinforcement  |  |    |    |

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|   |   | Brought Forward |     | R |
|---|---|-----------------|-----|---|
| <b><u>SUNDRIES TO CONCRETE</u></b>  |   |                 |     |   |
| <b><u>Surface treatment</u></b>   |   |                 |     |   |
| 4/2/6   | Power float top surface of concrete surface bed to a true and even level finish | m2              | 240 |   |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                |   |                 |     |   |
| <b><u>Rough formwork to sides</u></b>   |   |                 |     |   |
| 4/2/7   | Edges, risers, ends and reveals not exceeding 300mm high or wide                | m               | 118 |   |
| <b><u>MOVEMENTS JOINTS ETC,</u></b>   |   |                 |     |   |
| <b><u>Expansion joints</u></b>  |   |                 |     |   |
| 4/2/8   | 10mm soft board or similar approved between concrete and brick wall             | m               | 58  |   |
| <b><u>REINFORCEMENT (PROVISIONAL)</u></b>   |   |                 |     |   |
| <b><u>High and mild tensile steel reinforcement to structural concrete work</u></b> |   |                 |     |   |
| 4/2/9   | All diameter bars   | t               | 1   |   |
| <b><u>Fabric reinforcement:</u></b>   |   |                 |     |   |
| 4/2/10  | Type 245 fabric reinforcement in concrete surface beds, slabs, etc.             | m2              | 179 |   |
| <b>Carried Forward to Summary of Section No.</b>                                    |   |                 |     | R |
| Section No. 4   |   |                 |     |   |
| SMALL ADMINISTRATION BLOCK  |   |                 |     |   |
| Bill No. 2  |   |                 |     |   |
| Concrete, Formwork and Reinforcement  |   |                 |     |   |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Hollow walls etc</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 3<br/>Masonry</p>   |          |      |        |



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|       |   |    |     |   |
|-------|---|----|-----|---|
|       | <b>Brought Forward</b>  |    |     | R |
|       | <p><b><u>Pointing</u></b></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><b><u>BRICKWORK IN FOUNDATION</u></b></p> <p><b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b></p>  |    |     |   |
| 4/3/1 | One brick wall  | m2 | 89  |   |
|       | <p><b><u>SUPERSTRUCTURE BRICKWORK</u></b></p> <p><b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b></p>  |    |     |   |
| 4/3/2 | One brick wall  | m2 | 223 |   |
| 4/3/3 | Half brick wall   | m2 | 133 |   |
|       | <p><b><u>Mass brickwork in regular piers of NFP brick in class II mortar laid in stretcher bond</u></b></p>   |    |     |   |
| 4/3/4 | 330 x 330mm Brick Piers   | m3 | 1   |   |
|       | <p><b><u>Mass brickwork in L-shaped piers of NFP brick in class II mortar laid in stretcher bond</u></b></p>  |    |     |   |
| 4/3/5 | 310 x 330mm L-shaped Brick Piers  | m3 | 0.5 |   |
|       | <p><b><u>FACE BRICKWORK</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><b><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></b></p> |    |     |   |
| 4/3/6 | Extra over brickwork for face brickwork in foundations (Provisional)  | m2 | 178 |   |
|       | <b>Carried Forward</b>  |    |     | R |
|       | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 3<br/>Masonry</p>  |    |     |   |

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| <b>Brought Forward</b>   |  |    | R     |
|--|--|----|-------|
| 4/3/7  | Extra over brickwork for face brickwork in superstructure  | m2 | 239   |
| 4/3/8  | Extra over brickwork for face brickwork in brick-on-edge header course lintel  | m  | 26    |
| 4/3/9  | Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped | m  | 22    |
| 4/3/10   | Extra over brickwork for face brickwork to piers   | m2 | 14    |
| <b><u>BRICKWORK SUNDRIES</u></b>   |  |    |       |
| <b><u>Brickwork reinforcement</u></b>  |  |    |       |
| 4/3/11   | 75mm Wide reinforcement built in horizontally  | m  | 391   |
| 4/3/12   | 150mm Wide reinforcement built in horizontally.  | m  | 1 190 |
| <b><u>"Allied concrete" or similar approved prestressed fabricated lintels</u></b> |  |    |       |
| 4/3/13   | 100 x 70mm Lintels in lengths not exceeding 3m   | m  | 29    |
| 4/3/14   | 175 x 70mm Lintels in lengths not exceeding 3m   | m  | 9     |
| <b><u>Turning pieces</u></b>   |  |    |       |
| 4/3/15   | 110mm Wide turning piece to flat brick lintels   | m  | 29    |
| <b><u>Air bricks etc</u></b>   |  |    |       |
| 4/3/16   | Set of 2 240 x 155mm Terracota air bricks as per architects specification  | No | 2     |
| <b><u>Fair cutting to face brickwork</u></b>                                       |  |    |       |
| 4/3/17   | Fair raking cutting at gables  | m  | 27    |
| <b><u>Roof ties</u></b>  |  |    |       |
| 4/3/18   | 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses          | No | 50    |
| <b>Carried Forward</b>   |  |    | R     |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 3<br>Masonry               |  |    |       |

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|        | Brought Forward  |    |    | R |
|--------|--|----|----|---|
|        | <p><b><u>MOVEMENTS JOINTS ETC,</u></b></p> <p><b><u>Expansion joints</u></b></p>   |    |    |   |
| 4/3/19 | 30mm softboard between vertical brick surfaces not exceeding 300mm wide  | m2 | 10 |   |
|        | <p><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 3<br/>Masonry</p> |    |    | R |

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|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 4</u></b>  |          |      |        |
|         | <b><u>WATERPROOFING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>   |          |      |        |
|         | <b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>  |          |      |        |
| 4/4/1   | Under cills, etc.   | m2       | 5    |        |
|         | <b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>  |          |      |        |
| 4/4/2   | Under surface beds.   | m2       | 240  |        |
|         | <b><u>JOINTS SEALANTS, ETC.</u></b>   |          |      |        |
|         | <b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b>  |          |      |        |
| 4/4/3   | 10mm Isolation Joints between surface bed concrete and brick wall   | m        | 58   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 4<br>Waterproofing  |          |      | R      |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 5</u></b>  |          |      |        |
|         | <b><u>ROOF COVERINGS</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>ROOF SHEETING</u></b>   |          |      |        |
|         | <b><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></b> |          |      |        |
| 4/5/1   | Roof sheeting pitch not exceeding 25 degrees  | m2       | 237  |        |
| 4/5/2   | 550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile  | m        | 22   |        |
| 4/5/3   | 550mm girth close cut and mitred Valley gutter, 4 times bent and including soakers, etc   | m        | 6    |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 5<br>Roof Coverings   |          |      |        |

|       | Brought Forward   |    |     | R |
|-------|---|----|-----|---|
|       | <b><u>ROOF AND WALL INSULATION</u></b>  |    |     |   |
|       | <b><u>Sisalation "Bubble Foil" aluminium foil binded insulation</u></b>   |    |     |   |
| 4/5/4 | 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories | m2 | 237 |   |
|       | <b>Carried Forward to Summary of Section No.</b>  |    |     |   |
|       | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 5<br>Roof Coverings   |    |     | R |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item<br>No |   | Quantity | Rate | Amount |
|------------|---|----------|------|--------|
|            | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|            | <b>Carried Forward</b>  |          | R    |        |
|            | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   |                        |  |   |  |
|---|------------------------|--|---|--|
|   | <b>Brought Forward</b> |  | R |  |
| <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> |                        |  |   |  |
| <b>Carried Forward</b>  |                        |  |   |  |
| <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>  |                        |  | R |  |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    | R   |
|---|---|----|-----|
| <b><u>ROOFS, ETC</u></b>  |   |    |     |
| <b><u>Plate nailed timber roof truss construction</u></b>   |   |    |     |
| 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.  |   |    |     |
| <b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b>  |   |    |     |
| <b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b>   |   |    |     |
| <b>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.</b> |   |    |     |
| <b><u>Roof trusses</u></b>  |   |    |     |
| 4/6/1   | Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan) | m2 | 197 |
| <b><u>Sawn softwood</u></b>   |   |    |     |
| 4/6/2   | 38 x 114mm Wall plates  | m  | 60  |
| <b><u>Sundries</u></b>  |   |    |     |
| 4/6/3   | Two coats creosote on sawn timbers  | m2 | 22  |
| <b>Carried Forward</b>  |   |    | R   |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 6<br>Carpentry and Joinery  |   |    |     |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |   |    | R  |
|--|---|----|----|
| <b><u>"Everite FC77" Fascia and badge boards</u></b>   |   |    |    |
| 4/6/4  | 15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification   | m  | 35 |
| 4/6/5  | 15 x 80 x 300mm fibre cement barge board  | m  | 27 |
| <b><u>DOORS ETC</u></b>  |   |    |    |
| <b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b> |   |    |    |
| 4/6/6  | 914 x 2032mm single door  | No | 6  |
| <b><u>WINDOWS</u></b>  |   |    |    |
| <b><u>"Nutec" fibre cement window cills</u></b>  |   |    |    |
| 4/6/7  | 150mm x 15mm thick fibre cement Window sill set flat and slightly projecting, with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in 1:4 cement sand mortar with plastic slip joints at end of sills at plaster reveals and projecting from finished face of wall, all as per manufacturer's recommendations | m  | 22 |
| <b>Carried Forward to Summary of Section No.</b>   |   |    |    |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 6<br>Carpentry and Joinery   |   |    | R  |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></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><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |     |   |
|-------|--|----|-----|---|
|       | <b>Brought Forward</b>   |    |     | R |
|       | <p><b><u>Proprietary suspended ceilings</u></b></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><b><u>Suspension systems</u></b></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><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p> |    |     |   |
| 4/7/1 | 2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails   | m2 | 144 |   |
|       | <p><b><u>CORNICES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>  |    |     |   |
| 4/7/2 | 75mm Coved cornice, plugged to brickwork   | m  | 169 |   |
|       | <b>Carried Forward</b>   |    |     | R |
|       | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>  |    |     |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>  |    |     | R |
|-------|---|----|-----|---|
|       | <b><u>SUNDRIES</u></b>  |    |     |   |
|       | <b><u>Extra over for Trap Doors</u></b>   |    |     |   |
| 4/7/3 | Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | No | 1   |   |
|       | <b><u>CEILING INSULATION</u></b>  |    |     |   |
|       | <b><u>Insulation</u></b>  |    |     |   |
| 4/7/4 | 125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.                                      | m2 | 144 |   |
|       | <b>Carried Forward to Summary of Section No.</b>  |    |     |   |
|       | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 7<br>Ceilings, Partitions and Access Flooring   |    |     | R |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 8<br/>Ironmongery</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>  |      |     | R |
|-------|---|------|-----|---|
|       | <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:<br/>           BS Satin bronze lacquered<br/>           CH Chromium plated<br/>           SC Satin chromium plated<br/>           SE Silver enamelled<br/>           GE Grey enamelled<br/>           AN Anodised natural<br/>           AS Anodised silver<br/>           AB Anodised bronze<br/>           AG Anodised gold<br/>           ABL Anodised black<br/>           PB Polished brass<br/>           PL Polished and lacquered<br/>           PT Epoxy coated<br/>           SD Sanded</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><b><u>DOOR FURNITURE</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>Handles</u></b></p> |      |     |   |
| 4/8/1 | SS Lever handle on rose with cylinder escutcheons<br>(Code: TH120 Cyl S.S)  | Sets | 2.0 |   |
| 4/8/2 | SS Pull handle BT fixed on a 150 x 300 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 6 countersunk holes for screw fixing<br>(Code: DHP-430-BL 150X300)   | No   | 6   |   |
|       | <b><u>Locks</u></b>   |      |     |   |
| 4/8/3 | SS Cylinder sash lock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset and 61mm centre (Code: D036S SS)   | No   | 2   |   |
|       | <b>Carried Forward</b>  |      |     | R |
|       | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 8<br>Ironmongery  |      |     |   |

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| <b>Brought Forward</b>   |  |      |     | R |
|--|--|------|-----|---|
| 4/8/4  | SS Cylinder deadlock, with case size 116.5 x 78mm, with forend size 168 x 22mm, with 57mm backset (Code: D037D SS)   | No   | 6   |   |
| 4/8/5  | SN 66mm five pin Euro-profile double cylinder master keyed (Code: DDC106601 MK)  | No   | 2   |   |
| 4/8/6  | SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)  | No   | 6   |   |
| 4/8/7  | NP Rebate conversion kit for Euro-profile locks D036S, D037D (Code: D038R NP)  | No   | 2   |   |
| 4/8/8  | SC heavy duty 150 x 32mm Barrel bolt (Code: BHD 150)   | No   | 2   |   |
| 4/8/9  | SC heavy duty 150 x 32mm Necked barrel bolt (Code: NBHD 150)   | No   | 2   |   |
| 4/8/10   | SC 150mm Cabin hook (Code: CH 150)   | No   | 4   |   |
| <b><u>Kick and push plates</u></b>                                       |  |      |     |   |
| 4/8/11   | SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)  | No   | 20  |   |
| 4/8/12   | SS 150 x 300 x 1.2mm thick Grade 430 steel plate, with cylinder cutout right, with steel plate to have 6 countersunk holes for screw fixing (Code: DPP-430-CR 150X300)   | No   | 6   |   |
| <b><u>Door closers</u></b>   |  |      |     |   |
| 4/8/13   | Non hold open cam action slide channel door closer for 950mm maximum door width, with closing force EN 3, with hydraulic speed control, with pull-side door leaf fixing (standard) and push-side transom fixing (Colour: Silver) (Code: TS91B) | No   | 6   |   |
| <b><u>Sundries</u></b>   |  |      |     |   |
| 4/8/14   | Male / Female fixing screws (Qty 4 per pack)   | Sets | 6.0 |   |
| 4/8/15   | NP floor mounted Door stop (Code: DDS-NP-018)  | No   | 6   |   |
| <b>Carried Forward</b>   |  |      |     | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 8<br>Ironmongery |  |      |     |   |





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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></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><b><u>Ironmongery</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   |                        |  |   |
|---|------------------------|--|---|
|   | <b>Brought Forward</b> |  | R |
| <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><b><u>Protection</u></b></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.<br/>All tenderers to include cost of protection in tender price.</p> <p><b><u>Installation</u></b></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><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> |                        |  |   |
|   | <b>Carried Forward</b> |  | R |
| <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |                        |  |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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|  |  |   |  |
|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></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><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></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><b><u>Protection:</u></b></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><b><u>Cleaning:</u></b></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 |  |
| <b>Carried Forward</b>   |  | R |  |
| <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |  |   |  |

| Brought Forward   |   |    |   | R |
|---|---|----|---|---|
| <b><u>WELDED SCREENS, GATES, ETC.</u></b>   |   |    |   |   |
| <b><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></b> |   |    |   |   |
| 4/9/1   | Steel gate to door, size 1015 x 2100mm high | No | 2 |   |
| <b><u>PRESSED STEEL DOOR FRAMES</u></b>   |   |    |   |   |
| <b><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></b>  |   |    |   |   |
| 4/9/2   | 914 x 2032mm single door                    | No | 6 |   |
| <b><u>STRONG ROOM DOORS ETC, SUITABLE FOR 220MM WALLS FIXED TO BRICKWORK AND CONCRETE</u></b>   |   |    |   |   |
| <b><u>DS-70mm SABS Category 2 ADM strong room door, 190mm thick and steel frame, 813 x 2032mm including 8 bolts of 40 diameter-4 front and 4 back, 2x7- lever security keylock, non-deteriorating insulation material, rust proof undercoat for final painting by contractors, weight- 630 kg</u></b>   |   |    |   |   |
| 4/9/3   | Door size 813 x 2032mm                      | No | 1 |   |
| <b><u>WINDOWS FRAMES, etc.</u></b>  |   |    |   |   |
| Carried Forward   |   |    |   | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 9<br>Metalwork  |   |    |   |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |                                |    |    | R |
|---|--------------------------------|----|----|---|
| <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> |                                |    |    |   |
| 4/9/4   | Window size 1200 x 1800mm high | No | 13 |   |
| 4/9/5   | Window size 1200 x 1200mm high | No | 2  |   |
| 4/9/6   | Window size 900 x 1200mm high  | No | 2  |   |
| 4/9/7   | Window size 900 x 1240mm high  | No | 2  |   |
| <b>Carried Forward</b>  |                                |    |    | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 9<br>Metalwork  |                                |    |    |   |

|       | Brought Forward   |    |      | R |
|-------|---|----|------|---|
|       | <p><b><u>ALUMINIUM WINDOWS, DOORS, ETC</u></b></p> <p><u>Extruded aluminium door frame in configuration with glazed double doors, with laminated safety glass accordingly to ISO 9001:200 Quality Management Standards, including installation of ironmongery, actuators, smoke seal around door frame and all necessary framework, doors, spandrels panels, sealants, closure pieces, gaskets etc, all complete to architect's approval and as per architect's drawings and specifications</u></p> |    |      |   |
| 4/9/8 | Size 1015mm x 2100mm  | No | 2    |   |
|       | <p><b><u>FLAG POST</u></b></p>  |    |      |   |
| 4/9/9 | 2 x 15m high flag poles bolted to steel channel (211mm x 100mm) & channel to be anchored in concrete bases  |    | Item |   |
|       | <p><b>Carried Forward to Summary of Section No.</b></p>   |    |      | R |
|       | <p>Section No. 4<br/>                 SMALL ADMINISTRATION BLOCK<br/>                 Bill No. 9<br/>                 Metalwork</p>   |    |      |   |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 10</u></b>   |          |      |        |
|         | <b><u>PLASTERING</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>SCREEDS</u></b>   |          |      |        |
|         | <b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b>  |          |      |        |
| 4/10/1  | 30mm Thick on floors and landings   | m2       | 153  |        |
|         | <b><u>Granolithic screed on concrete, worked down to a true and even surface with a wood trowel</u></b>   |          |      |        |
| 4/10/2  | 30mm Thick on floors  | m2       | 7    |        |
|         | <b><u>INTERNAL PLASTER</u></b>  |          |      |        |
|         | <b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>  |          |      |        |
| 4/10/3  | On brick walls  | m2       | 516  |        |
| 4/10/4  | On narrow widths  | m2       | 52   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 10<br>Plastering  |          |      |        |



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|  | <b>Brought Forward</b>   |   |   | R |
|--|--|---|---|---|
|  | <b><u>CORNER PROTECTORS, DIVIDING STRIPS,<br/>ETC</u></b>  |   |   |   |
| 4/10/5   | Aluminium straight edge M-trim suitable for under-screed fixing in vinyl/ceramic, etc. installed as per manufactures recommendation and specification. | m | 2 |   |
| 4/10/6   | 38 x 1.2mm Aluminium retro-fit similar approved corner protector installed as per manufactures recommendation and specification.                       | m | 9 |   |
| <b>Carried Forward to Summary of Section No.</b>                         |  |   |   | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 10<br>Plastering |  |   |   |   |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></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><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 11<br/>Tiling</p>  |          |      |        |

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|        | Brought Forward  |    |     | R |
|--------|--|----|-----|---|
|        | <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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><b><u>WALL TILING</u></b></p> <p><b><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></b></p> |    |     |   |
| 4/11/1 | Splash backs   | m2 | 1   |   |
|        | <p><b><u>FLOOR TILING</u></b></p> <p><b><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></b></p>   |    |     |   |
| 4/11/2 | On floors  | m2 | 153 |   |
| 4/11/3 | 75mm high skirting   | m  | 172 |   |
|        | <p><b><u>ATTIC STOCK</u></b></p>   |    |     |   |
| 4/11/4 | 420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)   | m2 | 15  |   |
|        | <p><b><u>SUNDRIES</u></b></p> <p><b><u>10mm aluminium straight edge trim</u></b></p>   |    |     |   |
| 4/11/5 | Dividing strip between tiles and door frames   | m  | 4   |   |
|        | <p><b>Carried Forward to Summary of Section No.</b></p>  |    |     | R |
|        | <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 11<br/>Tiling</p>   |    |     |   |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 4<br/>SMALL ADMINISTRATION BLOCK<br/>Bill No. 12<br/>Plumbing and Drainage</p> |          |      | R      |

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PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    |    | R |
|--|--|----|----|---|
| <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 |  |    |    |   |
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |   |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |   |
| <b><u>RAINWATER GOODS</u></b>  |  |    |    |   |
| <b><u>Gutters</u></b>  |  |    |    |   |
| 4/12/1   | 100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards   | m  | 35 |   |
| 4/12/2   | Extra over eaves gutter for stopped end  | No | 6  |   |
| 4/12/3   | Extra over eaves gutter for corner   | No | 17 |   |
| 4/12/4   | Extra over eaves gutter for outlet   | No | 4  |   |
| <b><u>Rainwater downpipes</u></b>  |  |    |    |   |
| 4/12/5   | 100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification | m  | 14 |   |
| 4/12/6   | Extra over downpipe for offset   | No | 8  |   |
| 4/12/7   | Extra over downpipe for shoe   | No | 4  |   |
| <b>Carried Forward</b>   |  |    |    | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 12<br>Plumbing and Drainage                                      |  |    |    |   |

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| Brought Forward   |   |    | R |
|---|---|----|---|
| <b><u>WASH HAND BASINS</u></b>  |   |    |   |
| <b><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></b> |   |    |   |
| 4/12/8  | WHB, installed complete   | No | 1 |
| <b><u>WATER CLOSET</u></b>  |   |    |   |
| <b><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></b>                                    |   |    |   |
| 4/12/9  | WC, installed complete  | No | 2 |
| <b><u>CHROME PLATED WASTE UNIONS, ETC. (Supply &amp; Fit)</u></b>   |   |    |   |
| 4/12/10   | 32mm Basin waste union  | No | 1 |
| <b><u>TOILET ROLL HOLDER</u></b>  |   |    |   |
| <b><u>To be approved by Architect</u></b>   |   |    |   |
| 4/12/11   | 130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls                      | No | 2 |
| <b><u>SOAP DISPENSER</u></b>  |   |    |   |
| <b><u>To be approved by Architect</u></b>   |   |    |   |
| 4/12/12   | 110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall | No | 1 |
| Carried Forward   |   |    | R |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 12<br>Plumbing and Drainage   |   |    |   |

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| <b>Brought Forward</b>  |  |    | R    |           |
|---|--|----|------|-----------|
| <b><u>PAPER TOWEL DISPENSER</u></b>   |  |    |      |           |
| <b><u>To be approved by Architect</u></b>   |  |    |      |           |
| 4/12/13   | 360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall | No | 1    |           |
| <b><u>TAPS, VALVES, ETC</u></b>   |  |    |      |           |
| <b><u>Similar Approved</u></b>  |  |    |      |           |
| 4/12/14   | 15mm Cobra brass watertight hose Bib tap (Code: 108-15)  | No | 1    |           |
| <b><u>FIRE FIGHTING EQUIPMENT</u></b>   |  |    |      |           |
| <b><u>Extinguishers including initial charge and setting up in position:</u></b>    |  |    |      |           |
| 4/12/15   | 9kg dry chemical powder fire extinguisher  | No | 2    |           |
| 4/12/16   | Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket                             | No | 2    |           |
| <b><u>TESTING</u></b>   |  |    |      |           |
| 4/12/17   | Testing water pipe system  |    | Item |           |
| <b><u>BUDGETARY ALLOWANCE</u></b>   |  |    |      |           |
| 4/12/18   | Allow an amount of R42 000.00 (Forty Two Thousand) for the supply and installation of Sanitary Fitting Sundries              |    | Item | 42 000.00 |
| <b>Carried Forward to Summary of Section No.</b>                                    |  |    |      |           |
| Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 12<br>Plumbing and Drainage |  |    |      | R         |

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| Item No |   | Quantity       | Rate | Amount |
|---------|---|----------------|------|--------|
|         | <b><u>BILL NO. 13</u></b>   |                |      |        |
|         | <b><u>GLAZING</u></b>   |                |      |        |
|         | <b><u>PREAMBLES</u></b>   |                |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |                |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |                |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |                |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |                |      |        |
|         | 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   |                |      |        |
|         | <b><u>GLASS TO STEEL WITH PUTTY</u></b>   |                |      |        |
|         | <b><u>6mm obscure floated glass fixed glazing putty</u></b>   |                |      |        |
| 4/13/1  | Panes exceeding 0.1m <sup>2</sup> and not exceeding 0.5m <sup>2</sup>   | m <sup>2</sup> | 35   |        |
|         | <b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>  |                |      |        |
|         | <b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>  |                |      |        |
| 4/13/2  | Mirror 400 x 600 mm high  | No             | 1    |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |                |      |        |
|         | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 13<br>Glazing   |                |      | R      |



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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 14</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>PAINTWORK TO PREVIOUS PAINTED</u></b></p> <p><b><u>FIBRE CEMENT</u></b></p> <p><b><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></b></p> |          |      |        |
| 4/14/1  | On internal ceilings and cornices  | m2       | 158  |        |
| 4/14/2  | Fibre cement fascias boards not exceeding 300mm high or wide painted on both side  | m        | 62   |        |
|         | <p><b><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></b></p>  |          |      |        |
| 4/14/3  | Fiber cement window sill not exceeding 300mm high or wide  | m        | 22   |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 4<br>SMALL ADMINISTRATION BLOCK<br>Bill No. 14<br>Paintwork  |          |      |        |

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| Brought Forward   |  |    | R   |
|---|--|----|-----|
| <b><u>FLOATED PLASTER INTERNAL WALLS</u></b>  |  |    |     |
| <b><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></b> |  |    |     |
| 4/14/4  | Plastered walls  | m2 | 516 |
| <b><u>METAL SURFACES</u></b>  |  |    |     |
| <b><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></b>            |  |    |     |
| 4/14/5  | On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area) | m2 | 10  |
| 4/14/6  | On window frames   | m2 | 35  |
| 4/14/7  | On door frames   | m2 | 10  |
| 4/14/8  | On gutters   | m  | 35  |
| 4/14/9  | On downpipes   | m  | 14  |
| <b><u>WOOD</u></b>  |  |    |     |
| <b><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u></b>                                       |  |    |     |
| 4/14/10   | On door  | m2 | 20  |
| <b><u>Prepare and paint three coats clear varnish:</u></b>  |  |    |     |
| 4/14/11   | On door  | m2 | 9   |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R   |
| Section No. 4   |  |    |     |
| SMALL ADMINISTRATION BLOCK  |  |    |     |
| Bill No. 14   |  |    |     |
| Paintwork   |  |    |     |

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| <b>Bill No</b> | <b>SECTION SUMMARY</b>                      | <b>Page No</b> | <b>Amount</b> |
|----------------|---|----------------|---------------|
| 4/1            | Earthworks                                  | 4/3            |               |
| 4/2            | Concrete, Formwork and Reinforcement        | 4/7            |               |
| 4/3            | Masonry                                     | 4/11           |               |
| 4/4            | Waterproofing                               | 4/12           |               |
| 4/5            | Roof Coverings                              | 4/14           |               |
| 4/6            | Carpentry and Joinery                       | 4/18           |               |
| 4/7            | Ceilings, Partitions and Access Flooring    | 4/21           |               |
| 4/8            | Ironmongery                                 | 4/25           |               |
| 4/9            | Metalwork                                   | 4/31           |               |
| 4/10           | Plastering                                  | 4/33           |               |
| 4/11           | Tiling                                      | 4/35           |               |
| 4/12           | Plumbing and Drainage                       | 4/39           |               |
| 4/13           | Glazing                                     | 4/40           |               |
| 4/14           | Paintwork                                   | 4/42           |               |
|                | <b>Carried to Final Summary</b>             |                | R             |
|                | Section No. 4<br>SMALL ADMINISTRATION BLOCK |                |               |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION NO. 5</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 1<br/>Earthworks</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward   |  |    | R    |
|---|--|----|------|
| <b><u>EXCAVATIONS</u></b>   |  |    |      |
| <b><u>Excavation in earth not exceeding 2m deep</u></b>   |  |    |      |
| 5/1/1   | Trenches   | m3 | 18   |
| <b><u>Extra over excavations in earth to trenches and holes for</u></b>   |  |    |      |
| 5/1/2   | Excavation in soft rock  | m3 | 2    |
| 5/1/3   | Excavation in hard rock  | m3 | 1    |
| <b><u>CARTING AWAY OF EXCAVATED MATERIAL</u></b>  |  |    |      |
| <b><u>Note:</u></b>   |  |    |      |
| Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site. |  |    |      |
| 5/1/4   | Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor | m3 | 11   |
| <b><u>RISK OF COLLAPSE OF EXCAVATIONS</u></b>   |  |    |      |
| <b><u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u></b>   |  |    |      |
| 5/1/5   | Trenches and holes   | m2 | 63   |
| <b><u>Keeping excavations free of water</u></b>   |  |    |      |
| 5/1/6   | Keeping excavations free of water  |    | Item |
| <b><u>FILLING, ETC.</u></b>   |  |    |      |
| <b><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></b>   |  |    |      |
| 5/1/7   | Backfilling to trenches, holes, etc  | m3 | 8    |
| 5/1/8   | Under floors, steps, pavings, etc  | m3 | 20   |
| Carried Forward   |  |    | R    |
| Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 1<br>Earthworks  |  |    |      |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    | R  |
|---|---|----|----|
| <b><u>Imported gravel filling (G7) stabilise with 2-3% cement compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u></b> |   |    |    |
| 5/1/9   | Backfilling to trenches, holes, etc   | m3 | 3  |
| 5/1/10  | Under floors, steps, pavings, etc   | m3 | 3  |
| <b><u>Filling supplied by the Contractor under floors, trenches, etc.</u></b>   |   |    |    |
| 5/1/11  | Sub-base filling (G5) from excavations under solid floors, steps, etc. compacted to 95% modified AASHTO density in layers not exceeding 150mm thick | m3 | 3  |
| <b><u>COMPACTION OF SURFACES</u></b>  |   |    |    |
| 5/1/12  | Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density   | m2 | 44 |
| <b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>  |   |    |    |
| <b><u>Protection against termites, ants, etc</u></b>  |   |    |    |
| 5/1/13  | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming                       | m2 | 44 |
| 5/1/14  | To bottom and sides of excavated trenches, Holes, etc.  | m2 | 81 |
| <b>Carried Forward to Summary of Section No.</b>  |   |    | R  |
| Section No. 5   |   |    |    |
| 4 SEATS WATERBORNE TOILET BLOCK   |   |    |    |
| Bill No. 1  |   |    |    |
| Earthworks  |   |    |    |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></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><b><u>Formwork</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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|   |  |   |  |
|---|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <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;"><b>Carried Forward</b></p> <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 2<br/>Concrete, Formwork and Reinforcement</p>  |  | R |  |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

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

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|   |   | Brought Forward |     | R |
|---|---|-----------------|-----|---|
| <b><u>SUNDRIES TO CONCRETE</u></b>  |   |                 |     |   |
| <b><u>Surface treatment</u></b>   |   |                 |     |   |
| 5/2/6   | Power float top surface of concrete surface bed to a true and even level finish | m2              | 44  |   |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                |   |                 |     |   |
| <b><u>Rough formwork to sides</u></b>   |   |                 |     |   |
| 5/2/7   | Edges, risers, ends and reveals not exceeding 300mm high or wide                | m               | 45  |   |
| <b><u>Rough formwork to soffits</u></b>   |   |                 |     |   |
| <b><u>MOVEMENTS JOINTS ETC,</u></b>   |   |                 |     |   |
| <b><u>Expansion joints</u></b>  |   |                 |     |   |
| 5/2/8   | 10mm soft board or similar approved between concrete and brick wall             | m               | 22  |   |
| <b><u>REINFORCEMENT (PROVISIONAL)</u></b>   |   |                 |     |   |
| <b><u>High and mild tensile steel reinforcement to structural concrete work</u></b> |   |                 |     |   |
| 5/2/9   | All diameter bars   | t               | 0.4 |   |
| <b><u>Fabric reinforcement:</u></b>   |   |                 |     |   |
| 5/2/10  | Type 245 fabric reinforcement in concrete surface beds, slabs, etc.             | m2              | 22  |   |
| <b>Carried Forward to Summary of Section No.</b>                                    |   |                 |     | R |
| Section No. 5   |   |                 |     |   |
| 4 SEATS WATERBORNE TOILET BLOCK   |   |                 |     |   |
| Bill No. 2  |   |                 |     |   |
| Concrete, Formwork and Reinforcement  |   |                 |     |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 3</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Hollow walls etc</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 3<br/>Masonry</p>  |          |      |        |

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| <b>Brought Forward</b>  |   |    | R  |
|---|---|----|----|
| <b><u>Pointing</u></b>  |   |    |    |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc  |   |    |    |
| <b><u>BRICKWORK IN FOUNDATION</u></b>   |   |    |    |
| <b><u>Brickwork in 73mm burnt clay masonry units class NFP in Class II mortar, laid in stretcher bond with 10mm flush joints</u></b>  |   |    |    |
| 5/3/1   | One brick wall  | m2 | 24 |
| <b><u>SUPERSTRUCTURE BRICKWORK</u></b>  |   |    |    |
| <b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>   |   |    |    |
| 5/3/2   | One brick wall  | m2 | 74 |
| 5/3/3   | Half brick wall   | m2 | 22 |
| 5/3/4   | Half brick wall, in beamfilling   | m2 | 3  |
| <b><u>FACE BRICKWORK</u></b>  |   |    |    |
| Bricks shall be ordered timeously to obtain uniformity in size and colour   |   |    |    |
| <b><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></b> |   |    |    |
| 5/3/5   | Extra over brickwork for face brickwork in foundations (Provisional)          | m2 | 47 |
| 5/3/6   | Extra over brickwork for face brickwork in superstructure                     | m2 | 64 |
| 5/3/7   | Extra over brickwork for face brickwork in brick-on-edge header course lintel | m  | 4  |
| <b>Carried Forward</b>  |   |    | R  |
| Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 3<br>Masonry   |   |    |    |

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| <b>Brought Forward</b>   |  |    | R   |
|--|--|----|-----|
| 5/3/8  | Extra over brickwork for face brickwork in brick-on-edge header course sills, bedded in mortar and set slightly sloped | m  | 4   |
| 5/3/9  | Extra over brickwork for face brickwork in beamfilling   | m2 | 3   |
| <b><u>BRICKWORK SUNDRIES</u></b>   |  |    |     |
| <b><u>Brickwork reinforcement</u></b>  |  |    |     |
| 5/3/10   | 75mm Wide reinforcement built in horizontally  | m  | 66  |
| 5/3/11   | 150mm Wide reinforcement built in horizontally.  | m  | 357 |
| <b><u>"Allied concrete" or similar approved prestressed fabricated lintels</u></b> |  |    |     |
| 5/3/12   | 100 x 70mm Lintels in lengths not exceeding 3m   | m  | 5   |
| 5/3/13   | 175 x 70mm Lintels in lengths not exceeding 3m   | m  | 5   |
| <b><u>Turning pieces</u></b>   |  |    |     |
| 5/3/14   | 110mm Wide turning piece to flat brick lintels   | m  | 8   |
| <b><u>Air bricks etc</u></b>   |  |    |     |
| 5/3/15   | Set of 2 240 x 155mm Terracota air bricks as per architects specification  | No | 2   |
| <b><u>Fair cutting to face brickwork</u></b>                                       |  |    |     |
| 5/3/16   | Fair raking cutting at gables  | m  | 23  |
| <b><u>Roof ties</u></b>  |  |    |     |
| 5/3/17   | 30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses          | No | 19  |
| <b><u>MOVEMENTS JOINTS ETC,</u></b>  |  |    |     |
| <b><u>Expansion joints</u></b>   |  |    |     |
| 5/3/18   | 30mm softboard between vertical brick surfaces not exceeding 300mm wide  | m2 | 4   |
| <b>Carried Forward to Summary of Section No.</b>                                   |  |    | R   |
| Section No. 5  |  |    |     |
| 4 SEATS WATERBORNE TOILET BLOCK  |  |    |     |
| Bill No. 3   |  |    |     |
| Masonry  |  |    |     |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 4</u></b>  |          |      |        |
|         | <b><u>WATERPROOFING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>   |          |      |        |
|         | <b><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></b>  |          |      |        |
| 5/4/1   | Under walls   | m2       | 1    |        |
| 5/4/2   | Under cills, etc.   | m2       | 1    |        |
|         | <b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b>  |          |      |        |
| 5/4/3   | Under surface beds.   | m2       | 44   |        |
|         | <b><u>JOINTS SEALANTS, ETC.</u></b>   |          |      |        |
|         | <b><u>Mastic grey polysulphide sealing compound including raking out of joints filler as necessary</u></b>  |          |      |        |
| 5/4/4   | 10mm Isolation Joints between surface bed concrete and brick wall   | m        | 22   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 4<br>Waterproofing   |          |      | R      |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 5</u></b>  |          |      |        |
|         | <b><u>ROOF COVERINGS</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>ROOF SHEETING</u></b>   |          |      |        |
|         | <b><u>Similar Approved</u></b>  |          |      |        |
|         | <b><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></b> |          |      |        |
| 5/5/1   | Roof sheeting pitch not exceeding 25 degrees  | m2       | 37   |        |
| 5/5/2   | 550mm girth Ridge capping, 3 times bent and notched on site to suit roof profile  | m        | 6    |        |
| 5/5/3   | 550mm girth Hip capping, 3 times bent and notched on site to suit roof profile.   | m        | 10   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 5<br>Roof Coverings  |          |      |        |

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|       | Brought Forward  |    |    |   |  |
|-------|--|----|----|---|--|
|       |  |    |    | R |  |
|       | <b><u>LOUVRES</u></b>  |    |    |   |  |
|       | <b><u>Similar Approved</u></b>   |    |    |   |  |
|       | <b><u>NTY Steelworks purpose-made louvre panels fixed to timber purlins including watertight heading joints, necessary sealing strips, fixing accessories etc., pre-painted to match roof sheeting</u></b> |    |    |   |  |
| 5/5/4 | Steel triangular louvre, 1600 x 600mm high overall   | No | 2  |   |  |
|       | <b><u>ROOF AND WALL INSULATION</u></b>   |    |    |   |  |
|       | <b><u>Similar Approved</u></b>   |    |    |   |  |
|       | <b><u>Sisalation "Bubble Foil" aluminium foil binded insulation</u></b>  |    |    |   |  |
| 5/5/5 | 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories  | m2 | 37 |   |  |
|       | <b>Carried Forward to Summary of Section No.</b>   |    |    |   |  |
|       | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 5<br>Roof Coverings   |    |    | R |  |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p> |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   |  |  |   |  |
|---|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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;"><b>Carried Forward</b></p> <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>   |  |  | R |  |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>   |    | R  |   |
|-------|--|----|----|---|
|       | <p><b><u>ROOFS, ETC</u></b></p> <p><b><u>Plate nailed timber roof truss construction</u></b></p> <p>The following is applicable in respect of roof trusses:</p> <p>All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.</p> <p>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.</p> <p>All joints to be close fitted butt joints.</p> <p><b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b></p> <p><b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b></p> <p><b>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.</b></p> <p><b><u>Roof trusses</u></b></p> |    |    |   |
| 5/6/1 | Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)  | m2 | 31 |   |
|       | <p><b><u>Sawn softwood</u></b></p>   |    |    |   |
| 5/6/2 | 38 x 114mm Wall plates   | m  | 22 |   |
|       | <p><b><u>Sundries</u></b></p>  |    |    |   |
| 5/6/3 | Two coats creosote on sawn timbers   | m2 | 8  |   |
|       | <b>Carried Forward</b>   |    |    | R |
|       | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 6<br/>Carpentry and Joinery</p>  |    |    |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |   |    | R  |
|--|---|----|----|
| <b><u>Similar Approved</u></b>   |   |    |    |
| <b><u>"Everite FC77" Fascia and badge boards</u></b>   |   |    |    |
| 5/6/4  | 15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification   | m  | 23 |
| 5/6/5  | 15 x 80 x 300mm fibre cement barge board  | m  | 23 |
| <b><u>DOORS ETC</u></b>  |   |    |    |
| <b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b> |   |    |    |
| 5/6/6  | 813 x 2032mm single door  | No | 4  |
| 5/6/7  | 914 x 2032mm single door  | No | 2  |
| <b><u>WINDOWS</u></b>  |   |    |    |
| <b><u>Similar Approved</u></b>   |   |    |    |
| <b><u>"Nutec" fibre cement window cills</u></b>  |   |    |    |
| 5/6/8  | 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  | 4  |
| <b>Carried Forward to Summary of Section No.</b>   |   |    | R  |
| Section No. 5  |   |    |    |
| 4 SEATS WATERBORNE TOILET BLOCK  |   |    |    |
| Bill No. 6   |   |    |    |
| Carpentry and Joinery  |   |    |    |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></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><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |    |   |
|-------|--|----|----|---|
|       | <b>Brought Forward</b>   |    |    | R |
|       | <p><b><u>Proprietary suspended ceilings</u></b></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><b><u>Suspension systems</u></b></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><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p> |    |    |   |
| 5/7/1 | 2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails   | m2 | 14 |   |
|       | <p><b><u>CORNICES</u></b></p> <p><b><u>"Rhino" plasterboard cornice</u></b></p>  |    |    |   |
| 5/7/2 | 75mm Coved cornice, plugged to brickwork   | m  | 16 |   |
|       | <b>Carried Forward</b>   |    |    | R |
|       | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 7<br/>Ceilings, Partitions and Access Flooring</p>   |    |    |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>                           |   |    | <b>R</b> |
|--|---|----|----------|
| <b><u>SUNDRIES</u></b>                           |   |    |          |
| <b><u>Extra over for Trap Doors</u></b>          |   |    |          |
| 5/7/3  | Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing, with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening | No | 1        |
| <b><u>CEILING INSULATION</u></b>                 |   |    |          |
| <b><u>Insulation</u></b>                         |   |    |          |
| 5/7/4  | 125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications.                                      | m2 | 14       |
| <b>Carried Forward to Summary of Section No.</b> |   |    | <b>R</b> |
| Section No. 5                                    |   |    |          |
| 4 SEATS WATERBORNE TOILET BLOCK                  |   |    |          |
| Bill No. 7                                       |   |    |          |
| Ceilings, Partitions and Access Flooring         |   |    |          |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 8</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 8<br/>Ironmongery</p>   |          |      |        |



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PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |  | R           |
|---|--|-------------|
| <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:<br/>           BS Satin bronze lacquered<br/>           CH Chromium plated<br/>           SC Satin chromium plated<br/>           SE Silver enamelled<br/>           GE Grey enamelled<br/>           AN Anodised natural<br/>           AS Anodised silver<br/>           AB Anodised bronze<br/>           AG Anodised gold<br/>           ABL Anodised black<br/>           PB Polished brass<br/>           PL Polished and lacquered<br/>           PT Epoxy coated<br/>           SD Sanded</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><b><u>DOOR FURNITURE</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><u>Handles</u></b></p> |  |             |
| 5/8/1   | SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170) | No<br>4     |
| <p><b><u>Locks</u></b></p>  |  |             |
| 5/8/2   | SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)   | No<br>4     |
| 5/8/3   | SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)  | No<br>2     |
| 5/8/4   | SC 150mm Cabin hook (Code: CH 150)   | No<br>2     |
| 5/8/5   | SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)  | Sets<br>4.0 |
| <b>Carried Forward</b>  |  | R           |
| Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 8<br>Ironmongery   |  |             |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>                           |  |      | R   |
|--|--|------|-----|
| <b><u>Kick and push plates</u></b>               |  |      |     |
| 5/8/6  | SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)                          | No   | 12  |
| 5/8/7  | SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170) | No   | 4   |
| <b><u>Panic hardware</u></b>                     |  |      |     |
| 5/8/8  | Three point locking panic bar for single door (Code: PHA3/S DD)  | Sets | 2.0 |
| 5/8/9  | Exterior access lock with lever handle (cylinder not included) (Code: PHT3901)   | No   | 2   |
| <b><u>Sundries</u></b>                           |  |      |     |
| 5/8/10   | Male / Female fixing screws (Qty 4 per pack)   | Sets | 4.0 |
| 5/8/11   | SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)  | No   | 4   |
| <b><u>SUNDRIES</u></b>                           |  |      |     |
| <b><u>Approved</u></b>                           |  |      |     |
| 5/8/12   | "CZ8730SC" Door stop or similarly approved to wall or floors   | No   | 4   |
| <b>Carried Forward to Summary of Section No.</b> |  |      | R   |
| Section No. 5                                    |  |      |     |
| 4 SEATS WATERBORNE TOILET BLOCK                  |  |      |     |
| Bill No. 8                                       |  |      |     |
| Ironmongery                                      |  |      |     |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></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><b><u>Ironmongery</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |          |      |        |

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PHAPHAMANI PRIMARY SCHOOL**

|   |                        |  |   |
|---|------------------------|--|---|
|   | <b>Brought Forward</b> |  | R |
| <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><b><u>Protection</u></b></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.<br/>All tenderers to include cost of protection in tender price.</p> <p><b><u>Installation</u></b></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><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p> <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> |                        |  |   |
|   | <b>Carried Forward</b> |  | R |
| <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 9<br/>Metalwork</p>   |                        |  |   |

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|  |  |   |  |
|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></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><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></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><b><u>Protection:</u></b></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><b><u>Cleaning:</u></b></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;"><b>Carried Forward</b></p> <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 9<br/>Metalwork</p>  |  | R |  |

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| Brought Forward  |                               |    | R |
|--|-------------------------------|----|---|
| <b><u>PRESSED STEEL DOOR FRAMES</u></b>  |                               |    |   |
| <b><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></b>   |                               |    |   |
| 5/9/1  | 813 x 2032mm single door      | No | 4 |
| <b><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></b>  |                               |    |   |
| 5/9/2  | 914 x 2032mm single door      | No | 2 |
| <b><u>WINDOWS FRAMES, etc.</u></b>   |                               |    |   |
| <b><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></b> |                               |    |   |
| 5/9/3  | Window size 1022 x 949mm high | No | 4 |
| <b>Carried Forward to Summary of Section No.</b>   |                               |    | R |
| Section No. 5  |                               |    |   |
| 4 SEATS WATERBORNE TOILET BLOCK  |                               |    |   |
| Bill No. 9   |                               |    |   |
| Metalwork  |                               |    |   |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 10</u></b>   |          |      |        |
|         | <b><u>PLASTERING</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>SCREEDS</u></b>   |          |      |        |
|         | <b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b>  |          |      |        |
| 5/10/1  | 30mm Thick on floors and landings   | m2       | 33   |        |
| 5/10/2  | 30mm Thick to falls and currents  | m2       | 3    |        |
|         | <b><u>INTERNAL PLASTER</u></b>  |          |      |        |
|         | <b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>  |          |      |        |
| 5/10/3  | On brick walls  | m2       | 115  |        |
| 5/10/4  | On narrow widths  | m2       | 12   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 10<br>Plastering   |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 11</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></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><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 11<br/>Tiling</p>   |          |      |        |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |  |    | R  |
|---|--|----|----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>  |  |    |    |
| General notes, described in Bill No. 1, shall equally apply to this Bill.   |  |    |    |
| <u>Note</u>   |  |    |    |
| All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.   |  |    |    |
| <b><u>WALL TILING</u></b>   |  |    |    |
| <b><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></b> |  |    |    |
| 5/11/1  | Plastered walls  | m2 | 62 |
| 5/11/2  | On narrow widths   | m2 | 6  |
| 5/11/3  | Splash backs   | m2 | 1  |
| <b><u>FLOOR TILING</u></b>  |  |    |    |
| <b><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></b> |  |    |    |
| 5/11/4  | On floors  | m2 | 37 |
| 5/11/5  | 75mm high skirting   | m  | 81 |
| <b><u>ATTIC STOCK</u></b>   |  |    |    |
| 5/11/6  | 150 x 150 x 6mm ceramic tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)                    | m2 | 6  |
| 5/11/7  | 420 x 420 x 11.5mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site) | m2 | 4  |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R  |
| Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 11<br>Tiling   |  |    |    |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 5<br/>4 SEATS WATERBORNE TOILET BLOCK<br/>Bill No. 12<br/>Plumbing and Drainage</p> |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    | R  |
|--|--|----|----|
| <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 |  |    |    |
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |
| <b><u>RAINWATER GOODS</u></b>  |  |    |    |
| <b><u>Similar Approved</u></b>   |  |    |    |
| <b><u>Gutters</u></b>  |  |    |    |
| 5/12/1   | 100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards   | m  | 23 |
| 5/12/2   | Extra over eaves gutter for stopped end  | No | 8  |
| 5/12/3   | Extra over eaves gutter for corner   | No | 17 |
| 5/12/4   | Extra over eaves gutter for outlet   | No | 4  |
| <b><u>Rainwater downpipes</u></b>  |  |    |    |
| 5/12/5   | 100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification | m  | 14 |
| 5/12/6   | Extra over downpipe for offset   | No | 8  |
| 5/12/7   | Extra over downpipe for shoe   | No | 4  |
| <b><u>SANITARY FITTINGS</u></b>  |  |    |    |
| Refer to sanitary schedule drawing for full description of abbreviations   |  |    |    |
| <b>Carried Forward</b>   |  |    | R  |
| Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 12<br>Plumbing and Drainage                                 |  |    |    |

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

|         |   | Brought Forward   |   | R |
|---------|---|---|---|---|
|         |   | <b><u>WASH HAND BASINS</u></b>  |   |   |
|         |   | <b><u>Similar Approved</u></b>  |   |   |
|         |   | <b><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></b> |   |   |
| 5/12/8  | WHB, installed complete   | No  | 4 |   |
|         |   | <b><u>WATER CLOSET</u></b>  |   |   |
|         |   | <b><u>Similar Approved</u></b>  |   |   |
|         |   | <b><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></b>                                    |   |   |
| 5/12/9  | WC, installed complete  | No  | 4 |   |
|         |   | <b><u>TOILET ROLL HOLDER</u></b>  |   |   |
|         |   | <b><u>To be approved by Architect</u></b>   |   |   |
| 5/12/10 | 130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls                      | No  | 4 |   |
|         |   | <b><u>SOAP DISPENSER</u></b>  |   |   |
|         |   | <b><u>To be approved by Architect</u></b>   |   |   |
| 5/12/11 | 110 x 170 x 35mm high plastic Soap dispenser (Colour: White and transparent), with lever button and pump, plugged and screwed to wall | No  | 1 |   |
|         |   | <b>Carried Forward</b>  |   |   |
|         |   | R   |   |   |
|         |   | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 12<br>Plumbing and Drainage  |   |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>                           |  | R               |
|--|--|-----------------|
| <b><u>PAPER TOWEL DISPENSER</u></b>              |  |                 |
| <b><u>To be approved by Architect</u></b>        |  |                 |
| 5/12/12  | 360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall                                     | No 1            |
| <b><u>TAPS, VALVES, ETC</u></b>                  |  |                 |
| <b><u>Similar Approved</u></b>                   |  |                 |
| 5/12/13  | 15mm Cobra brass watertight hose Bib tap (Code: 108-15)  | No 4            |
| <b><u>TESTING</u></b>                            |  |                 |
| 5/12/14  | Testing water pipe system  | Item            |
| <b><u>BUDGETARY ALLOWANCE</u></b>                |  |                 |
| 5/12/15  | Allow an amount of R107 380.80 (One Hundred and Seven Thousand Three Hundred and Eighty and Eighty) for the supply and installation of Sanitary Fitting Sundries | Item 107 380.80 |
| <b>Carried Forward to Summary of Section No.</b> |  | R               |
| Section No. 5                                    |  |                 |
| 4 SEATS WATERBORNE TOILET BLOCK                  |  |                 |
| Bill No. 12                                      |  |                 |
| Plumbing and Drainage                            |  |                 |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 13</u></b>   |          |      |        |
|         | <b><u>GLAZING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>GLASS TO STEEL WITH PUTTY</u></b>   |          |      |        |
|         | <b><u>5mm clear floated glass fixed glazing putty</u></b>   |          |      |        |
| 5/13/1  | Panes not exceeding 0.1m2   | m2       | 4    |        |
|         | <b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>  |          |      |        |
|         | <b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>  |          |      |        |
| 5/13/2  | Mirror 400 x 600 mm high  | No       | 4    |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      | R      |
|         | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 13<br>Glazing  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 14</u></b>   |          |      |        |
|         | <b><u>PAINTWORK</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>PAINTWORK ETC TO NEW WORK</u></b>   |          |      |        |
|         | <b><u>FIBRE CEMENT</u></b>  |          |      |        |
|         | <b><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></b>   |          |      |        |
| 5/14/1  | On internal ceilings and cornices   | m2       | 16   |        |
| 5/14/2  | Fibre cement fascias boards not exceeding 300mm high or wide painted on both side   | m        | 46   |        |
|         | <b><u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint, colour to be confirmed by architect</u></b>  |          |      |        |
| 5/14/3  | Fiber cement window sill not exceeding 300mm high or wide   | m        | 4    |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 5<br>4 SEATS WATERBORNE TOILET BLOCK<br>Bill No. 14<br>Paintwork  |          |      |        |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Brought Forward   |                  |    | R   |
|---|------------------|----|-----|
| <b><u>FLOATED PLASTER INTERNAL WALLS</u></b>  |                  |    |     |
| <b><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></b> |                  |    |     |
| 5/14/4  | Plastered walls  | m2 | 115 |
| <b><u>METAL SURFACES</u></b>  |                  |    |     |
| <b><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></b>            |                  |    |     |
| 5/14/5  | On window frames | m2 | 4   |
| 5/14/6  | On door frames   | m2 | 5   |
| 5/14/7  | On gutters       | m  | 23  |
| 5/14/8  | On downpipes     | m  | 14  |
| <b><u>WOOD</u></b>  |                  |    |     |
| <b><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by architect</u></b>                                       |                  |    |     |
| 5/14/9  | On door          | m2 | 15  |
| <b>Carried Forward to Summary of Section No.</b>  |                  |    | R   |
| Section No. 5   |                  |    |     |
| 4 SEATS WATERBORNE TOILET BLOCK   |                  |    |     |
| Bill No. 14   |                  |    |     |
| Paintwork   |                  |    |     |



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

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>SECTION NO. 6</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>DEMOLITIONS AND ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Subterranean water</u></b></p> <p>No subterranean water is expected</p> <p><b><u>Excavation for working space in rock</u></b></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><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 1<br/>Demolitions and Alterations</p> |          |      | R      |

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PHAPHAMANI PRIMARY SCHOOL**

|  |                        |  |   |  |
|--|------------------------|--|---|--|
|  | <b>Brought Forward</b> |  | R |  |
| <p><b><u>Testing</u></b></p> <p><i>Prices for filling are to include for all necessary density tests in accordance with SABS 1200D</i></p> <p><b><u>Existing structures</u></b></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><b><u>Services</u></b></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><b><u>Dust and noise</u></b></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><b><u>Disposal of debris</u></b></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> |                        |  |   |  |
|  | <b>Carried Forward</b> |  | R |  |
| <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 1<br/>Demolitions and Alterations</p>   |                        |  |   |  |

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|  |  |  |   |  |
|--|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>Temporary support to openings through existing walls</u></b></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> <p><b><u>Electrical and Mechanical</u></b></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><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |  |  | R |  |
| <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 1<br/>Demolitions and Alterations</p>   |  |  | R |  |

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| <b>Brought Forward</b>   |  |    |     | R |
|--|--|----|-----|---|
| <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> <p>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.</p> |  |    |     |   |
| <b><u>REMOVAL OF EXISTING WORK</u></b>   |  |    |     |   |
| <b><u>Demolitions of existing structures all complete</u></b>  |  |    |     |   |
| 6/1/1  | 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 | 540 |   |
| 6/1/2  | Single storey brick and mortar admin block with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses, including wash hand basins & WC porcelain close couple and with plumbing complete.     | m2 | 134 |   |
| <b><u>Breaking up/demolishing and removal of walls, slabs, surface beds etc</u></b>  |  |    |     |   |
| 6/1/3  | 100mm thick concrete aprons  | m2 | 92  |   |
| 6/1/4  | 25mm thick concrete screed   | m2 | 80  |   |
| <b>Carried Forward</b>   |  |    |     | R |
| <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 1<br/>Demolitions and Alterations</p>   |  |    |     |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    | R   |
|--|--|----|-----|
| <b><u>Taking out and removing glass and mirrors</u></b>  |  |    |     |
| 6/1/5  | Glass from steel windows including cleaning out rebates and preparing to receive new glass | m2 | 119 |
| <b><u>Taking up and removing floor coverings carpeting, tiles etc</u></b>  |  |    |     |
| 6/1/6  | Vinyl tile floor covering including preparing screed for new tile flooring                 | m2 | 256 |
| <b><u>Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)</u></b>   |  |    |     |
| 6/1/7  | 813mm x 2032mm high timber door including metal frame, ironmongery etc.                    | No | 36  |
| <b><u>Taking out and removing ironmongery</u></b>  |  |    |     |
| 6/1/8  | Remove all ironmongery to a single door  | No | 34  |
| 6/1/9  | Remove pinning board and make good wall finishes   | No | 12  |
| 6/1/10   | Remove green chalk board and make good wall finishes                                       | No | 6   |
| 6/1/11   | Remove brass sliding stays, peg stay, handles window ironmongery                           | No | 328 |
| <b><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></b> |  |    |     |
| 6/1/12   | Remove wash trough including all fittings and make good wall and floor finishes            | No | 10  |
| 6/1/13   | Remove water closet with cistern and make good wall and floor finishes                     | No | 18  |
| 6/1/14   | Remove urinal and make good wall finishes  | No | 6   |
| 6/1/15   | Remove wash hand basin and make good wall finishes   | No | 10  |
| <b><u>Taking out and removing sundry joinery work</u></b>  |  |    |     |
| 6/1/16   | Timber skirting from brickwork   | m  | 157 |
| <b>Carried Forward</b>   |  |    | R   |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 1<br>Demolitions and Alterations   |  |    |     |

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| <b>Brought Forward</b>   |  |    | R    |
|--|--|----|------|
| <b><u>Taking out and removing metalwork</u></b>  |  |    |      |
| 6/1/17   | Security gate including framing bolted to brickwork and making good mortar joints between face brickwork | No | 16   |
| <b><u>Taking out and removing roof coverings, roof accessories and rainwater disposal fittings</u></b>   |  |    |      |
| 6/1/18   | Remove roof sheeting, roof accessories, timber roof structure, ceilings etc.                             | m2 | 488  |
| 6/1/19   | Remove steel gutters, keeping barge boards intact  | m  | 121  |
| 6/1/20   | Remove rainwater downpipe  | m  | 34   |
| 6/1/21   | Remove barge board   | m  | 119  |
| 6/1/22   | Remove fascia board  | m  | 212  |
| <b><u>Repairing cracks</u></b>   |  |    |      |
| 6/1/23   | On plastered brick walls   | m2 | 22   |
| <b><u>Making good plaster</u></b>  |  |    |      |
| 6/1/24   | Wall plaster in patches  | m2 | 22   |
| <b><u>Face bricks</u></b>  |  |    |      |
| 6/1/25   | Clean and treat face bricks with approved oxidation preventative solution                                | m2 | 794  |
| <b><u>REPAIR/MAINTAIN OF EXISTING WORK</u></b>   |  |    |      |
| <b><u>Enviro-loos</u></b>  |  |    |      |
| 6/1/26   | Clean Enviro-loo septic tank and replace ventilation system  |    | Item |
| <b>Carried Forward to Summary of Section No.</b>   |  |    | R    |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 1<br>Demolitions and Alterations |  |    |      |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>NOTES</u></b></p> <p><b><u>Carting away of excavated material</u></b></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><b><u>Filling</u></b></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><b><u>EXCAVATION OTHER THAN BULK, ETC</u></b></p> <p><b><u>Excavation in earth not exceeding 2m deep</u></b></p> |          |      |        |
| 6/2/1   | Trenches  | m3       | 19   |        |
| 6/2/2   | Holes   | m3       | 13   |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 2<br>Earthworks   |          |      |        |



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| Brought Forward  |  |    | R    |
|--|--|----|------|
| <b><u>Extra over trench and hole excavations in earth for excavation in</u></b>  |  |    |      |
| 6/2/3  | Soft rock  | m3 | 3    |
| 6/2/4  | Hard rock  | m3 | 2    |
| <b><u>Extra over all excavations for carting away</u></b>  |  |    |      |
| 6/2/5  | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 31   |
| <b><u>Risk of collapse of excavations</u></b>  |  |    |      |
| 6/2/6  | Sides of trench excavations not exceeding 1.5m deep  | m2 | 54   |
| <b><u>Keeping excavations free of water</u></b>  |  |    |      |
| 6/2/7  | Keeping excavations free of water  |    | Item |
| <b><u>FILLING, ETC.</u></b>  |  |    |      |
| <b><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></b>                              |  |    |      |
| 6/2/8  | Under floors, steps, pavings, etc  | m3 | 6    |
| <b><u>Selected (G5) layer earth filling supplied by the contractor, compacted in 150mm thick layers, compacted to 93% Mod AASHTO density</u></b>   |  |    |      |
| 6/2/9  | Under floors, steps, pavings, etc  | m3 | 7    |
| <b><u>COMPACTION OF SURFACES</u></b>   |  |    |      |
| <b><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></b> |  |    |      |
| 6/2/10   | Under floors, steps, paving, etc   | m2 | 145  |
| <b>Carried Forward</b>   |  |    | R    |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 2<br>Earthworks  |  |    |      |

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PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>  |   |    |     | R |
|---|---|----|-----|---|
| <b><u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u></b>                                |   |    |     |   |
| <b><u>Protection against termites, ants, etc</u></b>                                    |   |    |     |   |
| 6/2/11  | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming | m2 | 145 |   |
| 6/2/12  | Weedkiller: To bottoms and sides of trenches etc.   | m2 | 92  |   |
| <b>Carried Forward to Summary of Section No.</b>  |   |    |     | R |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 2<br>Earthworks |   |    |     |   |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Cost of tests</u></b></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><b><u>Formwork</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          |      | R      |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 3<br/>Concrete, Formwork and Reinforcement</p>   |          |      |        |

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|   |  |  |   |  |
|---|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></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"> <li>· Degree of accuracy: I</li> <li>· Finish: Smooth and even</li> <li>· Form facing material to produce a smooth, hard, uniform texture on the concrete</li> <li>· Steel faced formwork. Joints grout-tight.</li> <li>· Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface</li> <li>· Formwork tie holes: to the approval of the architect</li> <li>· Repair imperfections: not allowed. Tie bolt holes shall be patched</li> <li>· Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects.</li> <li>· Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour</li> </ul> <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;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 3<br/>Concrete, Formwork and Reinforcement</p>   |  |  | R |  |

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| <b>Brought Forward</b>   |  |    | R  |
|--|--|----|----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |    |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |    |
| <b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>  |  |    |    |
| <b><u>10MPa/19mm concrete</u></b>  |  |    |    |
| 6/3/1  | Surface blinding under bases   | m3 | 3  |
| <b><u>20MPa/19mm concrete</u></b>  |  |    |    |
| 6/3/2  | Footings   | m3 | 15 |
| 6/3/3  | Concrete apron, cast to falls  | m3 | 9  |
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>  |  |    |    |
| <b><u>25MPa/19mm Concrete</u></b>  |  |    |    |
| 6/3/4  | Ramps  | m3 | 12 |
| <b><u>30MPa/19mm concrete</u></b>  |  |    |    |
| 6/3/5  | Surface beds   | m3 | 1  |
| <b><u>TEST BLOCKS</u></b>  |  |    |    |
| <b><u>Notes:</u></b>   |  |    |    |
| Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional) |  |    |    |
| 6/3/6  | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional) | No | 17 |
| <b>Carried Forward</b>   |  |    | R  |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 3<br>Concrete, Formwork and Reinforcement  |  |    |    |

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| Brought Forward                                      |   | R      |
|--|---|--------|
| <b><u>SUNDRIES TO CONCRETE</u></b>                   |   |        |
| <b><u>Surface treatment</u></b>                      |   |        |
| 6/3/7  | Power float top surface of concrete surface bed to a true and even level finish | m2 141 |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b> |   |        |
| <b><u>Rough formwork to sides</u></b>                |   |        |
| 6/3/8  | Sloping sides of ramps not exceeding 600mm high extreme                         | m2 32  |
| 6/3/9  | Edges, risers, ends and reveals not exceeding 300mm high or wide                | m 92   |
| <b><u>REINFORCEMENT</u></b>                          |   |        |
| <b><u>High tensile steel reinforcement</u></b>       |   |        |
| 6/3/10   | All diameter bars   | t 0.18 |
| <b><u>Fabric reinforcement</u></b>                   |   |        |
| 6/3/11   | Type 193 mesh reinforcement in concrete surface beds, slabs, etc                | m2 13  |
| <b>Carried Forward to Summary of Section No.</b>     |   | R      |
| Section No. 6  |   |        |
| RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO           |   |        |
| Bill No. 3   |   |        |
| Concrete, Formwork and Reinforcement                 |   |        |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Sizes in descriptions</u></b></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><b><u>Hollow walls etc</u></b></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><b><u>Face bricks</u></b></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 4<br/>Masonry</p>   |          |      |        |

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| <b>Brought Forward</b>  |  |    | R     |
|---|--|----|-------|
| <b><u>Pointing</u></b>  |  |    |       |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc  |  |    |       |
| <b><u>BRICKWORK IN FOUNDATION</u></b>   |  |    |       |
| <b><u>Brickwork of NFX bricks (14MPa nominal compressive strength) in class I mortar</u></b>  |  |    |       |
| 6/4/1   | One brick wall   | m2 | 23    |
| <b><u>SUPERSTRUCTURE BRICKWORK</u></b>  |  |    |       |
| <b><u>Brickwork of NFP brick in class II mortar laid in stretcher bond with 10mm flush joints</u></b>   |  |    |       |
| 6/4/2   | One brick wall   | m2 | 778   |
| 6/4/3   | Half brick wall  | m2 | 83    |
| <b><u>FACE BRICKWORK</u></b>  |  |    |       |
| Bricks shall be ordered timeously to obtain uniformity in size and colour   |  |    |       |
| <b><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></b> |  |    |       |
| 6/4/4   | Extra over brickwork for face brickwork in superstructure              | m2 | 897   |
| 6/4/5   | Extra over brickwork for face brickwork in brick-on-edge header coping | m  | 54    |
| <b><u>BRICKWORK SUNDRIES</u></b>  |  |    |       |
| <b><u>Brickwork reinforcement</u></b>   |  |    |       |
| 6/4/6   | 75mm wide reinforcement built in horizontally                          | m  | 244   |
| 6/4/7   | 150mm wide reinforcement built in horizontally.                        | m  | 2 347 |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R     |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 4<br>Masonry  |  |    |       |



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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 250 micron "USB Green" or similar approved dampproof membrane sealed at laps with PVC self -adhesive tape</u></b></p> |          |      |        |
| 6/5/1   | Under surface beds.   | m2       | 41   |        |
|         | <p><b>Carried Forward to Summary of Section No.</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 5<br/>Waterproofing</p>  |          |      | R      |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 6</u></b>  |          |      |        |
|         | <b><u>ROOF COVERINGS</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>ROOF SHEETING</u></b>   |          |      |        |
|         | <b><u>Similar Approved</u></b>  |          |      |        |
|         | <b><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></b> |          |      |        |
| 6/6/1   | Roof sheeting pitch not exceeding 25 degrees  | m2       | 634  |        |
|         | <b><u>ROOF AND WALL INSULATION</u></b>  |          |      |        |
|         | <b><u>Similar Approved</u></b>  |          |      |        |
|         | <b><u>Sisalation "Bubble Foil" aluminium foil binded insulation</u></b>   |          |      |        |
| 6/6/2   | 135mm thick Insulation laid over purlins (at approximately 750mm centres), fixed concurrent with sheeting with and including galvanised steel accessories   | m2       | 634  |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 6<br>Roof Coverings   |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 7<br/>Carpentry and Joinery</p> |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|   |                        |  |   |  |
|---|------------------------|--|---|--|
|   | <b>Brought Forward</b> |  | R |  |
| <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> |                        |  |   |  |
| <b>Carried Forward</b>  |                        |  |   |  |
| <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 7<br/>Carpentry and Joinery</p>  |                        |  | R |  |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |   |    | R   |
|--|---|----|-----|
| <b><u>ROOFS, ETC</u></b>   |   |    |     |
| <b><u>Similar Approved</u></b>   |   |    |     |
| <b><u>Roof trusses</u></b>   |   |    |     |
| 6/7/1  | Design, supply, take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gang boarding, temporary and permanent bracing, etc (measured on plan)   | m2 | 488 |
| <b><u>"Everite FC77" fascia and barge boards</u></b>   |   |    |     |
| 6/7/2  | 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  | 212 |
| 6/7/3  | 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  | 119 |
| <b><u>DOORS ETC</u></b>  |   |    |     |
| <b><u>44mm thick solid R&amp;F panel meranti timber doors with masonite backing with 15 horizontal slates on both sides hung to steel frames</u></b> |   |    |     |
| 6/7/4  | 813 x 2032mm single door  | No | 20  |
| 6/7/5  | 914 x 2032mm single door  | No | 8   |
| <b>Carried Forward to Summary of Section No.</b>   |   |    | R   |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 7<br>Carpentry and Joinery   |   |    |     |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 8</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>Fixing</u></b></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><b><u>Ceilings &amp; Bulkheads</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Steel components</u></b></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 8<br/>Ceilings, Partitions and Access Flooring</p>   |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |     |   |
|-------|--|----|-----|---|
|       | <b>Brought Forward</b>   |    |     | R |
|       | <p><b><u>Proprietary suspended ceilings</u></b></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><b><u>Suspension systems</u></b></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><b><u>NAILED UP CEILINGS</u></b></p> <p><b><u>FIBRE - CEMENT BOARDS</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p> |    |     |   |
| 6/8/1 | 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 | 824 |   |
| 6/8/2 | 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  |   |
|       | <b>Carried Forward</b>   |    |     | R |
|       | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 8<br/>Ceilings, Partitions and Access Flooring</p>  |    |     |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>   |    |     | R |
|-------|--|----|-----|---|
|       | <b><u>CORNICES</u></b>   |    |     |   |
|       | <b><u>Similar Approved</u></b>   |    |     |   |
|       | <b><u>"Rhino" plasterboard cornice</u></b>   |    |     |   |
| 6/8/3 | 75mm Coved cornice, plugged to brickwork   | m  | 340 |   |
|       | <b><u>CEILING INSULATION</u></b>   |    |     |   |
|       | <b><u>Insulation</u></b>   |    |     |   |
| 6/8/4 | 125mm thick Glass wool insulation blanket closely fitted and laid on top of ceiling panels, all in strict accordance with the manufacturer's specifications. | m2 | 824 |   |
|       | <b>Carried Forward to Summary of Section No.</b>   |    |     |   |
|       | Section No. 6  |    |     |   |
|       | RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO   |    |     |   |
|       | Bill No. 8   |    |     |   |
|       | Ceilings, Partitions and Access Flooring   |    |     |   |
|       |  |    |     | R |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>IRONMONGERY</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 9<br/>Ironmongery</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       |  |    |    |   |
|-------|--|----|----|---|
|       | <b>Brought Forward</b>   |    |    | 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<br/>           ABL Anodised black<br/>           AG Anodised gold<br/>           AN Anodised natural<br/>           AS Anodised silver<br/>           BS Satin bronze lacquered<br/>           CH Chromium plated<br/>           GE Grey enamelled<br/>           NP Nickel plated<br/>           PB Polished brass<br/>           PL Polished and lacquered<br/>           PT Epoxy coated<br/>           SC Satin chromium plated<br/>           SD Sanded<br/>           SE Silver enamelled<br/>           SN Satin nickel<br/>           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><b><u>PINNING BOARDS, WRITING BOARDS, PROJECTION SCREENS, etc.</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p> |    |    |   |
| 6/9/1 | 2400 x 1200mm high board (Colour: Light Grey), fixed to wall in strict accordance with manufacturer's recommendations  | No | 12 |   |
|       | <b>Carried Forward</b>   |    |    | R |
|       | <p>Section No. 6<br/>           RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>           Bill No. 9<br/>           Ironmongery</p>  |    |    |   |

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DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
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| <b>Brought Forward</b> |  |      |      | R |
|------------------------|--|------|------|---|
|                        | <b><u>Porcelain magnetic marker board, complete with anodised aluminium frame and slide-in aluminium pen tray</u></b>  |      |      |   |
| 6/9/2                  | 2000 x 1300mm high board (Colour: White), fixed to wall in strict accordance with manufacturer's recommendations   | No   | 12   |   |
|                        | <b><u>DOOR FURNITURE</u></b>   |      |      |   |
|                        | <b><u>Similar Approved</u></b>   |      |      |   |
|                        | <b><u>Handles</u></b>  |      |      |   |
| 6/9/3                  | SS Pull handle BT fixed on a 75 x 170 x 1.2mm thick Grade 430 steel plate with no cylinder cutout, with steel plate to have 4 countersunk holes for screw fixing (Code: DHP-430-BL 75X170) | No   | 20   |   |
|                        | <b><u>Locks</u></b>  |      |      |   |
| 6/9/4                  | SS Bathroom deadlock, with case size 102 x 78mm, with forend size 155 x 22mm, with 57mm backset (Code: D032D SS)   | No   | 20   |   |
| 6/9/5                  | SN 43mm five pin Euro-profile single cylinder master keyed (Code: DSC104301 MK)  | No   | 16   |   |
| 6/9/6                  | SC 150mm Cabin hook (Code: CH 150)   | No   | 16   |   |
| 6/9/7                  | SS bathroom WC indicator (red and white) and turnknob (Code: DWC-005)  | Sets | 20.0 |   |
|                        | <b><u>Kick and push plates</u></b>   |      |      |   |
| 6/9/8                  | SS 200 x 813 x 1.2mm thick Grade 430 kick plate, with 10 countersunk holes for screw fixing (Code: DKP-430-200)  | No   | 72   |   |
| 6/9/9                  | SS 75 x 170 x 1.2mm thick Grade 430 steel plate, with steel plate to have 4 countersunk holes for screw fixing (Code: DPP-430-BL 75X170)   | No   | 20   |   |
|                        | <b><u>Panic hardware</u></b>   |      |      |   |
| 6/9/10                 | Three point locking panic bar for single door (Code: PHA3/S DD)  | Sets | 16.0 |   |
|                        | <b>Carried Forward</b>   |      |      | R |
|                        | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 9<br>Ironmongery   |      |      |   |

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| <b>Brought Forward</b>   |  |      | R    |
|--|--|------|------|
| 6/9/11   | Exterior access lock with lever handle (cylinder not included) (Code: PHT3901) | No   | 16   |
| <b><u>Sundries</u></b>   |  |      |      |
| 6/9/12   | Male / Female fixing screws (Qty 4 per pack)                                   | Sets | 20.0 |
| 6/9/13   | SS Hat and coat hook with rubber buffer (Code: DHC-SS-031B)                    | No   | 20   |
| <b><u>WINDOW FURNITURE</u></b>   |  |      |      |
| <b><u>Similar Approved</u></b>   |  |      |      |
| 6/9/14   | Brass spring catch   | No   | 136  |
| 6/9/15   | Brass peg stay   | No   | 96   |
| 6/9/16   | Brass handle   | No   | 96   |
| <b>Carried Forward to Summary of Section No.</b>   |  |      | R    |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 9<br>Ironmongery |  |      |      |

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| Item<br>No |  | Quantity | Rate | Amount |
|------------|--|----------|------|--------|
|            | <p><b><u>BILL NO. 10</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><b><u>ALUMINIUM</u></b></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><b><u>SPECIFICATIONS</u></b></p> <p>User Note:</p> <p><b><u>Glazing</u></b></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><b><u>Ironmongery</u></b></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> |          |      |        |
|            | <b>Carried Forward</b>   |          |      | R      |
|            | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 10<br/>Metalwork</p>  |          |      |        |

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|  |                        |  |   |
|--|------------------------|--|---|
|  | <b>Brought Forward</b> |  | R |
| <p><b><u>Actuators</u></b></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p>   |                        |  |   |
| <p><b><u>Scaffolding</u></b></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p>   |                        |  |   |
| <p><b><u>Protection</u></b></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.<br/>All tenderers to include cost of protection in tender price.</p>         |                        |  |   |
| <p><b><u>Installation</u></b></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><b><u>Profiles</u></b></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p>  |                        |  |   |
| <p><b><u>Structural Silicone</u></b></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p>   |                        |  |   |
| <p><b><u>Preliminary and Shop Drawings:</u></b></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p>   |                        |  |   |
| <b>Carried Forward</b>   |                        |  | R |
| <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 10<br/>Metalwork</p>  |                        |  |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
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|  |  |   |  |
|--|--|---|--|
| <p style="text-align: center;"><b>Brought Forward</b></p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><b><u>Fixing:</u></b></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><b><u>Deflection of structure:</u></b></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><b><u>Tolerances:</u></b></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><b><u>Protection:</u></b></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><b><u>Cleaning:</u></b></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;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 10<br/>Metalwork</p>  |  | R |  |

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| Brought Forward   |   |    | R  |
|---|---|----|----|
| <b><u>WELDED SCREENS, GATES, ETC.</u></b>   |   |    |    |
| <b><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></b> |   |    |    |
| 6/10/1  | Steel gate to door, size 914mm x 2032mm high    | No | 6  |
| <b><u>Welded MS screen consisting of 10mm diameter bars, all complete as per the architect's specifications</u></b>   |   |    |    |
| 6/10/2  | Steel screen to window, size 1020 x 1533mm high | No | 48 |
| <b><u>PRESSED STEEL DOOR FRAMES</u></b>   |   |    |    |
| <b><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></b>  |   |    |    |
| 6/10/3  | 813 x 20232mm single door                       | No | 20 |
| <b><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></b>   |   |    |    |
| 6/10/4  | 914 x 2032mm single door                        | No | 8  |
| <b>Carried Forward to Summary of Section No.</b>  |   |    | R  |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 10<br>Metalwork   |   |    |    |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 11</u></b>   |          |      |        |
|         | <b><u>PLASTERING</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | General notes, described in Bill No.1, shall equally apply to this Bill.  |          |      |        |
|         | <b><u>SCREEDS</u></b>   |          |      |        |
|         | <b><u>1:4 Cement sand screed on concrete, worked down to a true and even surface with a steel trowel</u></b>  |          |      |        |
| 6/11/1  | 30mm thick on floors and landings   | m2       | 80   |        |
|         | <b><u>INTERNAL PLASTER</u></b>  |          |      |        |
|         | <b><u>One coat smooth 1:5 cement sand plaster on brickwork to receive finish</u></b>  |          |      |        |
| 6/11/2  | On brick walls  | m2       | 823  |        |
| 6/11/3  | On narrow widths  | m2       | 41   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 11<br>Plastering  |          |      | R      |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 12</u></b></p> <p><b><u>TILING</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>Pricing</u></b></p> <p>Prices are to included for the following: Cutting, handling, labour, adhesive etc.</p> <p><b><u>Fixing</u></b></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><b><u>Wastage</u></b></p> <p>Tile wastage in excess of 10% will be for the tenderer's account.</p> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 12<br/>Tiling</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
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| Brought Forward   |  |    | R   |
|---|--|----|-----|
| <b><u>GENERAL NOTES TO TENDERERS</u></b>  |  |    |     |
| General notes, described in Bill No. 1, shall equally apply to this Bill.   |  |    |     |
| <u>Note</u>   |  |    |     |
| All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.   |  |    |     |
| <b><u>FLOOR TILING</u></b>  |  |    |     |
| <b><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></b> |  |    |     |
| 6/12/1  | On floors  | m2 | 336 |
| 6/12/2  | 75mm high skirting   | m  | 157 |
| <b><u>ATTIC STOCK</u></b>   |  |    |     |
| 6/12/3  | 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 | 34  |
| <b><u>SUNDRIES</u></b>  |  |    |     |
| <b><u>10mm aluminium straight edge trim</u></b>   |  |    |     |
| 6/12/4  | Dividing strip between tiles and door frames   | m  | 15  |
| <b><u>25 x 25mm aluminium angle</u></b>   |  |    |     |
| 6/12/5  | Trim to edge of concrete, to be secured with screws  | m  | 5   |
| <b>Carried Forward to Summary of Section No.</b>  |  |    | R   |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 12<br>Tiling  |  |    |     |

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PHAPHAMANI PRIMARY SCHOOL**

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></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 style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 13<br/>Plumbing and Drainage</p> |          |      | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |    |     | R |
|--|--|----|-----|---|
| <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 |  |    |     |   |
| <b><u>GENERAL NOTES TO TENDERERS</u></b>   |  |    |     |   |
| General notes, described in Bill No.1, shall equally apply to this Bill.   |  |    |     |   |
| <b><u>RAINWATER GOODS</u></b>  |  |    |     |   |
| <b><u>Similar Approved</u></b>   |  |    |     |   |
| <b><u>Gutters</u></b>  |  |    |     |   |
| 6/13/1   | 100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards   | m  | 121 |   |
| 6/13/2   | Extra over eaves gutter for outlet   | No | 12  |   |
| 6/13/3   | Extra over eaves gutter for closed end   | No | 17  |   |
| <b><u>Rainwater downpipes</u></b>  |  |    |     |   |
| 6/13/4   | 100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification | m  | 42  |   |
| 6/13/5   | Extra over rainwater pipe for offset   | No | 16  |   |
| 6/13/6   | Extra over rainwater pipe for shoe   | No | 12  |   |
| 6/13/7   | Extra over rainwater pipe for bend   | No | 14  |   |
| <b><u>SANITARY FITTINGS</u></b>  |  |    |     |   |
| Refer to sanitary schedule drawing for full description of abbreviations   |  |    |     |   |
| <b>Carried Forward</b>   |  |    |     | R |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 13<br>Plumbing and Drainage                      |  |    |     |   |

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|         |                            | Brought Forward  |    | R |
|---------|----------------------------|--|----|---|
|         |                            | <b><u>URINAL</u></b>   |    |   |
|         |                            | <b><u>Similar Approved</u></b>   |    |   |
|         |                            | <b><u>Vaal Sanitaryware "Lavatera" vitreous china wall hung urinal with top inlet (Code: 705426) or back inlet (Code: 705427), overall size 600 x 385 x 380mm, incl. top inlet fittings (Code: 7054Z1) and back fittings (Code: 7054Z2), incl. 38mm CP domical grating, incl. spreader with 20mm diameter thread, and incl. 2x hanger brackets (PC allowance of R950.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b> |    |   |
| 6/13/8  | Urinal, installed complete | No   | 6  |   |
|         |                            | <b><u>WASH HAND BASINS</u></b>   |    |   |
|         |                            | <b><u>Similar Approved</u></b>   |    |   |
|         |                            | <b><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></b>  |    |   |
| 6/13/9  | WHB, installed complete    | No   | 10 |   |
|         |                            | <b><u>WATER CLOSET</u></b>   |    |   |
|         |                            | <b><u>Similar Approved</u></b>   |    |   |
|         |                            | <b><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, fittings 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></b>   |    |   |
| 6/13/10 | WC, installed complete     | No   | 18 |   |
|         |                            | <b>Carried Forward</b>   |    | R |
|         |                            | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 13<br>Plumbing and Drainage  |    |   |

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| <b>Brought Forward</b>   |  |    | R  |
|--|--|----|----|
| <b><u>SINKS, etc.</u></b>  |  |    |    |
| <b><u>Concrete double wash trough 1400 x 530 x 340mm deep with outlets and three pedestals (PC allowance of R780.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing</u></b> |  |    |    |
| 6/13/11  | Wash trough, installed complete  | No | 10 |
| <b><u>TOILET ROLL HOLDER</u></b>   |  |    |    |
| <b><u>To be approved by Architect</u></b>  |  |    |    |
| 6/13/12  | 130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls                                 | No | 18 |
| <b><u>TAPS, VALVES, ETC</u></b>  |  |    |    |
| <b><u>Similar Approved</u></b>   |  |    |    |
| 6/13/13  | 15mm Cobra brass watertight hose Bib tap (Code: 108-15)  | No | 22 |
| <b><u>TANKS</u></b>  |  |    |    |
| <b><u>Similar Approved</u></b>   |  |    |    |
| 6/13/14  | 1900mm dia. x 2040mm high 2500L JoJo water storage tank (Colour: JoJo Green), installed on a brick base with compacted fill (measured elsewhere) | No | 2  |
| <b><u>FIRE FIGHTING EQUIPMENT</u></b>  |  |    |    |
| <b><u>Extinguishers including initial charge and setting up in position:</u></b>   |  |    |    |
| 6/13/15  | 9kg dry chemical powder fire extinguisher  | No | 6  |
| 6/13/16  | Fire hose reel with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket   | No | 1  |
| Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions   |  |    |    |
| <b>Carried Forward</b>   |  |    | R  |
| Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 13<br>Plumbing and Drainage  |  |    |    |

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|         | <b>Brought Forward</b>   |      | R |            |
|---------|--|------|---|------------|
|         | <b><u>TESTING</u></b>  |      |   |            |
| 6/13/17 | Testing water pipe system  | Item |   |            |
|         | <b><u>BUDGETARY ALLOWANCE</u></b>  |      |   |            |
| 6/13/18 | Allow an amount of R288 337.76 (Two Hundred and Eighty Eight Thousand Three Hundred and Thirty Seven and Seventy Six) for the supply and installation of Sanitary Fitting Sundries | Item |   | 288 337.76 |
|         | <b>Carried Forward to Summary of Section No.</b>   |      |   |            |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 13<br>Plumbing and Drainage  |      | R |            |



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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 14</u></b>   |          |      |        |
|         | <b><u>GLAZING</u></b>   |          |      |        |
|         | <b><u>PREAMBLES</u></b>   |          |      |        |
|         | NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.   |          |      |        |
|         | <b><u>GENERAL NOTES TO TENDERERS</u></b>  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>GLASS TO STEEL WITH PUTTY</u></b>   |          |      |        |
|         | <b><u>5mm clear floated glass fixed glazing putty</u></b>   |          |      |        |
| 6/14/1  | Panes not exceeding 0.1m2   | m2       | 107  |        |
| 6/14/2  | Panes exceeding 0.1m2 and not exceeding 0.5m2   | m2       | 12   |        |
|         | <b><u>TOPS, SHELVES, DOORS, MIRROR ETC</u></b>  |          |      |        |
|         | <b><u>6mm Polished plate float glass mirrors with square polished edges plugged with chrome plated detachable screws or similarly approved</u></b>  |          |      |        |
| 6/14/3  | Mirror 400 x 600 mm high  | No       | 10   |        |
|         | <b>Carried Forward to Summary of Section No.</b>  |          |      |        |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 14<br>Glazing   |          |      | R      |

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| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 15</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><b><u>PAINTWORK TO PREVIOUS PAINTED</u></b></p> <p><b><u>FLOATED PLASTER INTERNAL WALLS</u></b></p> <p><b><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></b></p> |          |      |        |
| 6/15/1  | On walls   | m2       | 881  |        |
|         | <p><b><u>METAL SURFACES</u></b></p> <p><b><u>Similar Approved</u></b></p> <p><b><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></b></p>  |          |      |        |
| 6/15/2  | On window frames   | m2       | 238  |        |
| 6/15/3  | On door frames   | m2       | 286  |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | <p>Section No. 6<br/>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br/>Bill No. 15<br/>Paintwork</p>  |          |      |        |

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|         |   |    |     |          |
|---------|---|----|-----|----------|
|         | <b>Brought Forward</b>  |    |     | <b>R</b> |
|         | <b><u>PAINTWORK ETC TO NEW WORK</u></b>   |    |     |          |
|         | <b><u>FLOATED PLASTER INTERNAL WALLS</u></b>  |    |     |          |
|         | <b><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></b> |    |     |          |
| 6/15/4  | On walls  | m2 | 823 |          |
|         | <b><u>FIBRE CEMENT</u></b>  |    |     |          |
|         | <b><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></b>       |    |     |          |
| 6/15/5  | On internal ceilings and cornices   | m2 | 857 |          |
| 6/15/6  | Fibre cement fascia/barge boards  | m2 | 196 |          |
|         | <b><u>METAL SURFACES</u></b>  |    |     |          |
|         | <b><u>Similar Approved</u></b>  |    |     |          |
|         | <b><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></b>            |    |     |          |
| 6/15/7  | On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)  | m2 | 202 |          |
| 6/15/8  | On door frames  | m2 | 49  |          |
| 6/15/9  | On gutters  | m  | 121 |          |
| 6/15/10 | On downpipes  | m  | 12  |          |
|         | <b><u>WOOD</u></b>  |    |     |          |
|         | <b><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA, colour to be confirmed by Architect</u></b>                                       |    |     |          |
| 6/15/11 | On door   | m2 | 133 |          |
|         | <b>Carried Forward</b>  |    |     | <b>R</b> |
|         | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO<br>Bill No. 15<br>Paintwork   |    |     |          |



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| <b>Bill No</b> | <b>SECTION SUMMARY</b>                                      | <b>Page No</b> | <b>Amount</b> |
|----------------|---|----------------|---------------|
| 6/1            | Demolitions and Alterations                                 | 6/6            |               |
| 6/2            | Earthworks  | 6/9            |               |
| 6/3            | Concrete, Formwork and Reinforcement                        | 6/13           |               |
| 6/4            | Masonry   | 6/15           |               |
| 6/5            | Waterproofing   | 6/16           |               |
| 6/6            | Roof Coverings  | 6/17           |               |
| 6/7            | Carpentry and Joinery                                       | 6/20           |               |
| 6/8            | Ceilings, Partitions and Access Flooring                    | 6/23           |               |
| 6/9            | Ironmongery   | 6/27           |               |
| 6/10           | Metalwork   | 6/31           |               |
| 6/11           | Plastering  | 6/32           |               |
| 6/12           | Tiling  | 6/34           |               |
| 6/13           | Plumbing and Drainage                                       | 6/39           |               |
| 6/14           | Glazing   | 6/40           |               |
| 6/15           | Paintwork   | 6/43           |               |
|                | <b>Carried to Final Summary</b>                             |                |               |
|                | Section No. 6<br>RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLO |                | R             |

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| Item No |   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>BILL NO. 1</u></b></p> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>  |          | R    |        |
|         | <p>Section No. 7<br/>PROVISIONAL SUMS<br/>Bill No. 1<br/>Budgetary Allowance</p>  |          |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>   |      | R |            |
|-------|--|------|---|------------|
|       | <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><b><u>LOCAL AUTHORITY FEES</u></b></p> <p><b><u>Local authority fees for connections</u></b></p> |      |   |            |
| 7/1/1 | 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><b><u>Relocation of mobiles</u></b></p>   |      |   |            |
| 7/1/2 | Provide the sum of R250 000.00 (Two Hundred and Fifty Thousand) for the relocation of mobiles  | Item |   | 250 000.00 |
|       | <b>Carried Forward to Summary of Section No.</b>   |      | R |            |
|       | Section No. 7<br>PROVISIONAL SUMS<br>Bill No. 1<br>Budgetary Allowance   |      |   |            |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 2</u></b></p> <p><b><u>PROVISIONAL SUMS</u></b></p> <p><b><u>PREAMBLES</u></b></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><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></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> |          |      |        |
|         | <b>Carried Forward</b>   |          | R    |        |
|         | <p>Section No. 7<br/>PROVISIONAL SUMS<br/>Bill No. 2<br/>Provisional Sums</p>  |          |      |        |



**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|       | <b>Brought Forward</b>   |      | R |            |
|-------|--|------|---|------------|
|       | <u>General attendance on nominated/selected subcontractors</u><br><br>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:<br><br><u>Builder's work</u><br><br>Builder's work in connection with specialist services is given elsewhere in these bills of quantities<br><br><u>Signage Installation</u> |      |   |            |
| 7/2/1 | Allow an amount of R56 950.00 (Fifty Six Thousand Nine Hundred and Fifty) for the supply and installation of Signage   | Item |   | 56 950.00  |
| 7/2/2 | Attendance   |      | % |            |
| 7/2/3 | Profit   |      | % |            |
|       | <u>Joinery Fittings</u>  |      |   |            |
| 7/2/4 | Allow an amount of R4 500.00 (Four Thousand Five Hundred) for the supply and installation of Joinery Fittings  | Item |   | 4 500.00   |
| 7/2/5 | Attendance   |      | % |            |
| 7/2/6 | Profit   |      | % |            |
|       | <u>School Furniture and Fittings</u>   |      |   |            |
| 7/2/7 | Allow an amount of R615 000.00 (Six Hundred and Fifteen Thousand) for the supply and installation of School Furniture and Fittings   | Item |   | 615 000.00 |
| 7/2/8 | Attendance   |      | % |            |
| 7/2/9 | Profit   |      | % |            |
|       | <b>Carried Forward</b>   |      | R |            |
|       | Section No. 7<br>PROVISIONAL SUMS<br>Bill No. 2<br>Provisional Sums  |      |   |            |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Brought Forward</b>   |  |      | R |            |
|--|--|------|---|------------|
| <b><u>Community Liaison Officer</u></b>  |  |      |   |            |
| 7/2/10   | Allow an amount of R180 000.00 (One Hundred and Eighty Thousand) for provision of Community Liaison Officer          | Item |   | 180 000.00 |
| 7/2/11   | Attendance   |      | % |            |
| 7/2/12   | Profit   |      | % |            |
| <b><u>Project Steering Committee</u></b>   |  |      |   |            |
| 7/2/13   | Allow an amount of R36 000.00 (Thirty Six Thousand) for provision of Project Steering Committee                      | Item |   | 36 000.00  |
| 7/2/14   | Attendance   |      | % |            |
| 7/2/15   | Profit   |      | % |            |
| <b><u>WORK EXECUTED BY SEPARATE DIRECT SERVICE PROVIDERS</u></b>   |  |      |   |            |
| <p>The following work will be executed by Service Providers under direct agreement with the Employer. The Contractor is to accommodate these Service Providers and allow them to execute their work unhindered and allow them the use of water and toilet facilities. Damage caused by these Service Providers to work completed by the principal Contractor is to be recorded in detail to enable the Employer to counter-charge the direct Service Providers the cost of making good such damages.</p> |  |      |   |            |
| <b><u>Occupational Health and Safety Consultant</u></b>  |  |      |   |            |
| 7/2/16   | Allow an amount of R500 000.00 (Five Hundred Thousand) for provision of an Occupational Health and Safety Consultant | Item |   | 500 000.00 |
| 7/2/17   | Attendance   |      | % |            |
| 7/2/18   | Profit   |      | % |            |
| <b><u>Social Facilitator</u></b>   |  |      |   |            |
| 7/2/19   | Allow an amount of R306 000.00 (Three Hundred and Six Thousand) for provision of a Social Facilitator                | Item |   | 306 000.00 |
| <b>Carried Forward</b>   |  |      | R |            |
| Section No. 7<br>PROVISIONAL SUMS<br>Bill No. 2<br>Provisional Sums  |  |      |   |            |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

|  | <b>Brought Forward</b> |  |  | R |
|--|------------------------|--|--|---|
| 7/2/20   | Attendance             |  |  | % |
| 7/2/21   | Profit                 |  |  | % |
| <b>Carried Forward to Summary of Section No.</b> |                        |  |  | R |
| Section No. 7                                    |                        |  |  |   |
| PROVISIONAL SUMS                                 |                        |  |  |   |
| Bill No. 2                                       |                        |  |  |   |
| Provisional Sums                                 |                        |  |  |   |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| <b>Bill No</b> | <b><u>SECTION SUMMARY</u></b>     | <b>Page No</b> |  | <b>Amount</b> |
|----------------|-----------------------------------|----------------|--|---------------|
| 7/1            | Budgetary Allowance               | 7/2            |  |               |
| 7/2            | Provisional Sums                  | 7/6            |  |               |
|                |                                   |                |  |               |
|                |                                   |                |  |               |
|                | <b>Carried to Final Summary</b>   |                |  | R             |
|                | Section No. 7<br>PROVISIONAL SUMS |                |  |               |

| ITEM   | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|--|---|------|-----|------|--------|
| <b>1</b>   | <b><u>MV RETICULATION</u></b>   |      |     |      |        |
|  | Provide the sum of R 110 000.00 for the supply and<br>Install 25kVA 22kV or 11kV/400V pole mounted<br>transformer complete with structures and poles.<br>Supply and install fox conductor ACSR incl. meter Box<br>c/w 3-phase meter |      |     |      |        |
| 1.1  |   | Sum  | 1   |      |        |
| 1.2  | Profit  | %    | 10  |      |        |
| 1.3  | Attendense  | %    | 5   |      |        |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |   |      |     |      |        |

| ITEM                                    | DESCRIPTION   | UNIT | QTY    | RATE | TOTAL     |
|---|---|------|--------|------|-----------|
| <b>2</b>                                | <b><u>LV RETICULATION</u></b>   |      |        |      |           |
| 2.1                                     | Distribution Kiosks,<br>equipment as specified  |      |        |      |           |
| 2.1.1                                   | Main Kiosk  | No   | 1      |      |           |
| 2.1.2                                   | Plinth  | No   | 1      |      |           |
| 2.2                                     | Trenching<br><br>Excavating, bedding, backfilling, consolidating and<br>making good as specified,   |      |        |      |           |
| 2.2.1                                   | Pickable soil   | m³   | 140,00 |      |           |
| 2.2.2                                   | Hard rock   | m³   | 60,00  |      |           |
| 2.2.3                                   | Very hard rock  | m³   | -      |      | rate only |
| 2.2.4                                   | Backfilling and compaction  | m³   | 200,00 |      |           |
| 2.3                                     | 110mm dia PVC sleeves for road crossings/cable<br>entries into the building-rate must include for galv<br>steel draw wires in spare sleeves and sealing of ends | m    | 210    |      |           |
| 2.4                                     | Concrete slabs for crossing of other services - rate<br>must include installation 200mm below existing<br>services  | m    | 0      |      | rate only |
| 2.5                                     | Cable warning tape, 300mm above cables  | m    | 500    |      |           |
| 2.6                                     | Cable markers, above cables   | No   | 10     |      |           |
| 2.7                                     | 600/1000V PVC SWA cables,<br>in trenches and sleeves, including labels  |      |        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |      |        |      |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |   |    |     |  |
|--|---|----|-----|--|
| 2.7.1  | 25mm <sup>2</sup> 4core   | m  | 95  |  |
| 2.7.2  | 16mm <sup>2</sup> 2core   | m  | 385 |  |
| 2.7.3  | 10mm <sup>2</sup> 2core   | m  | 180 |  |
| 2.7.4  | 4mm <sup>2</sup> 2core  | m  | 170 |  |
| 2.7.5  | 600/1000V Cable terminations,<br>for PVC PVC SWA PVC Cu cables, for indoor or<br>outdoor<br>use, as required                      |    |     |  |
| 2.8  |   |    |     |  |
| 2.8.1  | Gland no 5 complete with shroud   | No | 4   |  |
| 2.8.2  | Gland no 3 complete with shroud   | No | 6   |  |
| 2.9  |   |    |     |  |
| 2.9.1  | Earth conductors (HDHC), including ends   |    |     |  |
| 2.9.2  | 25mm <sup>2</sup> 4core   | m  | 95  |  |
| 2.9.3  | 16mm <sup>2</sup> 2core   | m  | 385 |  |
| 2.9.4  | 10mm <sup>2</sup> 2core   | m  | 180 |  |
| 2.9.5  | 4mm <sup>2</sup> 2core  | m  | 170 |  |
| 2.10   | Testing of this section in the presence of<br>the Employer and/or the Engineer, including<br>all equipment, power generator, etc. | No | 1   |  |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |   |    |     |  |

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| <b>3</b>                                | <b><u>MEDIUM ADMINISTRATION BLOCK</u></b>   |                |          |      |           |
| <b>3.1</b>                              | General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services<br><br>Allowance must be made for the sifting of soil when required, removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried out as specified for overall siteworks. |                |          |      |           |
| 3.1.1                                   | Trenching through floor for sleeves   | m <sup>3</sup> |          |      | rate only |
| 3.1.2                                   | Excavation and backfilling in soft soil   | m <sup>3</sup> |          |      | rate only |
| 3.1.3                                   | Excavation and backfilling in hard rock   | m <sup>3</sup> |          |      | rate only |
| <b>3.2</b>                              | <b>Cable and Data Sleeves</b><br><br>Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends   |                |          |      |           |
| 3.2.1                                   | 75mm Diameter for Data  | m              |          |      | rate only |
| 3.2.2                                   | 110mm Diameter for power cable  | m              |          |      | rate only |
|   | Radius bends:   |                |          |      |           |
| 3.2.3                                   | 75mm Diameter   | No             |          |      | rate only |
| 3.2.4                                   | 110mm Diameter  | No             |          |      | rate only |
| <b>3.3</b>                              | <b>Draw Wires</b><br><br>Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation  |                |          |      |           |
| 3.3.1                                   |   | m              | 610      |      |           |
| <b>3.4</b>                              | <b>Distribution Boards</b><br><br>Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna   |                |          |      |           |
| 3.4.1                                   | Distribution Board (DB-ADM)   | No.            | 1        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |                |          |      |           |



| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |  |     |     |           |
|---|--|-----|-----|-----------|
| <b>3.5</b>                              | <b>Low Voltage PVC Cables</b><br>Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches  |     |     |           |
| 3.5.1                                   | 16mm 4 core PVC SWA Cable  | m   |     | rate only |
| 3.5.2                                   | 10mm BCEW  | m   |     | rate only |
|   | Terminations:  |     |     |           |
| 3.5.3                                   | 16mm 4 core cable  | No  | 2   |           |
| 3.5.4                                   | 10mm BCEW  | No  | 2   |           |
| <b>3.6</b>                              | <b>Conduit Work</b><br>Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.<br><br>Built or Chase into brick or concrete work:  |     |     |           |
| 3.6.1                                   | 20mm PVC Conduit   | m   | 110 |           |
| 3.6.2                                   | 25mm PVC Conduit   | m   | 200 |           |
|   | In Ceiling space and Timber work or along Purlins  |     |     |           |
| 3.6.3                                   | 20mm PVC Conduit   | m   | 210 |           |
| 3.6.4                                   | 25mm PVC Conduit   | m   | 70  |           |
| 3.6.5                                   | Girder clamp for chain and wire, STRUTFAST Type AH-1420  | No. |     | rate only |
| 3.6.6                                   | Conduit Boxes<br><br>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. |     |     |           |
| 3.6.7                                   | 20mm diameter 4 way type(round box)  | No  | 47  |           |
| 3.6.8                                   | 450 x 450mm Bonding tray in roof space   | No  |     | rate only |
| <b>3.7</b>                              | <b>Wall Boxes</b><br>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.<br><br>Flush mounted type:   |     |     |           |
| 3.7.1                                   | 100 x 50 x 50mm  | No  | 9   |           |
| 3.7.2                                   | 100 x 100 x 50mm   | No  | 17  |           |
| 3.7.3                                   | 88 x 275 x 62mm One tier cluster`  | No  | 4   |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |  |     |     |           |

| TOTAL FOR BILL - BROUGHT FORWARD        |   |    |     |  |           |
|---|---|----|-----|--|-----------|
| <b>3.8</b>                              | <b>PVC Wiring in conduits:</b>  |    |     |  |           |
| 3.8.1                                   | 2.5 mm <sup>2</sup> for lights circuits   | m  | 630 |  |           |
| 3.8.2                                   | 4 mm <sup>2</sup> for plug sockets circuits   | m  | 400 |  |           |
|   | Stranded Bare Copper Earth Wire   |    |     |  |           |
|   | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.  |    |     |  |           |
| 3.8.3                                   | 2.5 mm <sup>2</sup>   | m  | 630 |  |           |
| 3.8.3                                   | 4 mm <sup>2</sup>   | m  | 400 |  |           |
| <b>3.9</b>                              | <b>Light Switches</b>   |    |     |  |           |
|   | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas |    |     |  |           |
| 3.9.1                                   | 16A Single Lever Light Switch   | No | 8   |  |           |
| 3.9.2                                   | 2Way 16A Single Lever Light switch  | No | 2   |  |           |
| 3.9.3                                   | 2 Lever 2 way   | No |     |  | rate only |
| 3.9.4                                   | Outdoor Photocell Switch  | No | 1   |  |           |
| 3.9.5                                   | 90 degree motion sensor light switch  | No | 2   |  |           |
| <b>3.10</b>                             | <b>Socket Outlets</b>   |    |     |  |           |
|   | Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.                                      |    |     |  |           |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  |    |     |  |           |
|   | All flush type boxes and special pedestals measured elsewhere.  |    |     |  |           |
|   | Flush switched sockets type:  |    |     |  |           |
| 3.10.1                                  | SA/Euro 16A SOCKET OUTLET @1200 A.F.F.L   | No | 3   |  |           |
| 3.10.2                                  | SA/Euro 16A SOCKET OUTLET @300 A.F.F.L  | No | 13  |  |           |
| 3.10.3                                  | ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING:<br>- 16A NORMAL SOCKET UN-SWITCHED<br>- 16A DEDICATED SOCKET UN-SWITCHED<br>- 5A 2 PIN SOCKET UN-SWITCHED<br>- 2x RJ45 DATA & TELEPHONE POINTS   | No | 4   |  |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |    |     |  |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |   |     |    |  |           |
|--|---|-----|----|--|-----------|
| <b>3.11</b>  | <b>Light Fittings</b>   |     |    |  |           |
|  | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |     |    |  |           |
|  | Fittings to be equal and similar approved to the below quoted manufacture.  |     |    |  |           |
| 3.11.1   | 1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING   | No  | 13 |  |           |
| 3.11.2   | 8 Inch 15W LED DOWNLIGHT  | No  | 9  |  |           |
| 3.11.3   | 10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION  | No  | 2  |  |           |
| 3.11.4   | 15W LED ROUND BULKHEAD WITH DALI MODIFICATION   | No  | 8  |  |           |
| <b>3.12</b>  | <b>Electrical Tests</b>   |     |    |  |           |
|  | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.   |     |    |  |           |
| 3.12.1   | Building installation   | Sum | 1  |  |           |
| <b>3.13</b>  | <b>Others</b>   |     |    |  |           |
| 3.13.1   | 2 compartment power skirting installed in offices   | m   | 8  |  |           |
| 3.13.2   | Telephone points on Powerskirting; must include draw box, blank cover plate, etc,   | No  | 2  |  |           |
| 3.13.3   | Telephone points on Powerskirting; must include draw box, blank cover plate, etc,   | No  |    |  | rate only |
| 3.13.4   | Provide the sum of R15000-00 for earthing and lightning protection installations by specialist  | Sum | 1  |  |           |
| 3.13.5   | 20A 2pole Isolator, in suitable York Box, for HVAC  | No  | 2  |  |           |
| 3.13.6   | Supply and install a 150L Solar Water Geyser  | No  |    |  | rate only |
| 3.13.7   | Provide the sum of R5500-00 for the supply and installation of school motorised siren c/w timer   | Sum | 1  |  |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |   |     |    |  |           |

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| <b>4</b>                                | <b><u>4 CLASSROOM BLOCK</u></b>   |                |          |      |           |
| <b>4.1</b>                              | General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services<br><br>removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried                 |                |          |      |           |
| 4.1.1                                   | Trenching through floor for sleeves   | m <sup>3</sup> |          |      | rate only |
| 4.1.2                                   | Excavation and backfilling in soft soil   | m <sup>3</sup> |          |      | rate only |
| 4.1.3                                   | Excavation and backfilling in hard rock   | m <sup>3</sup> |          |      | rate only |
| <b>4.2</b>                              | <b>Cable and Data Sleeves</b>   |                |          |      |           |
|   | Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends  |                |          |      |           |
| 4.2.1                                   | 75mm Diameter for Data  | m              |          |      | rate only |
| 4.2.2                                   | 110mm Diameter for power cable  | m              |          |      | rate only |
|   | Radius bends:   |                |          |      |           |
| 4.2.3                                   | 75mm Diameter   | No             |          |      | rate only |
| 4.2.4                                   | 110mm Diameter  | No             |          |      | rate only |
| <b>4.3</b>                              | <b>Draw Wires</b>   |                |          |      |           |
|   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   |                |          |      |           |
| 4.3.1                                   |   | m              | 1000     |      |           |
| <b>4.4</b>                              | <b>Distribution Boards</b>  |                |          |      |           |
|   | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna |                |          |      |           |
| 4.4.1                                   | Distribution Board  | No.            | 1        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |                |          |      |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |  |     |     |  |           |
|---|--|-----|-----|--|-----------|
| <b>4.5</b>                              | <b>Low Voltage PVC Cables</b><br>Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches<br><br>Terminations:   |     |     |  |           |
| 4.5.1                                   | 16mm 2 core cable  | No  | 2   |  |           |
| 4.5.2                                   | 16mm BCEW  | No  | 2   |  |           |
| <b>4.6</b>                              | <b>Conduit Work</b><br>Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.<br><br>Built or Chase into brick or concrete work:  |     |     |  |           |
| 4.6.1                                   | 20mm PVC Conduit   | m   | 120 |  |           |
| 4.6.2                                   | 25mm PVC Conduit   | m   | 440 |  |           |
|   | In Ceiling space and Timber work or along Purlins  |     |     |  |           |
| 4.6.3                                   | 20mm PVC Conduit   | m   | 400 |  |           |
| 4.6.4                                   | 25mm PVC Conduit   | m   | 40  |  |           |
|   | Girder clamp for chain and wire, STRUTFAST Type AH-1420  | No. |     |  | rate only |
| 4.6.5                                   | Conduit Boxes<br><br>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. |     |     |  |           |
| 4.6.6                                   | 20mm diameter 4 way type(round box)  | No  | 50  |  |           |
| 4.6.7                                   | 450 x 450mm Bonding tray in roof space   | No  |     |  | rate only |
| <b>4.7</b>                              | <b>Wall Boxes</b><br>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.<br><br>Flush mounted type:   |     |     |  |           |
| 4.7.1                                   | 100 x 50 x 50mm  | No  | 8   |  |           |
| 4.7.2                                   | 100 x 100 x 50mm   | No  | 12  |  |           |
| 4.7.3                                   | 88 x 275 x 62mm one tier cluster   | No  | 4   |  |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |  |     |     |  |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |   |    |     |           |
|---|---|----|-----|-----------|
| <b>4.8</b>                              | <b>PVC Wiring in conduits:</b>  |    |     |           |
| 4.8.1                                   | 2.5 mm <sup>2</sup> for lights circuits   | m  | 800 |           |
| 4.8.2                                   | 4 mm <sup>2</sup> for plug sockets circuits   | m  | 470 |           |
|   | Stranded Bare Copper Earth Wire   |    |     |           |
|   | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.  |    |     |           |
| 4.8.3                                   | 2.5 mm <sup>2</sup>   | m  | 800 |           |
| 4.8.4                                   | 4 mm <sup>2</sup>   | m  | 470 |           |
| <b>4.9</b>                              | <b>Light Switches</b>   |    |     |           |
|   | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas |    |     |           |
| 4,9,1                                   | 16A Single Lever Light Switch   | No | 4   |           |
| 4,9,2                                   | 2Way 16A Single Lever Light switch  | No | 0   | rate only |
| 4,9,3                                   | 2 Lever 2 way   | No |     | rate only |
| 4,9,4                                   | Outdoor Photocell Switch  | No | 1   |           |
| <b>4.10</b>                             | <b>Socket Outlets</b>   |    |     |           |
|   | Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.                                      |    |     |           |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  |    |     |           |
|   | All flush type boxes and special pedestals measured elsewhere.  |    |     |           |
|   | Flush switched sockets type:  |    |     |           |
| 4.10.1                                  | SA/Euro 16A Socket Outlet @300 A.F.F.L  | No | 12  |           |
|   | ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING:<br>- 16A NORMAL SOCKET UN-SWITCHED<br>- 16A DEDICATED SOCKET UN-SWITCHED<br>- 5A 2 PIN SOCKET UN-SWITCHED<br>- 2x RJ45 DATA & TELEPHONE POINTS   |    |     |           |
| 4.10.2                                  |   | No | 4   |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |    |     |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |   |     |    |  |  |
|--|---|-----|----|--|--|
| <b>4.11</b>  | <b>Light Fittings</b>   |     |    |  |  |
|  | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |     |    |  |  |
|  | Fittings to be equal and similar approved to the below quoted manufacture.  |     |    |  |  |
| 4.11.1   | 1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING   | No  | 20 |  |  |
| 4.11.4   | 15W LED ROUND BULKHEAD WITH DALI MODIFICATION   | No  | 10 |  |  |
| <b>4.12</b>  | <b>Electrical Tests</b>   |     |    |  |  |
|  | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.   |     |    |  |  |
| 4.12.1   | Building installation   | Sum | 1  |  |  |
| <b>4.13</b>  | <b>Others</b>   |     |    |  |  |
| 4.13.1   | Provide the sum of R10000-00 for earthing and lightning protection installations by specialist  | Sum | 1  |  |  |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |   |     |    |  |  |

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| <b>5</b>                                | <b><u>GRADE R BLOCK (2 CLASSROOM)</u></b>   |                |          |      |           |
| <b>5.1</b>                              | General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services<br><br>removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried                 |                |          |      |           |
| 5.1.1                                   | Trenching through floor for sleeves   | m <sup>3</sup> |          |      | rate only |
| 5.1.2                                   | Excavation and backfilling in soft soil   | m <sup>3</sup> |          |      | rate only |
| 5.1.3                                   | Excavation and backfilling in hard rock   | m <sup>3</sup> |          |      | rate only |
| <b>5.2</b>                              | <b>Cable and Data Sleeves</b>   |                |          |      |           |
|   | Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends  |                |          |      |           |
| 5.2.1                                   | 75mm Diameter for Data  | m              |          |      | rate only |
| 5.2.2                                   | 110mm Diameter for power cable  | m              |          |      | rate only |
|   | Radius bends:   |                |          |      |           |
| 5.2.3                                   | 75mm Diameter   | No             |          |      | rate only |
| 5.2.4                                   | 110mm Diameter  | No             |          |      | rate only |
| <b>5.3</b>                              | <b>Draw Wires</b>   |                |          |      |           |
| 5.3.1                                   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   | m              | 790      |      |           |
| <b>5.4</b>                              | <b>Distribution Boards</b>  |                |          |      |           |
|   | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna |                |          |      |           |
| 5.4.1                                   | Distribution Board  | No.            | 1        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |                |          |      |           |



| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |  |     |     |  |           |
|---|--|-----|-----|--|-----------|
| <b>5.5</b>                              | <b>Low Voltage PVC Cables</b><br>Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches<br><br>Terminations:   |     |     |  |           |
| 5.5.3                                   | 10mm 2 core cable  | No  | 2   |  |           |
| 5.5.4                                   | 10mm BCEW  | No  | 2   |  |           |
| <b>5.6</b>                              | <b>Conduit Work</b><br>Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.<br><br>Built or Chase into brick or concrete work:  |     |     |  |           |
| 5.6.1                                   | 20mm PVC Conduit   | m   | 80  |  |           |
| 5.6.2                                   | 25mm PVC Conduit   | m   | 180 |  |           |
|   | In Ceiling space and Timber work or along Purlins  |     |     |  |           |
| 5.6.3                                   | 20mm PVC Conduit   | m   | 450 |  |           |
| 5.6.4                                   | 25mm PVC Conduit   | m   | 80  |  |           |
| 5.6.5                                   | Girder clamp for chain and wire, STRUTFAST Type AH-1420  | No. |     |  |           |
| 5.6.6                                   | Conduit Boxes<br><br>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. |     |     |  |           |
| 5.6.7                                   | 20mm diameter 4 way type(round box)  | No  | 30  |  |           |
| 5.6.8                                   | 450 x 450mm Bonding tray in roof space   | No  |     |  | rate only |
| <b>5.7</b>                              | <b>Wall Boxes</b><br>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.<br><br>Flush mounted type:   |     |     |  |           |
| 5.7.1                                   | 100 x 50 x 50mm  | No  | 8   |  |           |
| 5.7.2                                   | 100 x 100 x 50mm   | No  | 10  |  |           |
| 5.7.3                                   | 88 x 275 x 62mm one tier cluster   | No  | 2   |  |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |  |     |     |  |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |   |    |     |           |
|---|---|----|-----|-----------|
| <b>5.8</b>                              | <b>PVC Wiring in conduits:</b>  |    |     |           |
| 5.8.1                                   | 2.5 mm <sup>2</sup> for lights circuits   | m  | 350 |           |
| 5.8.2                                   | 4 mm <sup>2</sup> for plug sockets circuits   | m  | 250 |           |
|   | Stranded Bare Copper Earth Wire   |    |     |           |
|   | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.  |    |     |           |
| 5.8.3                                   | 2.5 mm <sup>2</sup>   | m  | 350 |           |
| 5.8.4                                   | 4 mm <sup>2</sup>   | m  | 250 |           |
| <b>5.9</b>                              | <b>Light Switches</b>   |    |     |           |
|   | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas |    |     |           |
| 5.9.1                                   | 16A Single Lever Light Switch   | No | 7   |           |
| 5.9.2                                   | 2Way 16A Single Lever Light switch  | No | 2   |           |
| 5.9.3                                   | 2 Lever 2 way   | No |     | rate only |
| 5.9.4                                   | Outdoor Photocell Switch  | No | 1   |           |
| <b>5.10</b>                             | <b>Socket Outlets</b>   |    |     |           |
|   | Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.                                      |    |     |           |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  |    |     |           |
|   | All flush type boxes and special pedestals measured elsewhere.  |    |     |           |
|   | Flush switched sockets type:  |    |     |           |
| 5.10.1                                  | SA/Euro 16A Socket Outlet @300 A.F.F.L  | No | 6   |           |
| 5.10.2                                  | ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING:<br>- 16A NORMAL SOCKET UN-SWITCHED<br>- 16A DEDICATED SOCKET UN-SWITCHED<br>- 5A 2 PIN SOCKET UN-SWITCHED<br>- 2x RJ45 DATA & TELEPHONE POINTS   | No | 2   |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |    |     |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |   |     |    |          |           |
|--|---|-----|----|----------|-----------|
| <b>5.11</b>  | <b>Light Fittings</b>   |     |    |          |           |
|  | Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |     |    |          |           |
|  | Fittings to be equal and similar approved to the below quoted manufacture.  |     |    |          |           |
| 5.11.1   | 1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING   | No  | 12 |          |           |
| 5.11.2   | 15W LED ROUND BULKHEAD WITH DALI MODIFICATION   | No  | 8  |          |           |
| 5.11.3   | 10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION  | No  | 12 |          |           |
| 5.11.4   | Type B1: Wall mounted bulkhead 2x 18W CFL   | No  |    |          | rate only |
| <b>5.12</b>  | <b>Electrical Tests</b>   |     |    |          |           |
|  | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.   |     |    |          |           |
| 5.12.1   | Building installation   | Sum | 1  |          |           |
| <b>5.13</b>  | <b>Others</b>   |     |    |          |           |
| 5.13.1   | Provide the sum of R7000-00 for earthing and lightning protection installations by specialist   | Sum | 1  | 7 000,00 | 7 000,00  |
| 5.13.2   | 20A 2pole Isolator, in suitable York Box, for HVAC  | No  | 2  |          |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |   |     |    |          |           |

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| <b>6</b>                                | <b><u>6 CLASSROOM BLOCK</u></b>   |                |          |      |           |
| <b>6.1</b>                              | General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services<br><br>removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried                 |                |          |      |           |
| 6.1.1                                   | Trenching through floor for sleeves   | m <sup>3</sup> |          |      | rate only |
| 6.1.2                                   | Excavation and backfilling in soft soil   | m <sup>3</sup> |          |      | rate only |
| 6.1.3                                   | Excavation and backfilling in hard rock   | m <sup>3</sup> |          |      | rate only |
| <b>6.2</b>                              | <b>Cable and Data Sleeves</b>   |                |          |      |           |
|   | Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends  |                |          |      |           |
| 6.2.1                                   | 75mm Diameter for Data  | m              |          |      | rate only |
| 6.2.2                                   | 110mm Diameter for power cable  | m              |          |      | rate only |
|   | Radius bends:   |                |          |      |           |
| 6.2.3                                   | 75mm Diameter   | No             |          |      | rate only |
| 6.2.4                                   | 110mm Diameter  | No             |          |      | rate only |
| <b>6.3</b>                              | <b>Draw Wires</b>   |                |          |      |           |
| 6.3.1                                   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   | m              | 1120     |      |           |
| <b>6.4</b>                              | <b>Distribution Boards</b>  |                |          |      |           |
|   | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna |                |          |      |           |
| 6.4.1                                   | Distribution Board  | No.            | 1        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |                |          |      |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |  |     |     |           |
|---|--|-----|-----|-----------|
| <b>6.5</b>                              | <b>Low Voltage PVC Cables</b><br>Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches  |     |     |           |
| 6.5.1                                   | 10mm 4 core PVC SWA Cable  | m   |     | rate only |
| 6.5.2                                   | 10mm BCEW  | m   |     | rate only |
|   | Terminations:  |     |     |           |
| 6.5.3                                   | 10mm 4 core cable  | No  | 2   |           |
| 6.5.4                                   | 10mm BCEW  | No  | 2   |           |
| <b>6.6</b>                              | <b>Conduit Work</b><br>Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.<br><br>Built or Chase into brick or concrete work:  |     |     |           |
| 6.6.1                                   | 20mm PVC Conduit   | m   | 100 |           |
| 6.6.2                                   | 25mm PVC Conduit   | m   | 100 |           |
|   | In Ceiling space and Timber work or along Purlins  |     |     |           |
| 6.6.3                                   | 20mm PVC Conduit   | m   | 500 |           |
| 6.6.4                                   | 25mm PVC Conduit   | m   | 400 |           |
| 6.6.5                                   | Girder clamp for chain and wire, STRUTFAST Type AH-1420  | No. |     | rate only |
| 6.6.6                                   | Conduit Boxes<br>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. |     |     |           |
| 6.6.7                                   | 20mm diameter 4 way type(round box)  | No  | 60  |           |
| 6.6.8                                   | 450 x 450mm Bonding tray in roof space   | No  |     | rate only |
| <b>6.7</b>                              | <b>Wall Boxes</b><br>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.<br><br>Flush mounted type:   |     |     |           |
| 6.7.1                                   | 100 x 50 x 50mm  | No  | 6   |           |
| 6.7.2                                   | 100 x 100 x 50mm   | No  | 12  |           |
| 6.7.3                                   | 88 x 275 x 62mm One tier cluster`  | No  | 6   |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |  |     |     |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |   |    |     |  |
|---|---|----|-----|--|
| <b>6.8</b>                              | <b>PVC Wiring in conduits:</b>  |    |     |  |
| 6.8.1                                   | 2.5 mm <sup>2</sup> for lights circuits   | m  | 650 |  |
| 6.8.2                                   | 4 mm <sup>2</sup> for plug sockets circuits   | m  | 550 |  |
|   | Stranded Bare Copper Earth Wire   |    |     |  |
|   | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.  |    |     |  |
| 6.8.3                                   | 2.5 mm <sup>2</sup>   | m  | 650 |  |
| 6.8.4                                   | 4 mm <sup>2</sup>   | m  | 550 |  |
| <b>6.9</b>                              | <b>Light Switches</b>   |    |     |  |
|   | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas |    |     |  |
| 6.9.1                                   | 16A Single Lever Light Switch   | No | 6   |  |
| 6.9.2                                   | Outdoor Photocell Switch  | No | 1   |  |
| <b>6.10</b>                             | <b>Socket Outlets</b>   |    |     |  |
|   | Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.                                      |    |     |  |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  |    |     |  |
|   | All flush type boxes and special pedestals measured elsewhere.  |    |     |  |
|   | Flush switched sockets type:  |    |     |  |
| 6.10.1                                  | SA/Euro 16A Socket Outlet @300 A.F.F.L  | No | 12  |  |
| 6.10.2                                  | ONE TIER CLUSTER WALL BOX CONSISTING OF THE FOLLOWING:<br>- 16A NORMAL SOCKET UN-SWITCHED<br>- 16A DEDICATED SOCKET UN-SWITCHED<br>- 5A 2 PIN SOCKET UN-SWITCHED<br>- 2x RJ45 DATA & TELEPHONE POINTS   | No | 6   |  |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |    |     |  |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |  |     |    |           |                    |
|--|--|-----|----|-----------|--------------------|
| <b>6.11</b>  | <b>Light Fittings</b>  |     |    |           |                    |
|  | Supply, delievery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories. |     |    |           |                    |
|  | Fittings to be equal and similar approved to the below quoted manufacture.   |     |    |           |                    |
| 6.11.1   | 1200mm 34W LED IP66 CORROSION PROOF LIGHT FITTING  | No  | 24 |           |                    |
| 6.11.2   | 15W LED ROUND BULKHEAD WITH DALI MODIFICATION  | No  | 10 |           |                    |
| <b>6.12</b>  | <b>Electrical Tests</b>  |     |    |           |                    |
|  | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  |     |    |           |                    |
| 6.12.1   | Building installation  | Sum | 1  |           |                    |
| <b>6.13</b>  | <b>Others</b>  |     |    |           |                    |
| 6.13.1   | Provide the sum of R10000-00 for earthing and lightning protection installations by specialist   | Sum | 1  | 10 000,00 | 10 000,00          |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |  |     |    |           | <b>R 10 000,00</b> |

| ITEM                                    | DESCRIPTION   | UNIT           | QUANTITY | RATE | AMOUNT    |
|---|---|----------------|----------|------|-----------|
| <b>7</b>                                | <b><u>ABLUTION BLOCK (4 SEATER)</u></b>   |                |          |      |           |
| <b>7.1</b>                              | General trenching work for sleeves along the routes as pegged out on site after co-ordination with other services<br><br>removal and carting away of all stones and rocks including dumping off site. Backfilling and compaction shall be carried                 |                |          |      |           |
| 7.1.1                                   | Trenching through floor for sleeves   | m <sup>3</sup> |          |      | rate only |
| 7.1.2                                   | Excavation and backfilling in soft soil   | m <sup>3</sup> |          |      | rate only |
| 7.1.3                                   | Excavation and backfilling in hard rock   | m <sup>3</sup> |          |      | rate only |
| <b>7.2</b>                              | <b><u>Cable and Data Sleeves</u></b>  |                |          |      |           |
|   | Supply and installation of PVC Sleeves through floor construction to power distribution board and communication board complete with standard radius sleeve bends  |                |          |      |           |
| 7.2.1                                   | 75mm Diameter for Data  | m              |          |      | rate only |
| 7.2.2                                   | 113mm Diameter for power cable  | m              |          |      | rate only |
|   | Radius bends:   |                |          |      |           |
| 7.2.3                                   | 75mm Diameter   | No             |          |      | rate only |
| 7.2.4                                   | 113mm Diameter  | No             |          |      | rate only |
| <b>7.3</b>                              | <b><u>Draw Wires</u></b>  |                |          |      |           |
| 7.3.1                                   | Supply and install a 0,6mm diameter galvanised draw wire in sleeves and conduit for data installation   | m              | 50       |      |           |
| <b>7.4</b>                              | <b><u>Distribution Boards</u></b>   |                |          |      |           |
|   | Supply, delivery, storage and submission of workshop drawings for the Flush mounted architrave steel type power distribution boards complete with flush trays, doors, switch gear mounting trays, copper busbars, neutral and earth bars, correctly sized interna |                |          |      |           |
| 7.4.1                                   | Distribution Board (DB-ADM)   | No.            | 1        |      |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |                |          |      |           |



| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |  |     |    |           |
|---|--|-----|----|-----------|
| <b>7.5</b>                              | <b>Low Voltage PVC Cables</b><br>Supply and installation of PVC SWA PVC cable which is quantified under LV Reticulation and Bare Copper Earth Wire in sleeves and in trenches  |     |    |           |
| 7.5.1                                   | 4mm 2 core PVC SWA Cable   | m   |    | rate only |
| 7.5.2                                   | 4mm BCEW   | m   |    | rate only |
|   | Terminations:  |     |    |           |
| 7.5.3                                   | 4mm 2core cable  | No  | 2  |           |
| 7.5.4                                   | 4mm BCEW   | No  | 2  |           |
| <b>7.6</b>                              | <b>Conduit Work</b><br>Supply, delivery and installation of SABS approved PVC / Galvanised Conduits completed with all required conduit accessories.<br><br>Built or Chase into brick or concrete work:  |     |    |           |
| 7.6.1                                   | 20mm PVC Conduit   | m   |    | rate only |
| 7.6.2                                   | 25mm PVC Conduit   | m   | 15 |           |
|   | In Ceiling space and Timber work or along Purlins  |     |    |           |
| 7.6.3                                   | 20mm PVC Conduit   | m   | 10 |           |
| 7.6.4                                   | 25mm PVC Conduit   | m   |    | rate only |
| 7.6.5                                   | Girder clamp for chain and wire, STRUTFAST Type AH-11320   | No. |    | rate only |
|   | Conduit Boxes<br>Supply and installation of SABS approved conduit boxes, installed in the run of the conduit installation, cast into concrete and built into brickwork or flush inside false ceiling spaces, complete with all required conduit termination accessories. |     |    |           |
| 7.6.6                                   | 20mm diameter 13 way type(round box)   | No  | 7  |           |
| 7.6.7                                   | 1350 x 1350mm Bonding tray in roof space   | No  |    | rate only |
| <b>7.7</b>                              | <b>Wall Boxes</b><br>Supply and installation of SABS approved galvanised pressed steel wall boxes for building flush into brickwork or cast into concrete work.<br><br>Flush mounted type:   |     |    |           |
| 7.7.1                                   | 100 x 50 x 50mm  | No  | 2  |           |
| 7.7.2                                   | 100 x 100 x 50mm   | No  | 2  |           |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |  |     |    |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b> |   |    |    |           |
|---|---|----|----|-----------|
| <b>7.8</b>                              | <b>PVC Wiring in conduits:</b>  |    |    |           |
| 7.8.1                                   | 2.5 mm <sup>2</sup> for lights circuits   | m  | 20 |           |
| 7.8.2                                   | 4 mm <sup>2</sup> for plug sockets circuits   | m  |    | rate only |
|   | Stranded Bare Copper Earth Wire   |    |    |           |
|   | Supply and installation of stranded bare copper earth wire along with PVC wiring in conduits. Tendered rates shall make provision for wastage.  |    |    |           |
| 7.8.3                                   | 2.5 mm <sup>2</sup>   | m  | 20 |           |
| 7.8.4                                   | 4 mm <sup>2</sup>   | m  |    | rate only |
| <b>7.9</b>                              | <b>Light Switches</b>   |    |    |           |
|   | Supply and installation of SABS approved type 16A flush and surface type light switches. Final paint finishes shall be confirmed at a later stage, allowance shall however be made as specified in the general specification. All boxes for flush mounting meas |    |    |           |
| 7.9.1                                   | 1 Lever 1 way   | No | 2  |           |
| 7.9.2                                   | 1 Lever 2 way   | No |    | rate only |
| 7.9.3                                   | 2 Lever 2 way   | No |    | rate only |
| 7.9.4                                   | Outdoor Photocell Switch  | No | 1  |           |
| <b>7.10</b>                             | <b>Socket Outlets</b>   |    |    |           |
|   | Supply and installation of SABS approved switched and unswitched type flush and surface mounted type 16A switched socket outlets suitable for mounting in flush steel wall boxes or in steel pedestal units or on surface.                                      |    |    |           |
|   | The final colour of the paint finish shall be confirmed at a later stage, allowance shall be made as specified in the specification.  |    |    |           |
|   | All flush type boxes and special pedestals measured elsewhere.  |    |    |           |
|   | Flush switched sockets type:  |    |    |           |
| 7.10.1                                  | SA/Euro 16A Socket Outlet @300 A.F.F.L  | No |    | rate only |
| <b>TOTAL FOR BILL - CARRIED FORWARD</b> |   |    |    |           |

| <b>TOTAL FOR BILL - BROUGHT FORWARD</b>            |  |     |   |          |           |
|--|--|-----|---|----------|-----------|
| <b>7.11</b>  | <b>Light Fittings</b>  |     |   |          |           |
|  | <p>Supply, delivery to site, storage and installation of the below specified light fittings complete with lamps, fixing material, mounting and tubes. Allowance must be made in the rates for all the required fixing materials and accessories.</p> <p>Fittings to be equal and similar approved to the below quoted manufacture.</p> |     |   |          |           |
| 7.11.1   | 1200mm 313W LED IP66 CORROSION PROOF LIGHT FITTING   | No  |   |          |           |
| 7.11.2   | 13W LED RONDO DOWNLIGHT WITH DALI MODIFICATION   | No  | 4 |          |           |
| 7.11.3   | 10W LED RONDO DOWNLIGHT WITH DALI MODIFICATION   | No  | 4 |          |           |
| 7.11.4   | Type D1: 17 W Ceiling mounted downlighter  | No  |   |          | rate only |
|  | Type B1: Wall mounted bulkhead 2x 17W CFL  | No  |   |          | rate only |
| <b>7.12</b>  | <b>Electrical Tests</b>  |     |   |          |           |
|  | Making provision for the required inspection, tests and the commissioning of the complete installation and the issuing of the required certificate.  |     |   |          |           |
| 7.12.1   | Building installation  | Sum | 1 |          |           |
| <b>7.13</b>  | <b>Others</b>  |     |   |          |           |
| 7.13.1   | 2 compartment power skirting installed in offices  | m   |   |          | rate only |
| 7.13.2   | Provide the sum of R2500-00 for earthing and lightning protection installations by specialist  | Sum | 1 | 2 500,00 | 2 500,00  |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |  |     |   |          |           |

| ITEM                      | DESCRIPTION   | UNIT | QUANTITY | RATE | AMOUNT |
|---------------------------|---|------|----------|------|--------|
| <b>8</b>                  | <b>Area Lighting</b>  |      |          |      |        |
| <b>8.1</b>                | Supply and installation of SABS approved light fittings as per the specification, complete with lamps, mounted as described including accessories necessary to complete the mounting as specified and are measured separately |      |          |      |        |
| 8.1.1                     | 3,5m Steel Pole with brackets and foundation bolts including Delivery to Site and offloading  | Sum  | 4        |      |        |
| 8.1.2                     | 54W LED Post Top 4000K as described including accessories   | no.  | 4        |      |        |
| 8.1.3                     | 22W LED Vapour Proof Light Fitting IP65   | No   | 6        |      |        |
| <b>8.2</b>                | <b>Cabling</b>  |      |          |      |        |
|                           | <b>PVC Wiring :</b>   |      |          |      |        |
| 8.2.1                     | 4mm <sup>2</sup> x 2core copper cable   | m    | 300      |      |        |
| 8.2.2                     | 4mm <sup>2</sup> bare copper earth wire (BCEW)  | m    | 300      |      |        |
| <b>8.3</b>                | <b>TESTING AND COMISSIONING</b>   |      |          |      |        |
| 8.3.1                     | Testing and comissioning of the entire medium and low voltage network and area lighting including the provision of all test equipment required and issuing of a certificate of compliance for the installation.               | Sum  | 1        |      |        |
| <b>CARRIED TO SUMMARY</b> |   |      |          |      |        |

| ITEM   | DESCRIPTION  | UNIT | QTY | RATE        | AMOUNT              |
|--|--|------|-----|-------------|---------------------|
| <b>9</b>   | <b><u>PROVISIONAL AMOUNTS : ICT</u></b>  |      |     |             |                     |
| 9.1  | Provide the sum of R 86 956.50 for the instalation of Information and Communication Technologies by specialist service provider in consultation with the Engineer/Consultant | Sum  | 1   | R 86 956,50 | R 86 956,50         |
| 9.2  | Profit   | %    | 10  | R 8 695,65  | R 8 695,65          |
| 9.3  | Attendense   | %    | 5   | R 8 688,00  | R 8 688,00          |
| <b>TOTAL FOR BILL - CARRIED FORWARD TO SUMMARY</b> |  |      |     |             | <b>R 100 000,00</b> |

**PHAPHAMANI PRIMARY SCHOOL****SUMMARY: ELECTRICAL WORKS**

| SECTION                         | DESCRIPTION           | QTY | AMOUNT | TOTAL |
|---------------------------------|-----------------------|-----|--------|-------|
| 1                               | MV Reticulation       | SUM |        |       |
| 2                               | LV Reticulation       | Lot |        |       |
| 3                               | Administration        | 1   |        |       |
| 4                               | Four classroom blocks | 1   |        |       |
| 5                               | 2 Classroom Grade R   | 1   |        |       |
| 6                               | Six Classrom Blocks   | 1   |        |       |
| 7                               | 4 Seater Ablution     | 6   |        |       |
| 8                               | Area Lighting         | SUM |        |       |
| 9                               | Provisional Sum: ICT  | SUM |        |       |
|                                 | <b>SUB TOTAL 1</b>    |     |        |       |
| <b>TOTAL BID PRICE VAT INCL</b> |                       |     |        |       |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT | QTY    | RATE | AMOUNT |
|-----|------|----|------|--|------|--------|------|--------|
| 3   | 1    | 70 |      | <b>SECTION NO. 3</b>   |      |        |      |        |
| 3   | 1    | 70 |      | <b>BILL NO.1</b>   |      |        |      |        |
| 3   | 1    | 70 |      | <b>BULK EARTHWORKS</b>   |      |        |      |        |
| 3   | 1    | 70 |      | Preambles  | H4   |        |      |        |
| 3   | 1    | 70 |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |      |        |      |        |
| 3   | 1    | 70 |      | <u>SUPPLEMENTARY PREAMBLES</u>   | H4   |        |      |        |
| 3   | 1    | 70 |      | <u>Items, materials or methods</u>   | H4   |        |      |        |
| 3   | 1    | 70 |      | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect. |      |        |      |        |
| 3   | 1    | 70 |      | <u>Excavations</u>   | H4   |        |      |        |
| 3   | 1    | 70 |      | No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling<br><br>"Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008   |      |        |      |        |
| 3   | 1    | 70 |      | <u>WORK GROUP 102</u>  | H4   |        |      |        |
| 3   | 1    | 70 |      | <b><u>SITE CLEARANCE</u></b>   | H2   |        |      |        |
| 3   | 1    | 70 | 2    | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc   | m2   | 32 256 |      |        |
| 3   | 1    | 70 |      | <b><u>Extra over all excavations for carting away</u></b>  | H3   |        |      |        |
| 3   | 1    | 70 | 3    | Surplus material from excavations or stock piles on site to a dumping site to be located by the Contractor   | m.km | 6 451  |      |        |
| 3   | 1    | 70 |      | <b><u>EARTHWORKS</u></b>   | H2   |        |      |        |
| 3   | 1    | 70 |      | <b><u>Bulk excavation</u></b>  | H3   |        |      |        |
| 3   | 1    | 70 | 4    | Excavate in all materials and use for embankment or fill or dispose, as ordered  | m3   | 3 226  |      |        |
| 3   | 1    | 70 |      | <b><u>Extra-over for</u></b>   | H3   |        |      |        |
| 3   | 1    | 70 | 5    | Intermediate for excavation  | m3   | 806    |      |        |
| 3   | 1    | 70 | 6    | Hard rock excavation   | m3   | 161    |      |        |
| 3   | 1    | 70 |      | <b><u>Restricted Excavation</u></b>  | H3   |        |      |        |
| 3   | 1    | 70 | 7    | Excavate for restricted pipe trenches in all A.2.4 materials and use for backfill or dispose   | m3   | 0      |      |        |
| 3   | 1    | 71 |      | <b><u>Import G5 or better material from the Commercial source or borrowpit for Selected layers compacted to 95% of modified AASHTO maximum density</u></b>   | H3   |        |      |        |
| 3   | 1    | 71 | 8    | 150mm thick  | m3   | 3 226  |      |        |
| 3   | 1    | 71 | 9    | Overhaul   | m.km | 16 128 |      |        |
| 3   | 1    | 71 |      | <b><u>LOFFELSTEIN RETAINING WALLS</u></b>  | H2   |        |      |        |
| 3   | 1    | 71 | 10   | InfraBlok 425 (425x340x225) Waterloffel or other approved retaining wall stepped and curved to suit required slopes  | m2   | 276    |      |        |
|     |      |    |      | <b>BULK EARTHWORKS</b>   | ST   |        |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-----|------|----|------|--|------|-----|------|--------|
| 3   | 2    | 73 |      | <b>SECTION NO. 3</b>   |      |     |      |        |
| 3   | 2    | 73 |      | <b>BILL NO.2</b>   |      |     |      |        |
| 3   | 2    | 73 |      | <b>WATER SUPPLY</b>  |      |     |      |        |
| 3   | 2    | 73 |      | <u>Preambles</u>   | H4   |     |      |        |
| 3   | 2    | 73 |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |      |     |      |        |
| 3   | 2    | 73 |      | <u>SUPPLEMENTARY PREAMBLES</u>   | H4   |     |      |        |
| 3   | 2    | 73 |      | <u>Items, materials or methods</u>   | H4   |     |      |        |
| 3   | 2    | 73 |      | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.   |      |     |      |        |
| 3   | 2    | 73 |      | <u>uPVC Pressure pipes and fittings</u>  | H4   |     |      |        |
| 3   | 2    | 73 |      | Pipes for water supply shall be of the class stated<br><br>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings<br><br>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints   |      |     |      |        |
| 3   | 2    | 73 |      | <u>Copper pipes</u>  | H4   |     |      |        |
| 3   | 2    | 73 |      | Pipes shall be hard drawn and half-hard pipes of the class stated<br><br>Class 0 (thin walled hard drawn) pipes shall not be bent<br><br>Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers<br><br>Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type<br><br>Capillary solder fittings shall comply with ISO 2016<br><br>Only compression fittings shall be used in walls or in ground |      |     |      |        |
| 3   | 2    | 73 |      | <u>Lead pipes and traps</u>  | H4   |     |      |        |
| 3   | 2    | 73 |      | All soldered joints shall be wiped and brass unions shall be used for jointing lead to steel   |      |     |      |        |
| 3   | 2    | 74 |      | <u>Reducing fittings</u>   | H4   |     |      |        |
| 3   | 2    | 74 |      | Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained   |      |     |      |        |
| 3   | 2    | 74 |      | <u>Steel sectional water tanks</u>   | H4   |     |      |        |
| 3   | 2    | 74 |      | Tanks shall comply with SABS CKS 114   |      |     |      |        |
| 3   | 2    | 74 |      | <u>WORK GROUP 104</u>  | H4   |     |      |        |
| 3   | 2    | 74 |      | <b><u>EARTHWORKS (PIPE TRENCHES)</u></b>   | H2   |     |      |        |
| 3   | 2    | 74 |      | <b><u>Site clearance and removal of topsoil</u></b>  | H3   |     |      |        |
| 3   | 2    | 74 | 1    | Clear vegetation and small trees/shrubs up 2m wide   | m    | 825 |      |        |
| 3   | 2    | 74 |      | <b><u>Excavate in all materials for trenches, backfill, compact and dispose of surplus material for water pipes up to 90mm in diameter for depths:</u></b>   | H2   |     |      |        |
| 3   | 2    | 74 | 2    | From 0m Up to 1.5m   | m    | 825 |      |        |



| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-----|------|----|------|--|------|-----|------|--------|
| 3   | 2    | 74 |      | <u>Extra-over item (a) above for:</u>  | H3   |     |      |        |
| 3   | 2    | 74 | 3    | Intermediate excavation  | m3   | 149 |      |        |
| 3   | 2    | 74 | 4    | Hard rock excavation   | m3   | 22  |      |        |
| 3   | 2    | 74 |      | <u>Extra over all excavations for carting away</u>   | H3   |     |      |        |
| 3   | 2    | 74 | 5    | Surplus material from trench excavations to a dumping site to be located by the Contractor                   | m3   | 52  |      |        |
| 3   | 2    | 74 |      | <u>Excavation ancillaries</u>  | H3   |     |      |        |
| 3   | 2    | 74 |      | <u>Make up deficiency in backfill material</u>   | H3   |     |      |        |
| 3   | 2    | 74 | 6    | From other necessary excavations on site   | m3   | 52  |      |        |
| 3   | 2    | 74 | 7    | By importation from designated borrow pits   | m3   |     |      |        |
| 3   | 2    | 74 | 8    | Compaction in road reserves  | m    |     |      |        |
| 3   | 2    | 74 |      | <u>WORK GROUP 148</u>  | H4   |     |      |        |
| 3   | 2    | 74 |      | <u>MEDIUM PRESSURE PIPELINES</u>   | H2   |     |      |        |
| 3   | 2    | 74 |      | <u>Supply, lay and bed pipes complete with couplings</u>   | H3   |     |      |        |
| 3   | 2    | 74 | 9    | 50mm diameter uPVC Class 9 pipes   | m    | 0   |      |        |
| 3   | 2    | 74 | 10   | 50mm diameter uPVC Class 12 pipes  | m    | 0   |      |        |
| 3   | 2    | 74 | 11   | 63mm diameter uPVC Class 9 pipes   | m    | 0   |      |        |
| 3   | 2    | 74 | 12   | 63mm diameter uPVC Class 12 pipes  | m    |     |      |        |
| 3   | 2    | 74 | 13   | 75mm diameter uPVC Class 9 pipes   | m    | 0   |      |        |
| 3   | 2    | 74 | 14   | 75mm diameter uPVC Class 12 pipes  | m    | 350 |      |        |
| 3   | 2    | 74 | 15   | 90mm diameter uPVC Class 12 pipes  | m    | 475 |      |        |
| 3   | 2    | 74 | 16   | 65mm Pressure Reducing Valve   | No   |     |      |        |
| 3   | 2    | 74 | 17   | 75mm Pressure Reducing Valve   | No   |     |      |        |
| 3   | 2    | 74 |      | <u>BEDDING (PIPES)</u>   | H2   |     |      |        |
| 3   | 2    | 74 |      | <u>Provision of Bedding from Trench Excavation</u>   | H3   |     |      |        |
| 3   | 2    | 74 | 18   | Selected granular material   | m3   | 297 |      |        |
| 3   | 2    | 74 | 19   | Selected fill material   | m3   | 495 |      |        |
| 3   | 2    | 74 |      | <u>ELEVATED STEEL TANK PLUS STAND</u>  | H2   |     |      |        |
| 3   | 2    | 75 |      | <u>The following in sectional steel water tanks and bases</u>  | H3   |     |      |        |
| 3   | 2    | 75 | 20   | Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced                        | m2   | 27  |      |        |
| 3   | 2    | 75 | 21   | Concrete for footings class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer | m3   | 5   |      |        |
| 3   | 2    | 75 | 22   | Supply, deliver to site and erect 75KL Prestressed steel tank complete with 6m stand,                        | No   | 1   |      |        |
| 3   | 2    | 75 | 23   | Supply and install 50 mm dia Water Meter   | No   | 0   |      |        |
| 3   | 2    | 75 | 24   | Supply and install 63 mm dia Water Meter   | No   | 0   |      |        |
| 3   | 2    | 75 | 25   | 90 x 90 mm T piece section   | No   | 25  |      |        |
| 3   | 2    | 75 | 26   | 90mm diam. Gate valve  | No   | 2   |      |        |
| 3   | 2    | 75 | 27   | 75 mm diam. Gate valve   | No   | 2   |      |        |
| 3   | 2    | 75 | 28   | Supply and install 75mm X 32mm dia Saddles   | No   | 28  |      |        |
| 3   | 2    | 75 | 29   | 32 mm diam. Gate valve   | No   | 0   |      |        |
| 3   | 2    | 75 | 30   | Ref. 617 welded mesh in floor/walls/footing/slab   | m2   | 60  |      |        |
| 3   | 2    | 75 | 31   | Supply and install a 5mm (1000 x 1000) Vastrap plate cover and frame for the opening in the reservoir roof   | m2   | 0   |      |        |

| SEC      | BILL     | PG        | ITEM | DESCRIPTION  | UNIT      | QTY | RATE | AMOUNT |
|----------|----------|-----------|------|--|-----------|-----|------|--------|
| 3        | 2        | 75        | 32   | Half brick wall including wire ties  | m2        | 0   |      |        |
| 3        | 2        | 75        | 33   | Supply and install 75mm dia Resilient Seal Flanged Gate Valve (with rising spindle and handwheel, clockwise closing)   | No        | 0   |      |        |
| 3        | 2        | 75        | 34   | 1000mm long X 150mm diameter steel pipe, flanged both ends, 250mm flanged pipe with a 150 x 100 bellmouth, plain ended overflow pipe   | No        | 0   |      |        |
| 3        | 2        | 75        | 35   | 100mm flanged steel pipe with a 90 degree welded long radius bend  | No        | 0   |      |        |
| 3        | 2        | 75        | 36   | 1500 x 100mm flanged steel pipe with welded flanges both ends  | No        | 0   |      |        |
| 3        | 2        | 75        | 37   | Sitting, Drilling and Equiping of new borehole   | No        | 1   |      |        |
| <b>3</b> | <b>2</b> | <b>75</b> |      | <b><u>TESTING</u></b>  | <b>H2</b> |     |      |        |
| 3        | 2        | 75        | 38   | Testing of yield and water quality of existing borehole and supply and install water package plant as per specialist recommendation  | No        | 1   |      |        |
| 3        | 2        | 75        | 39   | Testing water pipe system  | Item      | 1   |      |        |
| <b>3</b> | <b>2</b> | <b>75</b> |      | <b><u>FIRE BOOSTER PUMP</u></b>  | <b>H3</b> |     |      |        |
| 3        | 2        | 75        | 40   | Supply and install Grundforce PM Pressure Pump (Q min 12 litres per second and 40m head) or similar with 90 mm inlet and outlet Complete with control panel, electrical connections, Brass Gate 50 mm valves (90 mm and 90mm), Brass Non Return valve (90 mm), Brass In-line Strainer (90 mm), fittings and pipings  | No        | 1   |      |        |
|          |          |           |      | WATER SUPPLY   | ST        |     |      |        |
| <b>3</b> | <b>3</b> | <b>77</b> |      | <b>SECTION NO. 3</b>   |           |     |      |        |
| <b>3</b> | <b>3</b> | <b>77</b> |      | <b>BILL NO.3</b>   |           |     |      |        |
| <b>3</b> | <b>3</b> | <b>77</b> |      | <b>SEWER RETICULATION</b>  |           |     |      |        |
| 3        | 3        | 77        |      | <u>Preambles</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |           |     |      |        |
| 3        | 3        | 77        |      | <u>SUPPLEMENTARY PREAMBLES</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | <u>Items, materials or methods</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.   |           |     |      |        |
| 3        | 3        | 77        |      | <u>Vitrified clay pipes, etc</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | Pipes shall rest on solid ground and where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid   |           |     |      |        |
| 3        | 3        | 77        |      | <u>uPVC Pipes and fittings</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings  |           |     |      |        |
|          |          |           |      | Soil, waste and vent pipes and fittings shall be solvent weld jointed  |           |     |      |        |
| 3        | 3        | 77        |      | <u>Reducing fittings</u>   | H4        |     |      |        |
| 3        | 3        | 77        |      | Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained |           |     |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT | QTY | RATE | AMOUNT |
|-----|------|----|------|--|------|-----|------|--------|
| 3   | 3    | 77 |      | <u>Septic Tanks</u>  | H4   |     |      |        |
| 3   | 3    | 77 |      | Descriptions of septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions  |      |     |      |        |
| 3   | 3    | 78 |      | <u>Laying, backfilling, bedding, etc. of pipes</u>   | H4   |     |      |        |
| 3   | 3    | 78 |      | Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturer's instructions<br><br>Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:<br><br>SABS 1200<br><br>L : Medium-pressure pipelines<br><br>LD : Sewers<br><br>LE : Stormwater drainage<br><br>Pipe trenches, etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches)<br><br>Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes)<br><br>Unless otherwise described bedding of rigid pipes shall be class B bedding |      |     |      |        |
| 3   | 3    | 78 |      | <u>WORK GROUP 104</u>  | H4   |     |      |        |
| 3   | 3    | 78 |      | <b><u>EARTHWORKS (PIPE TRENCHES)</u></b>   | H2   |     |      |        |
| 3   | 3    | 78 |      | <b><u>Site clearance and removal of topsoil</u></b>  | H3   |     |      |        |
| 3   | 3    | 78 | 1    | Clear vegetation and small trees/shrubs within 2m wide strip   | m    | 287 |      |        |
| 3   | 3    | 78 |      | <b><u>EXCAVATION</u></b>   | H2   |     |      |        |
| 3   | 3    | 78 |      | Excavate in all materials for trenches, backfill, compact and dispose of surplus material for sewers up to 160mm in diameter for depths:   | H3   |     |      |        |
| 3   | 3    | 78 | 2    | Up to 1.5m   | m3   | 301 |      |        |
| 3   | 3    | 78 | 3    | Over 1.5m up to 2.5m   | m3   | 0   |      |        |
| 3   | 3    | 78 | 4    | Over 2.5m up to 3.5m   | m3   |     |      |        |
| 3   | 3    | 78 |      | <b><u>Extra-over item (a) above for:</u></b>   | H3   |     |      |        |
| 3   | 3    | 78 | 5    | Intermediate excavation  | m3   | 201 |      |        |
| 3   | 3    | 78 | 6    | Hard rock excavation   | m3   | 15  |      |        |
| 3   | 3    | 78 | 7    | Excavate and dispose of unsuitable material from trench bottom (provisional)   | m3   |     |      |        |
| 3   | 3    | 78 |      | <b><u>Excavation ancillaries</u></b>   | H3   |     |      |        |
| 3   | 3    | 78 |      | <b><u>Make up deficiency in backfill material</u></b>  | H3   |     |      |        |
| 3   | 3    | 78 | 8    | From other necessary excavations on site   | m3   | 216 |      |        |
| 3   | 3    | 78 | 9    | By importation from designated borrow pits   | m3   |     |      |        |
| 3   | 3    | 78 |      | <u>WORK GROUP 146</u>  | H4   |     |      |        |
| 3   | 3    | 78 |      | <b><u>SEWERS</u></b>   | H2   |     |      |        |
| 3   | 3    | 78 |      | <b><u>Supply, lay, joint, bed and test 400KPa Maincore uPVC sewer pipes manufactured to SABS 1601</u></b>  | H3   |     |      |        |
| 3   | 3    | 78 | 10   | 110mm dia.   | m    | 287 |      |        |
| 3   | 3    | 78 | 11   | 160mm dia.   | m    | 0   |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION   | UNIT | QTY | RATE | AMOUNT |
|-----|------|----|------|---|------|-----|------|--------|
| 3   | 3    | 79 |      | <u>Extra -over uPVC pipe for specials</u>   | H3   |     |      |        |
| 3   | 3    | 79 | 12   | 110mm 90 degree plain bend  | m    | 3   |      |        |
| 3   | 3    | 79 | 13   | 110mm 45 degree plain bend  | m    | 2   |      |        |
| 3   | 3    | 79 | 14   | 110mm 45 degree plain junction  | m    | 1   |      |        |
| 3   | 3    | 79 | 15   | 160mm 90 degree plain bend  | m    | 0   |      |        |
| 3   | 3    | 79 | 16   | 160mm 45 degree plain bend  | m    | 0   |      |        |
| 3   | 3    | 79 | 17   | 160mm 45 degree plain junction  | m    | 0   |      |        |
| 3   | 3    | 79 |      | <u>MANHOLES</u>   | H2   |     |      |        |
| 3   | 3    | 79 |      | <u>Supply and construct pre-cast concrete manholes, complete with cover and frame and step irons as per drawings within the following depth ranges (depth measured from invert level to top of the manhole)</u> | H3   |     |      |        |
| 3   | 3    | 79 |      | <u>1000mm dia. Manholes</u>   | H3   |     |      |        |
| 3   | 3    | 79 | 18   | up to 1.5m  | No   | 9   |      |        |
| 3   | 3    | 79 | 19   | over 1.5m up to 2.0m  | No   | 0   |      |        |
| 3   | 3    | 79 | 20   | over 2.0m up to 2.5m  | No   | 0   |      |        |
| 3   | 3    | 79 | 21   | over 2.5m up to 3.0m  | No   | 0   |      |        |
| 3   | 3    | 79 |      | <u>BEDDING AND BACKFILLING (PIPES)</u>  | H2   |     |      |        |
| 3   | 3    | 79 |      | <u>Provision of Bedding from Trench Excavation</u>  | H3   |     |      |        |
| 3   | 3    | 79 | 22   | Selected granular material  | m3   | 103 |      |        |
| 3   | 3    | 79 | 23   | Selected fill material  | m3   | 172 |      |        |
| 3   | 3    | 79 |      | <u>SEWER TREATMENT PLANT</u>  | H2   |     |      |        |
| 3   | 3    | 79 |      | <u>Concrete</u>   | H3   |     |      |        |
| 3   | 3    | 79 | 24   | Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced   | m2   |     |      |        |
| 3   | 3    | 79 | 25   | Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer   | m3   |     |      |        |
| 3   | 3    | 79 |      | <u>Mild steel reinforcement:</u>  | H3   |     |      |        |
| 3   | 3    | 79 | 26   | Mild steel bars   | kg   |     |      |        |
| 3   | 3    | 79 |      | <u>High-Tensile Welded mesh</u>   | H3   |     |      |        |
| 3   | 3    | 79 | 27   | Ref. 617 welded mesh in floor/walls/footing/slab  | m2   |     |      |        |
| 3   | 3    | 79 |      | <u>Brickwork of NFX bricks in 3:1 cement mortar:</u>  | H3   |     |      |        |
| 3   | 3    | 79 | 28   | One brick wall including wire ties  | m2   |     |      |        |
| 3   | 3    | 79 | 29   | Half brick wall including wire ties   | m2   |     |      |        |
| 3   | 3    | 79 |      | <u>Septic Tank</u>  | H3   |     |      |        |
| 3   | 3    | 79 | 30   | Construct septic tank with french drain as per specification  | Item | 1   |      |        |
| 3   | 3    | 79 |      | <u>Grease Trap</u>  | H3   |     |      |        |
| 3   | 3    | 79 | 30   | Construct grease trap as per specification  | Item | 0   |      |        |
| 3   | 3    | 79 |      | <u>1-4 Cement plaster finished with a wooden trowel on brickwork:</u>   | H3   |     |      |        |
| 3   | 3    | 79 | 31   | Internal wall plaster   | m2   |     |      |        |
| 3   | 3    | 79 | 32   | Supply and install 1600mm x 1200mm Galvanized frame and cover for septic tank and grease trap   | No   | 5   |      |        |
| 3   | 3    | 79 |      | <u>TESTING</u>  | H2   |     |      |        |
| 3   | 3    | 79 | 33   | Testing drainage pipe system  | Item | 1   |      |        |
|     |      |    |      | SEWER RETICULATION  | ST   |     |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT      | QTY   | RATE | AMOUNT |
|-----|------|----|------|--|-----------|-------|------|--------|
| 3   | 4    | 81 |      | <b>SECTION NO. 3</b>   |           |       |      |        |
| 3   | 4    | 81 |      | <b>BILL NO.4</b>   |           |       |      |        |
| 3   | 4    | 81 |      | <b>ROADS AND PARKING</b>   |           |       |      |        |
| 3   | 4    | 81 |      | <u>Preambles</u>   | H4        |       |      |        |
| 3   | 4    | 81 |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |           |       |      |        |
| 3   | 4    | 81 |      | <u>SUPPLEMENTARY PREAMBLES</u>   | H4        |       |      |        |
| 3   | 4    | 81 |      | <u>Items, materials or methods</u>   | H4        |       |      |        |
| 3   | 4    | 81 |      | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect. |           |       |      |        |
| 3   | 4    | 81 |      | <u>Excavations</u>   | H4        |       |      |        |
| 3   | 4    | 81 |      | No claim for rock excavation will be entertained unless the contractor has timeously notified the Quantity Surveyor thereof prior to backfilling<br><br>"Soft rock" and "Hard rock" shall be as defined in the Model Preambles for Trades 2008   |           |       |      |        |
| 3   | 4    | 81 |      | <u>WORK GROUP 154</u>  | H4        |       |      |        |
| 3   | 4    | 81 |      | <b><u>EARTHWORKS (ROADS, SUBGRADE)</u></b>   | <b>H2</b> |       |      |        |
| 3   | 4    | 81 |      | <b><u>Road-bed preparation and compaction of material to</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 81 | 1    | Minimum of 90% of modified AASHTO maximum density  | m3        | 0     |      |        |
| 3   | 4    | 81 | 2    | Minimum of 93% of modified AASHTO maximum density  | m3        | 0     |      |        |
| 3   | 4    | 81 |      | <b><u>Selected layer compacted to 93% of modified AASHTO maximum density</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 81 | 3    | 150mm thick  | m3        | 0     |      |        |
| 3   | 4    | 81 |      | <b><u>Extra -over items 8.3.4 and 8.3.5 for excavation and breaking down material in</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 81 | 4    | Intermediate excavation  | m3        | 0     |      |        |
| 3   | 4    | 81 | 5    | Hard excavation  | m3        | 0     |      |        |
| 3   | 4    | 81 |      | <b><u>Cut to spoil or stockpile from</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 81 | 6    | Soft excavation  | m3        | 952   |      |        |
| 3   | 4    | 81 | 7    | Intermediate excavation  | m3        | 40    |      |        |
| 3   | 4    | 81 | 8    | Hard excavation  | m3        | 6     |      |        |
| 3   | 4    | 81 | 9    | Overhaul   | m .km     | 998   |      |        |
| 3   | 4    | 81 |      | <b><u>SUBBASE</u></b>  | <b>H2</b> |       |      |        |
| 3   | 4    | 81 |      | <b><u>Construct the subbase course with material excavated in all materials or from borrow pit</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 81 | 10   | Subbase 150mm thick and compacted to 95% Mod AASHTO density  | m3        | 1 536 |      |        |
| 3   | 4    | 81 | 11   | Base 150mm thick constructed with Graded crushed stone from commercial source and compacted to 88% of apparent relative density  | m3        | 0     |      |        |
| 3   | 4    | 82 |      | <b><u>Process subbase material by the following processes, as relevant, and use in the subbase</u></b>   | <b>H3</b> |       |      |        |
| 3   | 4    | 82 | 12   | Stabilization  | m3        | 1 536 |      |        |
| 3   | 4    | 82 |      | <b><u>Stabilizing agent</u></b>  | <b>H3</b> |       |      |        |
| 3   | 4    | 82 | 13   | Ordinary Portland cement   | t         | 44    |      |        |
| 3   | 4    | 82 | 14   | Lime   | t         | 1     |      |        |
| 3   | 4    | 82 | 15   | Overbudden   | m3        | 0     |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT | QTY   | RATE | AMOUNT |
|-----|------|----|------|--|------|-------|------|--------|
| 3   | 4    | 82 |      | <b><u>BASE</u></b>   | H2   |       |      |        |
| 3   | 4    | 82 |      | <b><u>Construct the base with gravel material from borrow pits</u></b>   | H3   |       |      |        |
| 3   | 4    | 82 | 16   | Base 150mm thick and compacted to 97% Mod AASHTO density   | m3   | 1 124 |      |        |
| 3   | 4    | 82 |      | <b><u>Process base material by the following processes, as relevant and use in base</u></b>  | H3   |       |      |        |
| 3   | 4    | 82 | 18   | Stabilization  | m3   | 1 124 |      |        |
| 3   | 4    | 82 |      | <b><u>Stabilizing agent</u></b>  | H3   |       |      |        |
| 3   | 4    | 82 | 19   | Ordinary Portland cement   | t    | 81    |      |        |
| 3   | 4    | 82 | 20   | Lime   | m    |       |      |        |
| 3   | 4    | 82 |      | <b><u>SEGMENTED PAVING</u></b>   | H2   |       |      |        |
| 3   | 4    | 82 |      | <b><u>Provision of edge Restraints</u></b>   | H3   |       |      |        |
| 3   | 4    | 82 | 21   | Cast in-situ edging, 200 x 150mm thick Class 25/19 concrete on curves and on straights   | m    | 450   |      |        |
| 3   | 4    | 82 |      | <b><u>Construction of paving complete</u></b>  | H3   |       |      |        |
| 3   | 4    | 82 | 22   | Supply and lay 60mm thick segmented paving blocks with 20mm sand (Assembly and walkways)   | m2   | 2 200 |      |        |
| 3   | 4    | 82 | 23   | Supply and lay 80mm thick segmented paving blocks with 20mm sand   | m2   | 1 545 |      |        |
| 3   | 4    | 82 | 24   | Cutting units to fit edge restraints (straight, raking, or circular cutting)   | m    | 0     |      |        |
| 3   | 4    | 82 | 25   | Allow for soil poisoning   | m2   | 3 745 |      |        |
| 3   | 4    | 82 |      | <b><u>KERBING AND CHANNELING</u></b>   | H2   |       |      |        |
| 3   | 4    | 82 | 26   | Precast concrete kerbs 280 x 180 x 140 semi-mountable Figure 7   | m    | 420   |      |        |
| 3   | 4    | 82 | 27   | Precast concrete kerbs Figure 5  | m    | 310   |      |        |
| 3   | 4    | 82 |      | <b><u>TESTING OF FILLING MATERIAL AND COMPACTION</u></b>   | H2   |       |      |        |
| 3   | 4    | 82 |      | <b><u>GENERAL</u></b>  | H4   |       |      |        |
| 3   | 4    | 82 |      | The following tests are to be carried out when and only if required by the Architect/Engineer  |      |       |      |        |
| 3   | 4    | 82 |      | The letters S M T M, as used in the following descriptions refer to the publication, Standard Methods of Testing Materials and Specification, of the Department of Transport |      |       |      |        |
| 3   | 4    | 82 | 28   | Allow for testing of approved filling material in an approved laboratory according to S M T M method No A7, to establish the 100% modified AASHTO density thereof            | Item | 1     |      |        |
| 3   | 4    | 82 | 29   | Allow for testing of density of compacted filling under roads, etc. by means of the Sand Replacement Method according to S M T M method No A10(a)                            | Item | 1     |      |        |
| 3   | 4    | 83 |      | <b><u>BREAKING UP EXISTING PAVEMENT LAYERS</u></b>   |      |       |      |        |
| 3   | 4    | 83 |      | Excavating and removing existing bituminous material   |      |       |      |        |
| 3   | 4    | 83 |      | (a) Material intended for recycling with the average depth of excavation   |      |       |      |        |
| 3   | 4    | 83 | 30   | (ii) Exceeding 30mm but not exceeding 60mm   | m2   | 0     |      |        |
| 3   | 4    | 83 | 31   | Excavating and spoiling material from an existing pavement and /or the underlying fill:  |      |       |      |        |
| 3   | 4    | 83 |      | (b) Cemented material  | m³   | 0     |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT  | QTY       | RATE | AMOUNT |
|-----|------|----|------|--|-------|-----------|------|--------|
| 3   | 4    | 83 | 32   | Excavating material from an existing pavement and /or underlying fill in restricted areas  |       |           |      |        |
| 3   | 4    | 83 |      | (a) Extra over item 38.01 for bituminous material excavated separately   | m2    | Rate Only |      |        |
| 3   | 4    | 83 |      | (b)Extra over item 38.04 for other existing pavement   |       |           |      |        |
| 3   | 4    | 83 | 33   | (ii) Cemented material   | m³    | Rate Only |      |        |
| 3   | 4    | 83 |      | Sawing or cutting asphalt or cemented pavement layers  |       |           |      |        |
| 3   | 4    | 83 | 34   | (a) Sawing asphalt   | m2    | 0         |      |        |
| 3   | 4    | 83 | 35   | Backfilling of excavations for patching with   |       |           |      |        |
| 3   | 4    | 83 |      | (a) Chemically stabilized base for a patch with a surface area   |       |           |      |        |
| 3   | 4    | 83 | 36   | (i) Not exceeding 5m2  | m³    | 0         |      |        |
|     |      |    |      | (ii)Exceeding 5m2 but not 100m2  | m³    | 0         |      |        |
| 3   | 5    | 85 |      | Compacting the floor of excavations for patching   | m2    | 0         |      |        |
| 3   | 5    | 85 |      | <b>STABILIZATION</b>   |       |           |      |        |
| 3   | 5    | 85 |      | Chemical stabilization extra over unstabilized compacted layers:   |       |           |      |        |
| 3   | 5    | 85 |      | (a) Base layer, 150mm thick  | m³    | 0         |      |        |
| 3   | 5    | 85 |      | Chemical stabilizing agent:  |       |           |      |        |
| 3   | 5    | 85 |      | (a) Ordinary portland cement   | t     | 0         |      |        |
| 3   | 5    | 85 |      | (b) Slaked road lime   | t     | Rate Only |      |        |
| 3   | 5    | 85 |      | Provision and application of water for curing  | kl    | 0         |      |        |
| 3   | 5    | 85 |      | <b>PRIME COAT</b>  |       |           |      |        |
| 3   | 5    | 85 |      | Prime coat:  |       |           |      |        |
| 3   | 5    | 85 |      | (a) MC-30 cut back bitumen   | litre | 0         |      |        |
| 3   | 5    | 85 |      | (b) MSP1   | litre | Rate Only |      |        |
| 3   | 5    | 85 |      | Aggregate for blinding   | m²    | Rate Only |      |        |
| 3   | 5    | 85 |      | Extra over item 41.01 for applying the prime coat in areas accessible only to hand held equipment  | litre | 0         |      |        |
| 3   | 5    | 85 |      | <b>ASPHALT PAVEMENTS AND SEALS</b>   |       |           |      |        |
| 3   | 5    | 85 |      | Asphalt surfacing  |       |           |      |        |
| 3   | 5    | 85 |      | ( 60/70 penetration grade bitumen)   |       |           |      |        |
| 3   | 5    | 85 |      | (a) Medium continuously graded asphalt   |       |           |      |        |
| 3   | 5    | 85 |      | (i)Thickness -30mm   | m²    | 0         |      |        |
| 3   | 5    | 85 |      | Rolled in chippings (9.5mm)  |       |           |      |        |
| 3   | 5    | 85 |      | (a) in surfacing   | t     | Rate Only |      |        |
| 3   | 5    | 85 |      | Tack coat of 30% stable grade emulsion   | litre | 0         |      |        |
| 3   | 5    | 85 | 1    | <b>ROADS AND PARKING</b>   | ST    |           |      |        |
| 3   | 4    | 81 |      | <b>SECTION NO. 3</b>   |       |           |      |        |
| 3   | 4    | 81 |      | <b>BILL NO.5</b>   |       |           |      |        |
| 3   | 4    | 81 |      | <b>STORMWATER DRAINAGE</b>   |       |           |      |        |
| 3   | 5    | 85 |      | <u>Preambles</u>   | H4    |           |      |        |
| 3   | 5    | 85 |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |       |           |      |        |
| 3   | 5    | 85 | 2    |  |       |           |      |        |
| 3   | 5    | 85 | 3    | <u>SUPPLEMENTARY PREAMBLES</u>   | H4    |           |      |        |
| 3   | 5    | 85 |      | <u>Items, materials or methods</u>   | H4    |           |      |        |
| 3   | 5    | 85 |      | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect. |       |           |      |        |
| 3   | 5    | 85 | 4    |  |       |           |      |        |

| SEC | BILL | PG | ITEM | DESCRIPTION   | UNIT      | QTY | RATE | AMOUNT |
|-----|------|----|------|---|-----------|-----|------|--------|
| 3   | 5    | 85 | 5    | <u>Concrete pipes</u>   | H4        |     |      |        |
| 3   | 5    | 85 |      | Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings   |           |     |      |        |
| 3   | 5    | 85 |      | <u>Wire gratings</u>  | H4        |     |      |        |
| 3   | 5    | 85 | 6    | Descriptions of gutter outlets, etc shall be deemed to include wire balloon gratings  |           |     |      |        |
| 3   | 5    | 85 | 7    | <u>Exposed concrete surfaces</u>  | H4        |     |      |        |
| 3   | 5    | 85 |      | Exposed surfaces of concrete stormwater channels, cover slabs, inspection eve marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster |           |     |      |        |
| 3   | 5    | 85 | 8    |   |           |     |      |        |
| 3   | 5    | 85 | 9    | <u>WORK GROUP 104</u>   | H4        |     |      |        |
| 3   | 5    | 86 | 10   | <b><u>EARTHWORKS (OPEN CHANNEL)</u></b>   | <b>H2</b> |     |      |        |
| 3   | 5    | 86 |      | <b><u>EXCAVATION</u></b>  | <b>H3</b> |     |      |        |
| 3   | 5    | 86 |      | Excavate in all materials for trenches, backfill, compact and dispose of surplus material for stormwater channel  | m3        | 370 |      |        |
| 3   | 5    | 86 | 11   | <b><u>Extra-over item (a) above for:</u></b>  | <b>H3</b> |     |      |        |
| 3   | 5    | 86 | 12   | Intermediate excavation   | m3        | 167 |      |        |
| 3   | 5    | 86 |      | Hard rock excavation  | m3        | 56  |      |        |
| 3   | 5    | 86 |      | <b><u>BEDDING AND BACKFILLING</u></b>   | <b>H2</b> |     |      |        |
| 3   | 5    | 86 | 13   | <b><u>Provision of Bedding from Trench Excavation</u></b>   | <b>H3</b> |     |      |        |
| 3   | 5    | 86 | 14   | Selected granular material for bedding  | m3        |     |      |        |
| 3   | 5    | 86 | 15   | Selected fill material and backfilling  | m3        |     |      |        |
| 3   | 5    | 86 |      | <u>WORK GROUP 146</u>   | H4        |     |      |        |
| 3   | 5    | 86 |      | <b><u>CONCRETE AND REINFORCEMENT</u></b>  | H4        |     |      |        |
| 3   | 5    | 86 |      | Blinding layer, class 15 Mpa/19mm concrete, 75mm thick for all level where reinforced   | m2        | 278 |      |        |
| 3   | 5    | 86 |      | Concrete for footings/floors/slabs/walls class 25 Mpa / 19mm concrete plus anchor blocks, filling where ordered by the engineer   | m3        | 28  |      |        |
| 3   | 5    | 86 |      | <b><u>High-Tensile Welded mesh</u></b>  | <b>H3</b> |     |      |        |
| 3   | 5    | 86 | 17   | Ref. 245 welded mesh in floor slab  | m2        | 278 |      |        |
| 3   | 5    | 86 |      | Ref. 617 welded mesh in floor slab  | m2        |     |      |        |
| 3   | 5    | 86 |      | Mild steel bars   | kg        |     |      |        |
| 3   | 5    | 86 | 18   | <b><u>CONCRETE PIPES</u></b>  | H4        |     |      |        |
| 3   | 5    | 86 |      | <b><u>Supply, lay and bed pipes complete with couplings</u></b>   | <b>H3</b> |     |      |        |
| 3   | 5    | 86 |      | 450mm Diameter C50  | m         | 60  |      |        |
| 3   | 5    | 86 |      | 600mm Diameter C50  | m         | 20  |      |        |
| 3   | 5    | 86 |      | <b><u>Supply and lay RS40 Grating Unbanded and Banded Rectagrid or similar approved Grid for Storm water drainage</u></b>   | <b>H3</b> |     |      |        |
| 3   | 5    | 86 | 19   | 2 400 x 1 200 x 50 x 4.5mm RS40 Grating Unbanded Bitumen  | No        | 2   |      |        |
| 3   | 5    | 86 |      | 1 000 x 500 x 50 x 4.5mm RS40 Grating Banded Bitumen  | No        | 1   |      |        |
| 3   | 5    | 86 |      | Supply and install 60 x 60 x 6mm Angle Iron cast into concrete  | m         | 6   |      |        |



| SEC | BILL | PG | ITEM | DESCRIPTION  | UNIT           | QTY   | RATE | AMOUNT |
|-----|------|----|------|--|----------------|-------|------|--------|
| 3   | 6    | 88 |      |  |                |       |      |        |
| 3   | 6    | 88 |      | <b><u>SURFACE V-CHANNELS</u></b>   | H2             |       |      |        |
| 3   | 6    | 88 |      | <b><u>In-situ 20 MPa/19mm Concrete open stormwater channels finished on all exposed surfaces with woodfloat finish and with angles rounded, cast in approximately 2m lengths with construction joints and expansion joints formed with Flexcell joint filler and sealed with bitumastic joint sealant at 6m intervals, including all formwork, moulds, shallow excavations and filling and laying to falls</u></b>                   | H3             |       |      |        |
| 3   | 6    | 88 |      | V-shaped channel 1200mm wide, 105mm (average) thick and 50 mm deep (concrete = 0,10 m <sup>3</sup> /m) next to existing wall and including the forming of an expansion joint with the existing wall formed with Flexcell joint filler and sealed with bitumastic joint sealant   | m              | 380   |      |        |
| 3   | 6    | 88 |      | Extra over 900 x 50mm deep stormwater channel for bends, junctions, ends, etc  | No             |       |      |        |
| 3   | 6    | 88 |      | <b><u>Stormwater outlet spreader, culvert headwall, etc.</u></b>   | H3             |       |      |        |
| 3   | 6    | 88 |      | Concrete 20MPa/19mm in spreader outlet 2,0m long and x 2,0m wide at open end with 100 x 50mm projecting kerbs along both sides and bricks cast in at 300mm centres and 150mm apart to project 50mm above 75mm concrete surface bed, including all necessary shallow excavations, formwork and finishing with a wood float  | No             | 1     |      |        |
| 3   | 6    | 88 | 1    |  |                |       |      |        |
| 3   | 6    | 88 |      | <b><u>STONE PITCHING</u></b>   | H2             |       |      |        |
| 3   | 6    | 88 |      | <b><u>Stone pitched of approximately 150mm diameter river stones tightly packed including preparation of ground surface under, top soil filling and planted with grass</u></b>   | H3             |       |      |        |
| 3   | 6    | 88 |      | 150mm Thick lining to open ends of outfall spreaders, ditches, etc.  | m <sup>2</sup> | 75    |      |        |
| 3   | 6    | 88 |      | STORMWATER DRAINAGE  | ST             |       |      |        |
| 3   | 6    | 88 | 2    | <b>SECTION NO. 3<br/>BILL NO.6<br/>FENCING AND LANDSCAPING</b>   |                |       |      |        |
| 3   | 6    | 89 |      | <u>Preambles</u>   | H4             |       |      |        |
| 3   | 6    | 89 |      | Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall apply.   |                |       |      |        |
| 3   | 6    | 89 | 3    |  |                |       |      |        |
| 3   | 6    | 89 |      | <u>SUPPLEMENTARY PREAMBLES</u>   | H4             |       |      |        |
| 3   | 6    | 89 | 4    | <u>Items, materials or methods</u>   | H4             |       |      |        |
| 3   | 6    | 89 | 5    | Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect.   |                |       |      |        |
| 3   | 6    | 89 | 6    | <u>WORK GROUP 124</u>  | H4             |       |      |        |
| 3   | 7    | 92 | 1    | <b><u>GALVANIZED STEEL PALISADE FENCING</u></b>  | H2             |       |      |        |
| 3   | 7    | 92 | 2    | <b><u>Palisade fencing, consisting of 75 x 75 x 4mm posts with 230 x 230mm foot plate welded on, 50 x 50 x 5mm angle section top and bottom rail, filled in with 40 x 40 x 4mm spear pales at 125mm centres. Posts to be spaced at 3.0m and cast in 600 x 600 x 800mm class C concrete bases on 600 x 600 x 150mm selected fill and with 200 x 200mm Class C concrete ground beam along full length of fence</u></b>                 | H3             |       |      |        |
| 3   | 7    | 92 | 3    |  |                |       |      |        |
| 3   | 7    | 92 | 4    |  |                |       |      |        |
| 3   | 7    | 92 | 5    |  |                |       |      |        |
| 3   | 7    | 92 | 6    | Supply and install 2400mm high fencing   | m              |       |      |        |
|     |      |    |      | Supply and install 2100mm high fencing   | m              |       |      |        |
|     |      |    |      | Supply and install 1800mm high fencing   | m              | 1 053 |      |        |
|     |      |    |      | <b><u>Gates formed of 50 x 75mm rectangular hollow section frame with two horizontal braces and filled in with 10mm diameter solid vertical bars at 92mm centres complete with two 254 x 40 x 5mm hook and band hinges with flange built into wall, barrel bolt to receive padlock, and vertical extension 600mm long with 6 tying holes for and including barbed wire, all as detailed on drawing 107 attached as annexure.</u></b> | H3             |       |      |        |
|     |      |    |      | Double pedestrian gate 1780mm wide x 2400mm high with 254 x 40 x 5mm hook and band hinges with flange built into walls, barrel bolt, and 600mm vertical extensions for razor wire coil (Gate type G6)  | No             | 1     |      |        |
|     |      |    |      | Double gate 2890mm wide x 1915mm high with 254 x 40 x 5mm hook and band hinges with flange built into walls and barrel bolt (Gate type G7)   | No             |       |      |        |
|     |      |    |      | Sliding gate 6000m wide x 2454mm high complete with rollers and v-track including 600mm extension on top for razor wire coil (Gate type G8)  | No             | 1     |      |        |
|     |      |    |      | FENCING AND LANDSCAPING  | ST             |       |      |        |

REFURBISHMENTS AND ADDITIONS AT  
ST. PAUL SECONDARY SCHOOL

| SEC | BILL | PG | ITEM | DESCRIPTION         | UNIT | QTY  | RATE | AMOUNT |
|-----|------|----|------|---------------------|------|------|------|--------|
|     |      |    |      | <b>SUMMARY</b>      |      |      |      |        |
|     |      |    |      | Bulk Earthworks     | Page | -72- |      |        |
|     |      |    |      | Water Supply        | Page | -76- |      |        |
|     |      |    |      | Sewer Reticulation  | Page | -80- |      |        |
|     |      |    |      | Roads and Parking   | Page | -84- |      |        |
|     |      |    |      | Stormwater Drainage | Page | -87- |      |        |
|     |      |    |      | Fencing             | Page | -91- |      |        |
|     |      |    |      | <b>TOTAL</b>        | ST   |      |      |        |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

| Section No | <u>FINAL SUMMARY</u>  | Page No | Amount |
|------------|---|---------|--------|
| 1          | PRELIMINARIES AND GENERAL   | 1/30    |        |
| 2          | 4 CLASSROOM BLOCK   | 2/39    |        |
| 3          | 2 GRADE R CLASSROOM BLOCK   | 3/42    |        |
| 4          | SMALL ADMINISTRATION BLOCK  | 4/43    |        |
| 5          | 4 SEATS WATERBORNE TOILET BLOCK   | 5/38    |        |
| 6          | RENOVATIONS (06 CLASSROOMS AND 20 ENVIROLOOS)   | 6/44    |        |
| 7          | PROVISIONAL SUMS  | 7/7     |        |
|            | Sub- Total (PART A - MAIN BUILDING WORKS)   |         | R      |
|            | <b><u>PART B - ELECTRICAL AND MECHANICAL WORK</u></b>   |         |        |
|            | TENDER AMOUNT CARRIED OVER FROM PART B (ELECTRICAL AND MECHANICAL WORK)   | Item    |        |
|            | <b><u>PART C - CIVIL WORK</u></b>   |         |        |
|            | TENDER AMOUNT CARRIED OVER FROM PART C (CIVIL WORK)   | Item    |        |
|            | Sub- Total - BUILDING COSTS   |         | R      |
|            | <b><u>CONTINGENCY ALLOWANCE TO THE CONTRACT</u></b>   |         |        |
|            | <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    |        |
|            | <b>Carried Forward</b>  |         | R      |

**LIMPOPO DEPARTMENT OF EDUCATION  
DEMOLITIONS, REFURBISHMENT AND ADDITIONS AT  
PHAPHAMANI PRIMARY SCHOOL**

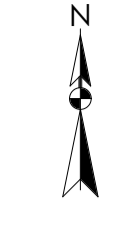
| Section No | <u>FINAL SUMMARY</u>  | Page No |   | Amount |
|------------|---|---------|---|--------|
|            | <b>Brought Forward</b>  |         | R |        |
|            | <u>Inflation:</u>   |         |   |        |
|            | Allow an amount of R1 300 000.00 ( One Million Three Hundred Thousand ) for price adjustment for inflation. | Item    |   |        |
|            | Sub- Total Excluding VAT  |         | R |        |
|            | Tax   |         | R |        |
|            | <b>Carried to Form of Tender</b>  |         | R |        |



## **C4.1 DRAWINGS**



ISSUED FOR TENDER



**SITE MASTER PLAN**  
SCALE 1:500

**TABLE 1: SUMMARY FOR HUMAN CAPITAL**

|                           | BOYS | GIRLS | TOTAL      |
|---------------------------|------|-------|------------|
| GRADE R                   | 28   | 32    | 60         |
| GRADE 1                   | 22   | 22    | 44         |
| GRADE 2                   | 18   | 14    | 32         |
| GRADE 3                   | 18   | 17    | 35         |
| GRADE 4                   | 19   | 20    | 39         |
| GRADE 5                   | 22   | 20    | 42         |
| GRADE 6                   | 21   | 20    | 41         |
| GRADE 7                   | 25   | 30    | 55         |
| <b>TOTAL NO. LEARNERS</b> |      |       | <b>348</b> |
| <b>TOTAL OF EDUCATORS</b> |      |       | <b>09</b>  |

**TABLE 2A: DEMOLITION WORKS**

|                                  | AREA                         |
|----------------------------------|------------------------------|
| BLOCK EX-A: ADMINISTRATION BLOCK | 133.00 m <sup>2</sup>        |
| BLOCK EX-C1: 04 CLASSROOM BLOCK  | 270.00 m <sup>2</sup>        |
| BLOCK EX-C3: 04 CLASSROOM BLOCK  | 270.00 m <sup>2</sup>        |
| BLOCK EX-N: NUTRITION CENTRE     | 52.00 m <sup>2</sup>         |
| BLOCK EX-CP: CAR PARK            | 104.00 m <sup>2</sup>        |
| BLOCK EX-MC 01: MOBILE CLASSROOM | 118.00 m <sup>2</sup>        |
| BLOCK EX-MC 02: MOBILE CLASSROOM | 54.00 m <sup>2</sup>         |
| <b>TOTAL AREA OF DEMOLITION</b>  | <b>1001.00 m<sup>2</sup></b> |

**TABLE 2B: RENOVATION | REFURBISHMENT**

|   | AREA                        |
|---|-----------------------------|
|   | NA                          |
| BLOCK EX-C2: 06 CLASSROOM BLOCK                   | 340.00 m <sup>2</sup>       |
| BLOCK EX-ET 1: 4 SEAT ENVIRO-LOO                  | 22.00 m <sup>2</sup>        |
| BLOCK EX-ET 2: 4 SEAT ENVIRO-LOO                  | 22.00 m <sup>2</sup>        |
| BLOCK EX-ET 3: 4 SEAT ENVIRO-LOO                  | 22.00 m <sup>2</sup>        |
| BLOCK EX-ET 4: 4 SEAT ENVIRO-LOO                  | 22.00 m <sup>2</sup>        |
| BLOCK EX-ET 5: 4 SEAT ENVIRO-LOO                  | 22.00 m <sup>2</sup>        |
| <b>TOTAL AREA - EXISTING BUILDINGS FOR RECURB</b> | <b>450.00 m<sup>2</sup></b> |

**TABLE 2C: NEW WORKS**

|  | AREA                          |
|--|-------------------------------|
| BLOCK A - ADMINISTRATION BLOCK               | 180.00 m <sup>2</sup>         |
| BLOCK PJ 01 - 4 CLASSROOM BLOCK              | 370.00 m <sup>2</sup>         |
| BLOCK G2 A - 2 CLASSROOM BLOCK               | 260.00 m <sup>2</sup>         |
| BLOCK X1 - 04 SEAT WATERBORNE TOILET - STAFF | 22.00 m <sup>2</sup>          |
| <b>TOTAL AREA OF NEW BUILDINGS</b>           | <b>1,029.06 m<sup>2</sup></b> |

**TABLE 2D: FUTURE WORKS**

|                                      | AREA                        |
|--------------------------------------|-----------------------------|
| BLOCK B - NUTRITION CENTER           | 183.36 m <sup>2</sup>       |
| BLOCK F - GATE HOUSE                 | 13.70 m <sup>2</sup>        |
| BLOCK L & CL: LIBRARY & COMPUTER LAB | 254.00 m <sup>2</sup>       |
| BLOCK G2 B - 2 CLASSROOM BLOCK       | 260.00 m <sup>2</sup>       |
| BLOCK PSL: SCIENCE LAB               | 91.00 m <sup>2</sup>        |
| BLOCK I: MULTI-PURPOSE CLASSROOM     | 104.00 m <sup>2</sup>       |
| <b>TOTAL AREA - FUTURE BUILDINGS</b> | <b>832.00 m<sup>2</sup></b> |

**TABLE 2E: CLASSROOMS SUMMARY**

|  |    |
|--|----|
| TOTAL NUMBER FOR ALL CURRENTLY PROVIDED CLASSROOMS | 14 |
| TOTAL NUMBER FOR ALL REFURBISHED CLASSROOMS        | 06 |
| TOTAL NUMBER FOR ALL NEW CLASSROOMS                | 04 |

**SCHEDULE OF AREA**

|   |                               |
|---|-------------------------------|
| SANS 10400 CLIMATIC ZONE                        | ZONE 2                        |
| SANS 10400 BUILDING CLASSIFICATION              | A3                            |
| <b>TOTAL AREA OF EXISTING BUILDINGS</b>         | <b>1,461.00 m<sup>2</sup></b> |
| <b>TOTAL AREA OF BUILDINGS TO BE DEMOLISHED</b> | <b>1,001.00 m<sup>2</sup></b> |
| <b>TOTAL AREA OF PROPOSED WALKWAYS</b>          | <b>2,076.49 m<sup>2</sup></b> |
| <b>TOTAL AREA OF DRIVEWAY &amp; PARKING</b>     | <b>768.75 m<sup>2</sup></b>   |
| <b>TOTAL PARKING PROVISION</b>                  | <b>14 BAYS</b>                |
| <b>TOTAL PLOT AREA</b>                          | <b>35,831.7 m<sup>2</sup></b> |
| <b>TOTAL PLOT PERIMETER</b>                     | <b>844.70 m</b>               |
| <b>PLOT AREA COVERAGE</b>                       | <b>3.58 %</b>                 |

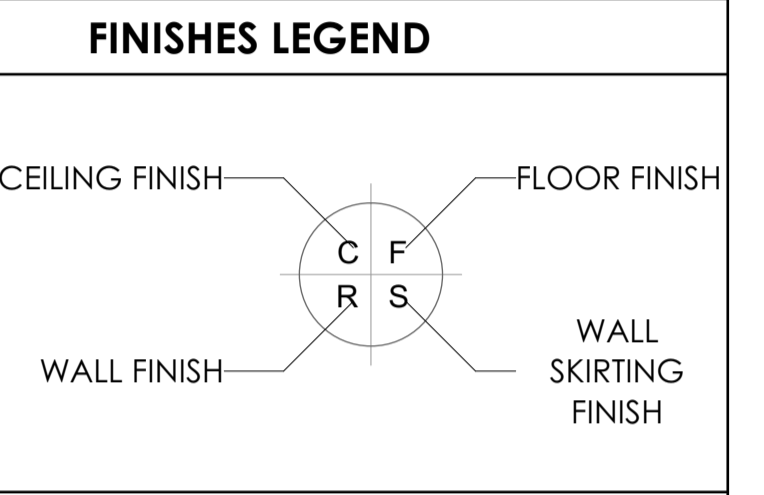
**FUNCTION LEGEND**

|                                    |          |
|------------------------------------|----------|
| BUILDING TO BE RETAINED            | [Symbol] |
| BUILDING TO BE DEMOLISHED          | [Symbol] |
| PROPOSED BUILDING                  | [Symbol] |
| PAVED WALKWAY                      | [Symbol] |
| PAVED DRIVE-WAY                    | [Symbol] |
| FUTURE WORKS BUILDINGS & PAVEMENTS | [Symbol] |
| TRANSFORMER                        | [Symbol] |
| PLOT BOUNDARY                      | [Symbol] |
| 5000 mm BUILDING LINE              | [Symbol] |
| TREE                               | [Symbol] |
| TAP                                | [Symbol] |
| BENCHMARK                          | [Symbol] |
| ELECTRICAL POLE                    | [Symbol] |
| BOREHOLE                           | [Symbol] |
| DRINKING FOUNTAIN                  | [Symbol] |
| BENCHES                            | [Symbol] |

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

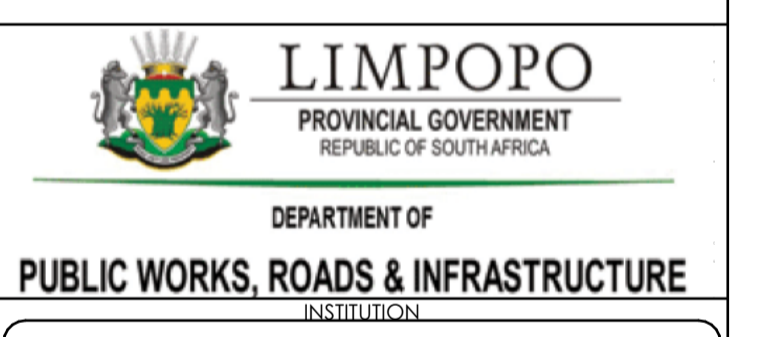


**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| 0        | JUL 21 | FIRST ISSUE FOR TENDER |



DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

STAGE 04 ARCHITECTURAL

SITE PLAN

|                    |       |          |
|--------------------|-------|----------|
| DRG No. E08-100-01 | 01/02 | ITEM No. |
| DESIGN SMIN        | SMIN  | DRAWN    |
| SCALE AS SHOWN     | T.M   | CHECK    |

| DATE     | RESPONSIBLE PROFESSIONAL | PR. NUMBER      |
|----------|--------------------------|-----------------|
| NOV 2019 | T. MANYADZA              | PrArch 43981757 |

**CONSULTANT**  
**TECTURA - INTERNATIONAL!**

CONTACT INFORMATION FOR TECTURA - INTERNATIONAL! (including Johannesburg, Durban, and Cape Town offices).

CONTRACTOR

| CAD SYSTEM | PROJECT NUMBER        | REV |
|------------|-----------------------|-----|
| A1         | LDPW - PROF/16002/E08 | 0   |



## **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**









### FINISHES LEGEND

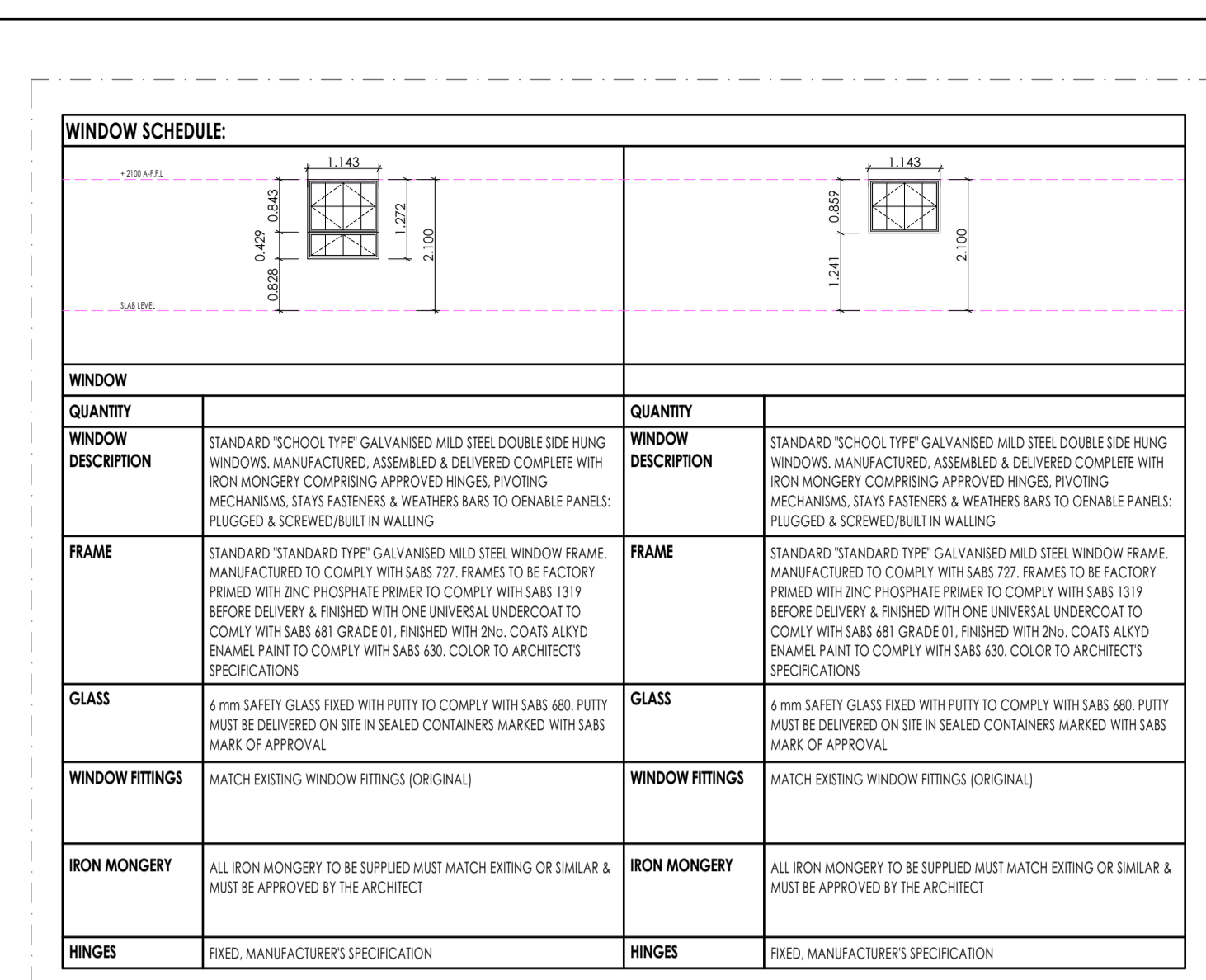
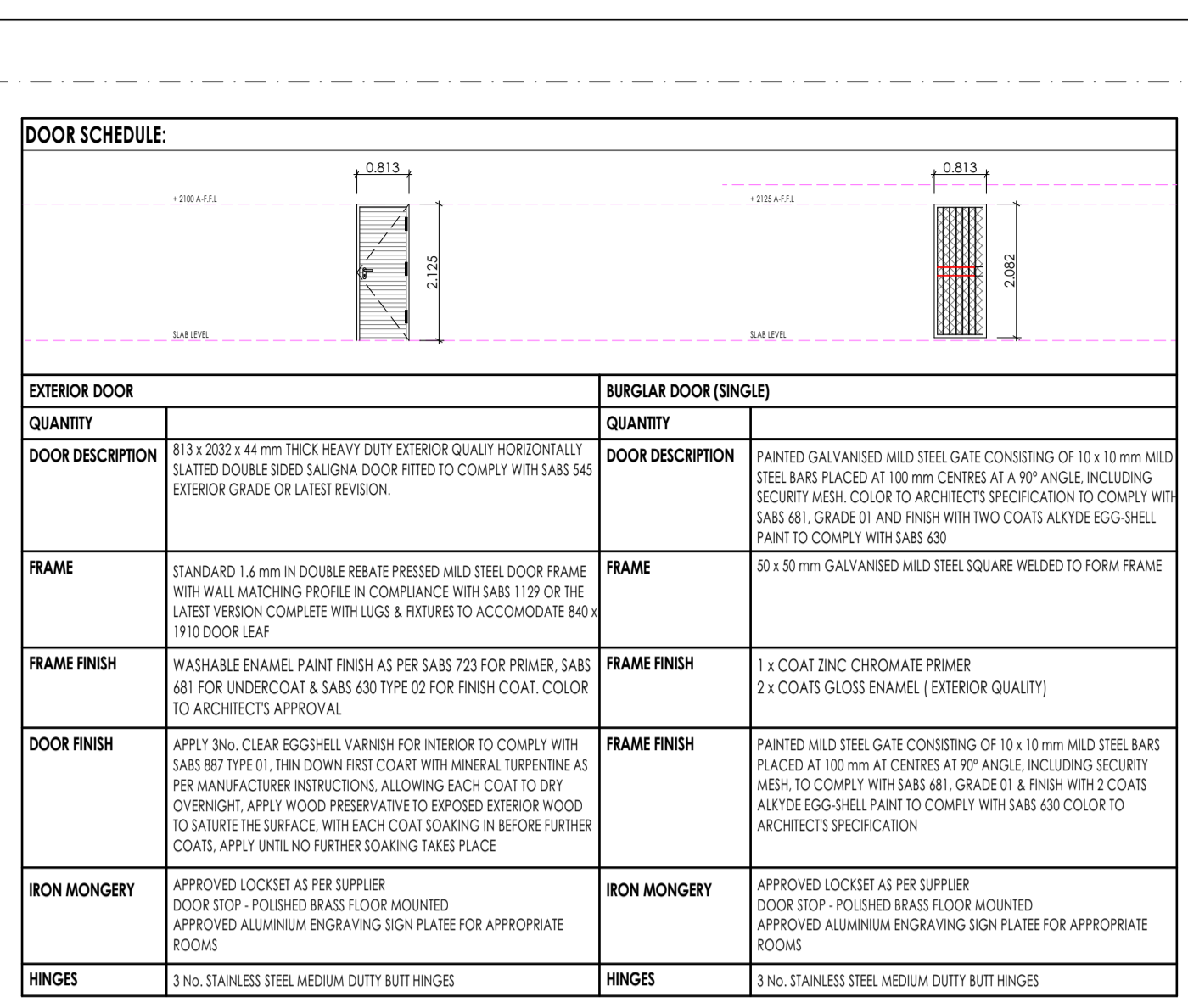
**FLOORS:**  
**F1: PORCELAIN TILES - MATI (Conservative Resistant & Anti-Slippage)**  
 450 x 150mm vitrified floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.  
**F2: PORCELAIN TILES - MATI**  
 450 x 150mm vitrified matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle tiles where there is change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.  
**F3: CARPETILES**  
 500mm x 500mm, 1.005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4' heavy duty, laid with approved adhesive and 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, on D1 S424 on a viri test and 500 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.  
**F4: CEMENT SAND SCREED**  
 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 at latest revision for concrete.  
**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVINGES**  
 65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 at Latest Revision.  
**F6: GRANITIC FINISH**  
 22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 1000 x 1000, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.  
**F7: INTERLOCKING PAVES (RIGID PAVING/VEHICULAR WAYS)**  
 220mm x 150mm x 50mm thick concrete interlocking paves, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.  
**F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPY)**  
 2.2mm Thick Heavy Traffic Use, Conservative Resistant & Anti-Slippiness Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or D2 Anti-Static Protection Vinyl Sheet, Laid on Self-levelling Smooth Screed gird with conductive adhesive to SABS 070 at Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap, Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation, Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Conservative resistant & Anti-Slippiness.

**F9: GRAVEL FINISH ON SAND LAYER**  
 32mm Gravel On Compacted Sand Layer Base As Per FEE Details installed in All Duct Chambers Accommodating Sanitary Services.  
**SKIRTING:**  
**S1: HARDWOOD OR EQUAL AND APPROVED**  
 18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splined heading joints and milled cones with screws and plugs of centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.  
**S2: CERAMIC TILE SKIRTING**  
 400mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screed in strict compliance to manufacturer's instructions and SABS specification, with one base and height top. Complete with corner and top trims. Filings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.  
**S3: CEMENT SAND SCREED**  
 75 mm high x 20 mm thick hardened cement sand screed skirting covered at 20 mm dia, to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance with SABS 1083 or latest revision.

**WALL FINISHES:**  
**R1: FACE BRICK**  
 FXX face brick in common running bond to comply with SABS 227 and forming part of the structural work.  
**R2: EMULSION (PVA) PAINT - FULL HEIGHT**  
 2 No. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.  
**R3: ENAMEL PAINT**  
 2 No. coats matt (egg shell) finish alkyl (enamell) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.  
**R4: GLAZED CERAMIC WALL TILES - ENAMEL PAINT COMBO**  
 Combination of 400mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R3", laid on 15mm thick plaster prepared to receive wall files fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.  
**R5: CERAMIC WALL TILES - FULL HEIGHT**  
 400mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall files fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

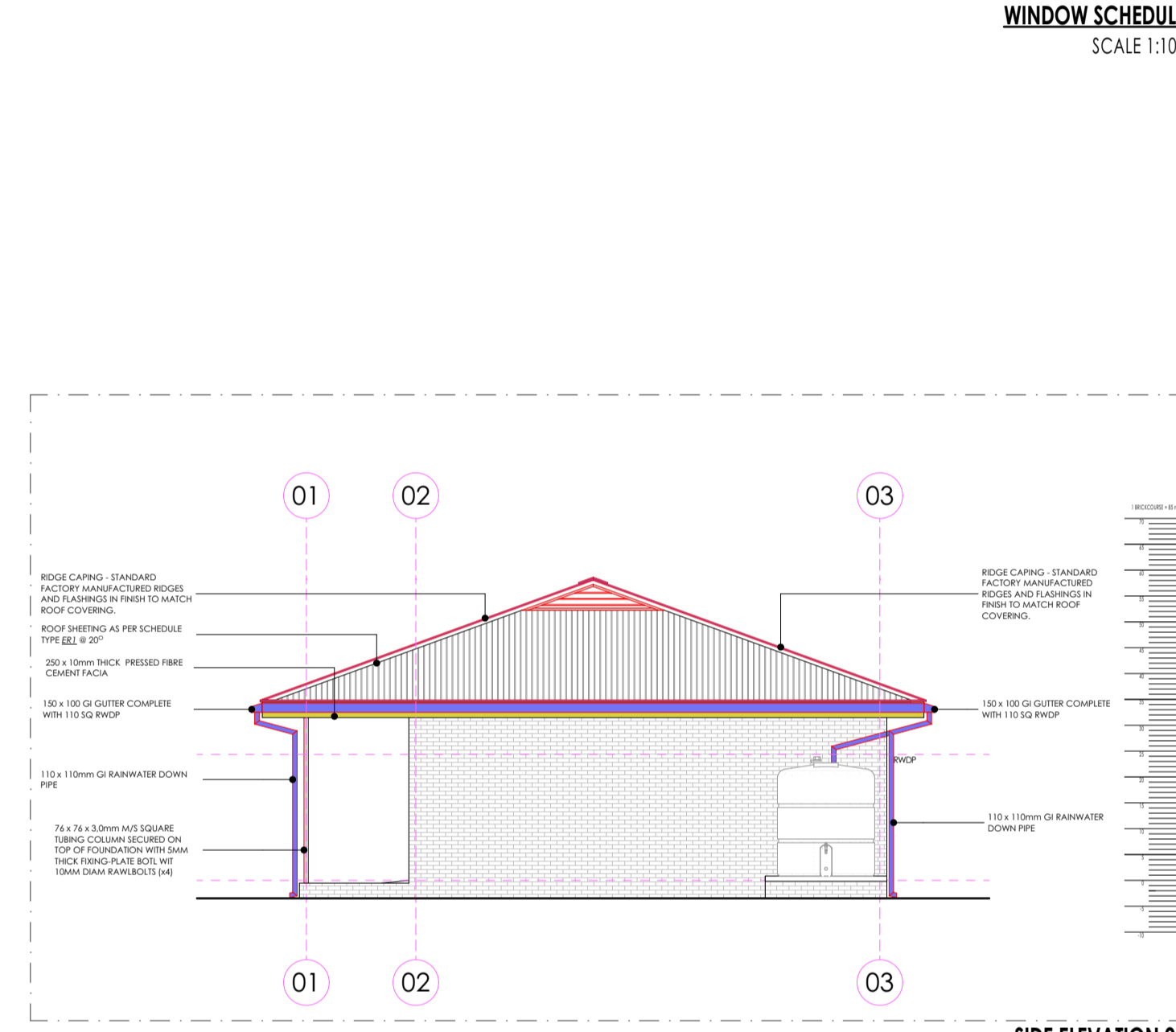
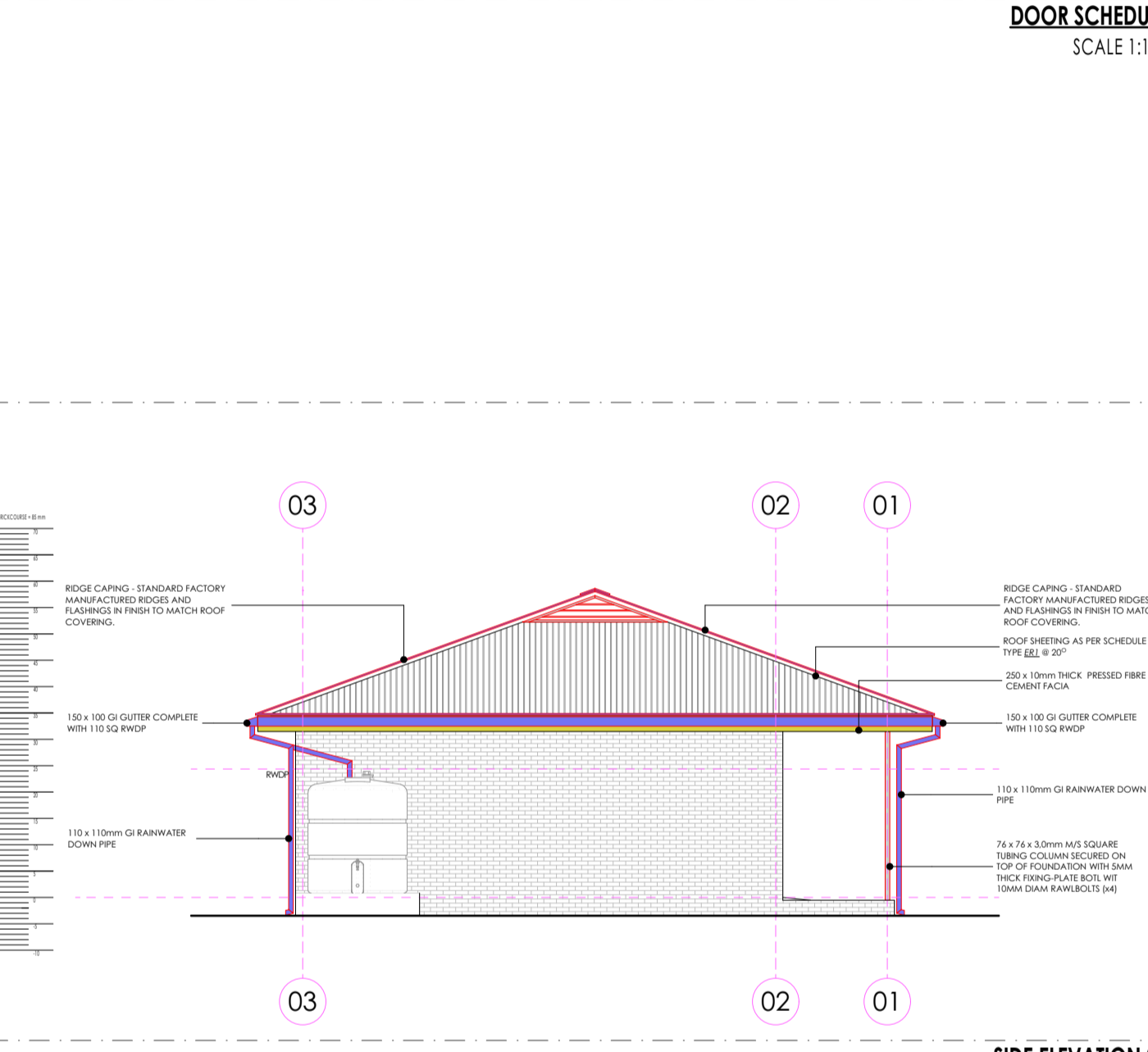
**CEILING AND CORNICE:**  
**C1: 7mm GYPSUM BOARD'S FLUSH PLASTERED CEILING OR EQUAL AND APPROVED**  
 Gyproc Classic gypsum plasterboard ceiling OR EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, 90 X 900 & 1400) certification, recycled paper content, Ecopecifier listing fixed to timber branding installed at maximum 300mm centres using Gyproc Rhinoboard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc Rhinoplate to all joints and skim the ceiling using Gyproc Rhinofix.  
**C2: FIBRE CEMENT BOARD'S (H-JOINTED)**  
 6.4mm thick Gyproc Elite 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, 90 X 900 & 1400) certification, recycled paper content, Ecopecifier listing, non-combustible to SANS 10177:3 fixed to EX 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc Rhinoboard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinoplate to all joints and skim the ceiling using Gyproc Rhinofix.  
**C3: PAINT SUSPENDED ACoustiCS Tiles OR EQUAL AND APPROVED**  
 1200mm x 600mm x 15mm Gyproc Calceus Fibre Reinforced or Fire Fused OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle 146 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaw, coating, isolation membranes, recycled content, 90 X 900 & 1400) certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.  
**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
 Emulsion (PVA) Paint on Skimmed Plastered Sto® 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

**ROOF COVERING AND INSULATION:**  
**R1: EMBOSSED SKIRTING SHEET (TWO SIDES)**  
**Roofing Sheets:** 1.5mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with SABS 071. The profile shall have three trapezoidal ribs at 200mm centering giving a net cover of 456mm. The rib height shall be 41mm and provide cantilay bracing. The metal to shall have gauges of 200mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled members to be coated on both sides with 'Global Coat' or 'Chromalox' Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave cluses in strict compliance to manufacturer's instructions.  
**Insulation:** SHALL EITHER BE: 1. where there are acoustic ceiling suspended board, a heavy duty 'Aluminium stator' foil shall be installed AND 2. where the steel work is exposed, a 50mm 'Focysto'Board' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white meltable foil.  
**Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.  
**Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.  
**Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Counter Butts With Counter sunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



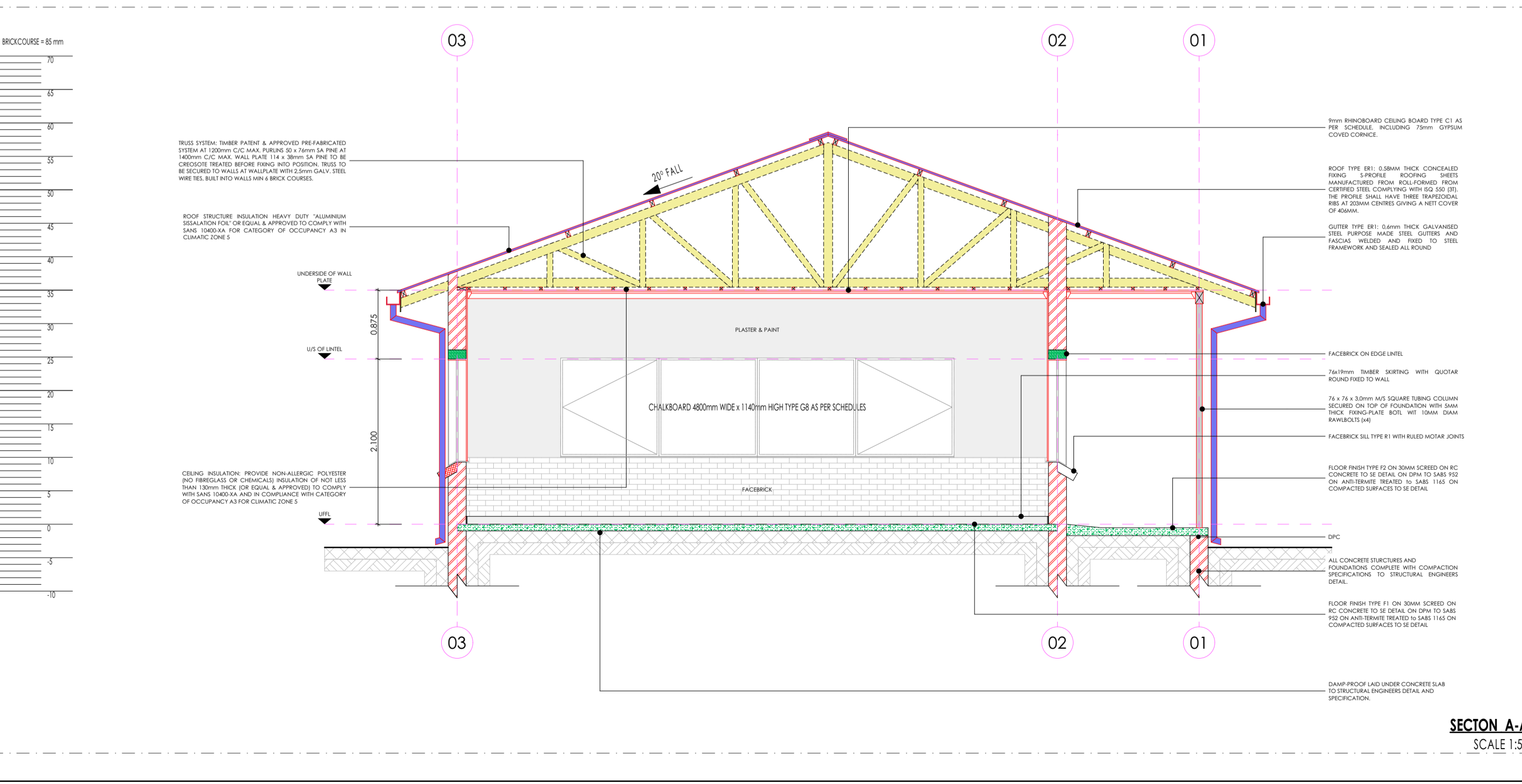
**DOOR SCHEDULE**  
SCALE 1:100

**WINDOW SCHEDULE**  
SCALE 1:100



**SIDE ELEVATION 01**  
SCALE 1:100

**SIDE ELEVATION 02**  
SCALE 1:100



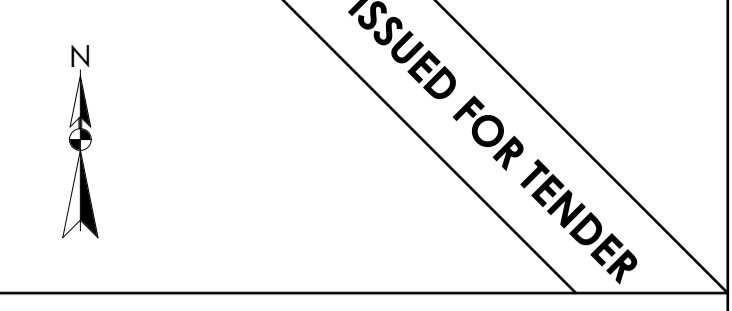
**SECTION A-A**  
SCALE 1:50

### SANITARY SCHEDULE

**WC'S URINALS & SHOWER**  
**11: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermal' Plastic Seat. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.  
**12: CERAMIC PARALEGIC WC**  
 Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever.  
**13: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermal' Plastic Seat. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever. Blank flush plate & offset push button for passage access.  
**14: CERAMIC STANDARD WC (BACK INLET)**  
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable external lever.  
**15: CERAMIC STANDARD WC (CC)**  
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern filled with quality approved heavy duty thermoset steel seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.  
**16: CERAMIC WALL HUNG URINAL**  
 Vitreous china wall hung bowl unit to comply with SABS 497. Supplied with suitable 38mm CP domical gromlet, CP top inlet spreader and 2 hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.  
**S01: SHOWER**  
 2mm thick Enamel steel shower tray 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm R3P grated waste in corner position fitted with shower set and complying with SABS 224 comprising of approved:  
 • Glazed Shower Cubicle with access door as per standard supply with manufacturer and fixed to fit space application  
 • Overhead shower arm with wall flange.  
 • Chrome Plated Shower Head with built-in jetted connector.  
 • Chrome Plated Shower diverter mixer-wal tile with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face.  
**WASH-HAND BASIN**  
**R1: WASH & MIRROR TAP**  
 Vase Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charcoal hole through the centre semi-purchased supplied with a 'Tuscany' pedestal and fitted with 'Ibco Ceramic Washlet' 15mm chrome plated tap with flanged backnut (code KML102) mating tap, mounting kit (code KML102) mating tap, 300-32 CP anti-rattle plug with spindel, 308 basin waste, 365/40 CP bottle Tap, mounting kit and angle valves.  
**R2: DISABLED BASIN**  
 400mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar tap, with 1/4" turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle Tap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.  
**R3: WHITE GLAZED PORCELAIN WASH (VANTY)**  
 Ceramic freesty size 450x350mm wall self-rimming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 1No. chrome plated tap with flanged backnut (code KML102) mating tap, mounting kit and angle valves, 400mm long flexible inlet and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon beaded bevel in accordance to the manufacturer's specifications.  
**R4: SMALL BASIN & 2 FASTENAY & SHOWER SET (FOR WORKSHOPS)**  
 Vitreous china size 455x200mm wall basin to comply with SABS 497. In 2 top hole configuration supplied with integrated overflow and charcoal hole with 2No. pillar taps, chrome plated anti-rattle plug with spindle plug, slotted basin waste, chrome plated bottle Tap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.  
**R5: HEAVY DUTY BASIN & TAP (FOR LABS)**  
 Ceramic freesty size 650x350mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and R5 hole plugged and fitted with 1No. pillar tap. Chrome Plated anti-rattle plug with spindle plug, slotted basin waste, chrome plated bottle Tap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.  
**R6: MEDIC BASIN & FITTINGS (SICK BAY)**  
 Vitreous china size 420mm x 200mm rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated Elbow action pillar tap, with 1/4" turn ceramic disc head and blue & Red indicators water applications and flanged backnut, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle Tap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.  
 Combination of sanitaryware, accessories and general fittings comprising of:  
 • Mirror type G  
 • Paper towel dispenser K8 and bin type K3.  
 • Soap dispenser type K5.  
 • Sanitabloc comprising 2No. rows of wall fit finish R5 as per finishes schedule and gromet in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.  
**SINKS:**  
**K1: STAINLESS STEEL SINK**  
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 908 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.  
**K2: STAINLESS STEEL SINK**  
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 908 fitted with Approved Sink mixer-wall type, with chrome plated overflow panel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.  
**K3: CERAMIC SINK**  
 Ceramic freesty 455 x 335 x 180 mm rectangular laboratory sink without wall, with a centre end outlet. Fitted to wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)  
**K4: SINGLE WASH TROUGH (Inset & 2 no. TAPS)**  
 600mm x 350mm inset wash trough installed from grade 18/10 SS, stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP bibcoaps - plain extended chrome plated, complete with sliding wall flange. Un-slotted sink waste with back nut, plug with slimp, chain and stay, CP 'F' trap, with deep seal and cleaning eye. Rough Brass installation height = 900mm AFFL. Cut out size 555 x 425mm.  
**K5: DOUBLE WASH TROUGH (Inset & 2 no. TAPS)**  
 720 x 555 x 200mm Double end wash trough manufactured from grade 304 (18/10) SS, radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. wall type biblups, with Swivel Outlet, adjustable wall flanges and opposed adjustable connectors. CP, Un-slotted sink waste with back nut and plug with slimp. CP, Double drain back rubber deep seal 'F' trap. Sink mounted on 2No. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

**SANITARY ACCESSORIES**  
**K1: SS TOILET ROLL HOLDER - 2 ROLL**  
 Standard Stainless steel toilet roll holder [2 roll] 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Sate Finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.  
**K2: GLASS MIRROR**  
 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws  
**K3: WASTE BIN**  
 328W x 526H x 203D Waste bin manufactured from 18/10 Stainless Steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.  
**K4: SANITARY BIN (PLASTIC)**  
 160mm x 320mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K5: SOAP HOLDER**  
 Single semi-recessed ceramic soap dish. Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K6: WALL GRAB RAILS-PARALEGIC**  
 Stainless steel 914 x 90 x 20mm diameter wall grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K7: GRAB RAILS (RIGHT HAND)-PARALEGIC**  
 Stainless steel 914 x 90 x 20mm diameter wall grab rail and side table grab rail with 450mm high centre flange. In satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K8: PAPER TOWEL DISPENSER**  
 330mmWx350mmX230mm Tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K9: SOAP DISPENSER (ISH- WALL MOUNTED)**  
 115W x 220H x 110D Stainless steel hand free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K10: ALUMINIUM COAT HOOKS (MULTI TRACK)**  
 820mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.  
**K11: HAND DRYER (Hands free)**  
 As per Electric Engineers specification  
**K12: TOWEL RAIL**  
 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.  
**K13: SHOWER CURTAIN RAIL (SLIGHT)**  
 20mm dia. Standard chrome plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

**GENERAL FIXTURES**  
**G1: DOOR PROTECTOR**  
 200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as indicated.  
**G2: PROTECTOR SCREEN**  
 Full door PVC Screen size 2440 x 1850mm (Viewing area 2340 x 1750mm) with wall-mounted code SC4000 Keystone Bracket Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.  
**G3: FINBOARD 1500W X 1000H**  
 Finboard size 1500mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.  
**G4: FINBOARD 300W X 1200H**  
 Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.  
**G5: WINDOW NORMAL BUNDS (vertical blinds)**  
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel link. The mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (faced over the window opening) by means of concealed type fixing brackets.  
**G6: FLOOR DRAIN**  
 Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.  
**G7: 36 FLOOR EXPANSION JOINT COVER**  
 Concealed heavy-duty fibreglass fibre movement joint cover, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.  
**G8: CHALKBOARDS - GREEN SURFACE COLOUR**  
 Vitreus system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamel steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362024 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel utility chalk board surfaces to be matt and freely structured, olive green in colour. Vitreus Steel Reference - Chalk Board Green (LM197)2, supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



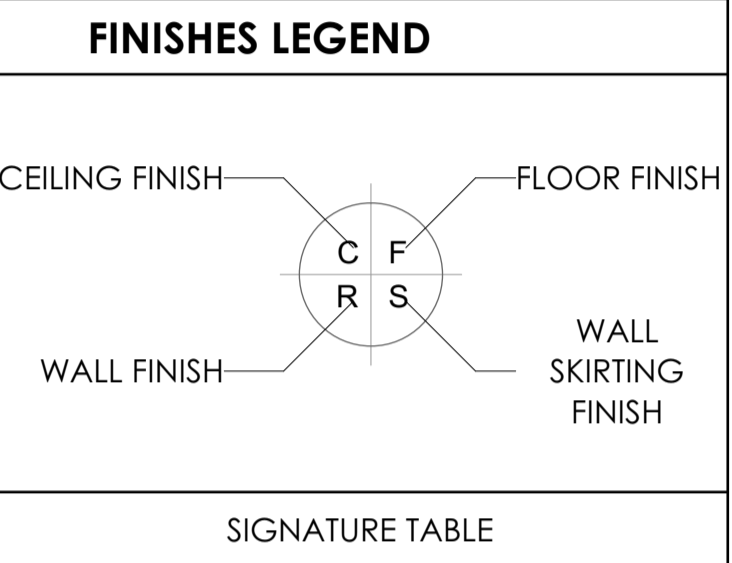
**LEGEND**

- (Solid red line) NEW WALLS
- (Dashed red line) EXISTING WALL TO BE RETAINED
- (Dotted red line) EXISTING WALL TO BE DEMOLISHED
- (Red dashed line with dots) NEW FIXTURES & FITTING TO BE INSTALLED
- (Red dashed line with cross-hatch) ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

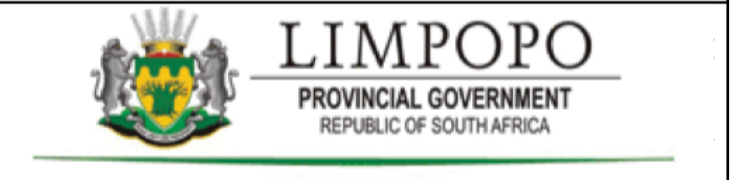
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| FILE EXAMINER      |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |



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

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**

**CONTRACT - SECTION DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL** 4

**WORK DESCRIPTION - SUB-DIVISION**

**BLOCK PJ 01 - 04 CLASSROOM**

**SECTION | SIDE ELEVATION | SCHEDULES**

| DRG. NO.                 | E08 101-03 | 03/03 | ITEM No.         |
|--------------------------|------------|-------|------------------|
| DESIGN                   | NA         | SMIN  | DRAWN            |
| DATE                     | AS SHOWN   | T.M   | CHECK            |
| RESPONSIBLE PROFESSIONAL |            |       |                  |
| NOV 2019                 | T. MANYAZA |       | Pr/Arch 43981757 |
| DRAWING CO-ORDINATED     |            |       |                  |

**CONSULTANT**

**TECTURA - INTERNATIONAL!**

|  |   |  |
|--|---|--|
| GARDEN<br>BRANCH HOUSE<br>3000 CATHARINE ROAD<br>CATHERINE 5517<br>PHONE: 011 252 9974<br>FACSIMILE: 011 252 9975<br>CELL: 081 231 2064<br>TEL: 011 252 9974<br>TEL: 011 252 9975<br>TEL: 011 252 9976<br>TEL: 011 252 9977<br>TEL: 011 252 9978<br>TEL: 011 252 9979<br>TEL: 011 252 9980 | NORTHWEST<br>BRANCH HOUSE<br>3000 CATHARINE ROAD<br>CATHERINE 5517<br>PHONE: 011 252 9974<br>FACSIMILE: 011 252 9975<br>CELL: 081 231 2064<br>TEL: 011 252 9974<br>TEL: 011 252 9975<br>TEL: 011 252 9976<br>TEL: 011 252 9977<br>TEL: 011 252 9978<br>TEL: 011 252 9979<br>TEL: 011 252 9980 | EASTERN CAPE<br>BRANCH HOUSE<br>3000 CATHARINE ROAD<br>CATHERINE 5517<br>PHONE: 011 252 9974<br>FACSIMILE: 011 252 9975<br>CELL: 081 231 2064<br>TEL: 011 252 9974<br>TEL: 011 252 9975<br>TEL: 011 252 9976<br>TEL: 011 252 9977<br>TEL: 011 252 9978<br>TEL: 011 252 9979<br>TEL: 011 252 9980 |
|--|---|--|

**CONTRACTOR**

|            |                       |           |     |
|------------|-----------------------|-----------|-----|
| CAD SYSTEM | AUTOCAD               | FILE NAME |     |
| SIZE       | PROJECT NUMBER        |           | REV |
| A1         | LDPW - PROF/16002/E08 |           | 0   |



**FINISHES LEGEND**

**FLOORS:**

**F1- FULLY FLEXIBLE TILES (CORROSION RESISTANT & ANTI-SLIPPER)**  
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581:1992 (or later revision), and laid to SABS D70 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2- PORCELAIN TILES - MATT**  
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds With Thickness/Specification in strict compliance to manufacturer's instructions and SABS Specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3- CARPET TILES**  
500mm x 500mm, 100% PEV staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DN S4324 on wire test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

**F4- CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F5- EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

**F6- GRANULITIC FINISH**  
22 mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7- INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.

**F8- SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPER)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS D70 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

**F9- GRAVEL FINISH ON SAND LAYER**  
32mm Gravel on Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1- HARDWOOD OR EQUAL AND APPROVED**  
75 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and milled corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2- CERAMIC TILE SKIRTING**  
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3- CEMENT SAND SCREED**  
75mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

**WALL FINISHES:**

**W1- FACE BRICK**  
F88 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**W2- EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

**W3- ALKYD (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

**W4- GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 580 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**W5- CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

**CEILING AND CORNICE:**

**C1- 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCell Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Spant Point Grabber Screws 22mm at maximum 150mm centres. Apply Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

**C2- FIBRE CEMENT BOARDS (JOINTS)**  
6mm thick GypCell Fibreless Fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Spant Point Grabber Screws 22mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

**C3- PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calotex Pin Perforated or Fine Fissured OR EQUAL & APPROVED laid into ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All tile notches to be in line. Suspends all full length 1200 Cross tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4- EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Sabs 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab pva.

**ROOF COVERING AND INSULATION:**

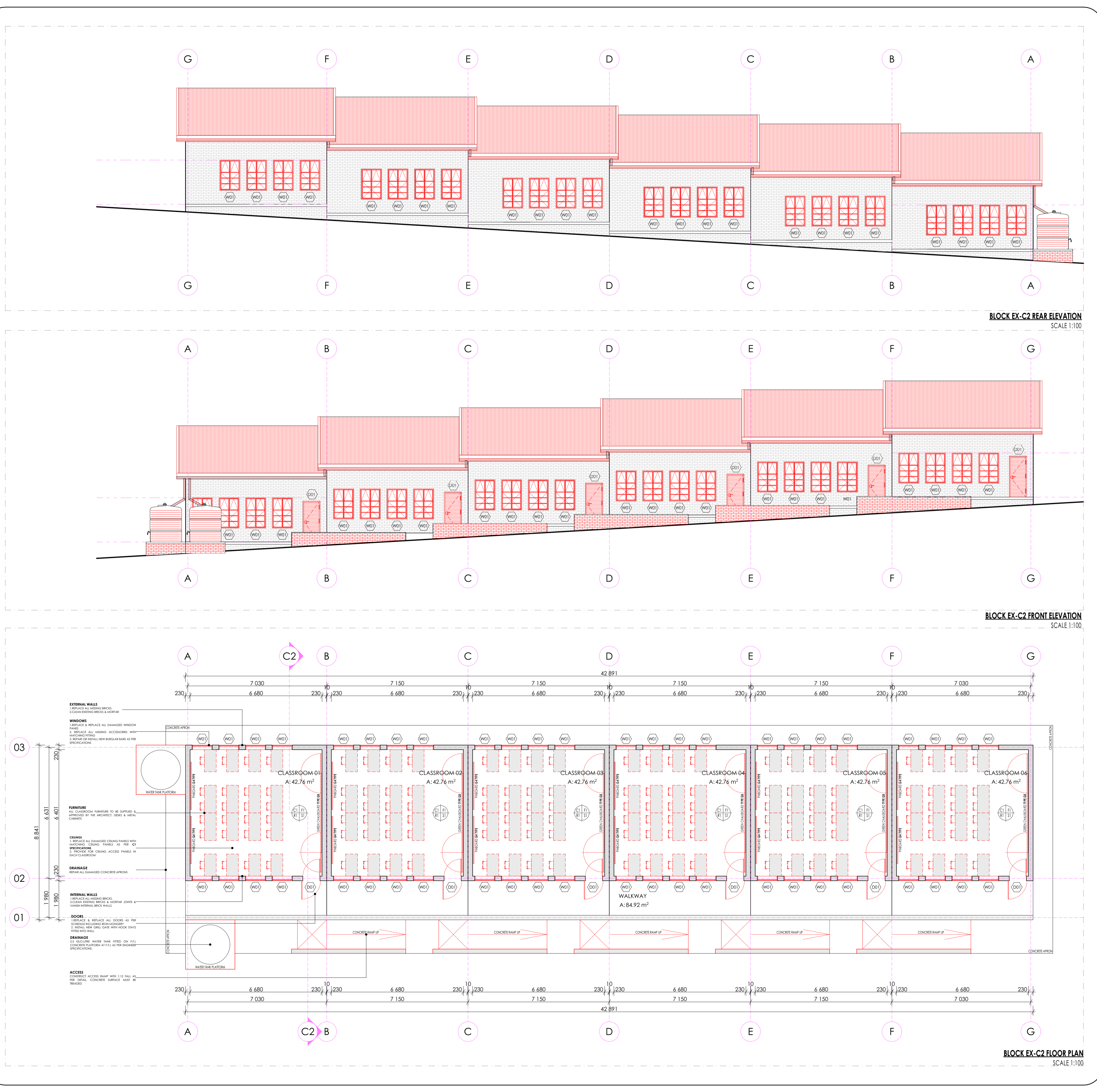
**R1- EMBOSSED ROOFING SHEET (TWO SIDES)**  
Roofing Sheet: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with S2 350 (3). The profile shall have three trapezoidal ribs at 203mm centres giving a net cover of 406mm. The rib height shall be 41mm and provide copillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Gibco Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave covers in strict compliance to manufacturer's instructions.

**Insulation:** SHALL EITHER BE 1) where there are acoustic ceilings suspended board, a heavy duty "Aluminium insulation foil" shall be installed AND 2) where the steel work is exposed, a 50mm "Factoryboard" manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.

**Galvanized Steel (G) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Deep Commercial Grade Steel With Class 275 Galvanizing To Comply With SABS 934 or latest revision Fixed to Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

**Downpipe:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class 275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.

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

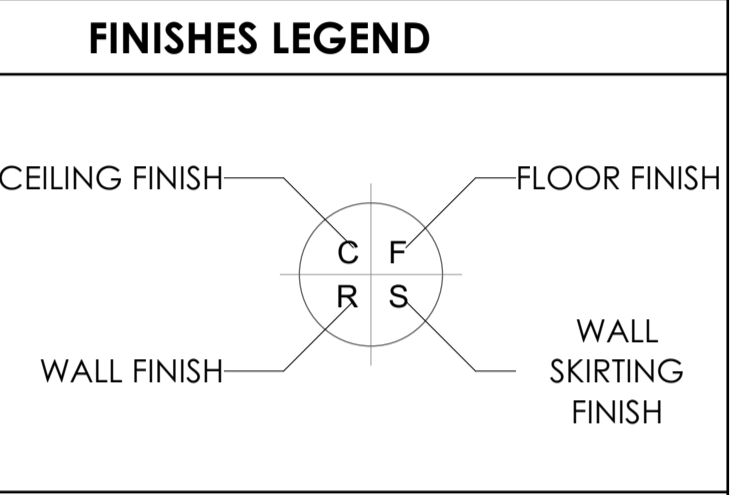


**ISSUED FOR TENDER**

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| 0        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
INSTITUTION

**PHAPHAMANI PRIMARY - 924 650 535**

CONTRACT - SECTION  
**RESTORATIVES, REPAIRS & ADDITIONS**

DISCIPLINE  
**DOCUMENTATION & PROCUREMENT**

ARCHITECTURAL 4  
WORK DESCRIPTION - SUB DIVISION  
**RENOVATION DRAWINGS - STAGE 04**

DRAWING DESCRIPTION  
**C2 PLAN | FRONT & REAR ELEVATION**

| DRG. NO. | E08-102-01  | 01/02 | ITEM No.           |
|----------|-------------|-------|--------------------|
| DESIGN   | NA          | SMIN  | DRAWN              |
| DATE     | AS SHOWN    | T.M   | CHECK              |
| NOV 2019 | T. MANYADZA |       | P/Arch<br>43981757 |

DRAWING CO-ORDINATED

**CONSULTANT**  
**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |



FINISHES LEGEND

FLOORS:

F1. FULLY FLEXIBLE TILES (Corrosive Resistant) & Anti-Slip) 300 x 300 x 2.0mm thick (colour type to architects approval)...

F2. PORCELAIN TILES - MATI 600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern...

F3. CARPET Tiles 500mm x 500mm x 1008 RFX Staple fibre carpet tiles to comply with SABS 1419 (heavy commercial)...

F4. CEMENT SAND SCREED 30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083...

F5. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS 60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification...

F6. GRANULITIC FINISH 22mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand...

F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS) 220mm x 197mm x 80mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058...

F8. SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPER) 2.5mm thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting...

F9. GRAVEL FINISH ON SAND LAYER 30mm Gravel On Compacted Sand Layer Base as Per PE Details installed in All Duct Chambers...

SKIRTING: S1. HARDWOOD OR EQUAL AND APPROVED 15x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099...

S2. CERAMIC TILE SKIRTING 600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives...

S3. CEMENT SAND SCREED 75mm high x 20mm thick hardened cement sand screed skirting covered at 50mm dia. to form a continuous joint...

WALL FINISHES: W1. FACE BRICK F88 face brick in common running bond to comply with SABS 227 and forming part of the structural work...

W2. EMULSION (PVA) PAINT - FULL HEIGHT 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat...

W3. ENAMEL PAINT 2 no. coats matt (egg shell) finish alkali (enamel) paint to SABS 650, type 2 applied on plastered surfaces...

W4. GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'R5'...

W5. CERAMIC WALL TILES - FULL HEIGHT 600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or Latest revision...

CEILING AND CORNICE:

C1. 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED Gyproc Classic gypsum plasterboard ceiling...

C2. FIBRE CEMENT BOARDS (H-JOINTED) 6mm thick Gyproc Restar 7 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm...

C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED 1200mm x 600mm x 15mm Gyproc Calotex Pin Perforated or Fibre Fused OR EQUAL & APPROVED laid in Donn ceiling grid...

C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED Emulsion (PVA) Paint on skimmed Plastered Spac 2no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

ROOF COVERING AND INSULATION: R1. EMBOSSED ROOFING SHEET (TWO SIDES) Roofing Sheets: 0.88mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel...

R2. GALVANIZED STEEL (GIGI GUTTER) 150mm wide x 100mm Deep x 0.6mm Envel Gutter of Commercial Grade Steel With Class 275 Galvanizing...

R3. ALUMINUM CEILING BEAMS 1x where there are acoustic ceilings suspended board a heavy duty Aluminium slatation foil shall be installed AND 2 where the steel work is exposed...

R4. DOWNPIPES 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class 275 Galvanizing to Comply With SABS 934 or Latest Revision...

R5. FACIA BOARD 750 x 10 mm Cement Facia/Barge Board, Screw Fixed to Truss Ends & Counter Balten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic PVA.

DOOR SCHEDULE:

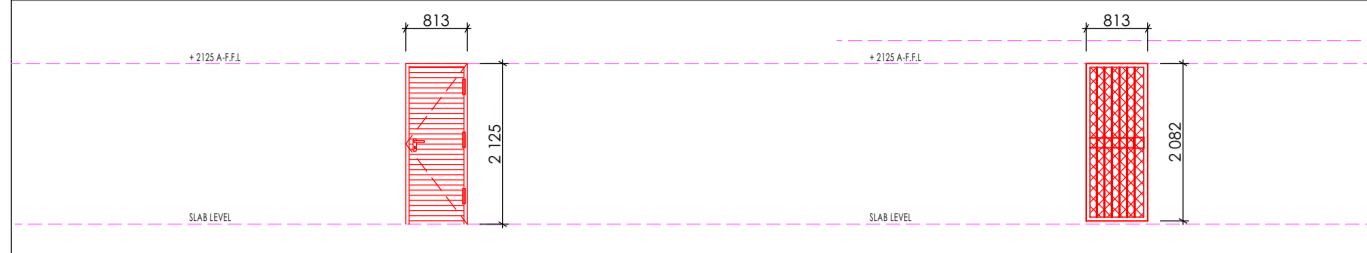
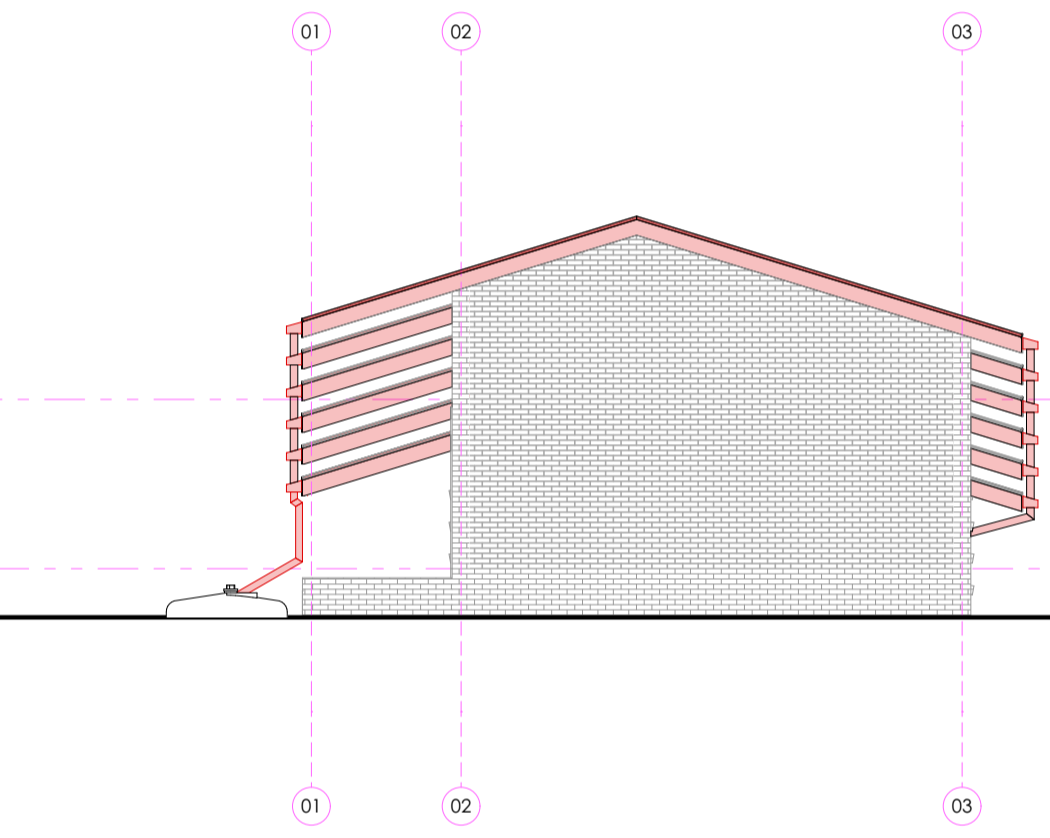


Table with 2 columns: EXTERIOR DOOR and BURGLAR DOOR (SINGLE). Includes columns for QUANTITY, DOOR DESCRIPTION, FRAME, FRAME FINISH, DOOR FINISH, IRON MONGERY, and HINGES.

BLOCK EX-C2 DOOR SCHEDULE

SCALE 1:100



BLOCK EX-C2 LEFT ELEVATION

SCALE 1:100

WINDOW SCHEDULE:

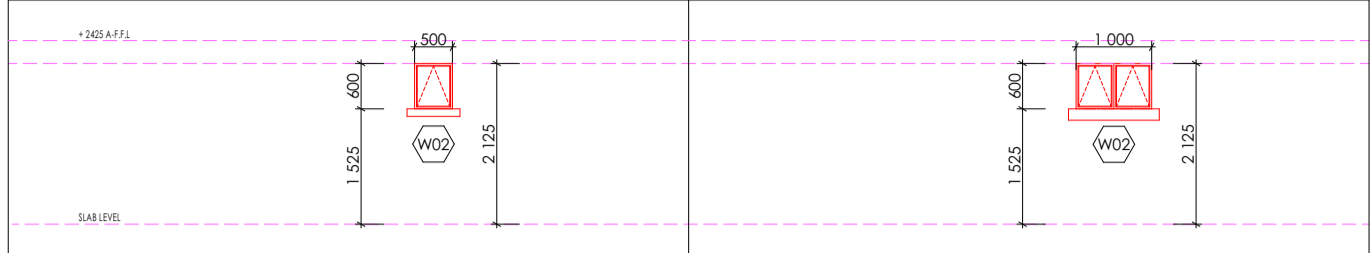
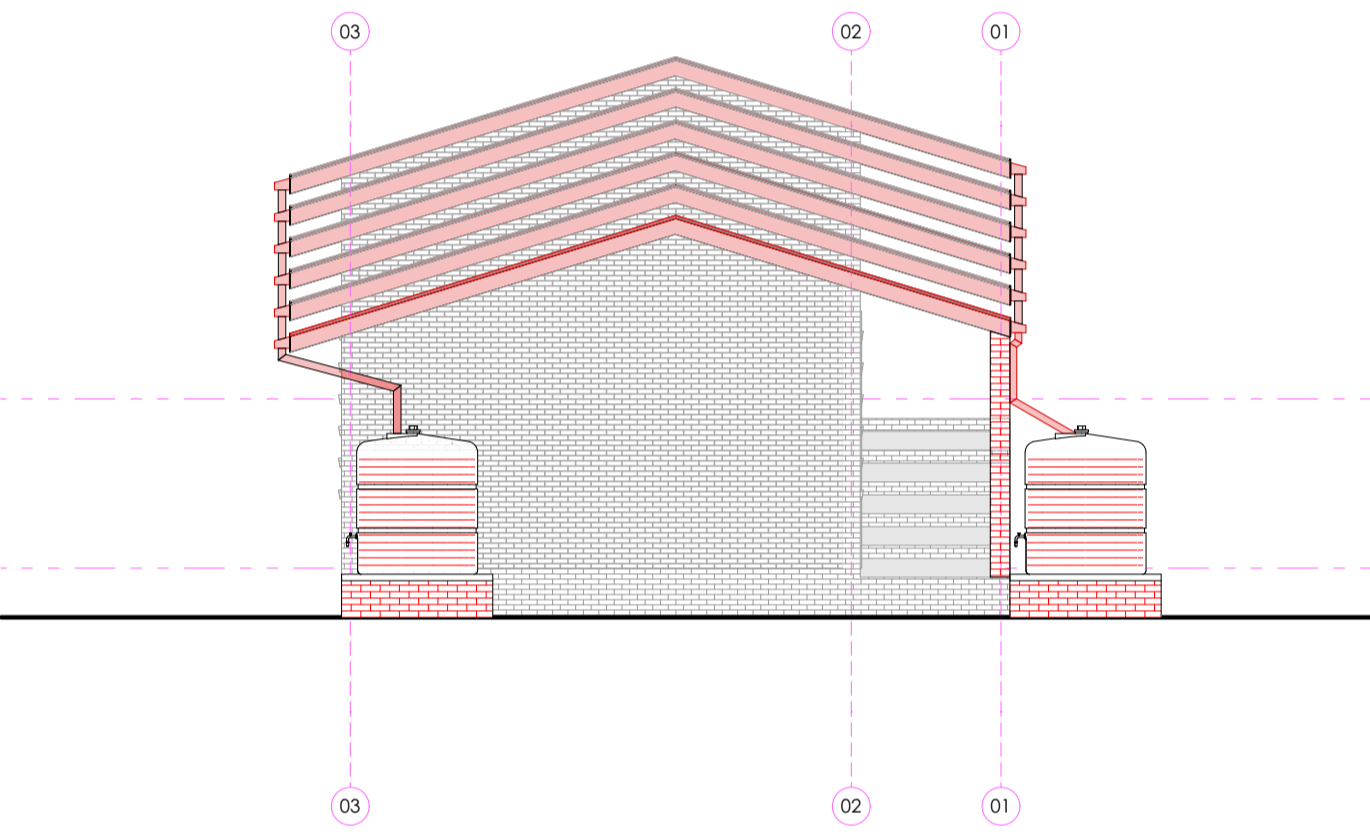


Table with 2 columns: W01 and W02. Includes columns for QUANTITY, WINDOW DESCRIPTION, FRAME, GLASS, WINDOW FITTINGS, IRON MONGERY, and HINGES.

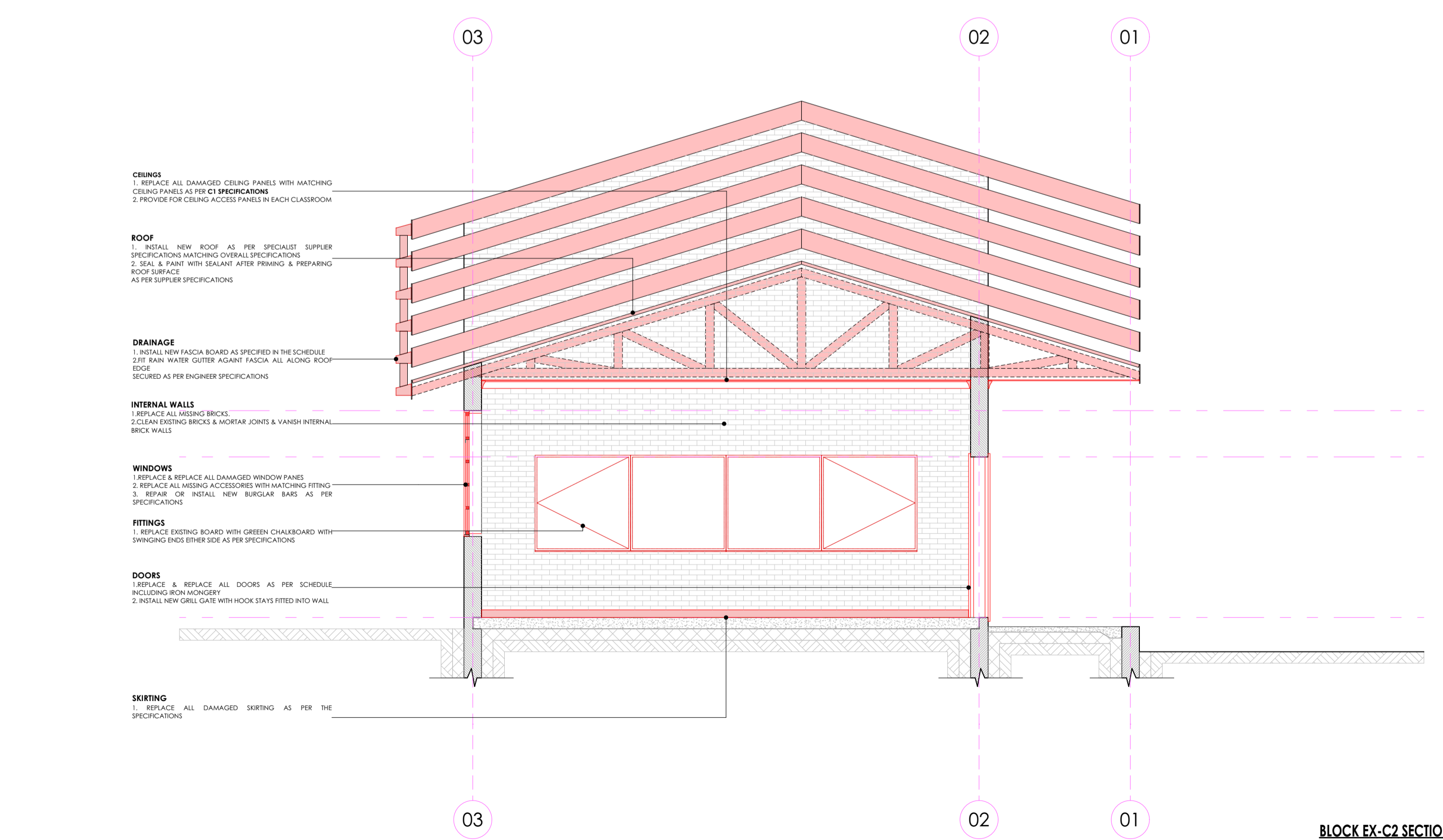
BLOCK EX-C2 WINDOW SCHEDULE

SCALE 1:100



BLOCK EX-C2 RIGHT ELEVATION

SCALE 1:100



BLOCK EX-C2 SECTION C2

SCALE 1:50

SANITARY SCHEDULE

WC'S URINALS & SHOWER

W1. CERAMIC STANDARD WC (C/C) - CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan...

W2. CERAMIC PARALEGIC WC Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497...

W3. CERAMIC PARALEGIC WC (C/C) - CONCEALED CISTERN Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan...

W4. CERAMIC WALL HUNG URINAL Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve...

W5. CERAMIC STANDARD WC (C/C) Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497...

W6. CERAMIC WALL HUNG URINAL Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve...

W7. SHOWER 2mm thick Enamel steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners...

W8. DISABLED BATH 1200mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W9. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in one top hole configuration supplied without overflow...

W10. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W11. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W12. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W13. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W14. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

W15. MEDIC BASIN & FITTINGS (SICK BAY) Vitreous china size 450x350mm oval self-rimming lavatory basin to comply with SABS 497 in two top hole configuration fitted with 2 No chrome plated elbow action pillar-taps...

SANITARY ACCESSORIES

A1. SS TOILET ROLL HOLDER - 2 ROLL Standard stainless steel toilet roll holder (2) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 1810 Stainless Steel...

A2. SS WASTE BIN 325W x 525H x 203D Waste bin manufactured from 1810 Stainless Steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories...

A3. SANITARY BIN (PLASTIC) 190mm x 200mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Liters per pack. Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

A4. SOAP HOLDER Single semi-recessed ceramic soap dish. Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

A5. WALL GRAB BARS-PARALEGIC Stainless steel 914 x 19 x 32mm diameter wall grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs...

A6. PAPER TOWEL DISPENSER 330mmWx365mmx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories...

A7. SHOWER CURTAIN RAIL (aluminum) 20mm dia. standard chromum plated shower curtain rail 1300mm long with flanged ends and screw CP fixing height as per PA's drawing.

GENERAL FIXTURES

G1. DOOR PROTECTOR 200mm wide uPVC Door Protector manufactured in high impact resistant rigid uPVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications...

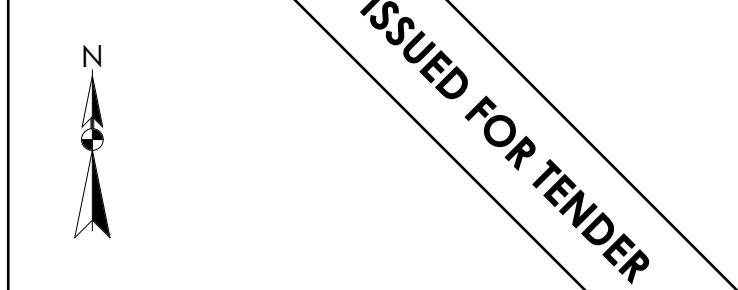
G2. PROTECTOR SCREWS Full duty uPVC screws size 344 x 165mm (screwing area 234 x 175mm) with wall-mounted code SC040 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories...

G3. FINBOARD 1500W x 1000H Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround milled at the corners...

G4. WINDOW NORMAL BUNDS (vertical blinds) 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism...

G5. FLOOR DRAIN Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.

G6. CHALKBOARDS - GREEN SURFACE COLOUR Vitreous system 1000 standard WHITEBOARD OR EQUAL & APPROVED vitreous enamel steel utility school chalkboards wall-mounted size 480mm x 1140mm high...

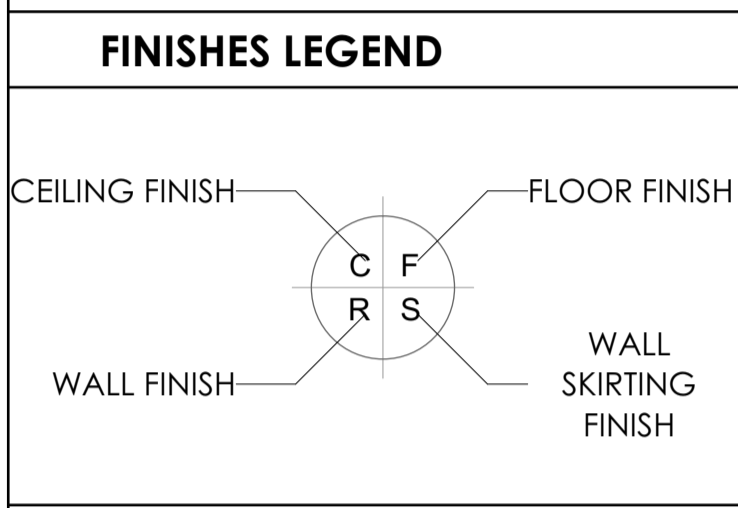


LEGEND table with color-coded boxes and descriptions: NEW WALLS (red), EXISTING WALL TO BE RETAINED (grey), EXISTING WALL TO BE DEMOLISHED (yellow), NEW FIXTURES & FITTING TO BE INSTALLED (dashed red), ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED (red with dashed lines).

NOTES ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE GRADED, NOT TO SCALED FROM THIS DRAWING

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



SIGNATURE TABLE table with columns: DISCIPLINE, SIGN, DATE. Includes rows for CLIENT, FIRE EXAMINER, ENVIRONMENTAL, ROADS / STORMWATER, WATER & SANITATION.

REVISIONS table with columns: REV. NO., DATE, DESCRIPTION. Includes a row for 0 on JUL 21 for FIRST ISSUE FOR TENDER.

LIMPOPO PROVINCIAL GOVERNMENT REPUBLIC OF SOUTH AFRICA. PUBLIC WORKS, ROADS & INFRASTRUCTURE INSTITUTION. PHAPHAMANI PRIMARY - 924 650 535. RESTORATIVES, REPAIRS & ADDITIONS. DOCUMENTATION & PROCUREMENT. ARCHITECTURAL 4. RENOVATION DRAWINGS - STAGE 04. C2 SECTION | SIDE ELEVATIONS | SCHEDULES. CONSULTANT: TECTURA - INTERNATIONAL! CONTRACTOR: T. MANDAZA.



**FINISHES LEGEND**

**FOILS:**  
**F1: FULLY FLEXIBLE TILES** (Corrosive Resistant & Anti-Slippery)  
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification S81: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2: PORCELAIN TILES - MATI**  
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CARPET TILES**  
520mm x 520mm x 1008 RFX staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with BS 1307 West Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 470 on fire rating, and BS S4324 on wire test and 60 body test at less than 2kV at 25Hz R/F on static electricity. Colour and pattern to architects approval.

**F4: CEMENT SAND SCREED**  
30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

**F6: GRANOUTCURE FINISH**  
22 mm thick unfinished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass widening strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)**  
2.5mm thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed with conductive adhesive to SABS D70 or Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
30mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**  
**S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with Cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
75mm high x 20mm thick hardened cement sand screed skirting covered at 50 mm dia, to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

**WALL FINISHES:**  
**F1: FACE BRICK**  
F8 Face brick in common bonding bond to comply with SABS 227 and forming part of the structural work.

**F2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 81 grade 1, in accordance to manufacturer's instructions.

**F3: ENAMEL PAINT**  
2 no. coats matt (egg shell) finish alkyd (jenamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 81 grade 1, in accordance to manufacturer's instructions.

**F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL, paint to specification 'S2' To Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**F5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

**CEILING AND CORNICE:**  
**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
'GypClac' Classic gypsum plasterboard ceilings EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.

**C2: FIBRE CEMENT BOARDS (IS-JOINTED)**  
6mm thick GypClac Fibre Cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinobond to all joints and skim the ceiling using Gyproc Rhinobond.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fine Finetex OR EQUAL & APPROVED laid into ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Straps 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All the notches to be in line. Spine of full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Staircase Profiles/Side 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

**ROOF COVERING AND INSULATION:**  
**F01: EMBOSSED SKIRTING SHEET (TWO SIDES)**  
Roofing Sheets: 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with BS 550 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide copulay breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromolok Coating' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

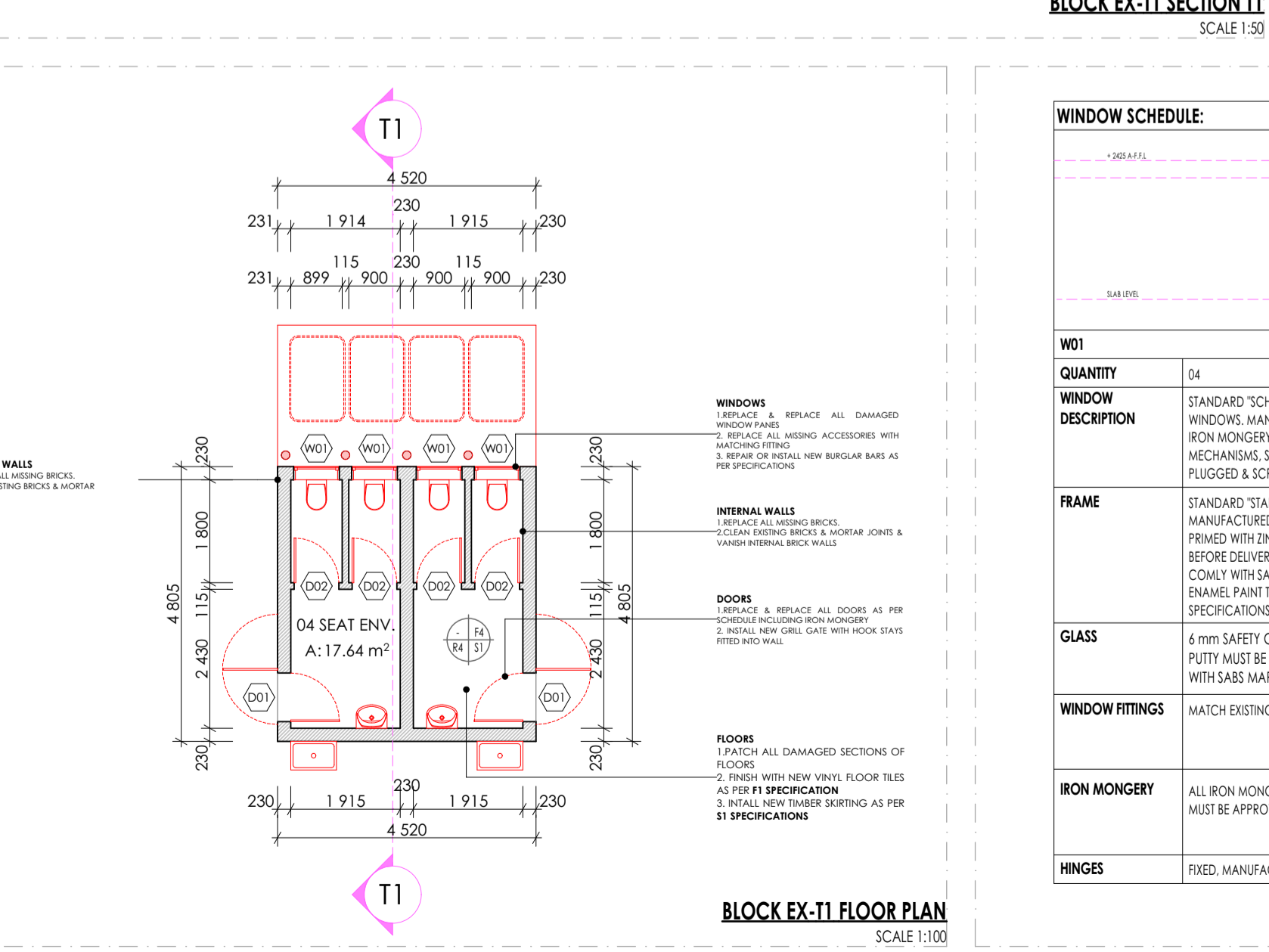
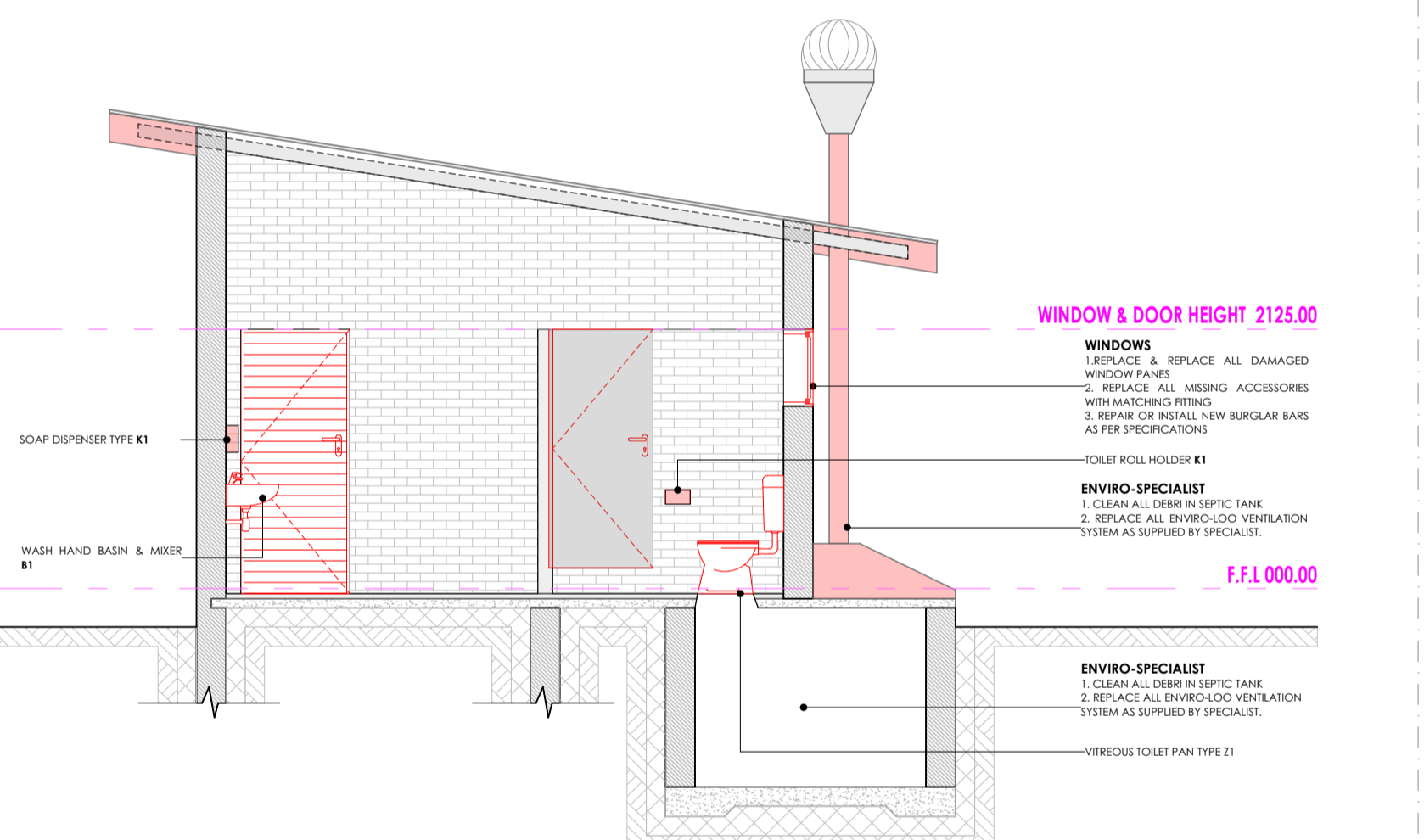
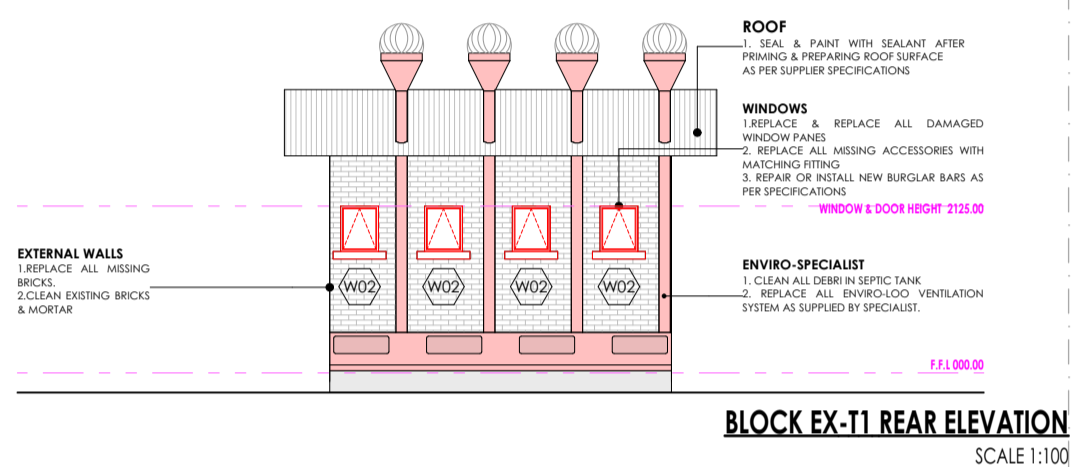
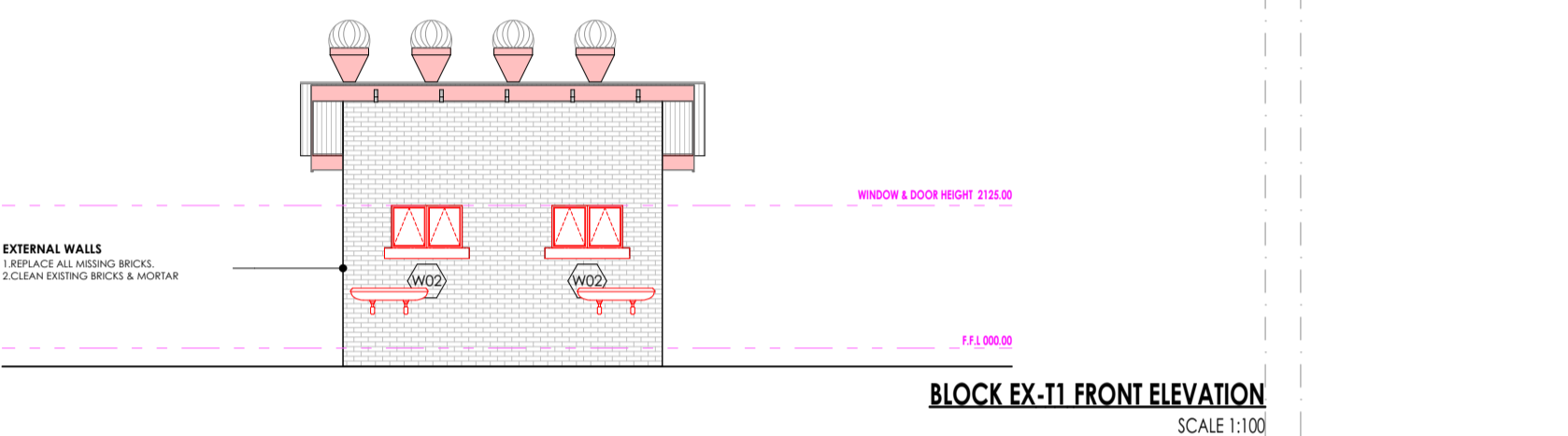
**F02: WALL SHEET BS 1: where there are acoustic ceilings suspended board, a heavy duty 'Aluminium isolation foil' shall be installed AND 2: where the steel work is exposed, a 300mm 'Fibroglass' manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>2</sup> and finished with white melinated foil.**

**Galvanized Steel (GGI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Envek Gutter of Commercial Grade With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Downpipes.

**Dampstop:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws. Manufacturer installation instructions.

**Facia board:** 250 x 110 x 10mm Fibre Cement Facia/Barge Board, Screw Fixed To Stud And 4 Counter Bolts With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

Table with 3 columns: EXTERIOR DOOR, BURGLAR DOOR (SINGLE), INTERIOR DOOR. Rows include Quantity, Door Description, Frame, Frame Finish, Door Finish, Ironmongery, and Hinges.



WINDOW SCHEDULE table with columns for Window ID, Quantity, Window Description, Frame, Glass, Window Fittings, Ironmongery, and Hinges.

**SANITARY SCHEDULE**

**WC'S URINALS & SHOWER**  
**W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

**W2: CERAMIC PARALEGIC WC**  
Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermoast Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

**W4: CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**W5: CERAMIC STANDARD WC (CC)**  
Vitreous china 90° outlet WC to comply with SABS 497 Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoplast seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

**W6: CERAMIC WALL HUNG URINAL**  
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Fitted with suitable 38mm CP domical grotting, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

**W7: SHOWER**  
20mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
• Grated Shower Cubic with access door as per standard supply with manufacturer and sized to fit space configuration.  
• Overhead shower arm with wall flange.  
• Chrome Plated Shower Head with dual-jointed connector.

**W8: HAND WASH BASIN**  
**W1: WUB & MIRROR TAP**  
Vital Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscany' pedestal and fitted with 'No. 306 Waterless' 15mm chrome pushbutton operating plate top with flanged bracket (code KM2102) meeting tap, 300-32 CP anti-bell plug with angle valve.

**W2: DISABLED BASIN**  
20mm semi rounded lavatory basin to comply with SABS 497. In two tap hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

**W3: WHITE GLAZED PORCELAIN WUB (VANITY)**  
Ceramic freecy size 450x350mm oval self-venting vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with 1No. chrome plated tap with flanged bracket (code KM2102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity top with silicon beaded contact at joints in strict accordance to manufacturer's specifications.

**W4: SMALL BASIN & 2 TAPSTAY & SHOWER SET (FOR WORKSHOPS)**  
Ceramic freecy size 450x200mm wall basin to comply with SABS 497. In 2 tap hole configuration supplied with integrated overflow and charity hole with 2No. pillar taps, chrome plated anti-bell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

**W5: HEAVY DUTY BASIN & NO. TAP (FOR LABS)**  
Ceramic freecy size 500x350mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and R45 hole plugged and fitted with 1No. pillar tap. Chrome Plated anti-bell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

**W6: MEDIC BASIN & FITNESS (SICK BAY)**  
Vitreous china size 400mm x 200mm rounded lavatory basin to comply with SABS 497. In two tap hole configuration fitted with 2 No chrome plated Elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.

**W7: CERAMIC SINK**  
Ceramic freecy 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)

**W8: SINKLESS WASH TROUGH (Type 1) & 2 no. TAPS**  
2000 x 550 x 150mm stainless steel wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plain extended chrome plate, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with strip, chain and stop, CP Tap, 1/4 inch, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.

**W9: DOUBLE WASH TROUGH (Type 1) & 2 no. TAPS**  
2200 x 550 x 200mm Double bowl wash trough manufactured from grade 304 (18/10) S.S. radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. wall type bibbits, with Swivel Outlet, adjustable wall flanges and exposed adjustable connectors. CP Un-slotted sink waste with back nut and plug with strip, CP Double drain back rubber deep seal Tap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

**SANITARY ACCESSORIES**  
**K1: SS TOILET ROLL HOLDER & 2 ROLL**  
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

**K2: GLASS MIRROR**  
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws.

**K3: 35 WASTE BIN**  
280W x 520H x 200D Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

**K4: SANITARY BIN (PLASTIC)**  
190mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**K5: SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**K6: WALL GRAB RAILS-PARALEGIC**  
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

**K7: GRAB RAILS (RIGHT-LEFT HAND)-PARALEGIC**  
Stainless steel 914 x 90 x 32mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

**K8: PAPER TOWEL DISPENSER**  
330mmWx365mmHx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**K9: SOAP DISPENSER WASH-WALL MOUNTED**  
115W x 200H x 110D Stainless Steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**K10: ALUMINIUM COAT HOOKS (MULTI TRACK)**  
800mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.

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

**K12: TOWEL RAIL**  
35mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

**K13: SHOWER CURTAIN RAIL (slatrig)**  
20mm dia. standard chromom plated shower curtain rail 1800mm long with flanged ends and screws CP fixing height as per PA's drawing.

**GENERAL FIXTURES**  
**G1: DOOR PROTECTOR**  
200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.

**G2: PROTECTOR SCREENS**  
Full-Door PVC Screen Size: 2240 x 1850mm (Including edge 2240 x 1750mm) with wall-mounted code SCA000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict compliance with manufactures instructions.

**G3: FINBARO 150W x 100H**  
Finbaro size 100mm H x 150mm W comprising of laminated self board core pining material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

**G4: FINBARO 300W x 120H**  
Finbaro size 120mm H x 300mm W comprising of laminated self board core pining material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

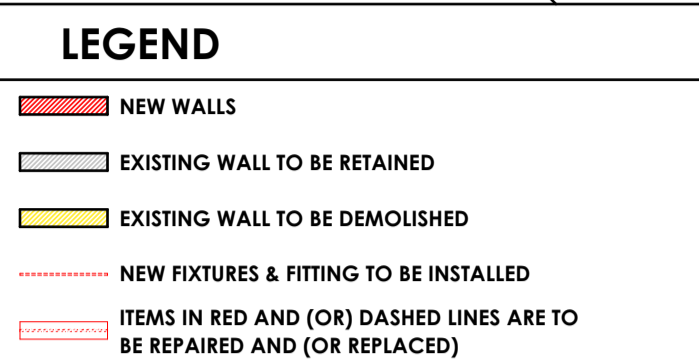
**G5: WINDOW NORMAL BINDS (vertical blinds)**  
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to face fixed (faced over the window opening) by means of concealed type fixing brackets.

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

**G7: 35 FLOOR EXPANSION JOINT COVER**  
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

**G8: CHALKBOARDS - GREEN SURFACE COLOUR**  
Vitrea system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CE 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitreux Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

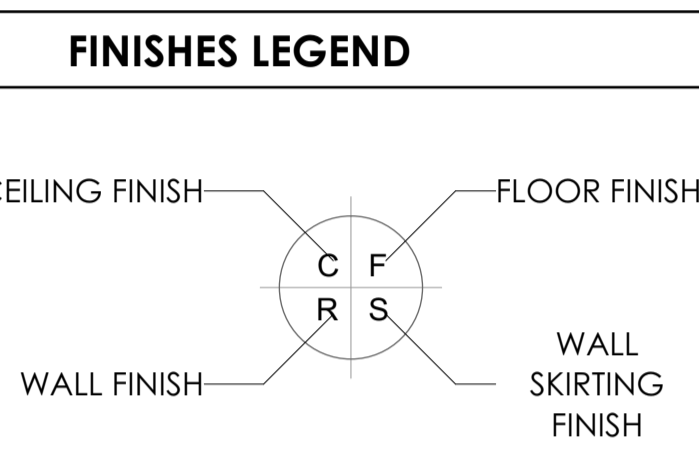
ISSUED FOR TENDER



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SIGNATURE TABLE table with columns for Discipline, Client, Fire Examiner, Environmental, Roads, Stormwater, and Water & Sanitation.

REVISIONS table with columns for Rev. No., Date, and Description.



DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

STAGE 04 ARCHITECTURAL

EX-T1 FLOOR / SECTION | SIDES | SCHEDULES

Table with columns for DRG No., Design, Date, and Item No., showing details for E08-201-01.

Table with columns for Name, Position, and Signature, showing details for T. MANTAYAZA.

CONSULTANT: TECTURA - INTERNATIONAL

Contact information for TECTURA - INTERNATIONAL, including address, phone, and email details for various offices.

CONTRACTOR

Table with columns for CAD System, Size, and Project Number, showing details for AUTOCAD and LDPW - PROF/16002/E08.



## FINISHES LEGEND

### ROOFS:

**F1: FULLY FLEXIBLE TILES** (Corrosive Resistant & Anti-Slip) 300 x 300 x 2.0mm thick (colour type to architect's approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SANS Specification S81: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2: PORCELAIN TILES - MATI** 600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds / Specification in strict compliance to manufacturer's specifications and SABS Specification. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CEMENT SAND SCREED** 30mm thick policed cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS** 65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

**F6: GRANOUTCOURT FINISH** 22mm thick unfinned Granocourt finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)** 220mm x 197mm x 80mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPER)** 2.5mm thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Sced with conductive adhesive to SABS D20 or latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER** 30mm Gravel On Compacted Sand Layer Base as Per P&E Details installed in All Duct Chambers Accommodating Sanitary Services.

**S1: HARDWOOD OR EQUAL AND APPROVED** 18x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING** 600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with Cove base and slight tops. Complete with corner and top trims. Filings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED** 75mm high x 20mm thick hardened cement sand screed skirting cover at 50mm dia, to form a continuous joint with the adjoining screed finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

### WALL FINISHES:

**F1: FACE BRICK** F8 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**F2: EMULSION (PVA) PAINT - FULL HEIGHT** 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 81 grade 1, in accordance to manufacturer's instructions.

**F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO** Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification "S", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL, paint to specification "B2" to comply with SABS 830 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**F6: CERAMIC WALL TILES - FULL HEIGHT** 600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

### CEILING AND CORNICE:

**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED** Gyproc Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.

**C2: FIBRE CEMENT BOARDS (R-JOINTS)** 6mm thick Gyproc Fibre Cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing, non-combustible to SANS 10171:5) fixed to Ex 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA exterior quality paint colour to PA's approval. Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED** 1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Dorr ceiling grid and secured into place using Dorr Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees (8mm thickness, 2150 gage, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strip 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strip 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strip 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED** Tensibar (PVA) Paint on Shimmed Profiles Size: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum panel on concrete slab.

### ROOF COVERING AND INSULATION:

**R1: EMBOSSED ROOFING SHEET (TWO SIDES)** Roofing Sheets: 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (B). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromokote Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

**Insulation:** SHALL BE: 80mm thick acoustic ceilings suspended board, a heavy duty "Aluminium insulation foil" shall be installed AND 2 where the steel work is exposed. A 50mm "Fastrayboard" manufactured from noncombustible glass fibres and therm-set resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white melonized foil.

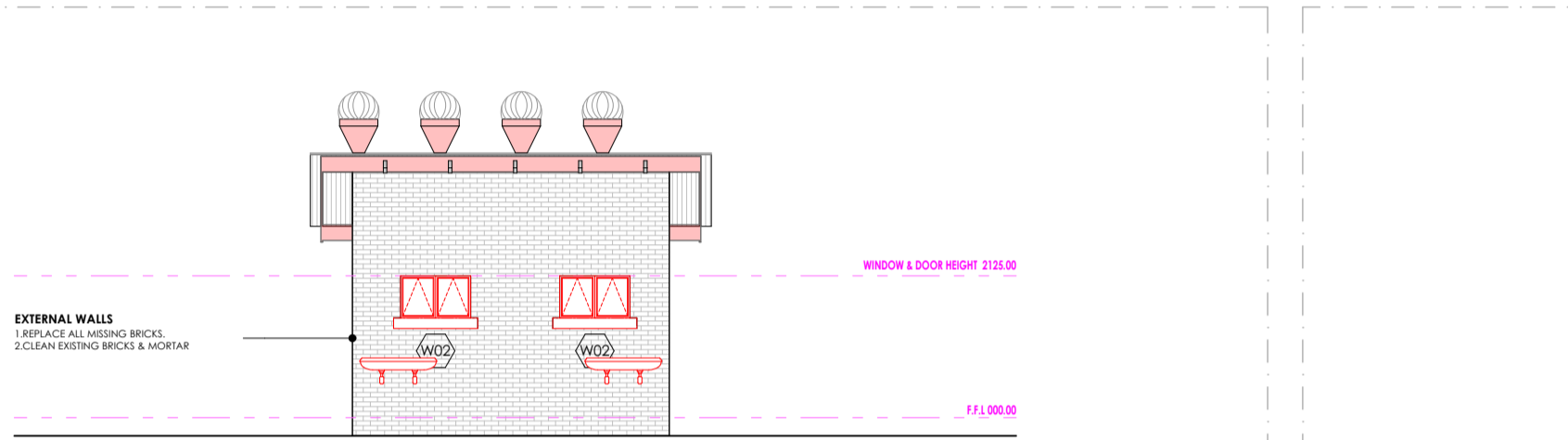
**Galvanized Steel (GIGI) Gutter:** 150mm Wide x 100mm Deep x 4.6mm Envek Gutter of Commercial Grade With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

**Dampstop:** 110 x 110 x 6.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws. Manufacturer installation instructions.

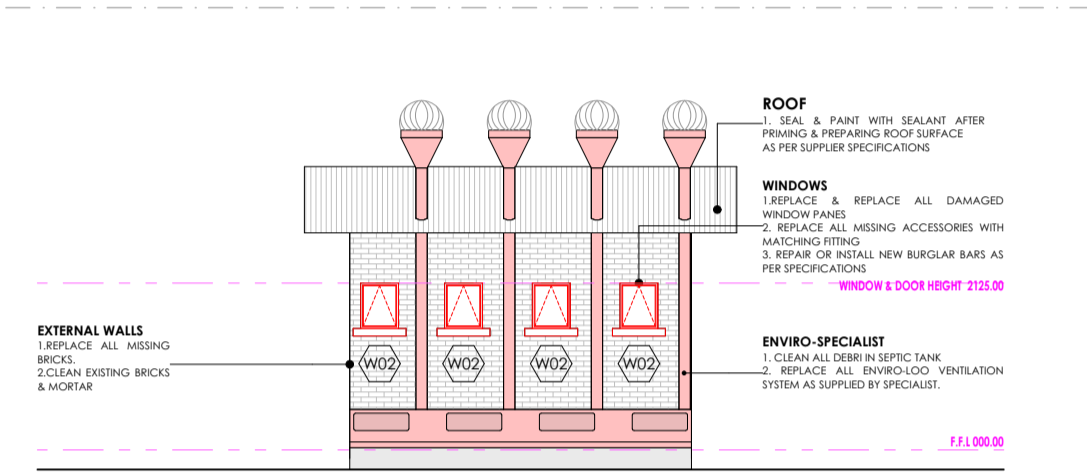
**Facia board:** 250 x 110 mm Fibre-Cement Facia/Barge Board, Screw Fixed To Tuss 8's. Counter Bolts With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic PVA.

### DOOR SCHEDULE:

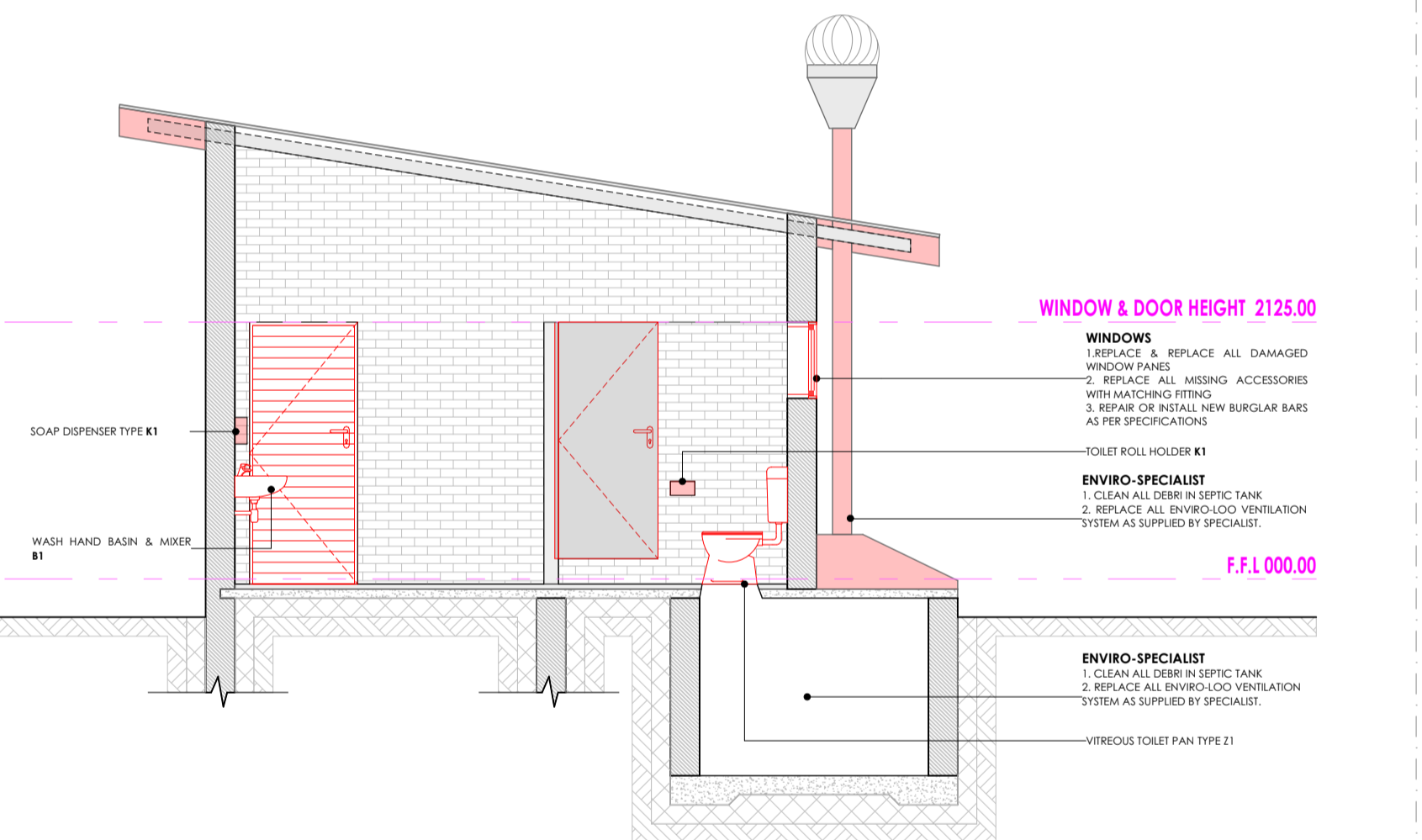
| DOOR DESCRIPTION   | QUANTITY   | DOOR DESCRIPTION   | QUANTITY   | DOOR DESCRIPTION   | QUANTITY   |
|--|--|--|--|--|--|
| 02<br>813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE SIDED SALIKONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.   | 02   | 02<br>PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE INCLUDING SECURITY MESH. COLOUR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 881. GRADE 01 AND FINISH WITH TWO COATS ALTYD EGG-SHELL PAINT TO COMPLY WITH SABS 630.   | 02   | 04<br>813 x 2032 x 44mm THICK INTERIOR GRADE FLOW-HOLLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE   | 04   |
| <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b><br>STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  |
| <b>FRAME FINISH</b><br>WASHABLE NAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.  | <b>FRAME FINISH</b><br>1 x COAT ZINC CHROMEATED PRIMER<br>2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)  | <b>FRAME FINISH</b><br>WASHABLE NAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.  | <b>FRAME FINISH</b><br>1 x COAT ZINC CHROMEATED PRIMER<br>2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)  | <b>FRAME FINISH</b><br>WASHABLE NAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.  | <b>FRAME FINISH</b><br>1 x COAT ZINC CHROMEATED PRIMER<br>2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)  |
| <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b><br>APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. |
| <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b><br>APPROVED LOCKSET AS PER SUPPLIER<br>DOOR STOP - POLISHED BRASS FLOOR MOUNTED<br>APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  |
| <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   | <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   | <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   | <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   | <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   | <b>HINGES</b><br>3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES   |



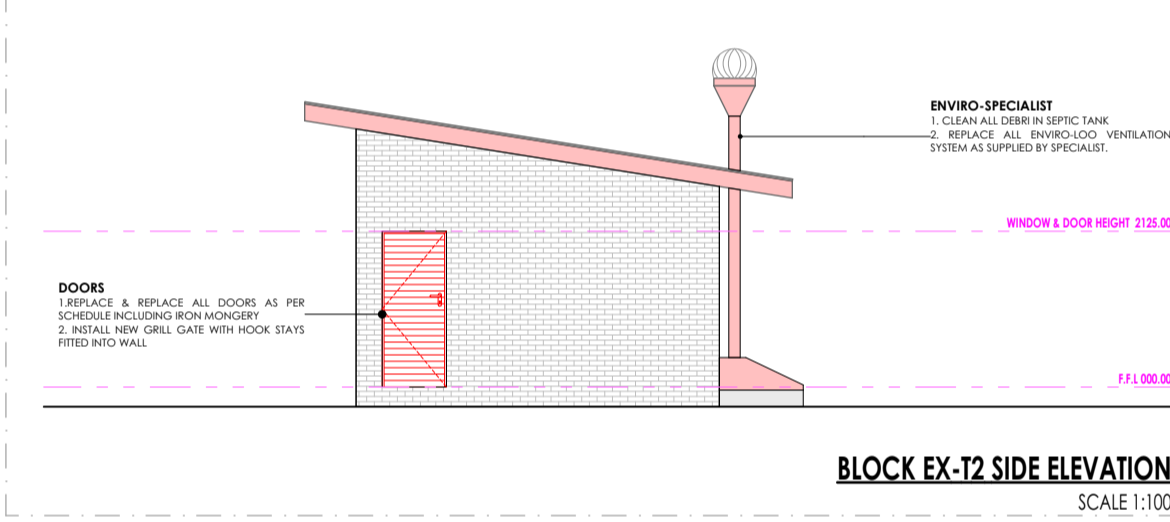
**BLOCK EX-T2 FRONT ELEVATION**  
SCALE: 1:100



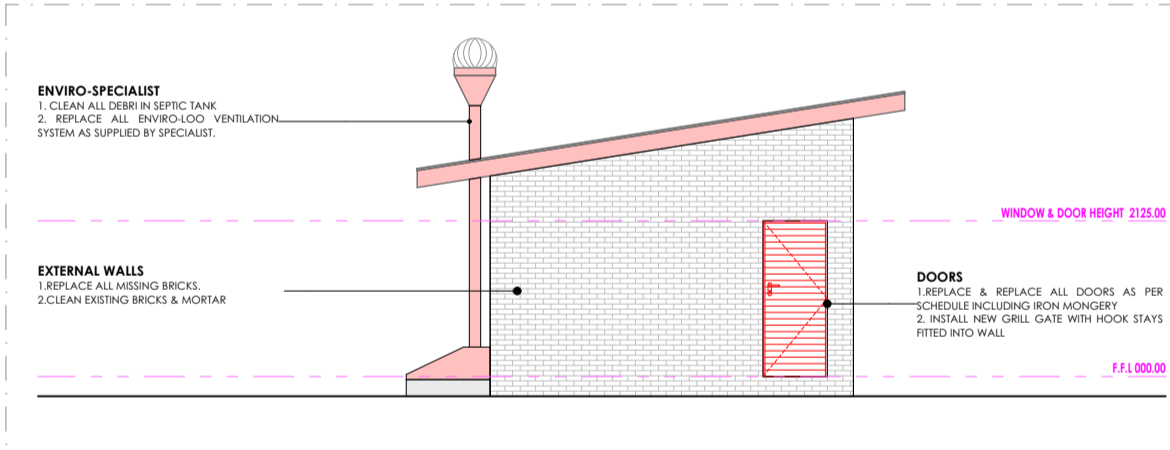
**BLOCK EX-T2 REAR ELEVATION**  
SCALE: 1:100



**BLOCK EX-T2 SECTION T2**  
SCALE: 1:50



**BLOCK EX-T2 SIDE ELEVATION**  
SCALE: 1:100



**BLOCK EX-T2 SIDE ELEVATION**  
SCALE: 1:100

| WINDOW SCHEDULE:   | WINDOW SCHEDULE:   | WINDOW SCHEDULE:   |
|--|--|--|
| <b>W01</b><br>QUANTITY: 04<br>DOOR DESCRIPTION: STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE-HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRANE PANELS. PLUGGED & SCREWED/BUILT IN WALLING   | <b>W02</b><br>QUANTITY: 02<br>DOOR DESCRIPTION: STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE-HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRANE PANELS. PLUGGED & SCREWED/BUILT IN WALLING   | <b>W03</b><br>QUANTITY: 02<br>DOOR DESCRIPTION: STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE-HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRANE PANELS. PLUGGED & SCREWED/BUILT IN WALLING   |
| <b>FRAME</b><br>STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881. GRADE 01, FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS. | <b>FRAME</b><br>STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881. GRADE 01, FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS. | <b>FRAME</b><br>STANDARD STANDARD TYPE GALVANISED MILD STEEL WINDOW FRAME. MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881. GRADE 01, FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS. |
| <b>GLASS</b><br>6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.   | <b>GLASS</b><br>6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.   | <b>GLASS</b><br>6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.   |
| <b>WINDOW FITTINGS</b><br>MATCH EXISTING WINDOW FITTINGS (ORIGINAL)  | <b>WINDOW FITTINGS</b><br>MATCH EXISTING WINDOW FITTINGS (ORIGINAL)  | <b>WINDOW FITTINGS</b><br>MATCH EXISTING WINDOW FITTINGS (ORIGINAL)  |
| <b>IRON MONGERY</b><br>ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT  | <b>IRON MONGERY</b><br>ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT  | <b>IRON MONGERY</b><br>ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT  |
| <b>HINGES</b><br>FIXED, MANUFACTURER'S SPECIFICATION   | <b>HINGES</b><br>FIXED, MANUFACTURER'S SPECIFICATION   | <b>HINGES</b><br>FIXED, MANUFACTURER'S SPECIFICATION   |

**BLOCK EX-T2 WINDOW SCHEDULE**  
SCALE: 1:100

## SANITARY SCHEDULE

**WC'S URINALS & SHOWER**  
**W1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalsoft Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

**W2: CERAMIC PARALEGIC WC**  
Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever.

**W3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalsoft Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable external lever. Blank flush plate & offset push button for passage access.

**W4: CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable external lever.

**W5: CERAMIC STANDARD WC (CC)**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermalsoft seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

**W6: CERAMIC WALL HUNG URINAL**  
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical girting. CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

**W7: SHOWER**  
20mm thick Extruded steel shower tray size 900x900x16mm manufactured with anti slip pattern, with rounded internal corners, and 38mm RSP grated waste fitting in corner position fitted with Shower set and complying with SABS 228 comprising of approved:  
• Grab Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration.  
• Overhead shower arm with wall flange.  
• Chrome Plated Shower Head with dual-jointed connector.  
• Chrome Plated Shower Diverter mixer-valve type with sliding wall flanges and concealed connectors adjustable from 178mm to 203mm centres. Shower tray to be handed 50mm into a 100mm high concrete plinth with exposed plinth face.

**W8: WASH HAND BASIN**  
**W8:1: WIBC & MIRROR**  
Vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscany' pedestal and fitted with 100 'Cobra Moisture Seal' 15mm chrome pushbutton operating plate top with flanged bracket (code KM1202) meeting tap, 300-32 CP anti-flooding plug with angle valve.  
**W8:2: DISABLED BASIN**  
20mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No. chrome plated elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.  
**W8:3: WHITE GLAZED PORCELAIN WIBC (VANITY)**  
Ceramic freecry size 450x350mm oval self-removing vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with 100, chrome plated tap with flanged bracket (code KM1202) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon sealer between contact areas in strict accordance to manufacturer's specifications.  
**W8:4: SMALL BASIN & 2 TAP SET (FOR WORKSHOPS)**  
Ceramic freecry size 450x300mm wall basin to comply with SABS 497. In 2 tap hole configuration supplied with integrated overflow and charity hole with 2no. pillar taps, chrome plated anti-rill plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.  
**W8:5: HEAVY DUTY BASIN & NO. TAP (FOR LABS)**  
Ceramic freecry size 500x400mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and RFS hole plugged and fitted with 100, pillar tap. Chrome Plated anti-rill plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.  
**W8:6: MEDIC BASIN & FITNESS (SICK BAY)**  
Vitreous china size 420mm rectangular lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated elbow action pillar-tap, with 1/4 turn ceramic disc head and blue & red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fitted with concealed wall bracket in accordance to the manufacturer's specifications.  
Combination of sanitaryware, accessories and general fittings comprising of:  
• Mirror type 01  
• Paper towel dispenser K8 and bin type K3.  
• Soap dispenser type K2.  
• Sanitabloc comprising 2no. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

**W9: SINKS:**  
**W9:1: STAINLESS STEEL SINK**  
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 904 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.  
**W9:2: STAINLESS STEEL SINK**  
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 904 fitted with Approved Sink mixer-wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.  
**W9:3: CERAMIC SINK**  
Ceramic freecry 425 x 335 x 180mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)  
**W9:4: SINGLE WASH TROUGH (Inlet & 2no. TAPS)**  
2000 x 550 x 200mm steel wash trough manufactured from grade 18/10 SS. stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbets - plan extended chrome plate, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with slimp, chain and stay. CP, F' trap, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.  
**W9:5: DOUBLE WASH TROUGH (Inlet & 2no. TAPS)**  
2200 x 550 x 200mm Double bowl wall hung wash trough manufactured from grade 304 (18/10) SS. rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. wall type bibbets, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP. Un-slotted sink waste with back nut and plug with slimp. CP. Double drain back rubber deep seal 'P'-trap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

**SANITARY ACCESSORIES**  
**K1: SS TOILET ROLL HOLDER & ROLL**  
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high x 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.  
**K2: GLASS MIRROR**  
6mm thick clear float glass silver-backed mirror. size 450x900mm height with polished beveled edges 4 times hole for and fixed, with chromium plated dome-shaped mirror screws  
**K3: SS WASTE BIN**  
325W x 625H x 200D Waste bin manufactured from 18/10 Stainless Steel, Surface Soft Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.  
**K4: SANITARY BIN (PLASTIC)**  
100mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Liters per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K5: SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K6: WALL GRAB RAILS-PARALEGIC**  
Stainless steel 914 x 90 x 20mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K7: GRAB RAILS (RIGHT-LEFT HAND) PARALEGIC**  
Stainless steel 914 x 90 x 20mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K8: PAPER TOWEL DISPENSER**  
330mmWx350mmX230mmD Tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K9: SOAP DISPENSER- INSH- WALL MOUNTED**  
115W x 200H x 110D Stainless Steel Hand Soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K10: ALUMINIUM COAT HOOKS (Multi-track)**  
800mm Wide x 220mm High x 90mm High Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.  
**K11: HAND DRYER (Hands free)**  
As per Electrical Engineer specification  
**K12: TOWEL RAIL**  
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.  
**K13: SHOWER CURTAIN RAIL (slight)**  
20mm dia. chromom plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per PA's drawing.

**GENERAL FIXTURES**  
**G1: DOOR PROTECTOR**  
200mm wide UPVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.  
**G2: PROTECTOR SCREENS**  
Full-Dowel PVC Screen Size 2340 x 1850mm (Including 2no. 2340 x 1750mm) with wall-mounted CODE 50000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.  
**G3: FINBAR 150W X 100H**  
Finbar size 1000mm W x 1500mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.  
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**FINISHES LEGEND**

- WALL FINISHES:**
- F1: FULLY FLEXIBLE TILES (Corrosive Resistant/ Anti-Slip)**  
300 x 300 x 2.0mm thick (colour true to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SANS 107 and approved adhesives and grout on screeds/Thickness/Specification in strict compliance to manufacturer's specifications on cement screed subfloor. Filings to include, ribbed angle files where there is a change of level. Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F2: PORCELAIN TILES - MATI**  
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Thickness/Specification in strict compliance to manufacturer's specifications and SABS Specification. Filings to include, ribbed angle files where there is a change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Ships Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CEMENT SAND SCREED**  
30mm thick portland cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
- F4: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.
- F5: GRANOUTCURE FINISH**  
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F6: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 80mm thick concrete interlocking pavers, 23 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
- F7: SEMI-FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 886. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (Anti-Static) Protective Vinyl Sheet, Laid on Self-Levelled Smooth Screed with conductive adhesive to SABS 070 or latest revision in accordance to manufacturer's instructions And Installed by Approved Specialist. Joints Shall be Welded as per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect's Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

- F8: GRAVEL FINISH ON SAND LAYER**  
30mm Gravel On Compacted Sand Layer Base as per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with Cove base and straight tops. Complete with corner and top trims. Filings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**  
75mm high x 20mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance with SABS 1083, or latest revision.

- WALL FINISHES:**
- F1: FACE BRICK**  
FB1 face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- F2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade D1, in accordance to manufacturer's instructions.
- F3: ENAMEL PAINT**  
2 no. coats matt (egg shell finish) alkyd (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.
- F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S3', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'F2' to comply with SABS 650 or latest revision applied from 2100mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- F5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.
- CEILING AND CORNICE:**
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILING OR EQUAL AND APPROVED**  
'GypCalc Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.
- C2: FIBRE CEMENT BOARDS (IS JOINTS)**  
6mm thick GypCalc Frestite fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing, non-combustible to SANS 10171:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA enamel quality point colour to PA's approval. Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanised Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Shimmed Profiles/Slat: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

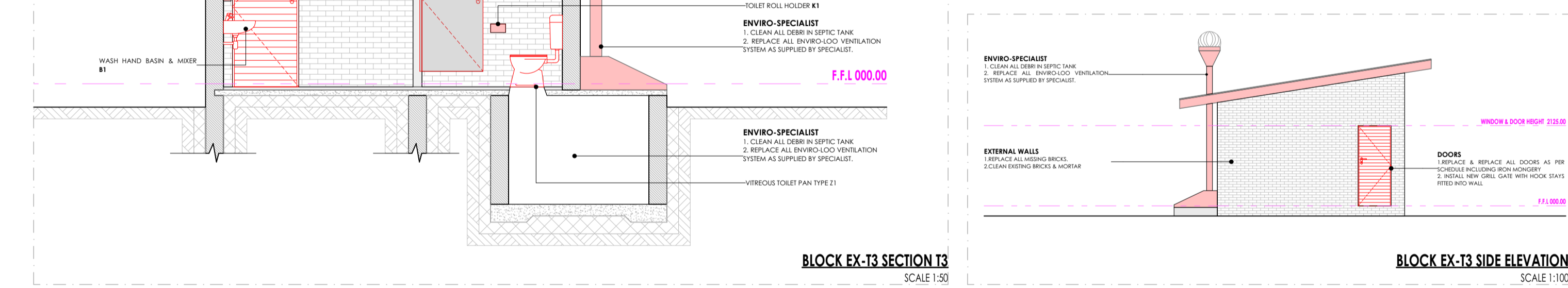
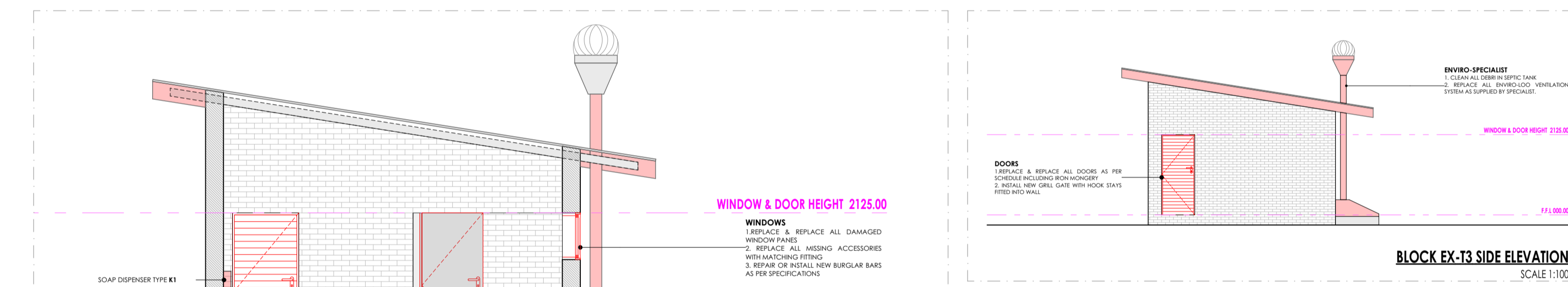
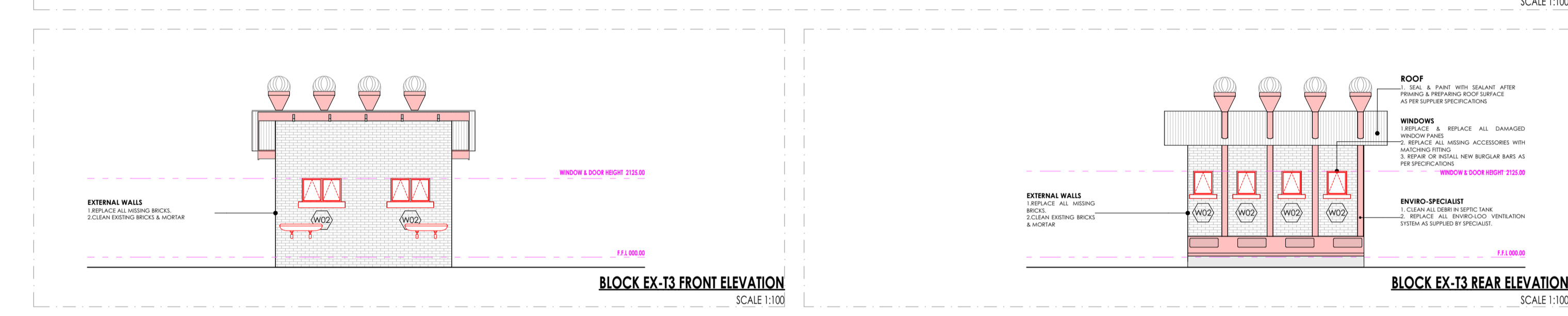
- ROOF COVERING AND INSULATION:**
- F01: EMBOSSED SCREEMING SHEET (TWO SIDES)**  
**Roofing Sheet:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with 'Global Coat' or 'Chromokote' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.
- Insulation:** SHALL BE OF: 1. where there are acoustic ceilings suspended board a heavy duty Aluminium insulation foil shall be installed AND 2. where the steel work is exposed, a 50mm 'Frodofoam' manufactured from non-combustible glass fibres and therm-set resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white melisolate foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Enveq Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
- Facia board:** 250 x 110 x 0.6mm Fibre Cement Facia/Barge Board, Screw Fixed To Tus Dry & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

- CEILING AND CORNICE:**
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILING OR EQUAL AND APPROVED**  
'GypCalc Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.
- C2: FIBRE CEMENT BOARDS (IS JOINTS)**  
6mm thick GypCalc Frestite fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinobond 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecopecifier listing, non-combustible to SANS 10171:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinobond Strap Paint Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA enamel quality point colour to PA's approval. Gyproc Rhinobond to all joints and trim the ceiling using Gyproc Rhinobond.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanised Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Shimmed Profiles/Slat: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

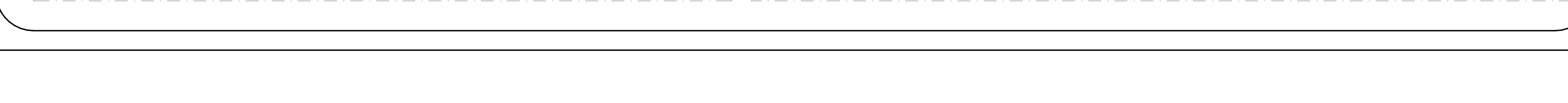
- WALL FINISHES:**
- F1: FACE BRICK**  
FB1 face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- F2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade D1, in accordance to manufacturer's instructions.
- F3: ENAMEL PAINT**  
2 no. coats matt (egg shell finish) alkyd (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.
- F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S3', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'F2' to comply with SABS 650 or latest revision applied from 2100mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- F5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.
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- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Shimmed Profiles/Slat: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

- ROOF COVERING AND INSULATION:**
- F01: EMBOSSED SCREEMING SHEET (TWO SIDES)**  
**Roofing Sheet:** 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with 'Global Coat' or 'Chromokote' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.
- Insulation:** SHALL BE OF: 1. where there are acoustic ceilings suspended board a heavy duty Aluminium insulation foil shall be installed AND 2. where the steel work is exposed, a 50mm 'Frodofoam' manufactured from non-combustible glass fibres and therm-set resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white melisolate foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm Enveq Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.
- Facia board:** 250 x 110 x 0.6mm Fibre Cement Facia/Barge Board, Screw Fixed To Tus Dry & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

| DOOR SCHEDULE:   |  |  |
|--|--|--|
| EXTERIOR DOOR  | BURGLAR DOOR (SINGLE)  | INTERIOR DOOR  |
| <b>QUANTITY</b> 02   | <b>QUANTITY</b> 02   | <b>QUANTITY</b> 04   |
| <b>DOOR DESCRIPTION</b> 813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE SIDED SALIGNA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.  | <b>DOOR DESCRIPTION</b> PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 881, GRADE O1 AND FINISH WITH TWO COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 630. | <b>DOOR DESCRIPTION</b> 813 x 2032 x 44mm THICK INTERIOR GRADE FLUSH FLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED COGS FITTED TO COMPLY WITH SABS 546 IN PRESTRESSED STEEL FRAME, ALL PAINTED TO ARCHITECTS COLOUR SCHEDULE   |
| <b>FRAME</b> STANDARD 1.6mm IN DOUBLE REBATE PRESTRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST REVISION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b> 50 x 50mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME   | <b>FRAME</b> STANDARD 1.6mm IN DOUBLE REBATE PRESTRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST REVISION COMPLETE WITH LUGS & FITURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  |
| <b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE O2 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.  | <b>FRAME FINISH</b> 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)  | <b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE O2 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL.  |
| <b>DOOR FINISH</b> APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE O1, 100mm DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b> PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 881, GRADE O1 & FINISH WITH 2 COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION                      | <b>DOOR FINISH</b> APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE O1, 100mm DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. |
| <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS   | <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS   | <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS   |
| <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES  | <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES  | <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES  |



| WINDOW SCHEDULE:   |  |  |  |
|--|--|--|--|
| <b>W01</b>   | <b>QUANTITY</b> 04   | <b>W02</b>   | <b>QUANTITY</b> 02   |
| <b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPREHENSIVE APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRIVALE PANNELS, PLUGGED & SCREWED/BUILT IN WALLING   | <b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPREHENSIVE APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRIVALE PANNELS, PLUGGED & SCREWED/BUILT IN WALLING   | <b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPREHENSIVE APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRIVALE PANNELS, PLUGGED & SCREWED/BUILT IN WALLING   | <b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPREHENSIVE APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBRIVALE PANNELS, PLUGGED & SCREWED/BUILT IN WALLING   |
| <b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727, FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681, GRADE O1, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS | <b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727, FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681, GRADE O1, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS | <b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727, FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681, GRADE O1, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS | <b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727, FRAMES TO BE FACTORY PRIMED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681, GRADE O1, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS |
| <b>GLASS</b> 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL   | <b>GLASS</b> 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL   | <b>GLASS</b> 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL   | <b>GLASS</b> 6mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL   |
| <b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)   | <b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)   | <b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)   | <b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)   |
| <b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT   | <b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT   | <b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT   | <b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT   |
| <b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION  | <b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION  | <b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION  | <b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION  |



- SANITARY SCHEDULE**
- WC1: URINALS & SHOWER**
- WC1: CERAMIC STANDARD WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- WC2: CERAMIC PARALEGIC WC**  
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- WC3: CERAMIC PARALEGIC WC (CC) - CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.
- WC4: CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- WC5: CERAMIC STANDARD WC (CC)**  
Vitreous china 90° outlet WC to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern filled with quality approved heavy duty thermoset lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- WC6: CERAMIC WALL HUNG URINAL**  
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grommet, CP top inlet spreader and two hanger brackets and fitted with exposed flush valve and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- WC7: SHOWER**  
20mm thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38mm R3P grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
• Grabbed Shower Cubic with access door as per standard supply from manufacturer and sized to fit space configuration.  
• Overhead shower arm with wall flange.  
• Chrome Plated Shower Head with dual-jointed connector  
• Chrome Plated Shower Mixer Valve with sliding wall flanges and concealed connectors adjustable from 178mm to 203mm centres. Shower tray to be recessed 50mm into a 100mm high concrete pith with exposed pith face laid.
- WC8: WASH-HAND BASIN**
- WC8:1: WFB & MIRROR LIP**  
Vitreous china 150 x 220mm wall basin to comply with SABS 497. In two top hole configuration fitted with 2 No. chrome plated elbow action pillar-taps, with 1/4 turn ceramic disc head and blue & red indicators water applications and forged bracket. chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
- WC8:2: DISABLED BASIN**  
200mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No. chrome plated elbow action pillar-taps, with 1/4 turn ceramic disc head and blue & red indicators water applications and forged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.
- WC8:3: WHITE GLAZED PORCELAIN WHB (VANITY)**  
Ceramic freecry size 450x325mm oval self-priming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 2No. chrome plated taps with forged bracket (code KME102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity unit with silicon beadant between cabinet tops in strict accordance to manufacturer's specifications.
- WC8:4: SMALL BASIN & 2 TAPSETY & SHOWER SET (FOR WORKSHOPS)**  
Ceramic freecry size 450x200mm rectangular heavy duty basin in one top hole configuration supplied with integrated overflow and charcoal hole with 2No. pillar taps, chrome plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- WC8:5: HEAVY DUTY BASIN & 2 TAP SET (FOR LABS)**  
Ceramic freecry size 450x200mm rectangular heavy duty basin in one top hole configuration to comply with SABS 497 and RFS hole plugged and fitted with No. pillar tap. Chrome Plated anti-heel plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- WC8:6: MEDIC BASIN & FITTINGS (SICK BAY)**  
Vitreous china size 450x200mm rectangular lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No. chrome plated elbow action pillar-taps, with 1/4 turn ceramic disc head and blue & red indicators water applications and forged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.  
Combination of sanitaryware, accessories and general fittings comprising of:  
• Mirror type C  
• Paper towel dispenser K8 and bin type K3.  
• Soap dispenser type K5.  
• Sponjaback comprising 2no. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- SINK1: STAINLESS STEEL SINK**  
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- SINK2: STAINLESS STEEL SINK**  
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- SINK3: CERAMIC SINK**  
Ceramic freecry 450 x 335 x 180mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant).
- SINK4: SINGLE WASH TROUGH (INLET & 2no. TAPS)**  
800mm x 350mm inset wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plan extended chrome plate, complete with sliding wall flanges, Un-slotted sink waste with back nut, plug with strap, chain and stop, CP 'F' trap, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.
- SINK5: DOUBLE WASH TROUGH (INLET & 2no. TAPS)**  
1200 x 350 x 200mm Double bowl wash trough manufactured from grade 18/10 S.S. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. wall type bibbits, with Swivel Outlet, adjustable wall flanges and exposed adjustable connectors. CP, Un-slotted sink waste with back nut and plug with strap, CP. Double drain back rubber deep seal 'F' trap. Sink mounted on 2no. 25mm square S3 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

- SANITARY ACCESSORIES**
- SA1: SS TOILET ROLL HOLDER - 2 ROLL**  
Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- SA2: SS GLASS MIRROR**  
6mm thick clear float glass silver-backed mirror. Size 450x900mm height with polished beveled edges 4 times folded and fixed, with chromium plated dome-headed mirror screws
- SA3: SS WASTE BIN**  
250W x 550H x 200D Waste bin manufactured from 18/10 Stainless Steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- SA4: SANITARY BIN (PLASTIC)**  
100mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- SA5: SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- SA6: WALL GRAB RAILS-PARALEGIC**  
Stainless steel 914 x 10 x 32mm diameter wall floor grab rail in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- SA7: GRAB RAILS (LEFT HAND)-PARALEGIC**  
Stainless steel 914 x 10 x 32mm diameter wall floor grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- SA8: PAPER TOWEL DISPENSER**  
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**FINISHES LEGEND**

**FOORS:**  
**F1. FULLY FLEXIBLE TILES (Corrosive Resistant/ Anti-Slip)**  
 300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification S81: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2. PORCELAIN TILES - MATI**  
 600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Filings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3. CEMENT SAND SCREED**  
 30mm thick potted cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F4. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
 60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest revision.

**F5. GRANOUTCURE FINISH**  
 22 mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass widening strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULARWAYS)**  
 220mm x 191mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8. SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)**  
 2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protective Vinyl Sheet, Laid on Self-Levelled Smooth Served Grid with conductive adhesive to SABS D70 or Latest Revision in accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour to Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

**F9. GRAVEL FINISH ON SAND LAYER**  
 30mm Gravel On Compacted Sand Layer Base as per PE Details installed in All Duct Chambers Accommodating Sanitary Services.

**S1: HARDWOOD OR EQUAL AND APPROVED**  
 18x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and milled corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2. CERAMIC TILE SKIRTING**  
 600mm wide x 1000mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with Cove base and straight tops. Complete with corner and top trims. Filings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3. CEMENT SAND SCREED**  
 75mm high x 20mm thick hardened cement sand screed skirting coverd at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

**WALL FINISHES:**  
**F1: FACE BRICK**  
 F8 face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**F2. EMULSION (PIVA) PAINT - FULL HEIGHT**  
 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

**F3. ENAMEL PAINT**  
 2 no. coats matt [egg shell] finish alkyd [enamel] paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat acid resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade 1, in accordance to manufacturer's instructions.

**F4. GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
 Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'S12' to comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**F5. CERAMIC WALL TILES - FULL HEIGHT**  
 600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 standard. All to be manufactured and installed in strict compliance SABS 22 standard.

**CEILING AND CORNICE:**  
**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILING OR EQUAL AND APPROVED**  
 Gyproc Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply Gyproc RhinoTape to all joints and trim the ceiling using Gyproc RhinoTape.

**C2: FIBRE CEMENT BOARDS (IN JOINTS)**  
 6mm thick Gyproc Panelite fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Ecospacer listing, non-combustible to SANS 10171-5) fixed to Ex 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA enamel quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
 1200mm x 600mm X 15mm Gyproc Celotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fittings at 300mm centres. Donn 138 Fr Main Tees (8mm thickness, 215kg guage, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the tile notch. All tile notches to be in line. Suspend full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4. EMULSION (PIVA) PAINT OR EQUAL AND APPROVED**  
 Two-part Gyproc On-Site Primer: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum panel on concrete slab.

**ROOF COVERING AND INSULATION:**  
**R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
 Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 406mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

**R2: INSULATION**  
 ALL 2: where the steel work is exposed, a 50mm 'Fastobond' manufactured from non-combustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white melisolated foil.

**R3. GALVANIZED STEEL (GIGI GULF)**  
 1.5mm Wide x 110mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

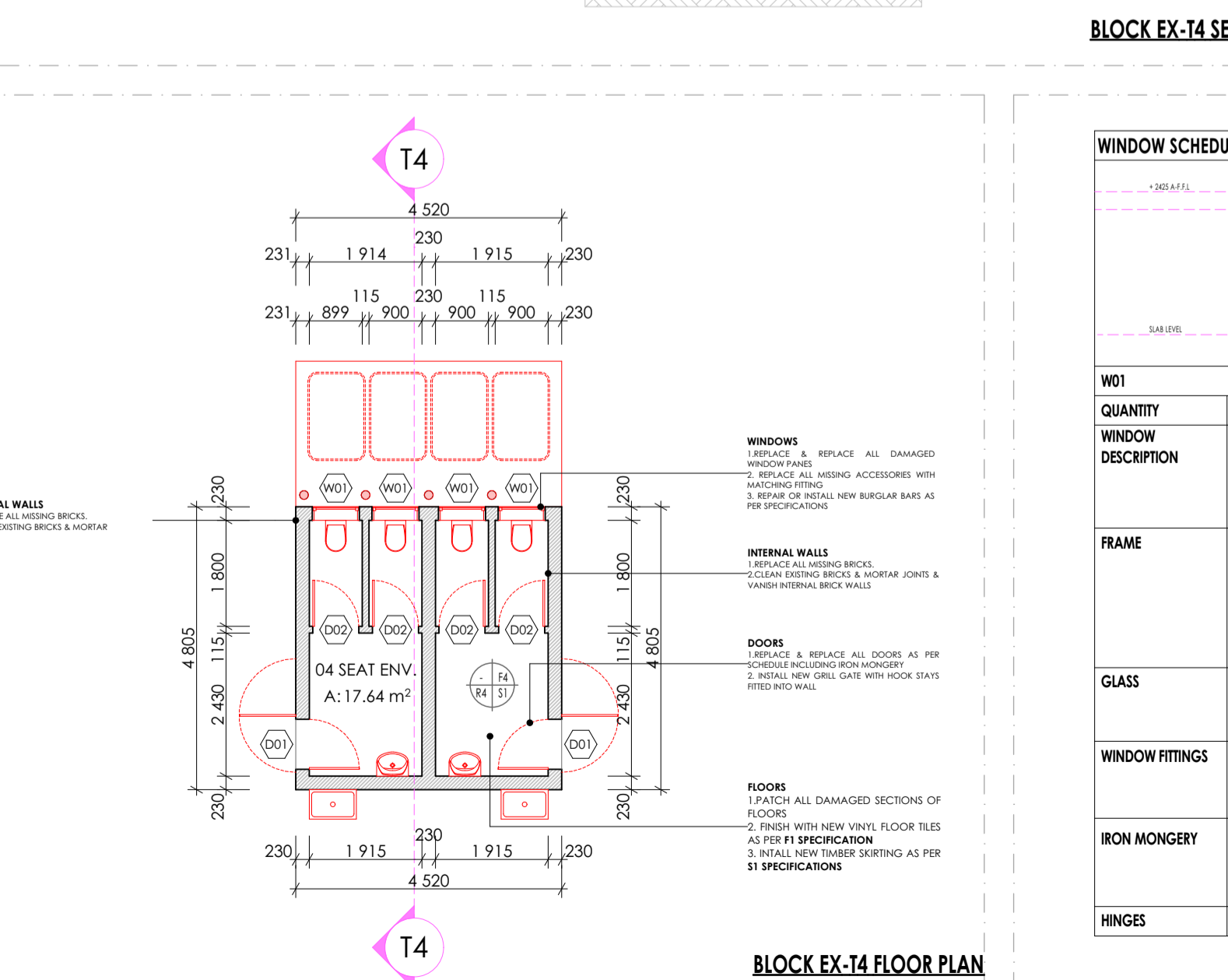
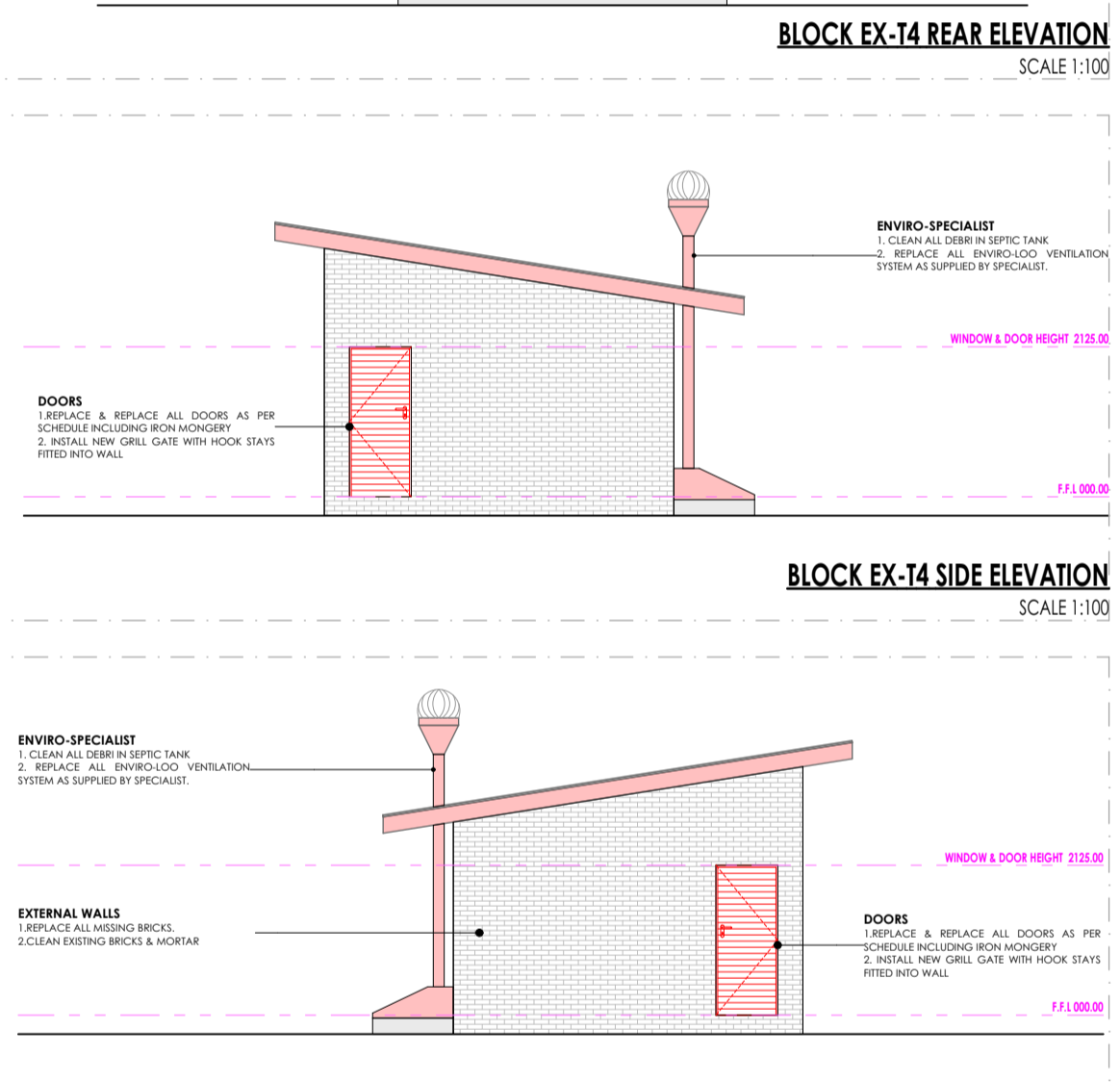
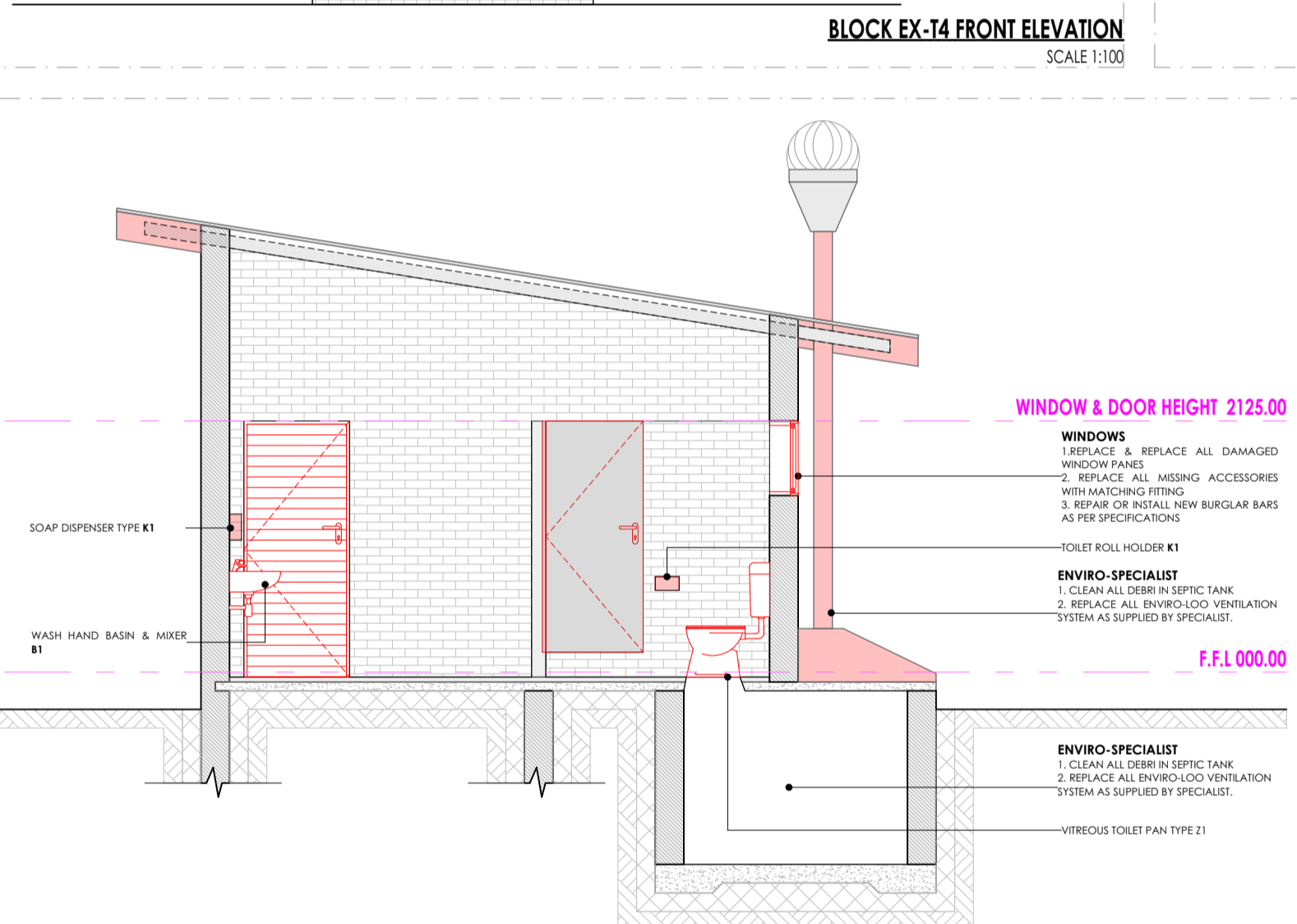
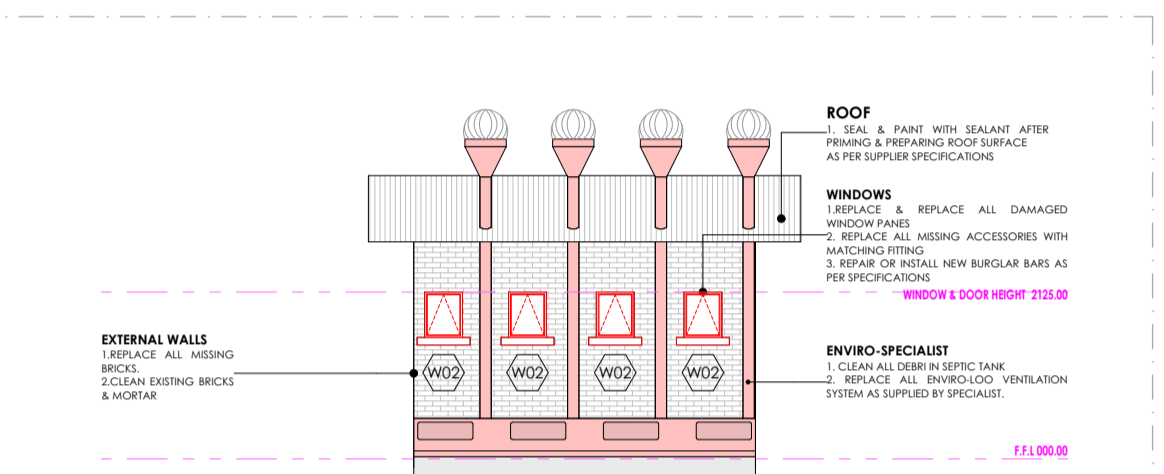
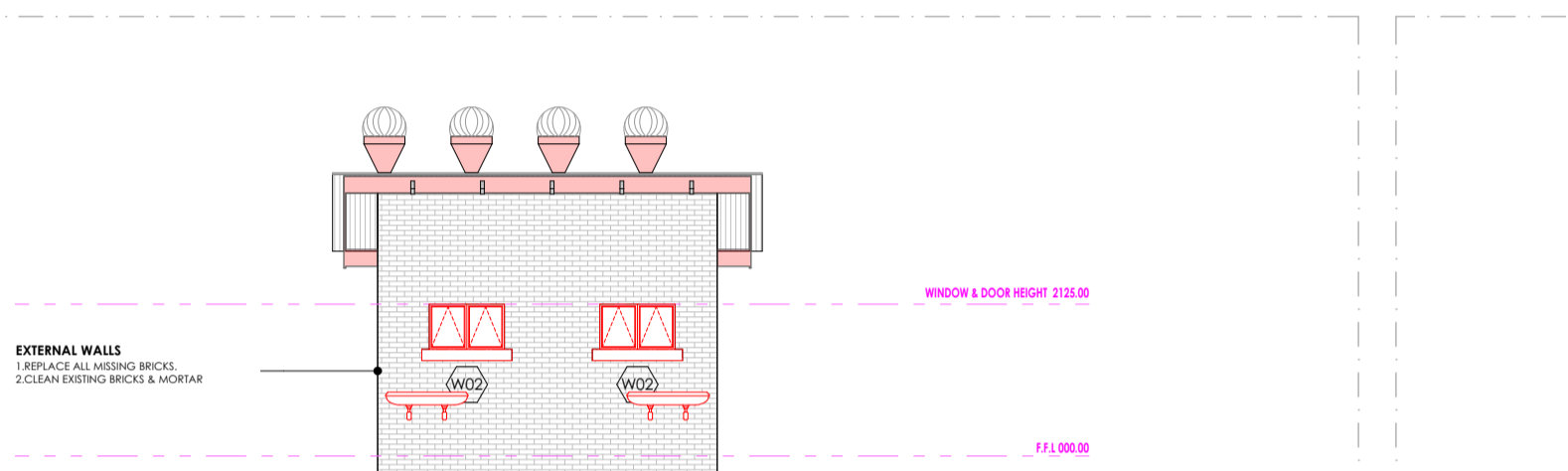
**R4. DRAINAGE**  
 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.

**R5. Facia board:** 250 x 110 x 0.6mm Fibre Cement Facia/Barge Board, Screw Fixed To Stud Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

**DOOR SCHEDULE:**

| EXTERIOR DOOR   | BURGLAR DOOR (SINGLE)   | INTERIOR DOOR   |
|---|---|---|
| <b>QUANTITY</b> 02<br><b>DOOR DESCRIPTION</b> 813 x 2032 x 44 mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTALLY SLATED DOUBLE ISOED SAIGONA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.  | <b>QUANTITY</b> 02<br><b>DOOR DESCRIPTION</b> PAINTED GALVANISED MILD STEEL GATE CONSISTING OF: 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOUR TO ARCHITECT'S SPECIFICATION TO COMPLY WITH SABS 881, GRADE 01 AND FINISH WITH TWO COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 650. | <b>QUANTITY</b> 04<br><b>DOOR DESCRIPTION</b> 813 x 2032 x 44 mm THICK INTERIOR GRADE FLOW-HOLLOW CORE SINGLE TIMBER DOOR WITH 3 mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED DOGS FITTED TO COMPLY WITH SABS 546 IN PRESSED STEEL FRAME, ALL PAINTED TO ARCHITECT'S COLOUR SCHEDULE.   |
| <b>FRAME</b> STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  | <b>FRAME</b> 50 x 50 mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME   | <b>FRAME</b> STANDARD 1.6 mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 840 x 1910 DOOR LEAF.  |
| <b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 650 TYPE 02 FOR FINISH COAT. COLOUR TO ARCHITECTS APPROVAL.  | <b>FRAME FINISH</b> 1 x COAT ZINC CHROMEATE PRIMER 2 x COATS GLOSS ENAMEL, (EXTERIOR QUALITY)   | <b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 650 TYPE 02 FOR FINISH COAT. COLOUR TO ARCHITECTS APPROVAL.  |
| <b>DOOR FINISH</b> APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. | <b>DOOR FINISH</b> PAINTED MILD STEEL GATE CONSISTING OF 10 x 10 mm MILD STEEL BARS PLACED AT 100 mm AT CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 881, GRADE 01 & FINISH WITH 2 COATS ALKYD EGG-SHELL PAINT TO COMPLY WITH SABS 650 COLOUR TO ARCHITECT'S SPECIFICATION.  | <b>DOOR FINISH</b> APPLY 3no. CLEAR EGG-SHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, THIN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE. WITH EACH COAT SOAKING IN BEFORE FURTHER COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE. |
| <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  | <b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS.  |
| <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES.  | <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES.  | <b>HINGES</b> 3 No. STAINLESS STEEL MEDIUM DUTY BUTT HINGES.  |

**BLOCK EX-14 DOOR SCHEDULE**  
SCALE 1:100



**BLOCK EX-14 WINDOW SCHEDULE**  
SCALE 1:100

| WINDOW          | QUANTITY  | DESCRIPTION  | WINDOW  | QUANTITY        | DESCRIPTION  |
|-----------------|---|--|---|-----------------|--|
| W01             | 04  | STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS: PLUGGED & SCREWED/BUILT IN WALLING | W02   | 02              | STANDARD 'SCHOOL' TYPE GALVANISED MILD STEEL DOUBLE SIDE HUNG WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS & WEATHER BARS TO OBTAIN PANELS: PLUGGED & SCREWED/BUILT IN WALLING |
| FRAME           | STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY FINISHED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE 01, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 650. COLOUR TO ARCHITECT'S SPECIFICATIONS. | FRAME  | STANDARD 'STANDARD' TYPE GALVANISED MILD STEEL WINDOW FRAME, MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY FINISHED WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 881 GRADE 01, FINISHED WITH 2no. COATS ALKYD ENAMEL PAINT TO COMPLY WITH SABS 650. COLOUR TO ARCHITECT'S SPECIFICATIONS. | GLASS           | 4 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.  |
| GLASS           | 4 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.   | GLASS  | 4 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL.   | WINDOW FITTINGS | MATCH EXISTING WINDOW FITTINGS (ORIGINAL)  |
| WINDOW FITTINGS | MATCH EXISTING WINDOW FITTINGS (ORIGINAL)   | IRON MONGERY   | ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT  | IRON MONGERY    | ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT   |
| IRON MONGERY    | ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT  | HINGES   | FIXED, MANUFACTURE'S SPECIFICATION  | HINGES          | FIXED, MANUFACTURE'S SPECIFICATION   |

**BLOCK EX-14 WINDOW SCHEDULE**  
SCALE 1:100

**SANITARY SCHEDULE**

**WC'S URINALS & SHOWER**  
**W1: CERAMIC STANDARD WC (CC)- CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalost Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

**W2: CERAMIC PARALEGIC WC**  
 Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**W3: CERAMIC PARALEGIC WC (CC)- CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermalost Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for passage access.

**W4: CERAMIC STANDARD WC (BACK INLET)**  
 Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**W5: CERAMIC STANDARD WC (CC)**  
 Vitreous china 90° outlet WC to comply with SABS 497 Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat lid, seal and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

**W6: CERAMIC WALL HUNG URINAL**  
 Vitreous china wall hung bowl urinal to comply with SABS 497. Fitted with suitable 38mm CP domical girting, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

**W7: SHOWER**  
 2mm thick Enamelled steel shower tray 900x900x160 mm manufactured with anti-slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
 • Gated Shower Cubic with access door as per standard supply with manufacturer and sized to fit space allocation  
 • Overhead shower arm with wall flange.  
 • Chrome Plated Shower Head with dual-jointed connector  
 • Chrome Plated Shower Diverter mixer-wal with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete plinth with exposed plinth face.

**WASH-HAND BASIN**  
**W8: WFB & MIRROR TAP**  
 Vaso Sanitaryware vitreous china size 560 x 415mm rounded 'Tuscan', OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap hole configuration supplied with integrated overflow and charity hole with a 'Tuscan' pedestal and fitted with 'No. Coara Washlet' 15mm chrome pushbutton operating plate top with flanged bracket (code KM2102) meeting tap, 300-32 CF outlet plug with angle valve, 300 basin waste, 363/40 CP bottle trap, mounting kit and angle valves.

**W9: DISABLED BASK**  
 2mm semi rounded lavatory basin to comply with SABS 497, in two hole configuration fitted with 2 No chrome plated Elbow action pillar-top, with 1/4 turn ceramic disc head and blue & red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.

**W10: WHITE GLAZED PORCELAIN WFB (VANITY)**  
 Ceramic freeco size 450x325mm oval self-emerging vanity basin to comply with SABS 497 in one hole configuration supplied without overflow and fitted with 'No. chrome plated top with flanged bracket (code KM2102) meeting tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded contact gaskets in strict accordance to manufacturer's specifications.

**W11: HEAVY DUTY BIN, TAP (FOR LABS)**  
 Ceramic free city 500x325mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 497 and R95 hole plugged and fitted with 'No. pillar-top, Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2no. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

**W12: MEDIC BASIN & TISSUE (SICK BAY)**  
 Vitreous china size 455x200mm rectangular lavatory basin to comply with SABS 497, in two hole configuration fitted with 2 No chrome plated Elbow action pillar-top, 1/4 turn ceramic disc head and blue & red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fixed with concealed wall bracket in accordance to the manufacturer's specifications.  
 Combination of sanitaryware, accessories and general fittings comprising of:  
 • Mirror type G  
 • Paper towel dispenser K8 and bin type K3  
 • Soap dispenser type K5  
 • Sanitaback comprising 2no. rows of wall tile finish R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

**SINKS:**  
**S1: STAINLESS STEEL SINK**  
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 905 fitted with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

**S2: STAINLESS STEEL SINK**  
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 905 fitted with Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.

**S3: CERAMIC SINK**  
 Ceramic freeco 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet. Fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant).

**S4: SINGLE WASH TROUGH (Inset) & 2no. TAPS**  
 800mm x 500mm inset wash trough manufactured from grade 18/10 SS. stainless steel with radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibbits - plain extended chrome plate. complete with sliding wall flange. Un-slotted sink waste with back nut, plug with strip, chain and stop, CP Tap, no deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut out size 555 x 425mm.

**S5: DOUBLE WASH TROUGH (Inset) & 2no. TAPS**  
 1200 x 550 x 200mm Double bowl wall hung wash trough manufactured from grade 304 (18/10) SS, radius internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type bibbls, with Swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with strip, CP. Double drain back rubber deep seal Tap. Sink mounted on 2no. 25mm square 85 gallow brackets, front leg and adjustable foot piece of height of 915mm AFFL.

**SANITARY ACCESSORIES**  
**A1: SS TOILET ROLL HOLDER 2 ROLL**  
 Standard stainless steel toilet roll holder (2 roll) 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft Finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

**A2: SS GLASS MIRROR**  
 6mm thick clear float glass silver-backed mirror. size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws

**A3: SS WASTE BIN**  
 280W x 520H x 200D Waste bin manufactured from 18/10 Stainless steel, Surface Soft Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

**A4: SANITARY BIN (PLASTIC)**  
 190mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**A5: SOAP HOLDER**  
 Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**A6: WALL GRAB BARS-PARALEGIC**  
 Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

**A7: GRAB BARS (RIGHT-LINE HAND)-PARALEGIC**  
 Stainless steel 914 x 90 x 32mm diameter wall [front] side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.

**A8: PAPER TOWEL DISPENSER**  
 300mmWx450mmx230mmD tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**A9: SOAP DISPENSER- WASH-WALL MOUNTED**  
 115W x 270H x 110D Stainless steel hands free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**A10: ALUMINIUM COAT HOOKS (Multi-track)**  
 800mm Wide x 220mm High x 90mm High Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.

**A11: HAND DRYER (Hands free)**  
 As per Electrical Engineers specification

**A12: TOWEL RAIL**  
 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

**A13: SHOWER CURTAIN RAIL (slight)**  
 20mm dia. standard chromom plated shower curtain rail 1800mm long with flanged ends and screws CP fixing height as per PA's drawing.

**GENERAL FIXTURES**  
**G1: DOOR PROTECTOR**  
 200mm wide UPVC Door Protector manufactured in high impact resistant rigid UPVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FF, or as specified.

**G2: PROTECTOR SCREENS**  
 Full-Dome PVC Screen Size 2240 x 1850mm (Weaving area 2240 x 1750mm) with wall-mounted code SCA000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict compliance with manufactures instructions.

**G3: FINBAROAD ISLOW x 1000H**  
 Finbaroad size 1000mm H x 1500mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

**G4: FINBAROAD ISLOW x 1200H**  
 Finbaroad size 1200mm H x 1500mm W comprising of laminated self board core pinning material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level

**G5: WINDOW NORMAL BUNDS (vertical blinds)**  
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel Trs. Tr mechanism to be operated by a nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (faced over the window opening) by means of concealed type fixing brackets.

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

**G7: SS FLOOR EXPANSION JOINT COVER**  
 Concealed heavy-duty stainless steel movement joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

**G8: CHALKBOARDS- GREEN SURFACE COLOUR**  
 Vitreous system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enameled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CE 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surface to be matt and freely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

**ISSUED FOR TENDER**

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLICATED

**NOTES**  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED



**FINISHES LEGEND**

**FLOORS:**

**F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slip)**  
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification 581: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2: PORCELAIN TILES - MATI**  
600 x 600 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds/Specification in strict compliance to manufacturer's specifications and SABS Specification. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CEMENT SAND SCREED**  
50mm x 30mm x 100% FXX staple fibre capnet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof jute backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4760 on fire rating, and BS 5482 on wire test and 50 body test at less than 2kV at 25Hz R/F on static electricity. Colour and pattern to architects approval.

**F4: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or latest Revision.

**F5: GRANULITE FINISH**  
22mm thick unsealed Granulite finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 80mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 586. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grid with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
30mm Gravel On Compacted Sand Layer Base as Per PSE Details Installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
600mm wide x 1000mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
75mm high x 20mm thick hardened cement sand screed skirting covered at 50mm dia. to form a continuous joint with the adjoining screed finish to PA's approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

**WALL FINISHES:**

**F1: FACE BRICK**  
F83 face brick in common bonding laid to comply with SABS 227 and forming part of the structural work.

**F2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade I, in accordance to manufacturer's instructions.

**F3: ALYD (ENAMEL) PAINT**  
2 no. coats matt (egg shell finish alyd (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no. coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 881 grade I, in accordance to manufacturer's instructions.

**F4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'K5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'K2' to Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**F5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**

**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
'GypCel Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhino-board 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to frame bracing installed at maximum 300mm centres using Gyproc Rhino-board Snap Point Grabber Screws 20mm at maximum 150mm centres. Apply Gyproc Rhino-plate to all joints and skim the ceiling using Gyproc Rhino-plate.

**C2: FIBRE CEMENT BOARDS (R-JOINTS)**  
6mm thick GypCel Fibre Board ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhino-board 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhino-board Snap Point Grabber Screws 20mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhino-plate to all joints and skim the ceiling using Gyproc Rhino-plate.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strip 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strip 19mm at maximum 150mm on both sides of the file notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strip 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

**ROOF COVERING AND INSULATION:**

**R1: EMBOSSED RUBBER SHEET (TWO SIDES)**  
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each panel shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod' coating and laid on structural member/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

**R2: WALL BRICK**  
F83 face brick in common bonding laid to comply with SABS 227 and forming part of the structural work.

**R3: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade I, in accordance to manufacturer's instructions.

**R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'K5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'K2' to Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**R5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**

**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
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**C2: FIBRE CEMENT BOARDS (R-JOINTS)**  
6mm thick GypCel Fibre Board ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhino-board 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhino-board Snap Point Grabber Screws 20mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhino-plate to all joints and skim the ceiling using Gyproc Rhino-plate.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strip 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strip 19mm at maximum 150mm on both sides of the file notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strip 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

**ROOF COVERING AND INSULATION:**

**R1: EMBOSSED RUBBER SHEET (TWO SIDES)**  
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each panel shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod' coating and laid on structural member/steel structure incorporating all necessary accessories such as fastenings and eave covers in strict compliance to manufacturer's instructions.

**R2: WALL BRICK**  
F83 face brick in common bonding laid to comply with SABS 227 and forming part of the structural work.

**R3: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade I, in accordance to manufacturer's instructions.

**R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'K5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'K2' to Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**R5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**

**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
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**C2: FIBRE CEMENT BOARDS (R-JOINTS)**  
6mm thick GypCel Fibre Board ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhino-board 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhino-board Snap Point Grabber Screws 20mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhino-plate to all joints and skim the ceiling using Gyproc Rhino-plate.

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**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

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**C2: FIBRE CEMENT BOARDS (R-JOINTS)**  
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**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

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Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'K5', laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'K2' to Comply with SABS 650 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

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Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

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**R2: WALL BRICK**  
F83 face brick in common bonding laid to comply with SABS 227 and forming part of the structural work.

**R3: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 881 grade I, in accordance to manufacturer's instructions.

**R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COAT**  
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600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

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**C2: FIBRE CEMENT BOARDS (R-JOINTS)**  
6mm thick GypCel Fibre Board ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhino-board 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171-5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhino-board Snap Point Grabber Screws 20mm at maximum 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhino-plate to all joints and skim the ceiling using Gyproc Rhino-plate.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using Donn centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 gaud, coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strip 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strip 19mm at maximum 150mm on both sides of the file notch. All the notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strip 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plasterboard: 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

**ROOF COVERING AND INSULATION:**

**R1: EMBOSSED RUBBER SHEET (TWO SIDES)**  
Roofing Sheets: 1.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 350 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide capillary breaks. The male rib shall have spurs of 28mm centres to ensure a positive double interlocking action at side-laps. Each panel shall incorporate two stiffener ribs. Profiled roofbolts to be coated on both sides with 'Global Coat' or 'Chromokod' coating and laid on structural member/steel structure incorporating all necessary accessories such as fast



**FINISHES LEGEND**

- FLOORS:**
- F1: PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPERY)**  
420x420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILE - MATI**  
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**  
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on weta test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**  
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ESD or ID (anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

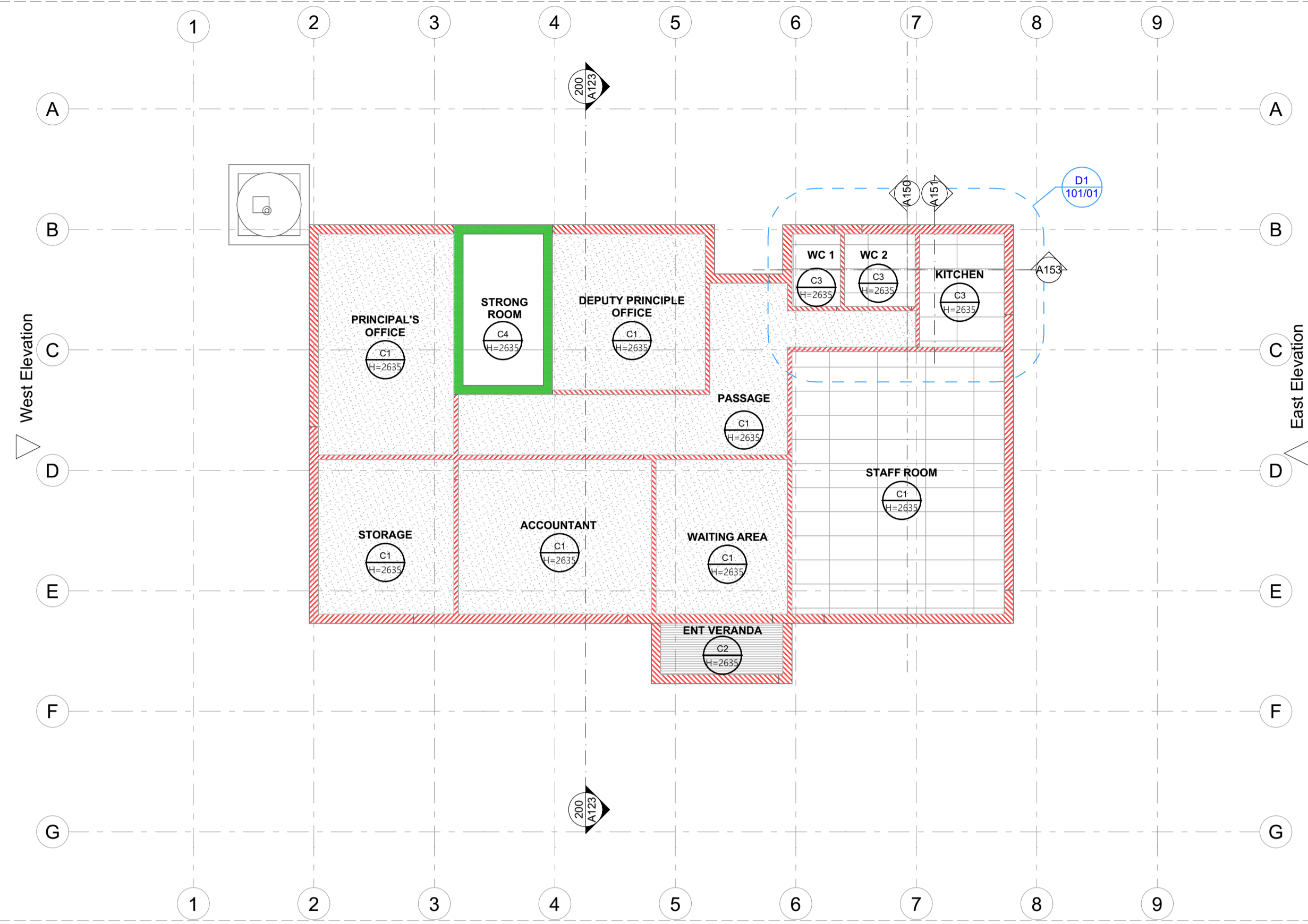
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

- WALL FINISHES:**
- R1: FACE BRICK**  
F&X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R3: ALKALYD (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkylid (enamel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

- CEILING AND CORNICE:**
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply, Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calotex PFI Prefinished or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 1150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
- Roofing Sheets:** 1.50mm Thick cold-rolled forming roofing sheets manufactured from roll-formed from certified steel complying with ISO 550:07. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide casully breaks. The main ribs shall have an 80mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonafon foil" shall be installed AND 2, where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.
- Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws To Manufacturer Installation instructions.
- Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

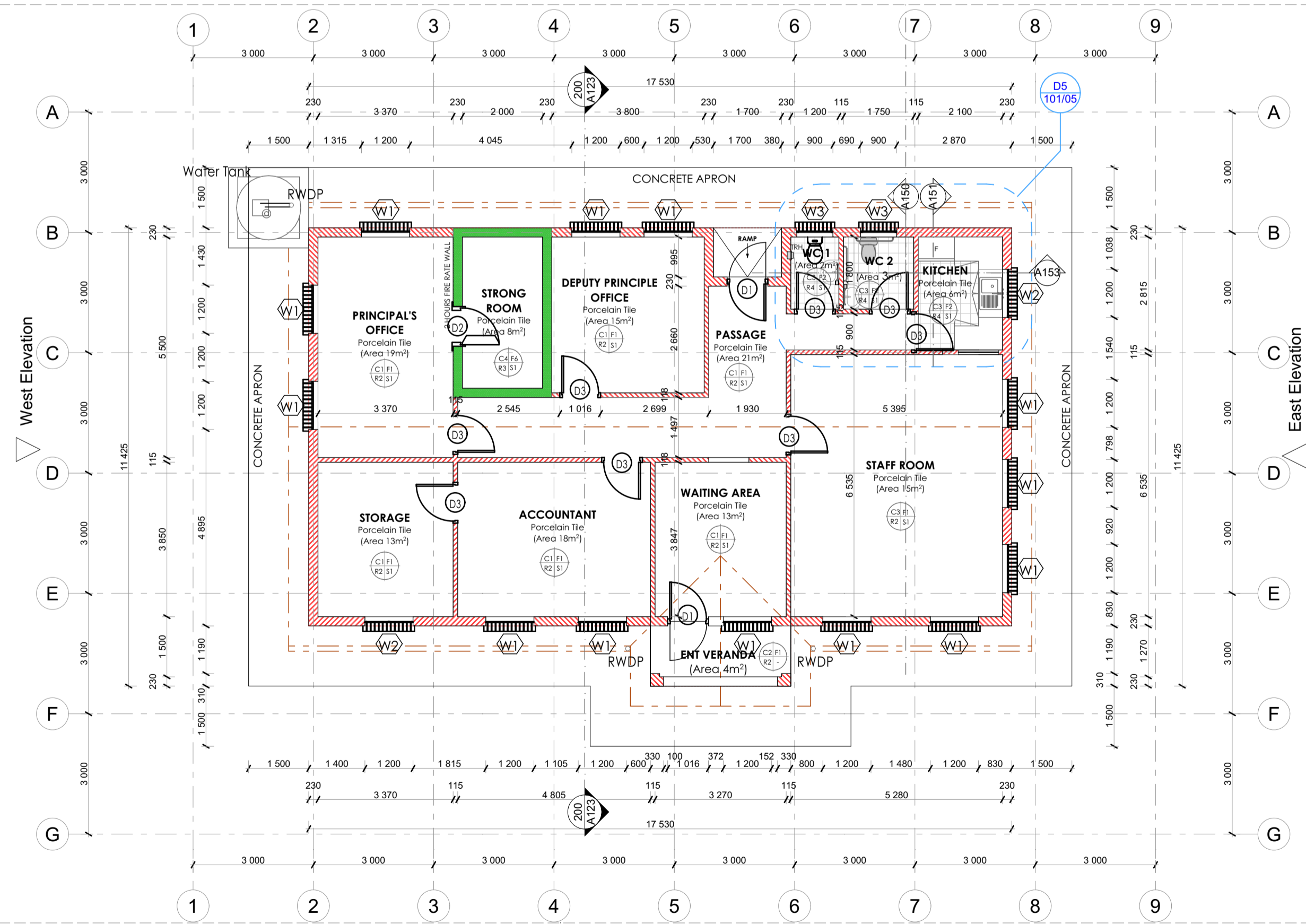
**CEILING PLAN**  
Scale 1: 100



**CEILING LEGEND**

- CEILING TYPE C1:** GYPSUM BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C2:** FIBRE-CEMENT BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C3:** PATENT ACOUSTIC TILES PER FINISHES SCHEDULE.
- CEILING TYPE C4:** EMULSION PAINT ON SKIMMED SOFFIT AS PER FINISHES SCHEDULE.

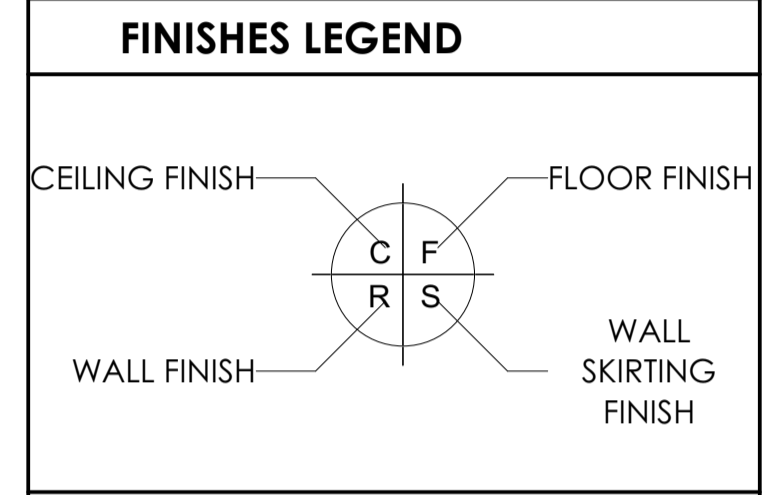
**FLOOR PLAN**  
Scale 1: 100



**ISSUED FOR TENDER**

- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY IS TO BE REPORTED TO THE PROJECT ARCHITECT



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**  
CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**  
DISCIPLINE

**ARCHITECTURAL** 4  
WORK DESCRIPTION - SUB DIVISION

**SMALL ADMINISTRATION BLOCK**  
DRAWING DESCRIPTION

**FLOOR & CEILING PLANS**

| DRG No.  | 301-01      | 01/09 | ITEM No.           |
|----------|-------------|-------|--------------------|
| DESIGN   | NA          | CM    | DRAWN              |
| DATE     | AS SHOWN    | SMTN  | CHECK              |
| NOV 2019 | T. MANYADZA |       | PrArch<br>43981757 |

DRAWING COORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

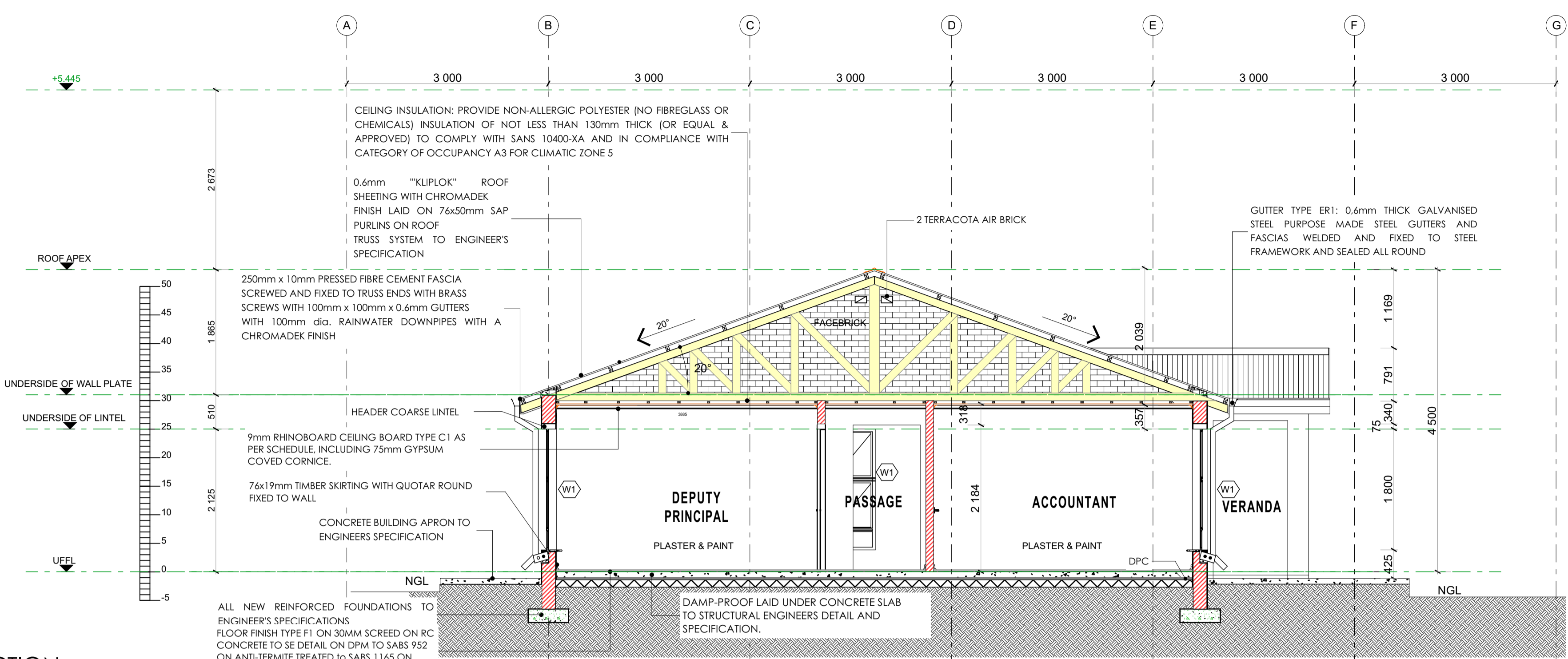
| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |



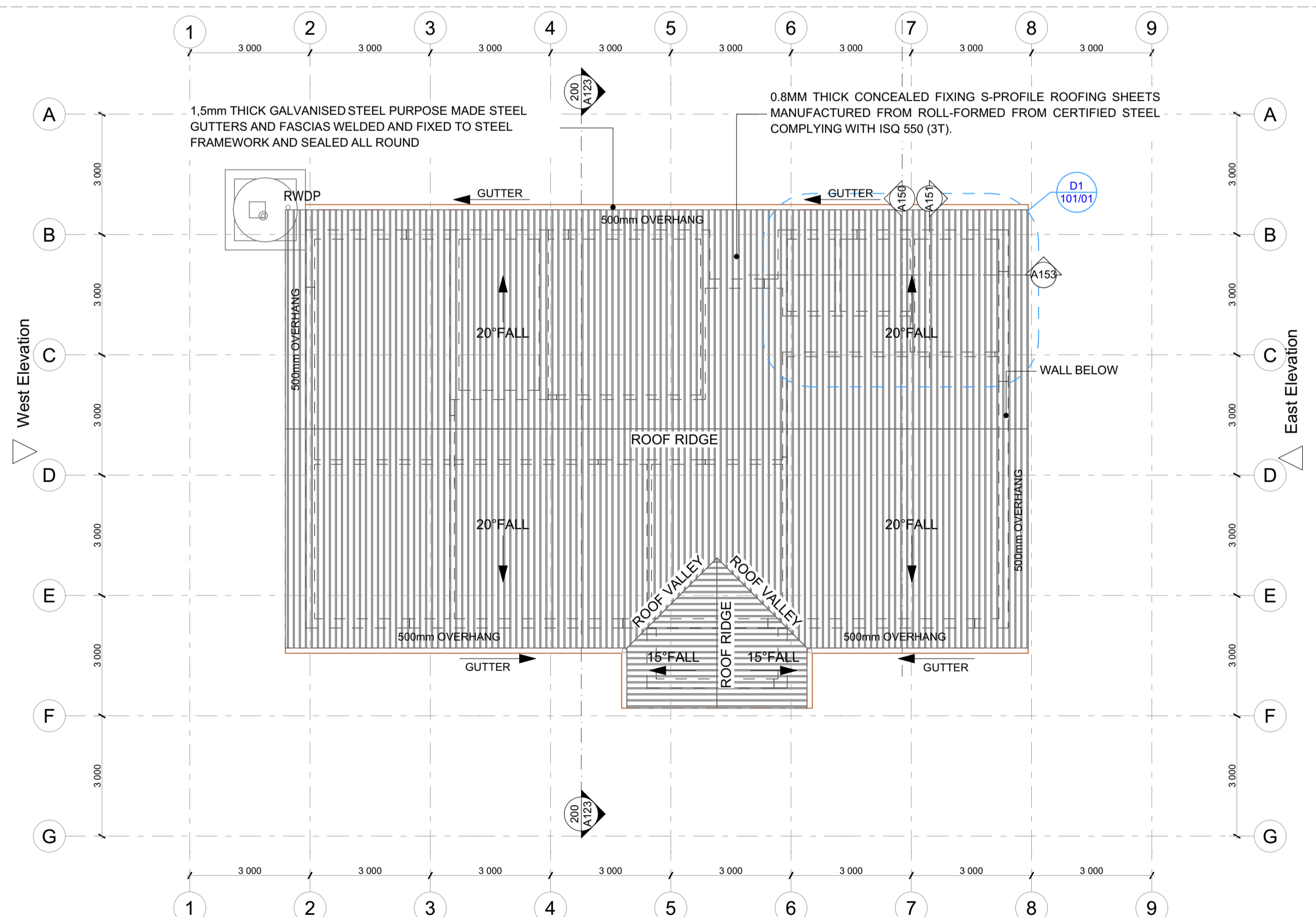
**FINISHES LEGEND**

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**  
420x420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**  
420 x 420 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds with thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fire Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**  
500mm x 500mm x 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wira test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**  
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per P&E Details installed in All Duct Chambers Accommodating Sanitary Services.
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
600mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
- WALL FINISHES:**
- W1: FACE BRICK**  
F&K face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant plaster primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calceus (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle 146 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.
- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
**Roofing Sheets:** 0.8mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonaflex" foil be installed AND 2, where the steel work is exposed, a 50mm "Tactoryboard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.
- Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws To Manufacturer Installation Instructions.
- Fascia board:** 250 x 10 mm Fibre Cement Fascia/Board. Screw Fixed To Truss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic F.V.A.

**CROSS SECTION**  
Scale 1: 50



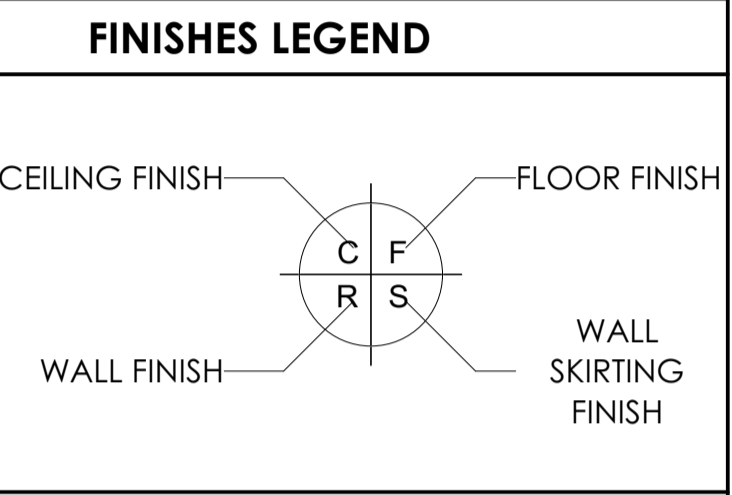
**ROOF PLAN**  
Scale 1: 100



**ISSUED FOR TENDER**

- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
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DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

CONTRACT - SECTION  
**RESTORATIVES, REPAIRS & ADDITIONS**

DISCIPLINE  
**DOCUMENTATION & PROCUREMENT**

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION  
**SMALL ADMINISTRATION BLOCK**

DRAWING DESCRIPTION  
**ROOF PLAN & SECTION**

| DRG No.  | 301-02      | 02/09 | ITEM No.           |
|----------|-------------|-------|--------------------|
| DESIGN   | NA          | CM    | DRAWN              |
| DATE     | AS SHOWN    | SMTN  | CHECK              |
| NOV 2019 | T. MANYADZA |       | PrArch<br>43981757 |

DRAWING COORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

www.ectura.com

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |

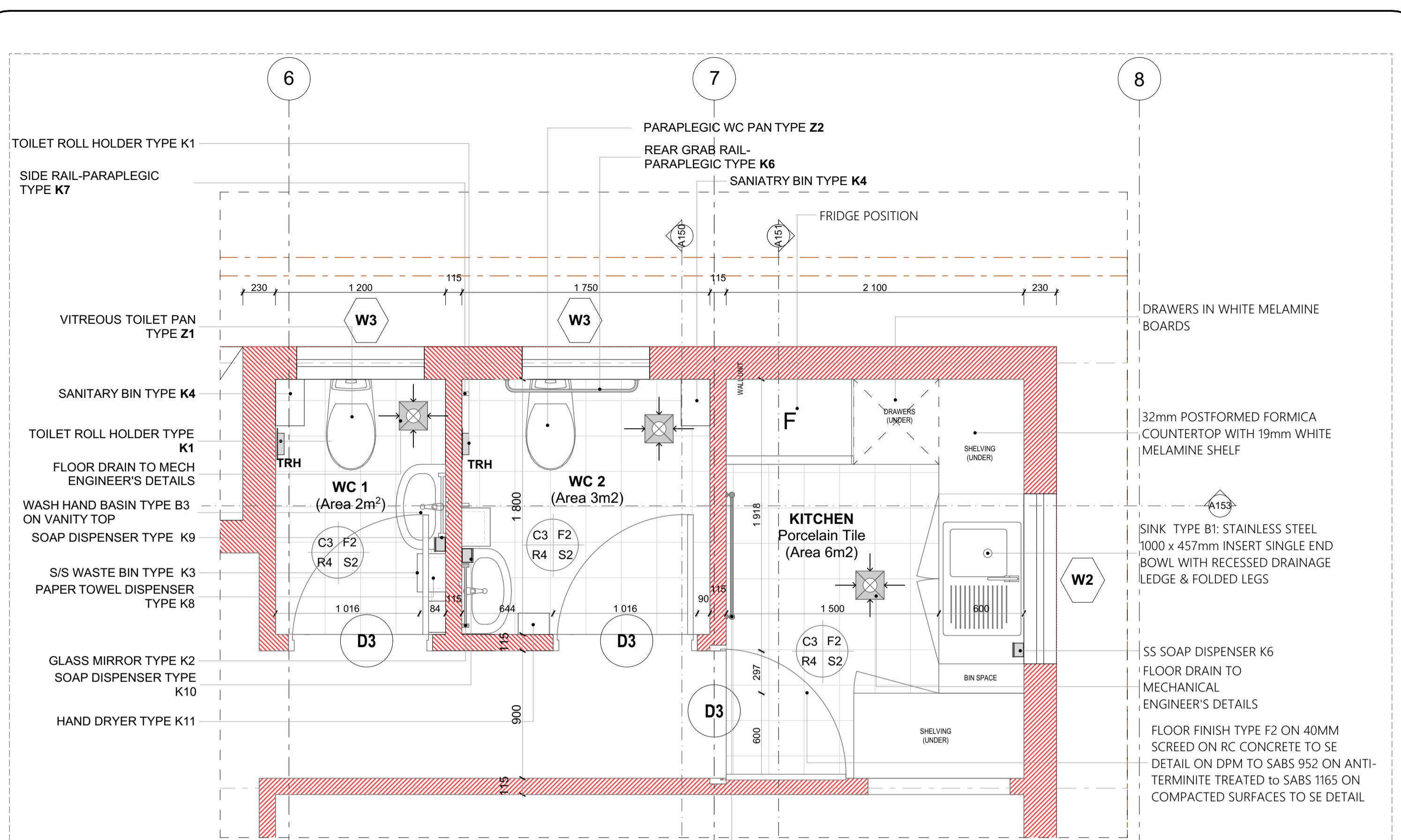




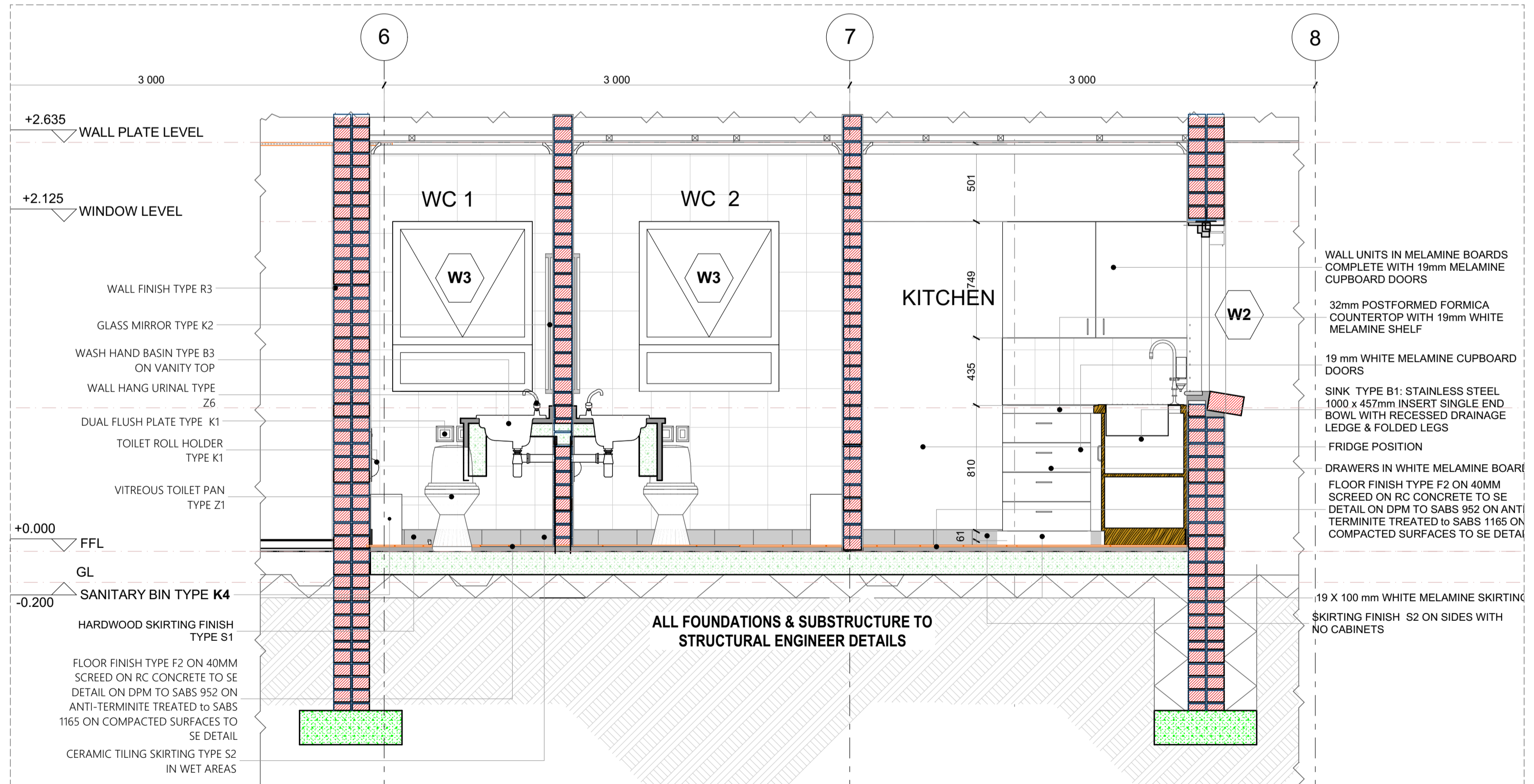


FINISHES LEGEND

- FLOORS:
F1. PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)
F2. PORCELAIN TILES - MATI
F3. CARPETILES
F4. CEMENT SAND SCREED
F5. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
F6. GRANITIC FINISH
F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
F8. SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
F9. GRAVEL FINISH ON SAND LAYER
SKIRTING:
S1. HARDWOOD OR EQUAL AND APPROVED
S2. CERAMIC TILE SKIRTING
S3. CEMENT SAND SCREED
WALL FINISHES:
W1. FACE BRICK
W2. EMULSION (PVA) PAINT - FULL HEIGHT
W3. ENAMEL PAINT
W4. GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)
CEILING AND CORNICE:
C1. 7mm GYPSUM BOARDS FLUSH FLASTERED CEILINGS OR EQUAL AND APPROVED
C2. FIBRE CEMENT BOARDS (JOINTED)
C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
ROOF COVERING AND INSULATION:
R1. EMBOSSED ROOFING SHEET (TWO SIDES)
R2. POLYURETHANE INSULATION



WET AREAS PLAN DETAIL D05
Scale 1: 25



WET AREAS SECTION DETAIL A153
Scale 1: 25

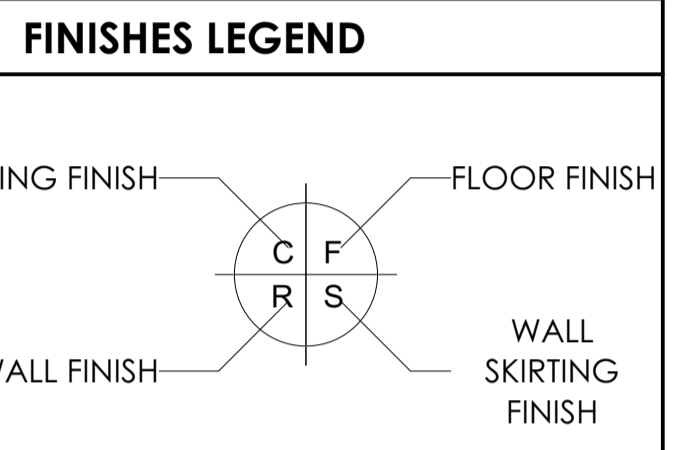
SANITARY SCHEDULE

- WC'S URINALS & SHOWER
11. CERAMIC STANDARD WC (CC) CONCEALED CISTERN
12. CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN
13. CERAMIC STANDARD WC (CC)
14. CERAMIC STANDARD WC (CC)
15. CERAMIC STANDARD WC (CC)
16. CERAMIC WALL HUNG URINAL
17. CERAMIC PARALEGIC WC
18. CERAMIC STANDARD WC (BACK INSET)
19. CERAMIC STANDARD WC (CC)
20. CERAMIC WALL HUNG URINAL
21. SHOWER
22. WASH-HAND BASIN
23. DISABLED BASIN
24. SINGLE WASH TROUGH (INSET) & 2 no. TAPS
25. DOUBLE WASH TROUGH (INSET) & 2 no. TAPS
26. MEDIC BASIN & FITTINGS (SICK BAY)
27. STAINLESS STEEL SINK
28. STAINLESS STEEL SINK
29. STAINLESS STEEL SINK
30. CERAMIC SINK
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ISSUED FOR TENDER

- LEGEND
NEW WALLS
EXISTING WALL TO BE RETAINED
EXISTING WALL TO BE DEMOLISHED
NEW FIXTURES & FITTING TO BE INSTALLED
ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

NOTES
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SIGNATURE TABLE with columns for DISCIPLINE, SIGN, and DATE.

REVISIONS table with columns for REV. NO., DATE, and DESCRIPTION.



DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

SMALL ADMINISTRATION BLOCK

WET AREAS DETAIL

Table with columns for DRG No., DESIGN, DATE, and CHECK.

Table with columns for DATE, NAME, SIGN, and PR. NUMBER.

DRAWING CO-ORDINATED

TECTURA - INTERNATIONAL logo and contact information for various offices.

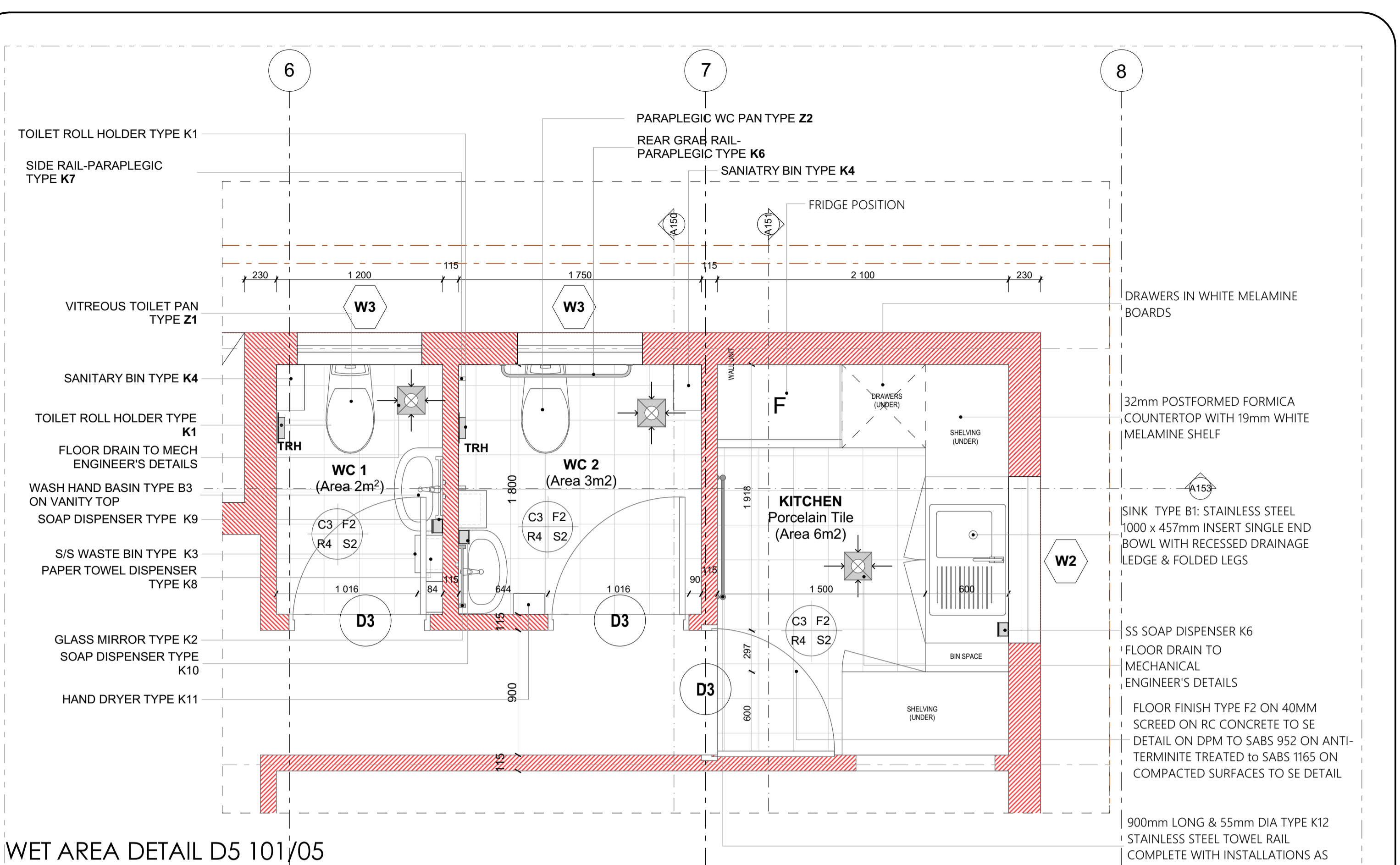
CONTRACTOR

Table with columns for CAD SYSTEM, SIZE, and DRAWING NUMBER.

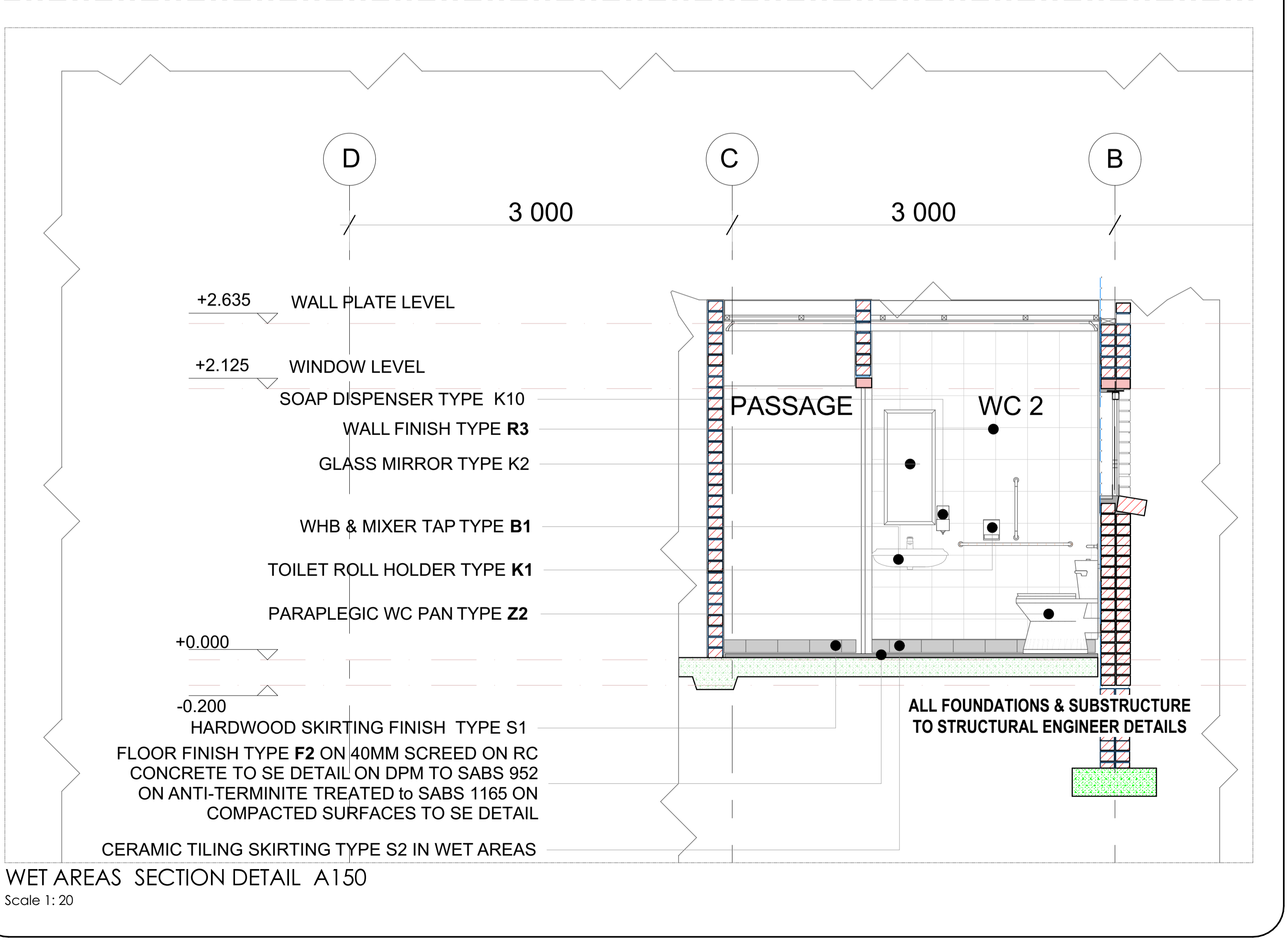


**FINISHES LEGEND**

- FLOORS:
F1: PORCELAIN TILES - MATI (Concave Resistant & Anti-Slippery)
F2: PORCELAIN TILES - MATI
F3: CARPETILES
F4: CEMENT SAND SCREED
F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
F6: GRANITIC FINISH
F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)
F9: GRAVEL FINISH ON SAND LAYER
SKIRTING:
S1: HARDWOOD OR EQUAL AND APPROVED
S2: CERAMIC TILE SKIRTING
S3: CEMENT SAND SCREED
WALL FINISHES:
W1: FACE BRICK
W2: EMULSION (PVA) PAINT - FULL HEIGHT
W3: ENAMEL PAINT
W4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)
W5: CERAMIC WALL TILES - FULL HEIGHT
CEILING AND CORNICE:
C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILING OR EQUAL AND APPROVED
C2: FIBRE CEMENT BOARDS (H-JOINTE)
C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED
ROOF COVERING AND INSULATION:
R1: EMBOSSED ROOFING SHEET (TWO SIDES)



WET AREA DETAIL D5 101/05



WET AREAS SECTION DETAIL A150

**SANITARY SCHEDULE**

- WC'S URINALS & SHOWER
W1: CERAMIC STANDARD WC (C/C) CONCEALED CISTERN
W2: CERAMIC PARALEGIC WC (C/C) CONCEALED CISTERN
W3: CERAMIC PARALEGIC WC (C/C) CONCEALED CISTERN
W4: CERAMIC STANDARD WC (RACK INLET)
W5: CERAMIC STANDARD WC (C/C)
W6: CERAMIC WALL HUNG URINAL
W7: CERAMIC PARALEGIC WC
W8: SHOWER
W9: WASH-HAND BASIN
W10: WASH-HAND BASIN
W11: WASH-HAND BASIN
W12: WASH-HAND BASIN
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ISSUED FOR TENDER

LEGEND

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
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FINISHES LEGEND

CEILING FINISH

FLOOR FINISH

WALL FINISH

SKIRTING FINISH

SIGNATURE TABLE

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

REVISIONS

| REV. NO. | DATE   | FIRST ISSUE FOR TENDER | DESCRIPTION |
|----------|--------|------------------------|-------------|
| A        | JUL 21 |                        |             |

LIMPOPO PROVINCIAL GOVERNMENT

DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE

PHAPHAMANI PRIMARY - 924 650 535

RESTORATIVES, REPAIRS & ADDITIONS

DOCUMENTATION & PROCUREMENT

ARCHITECTURAL 4

SMALL ADMINISTRATION BLOCK

PARALEGIC WET AREAS DETAIL

| DRG No.  | 301-05     | 05/09 | ITEM No.        |
|----------|------------|-------|-----------------|
| DESIGN   | NA         | CM    | DRAWN           |
| DATE     | AS SHOWN   | SMTN  | CHECK           |
| NOV 2019 | T. MANYAZA |       | P/Arch 43981757 |

CONTRACTOR

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |

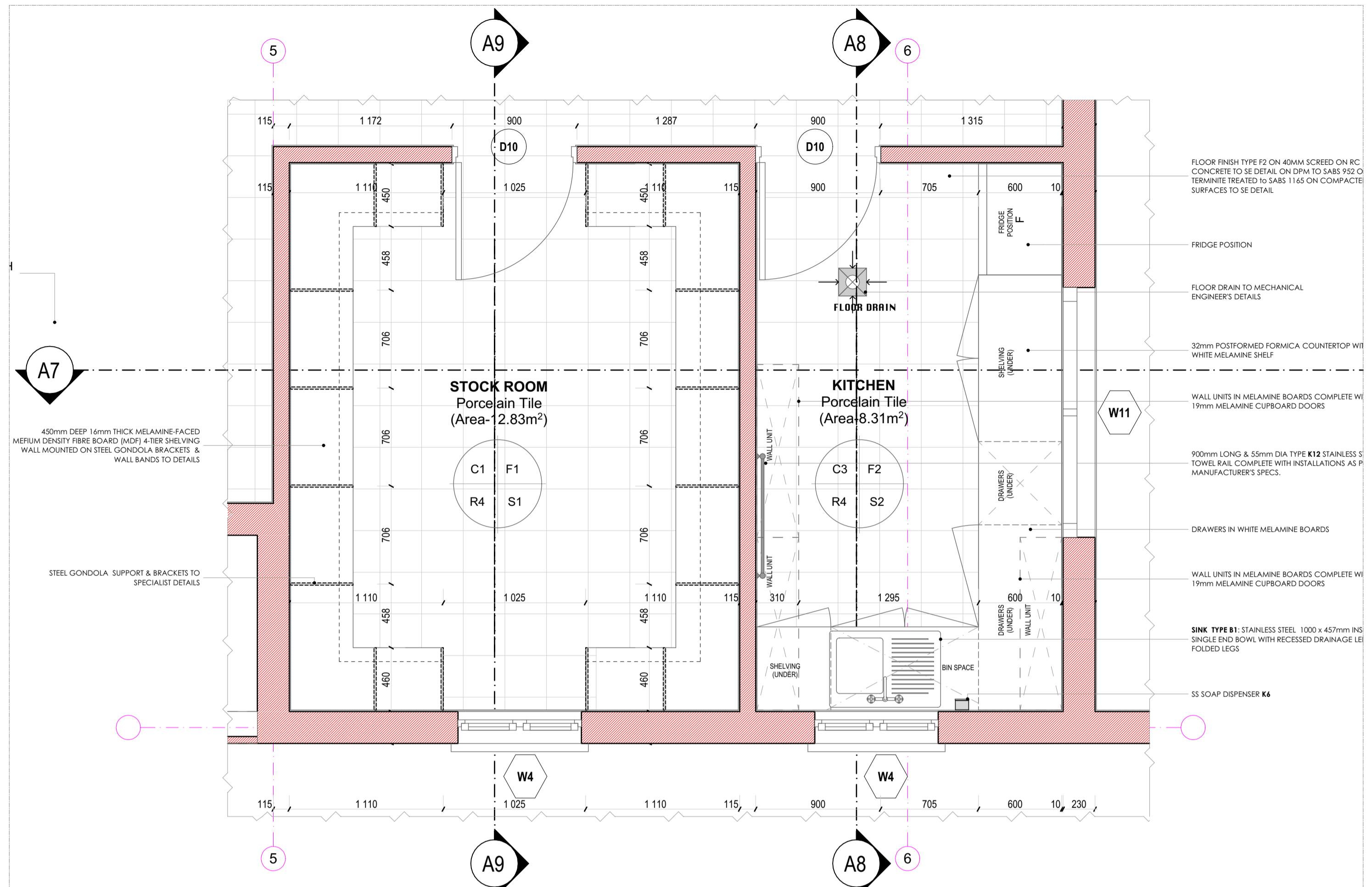
TECTURA - INTERNATIONAL!

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA



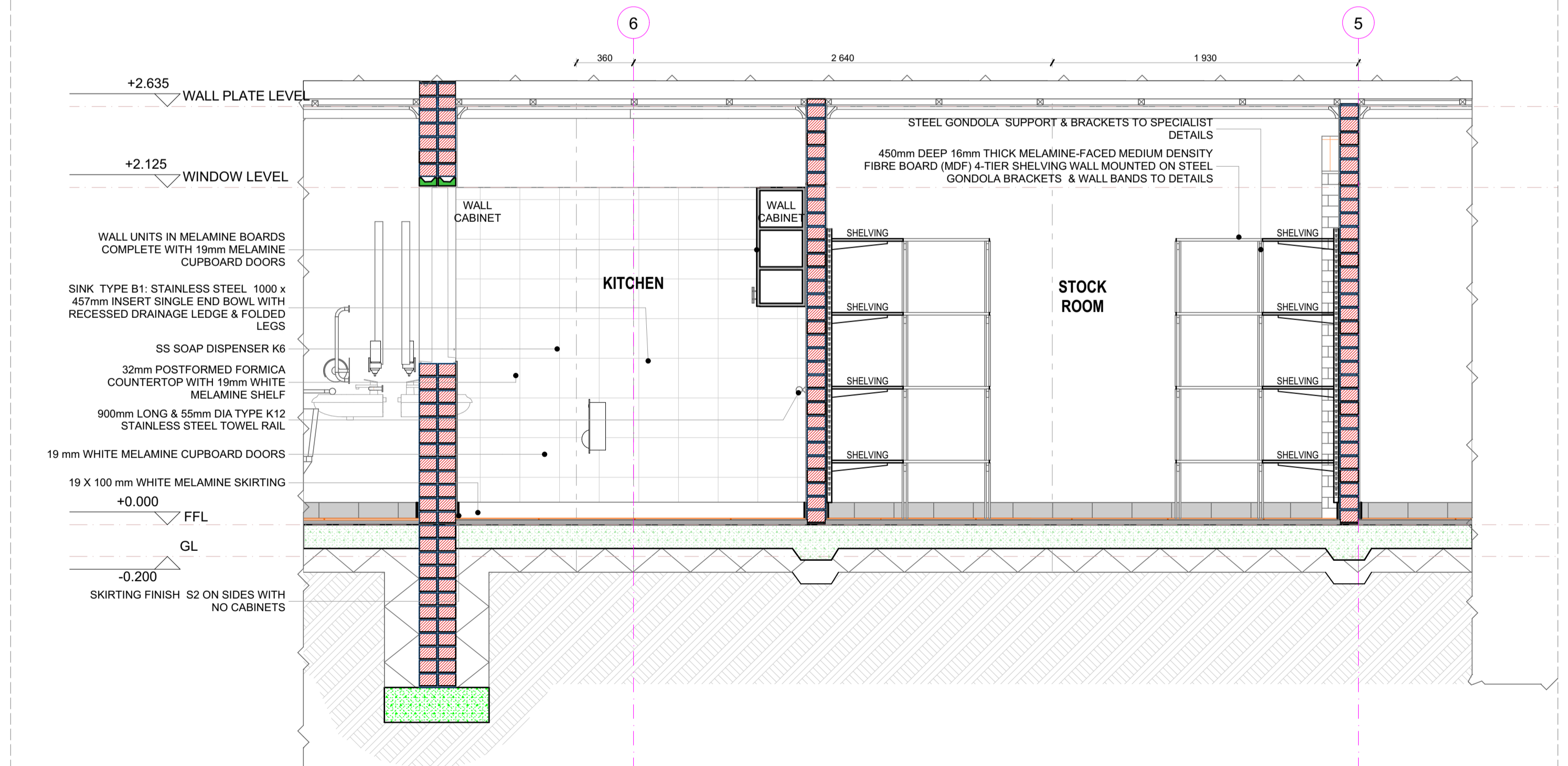
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- FLOORS:
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F7. INTERLOCKING PAVES (RIGID PAVING/VEHICULAR WAYS)
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C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
ROOF COVERING AND INSULATION:
R1. EMBOSSED ROOFING SHEET (TWO SIDES)



WET AREAS PLAN DETAIL D03

Scale 1: 25



WET AREAS SECTION DETAIL A7

Scale 1: 25

Table with 3 columns: TYPE, LOCATION, DESCRIPTION/SPECIFICATION. Details Melaminefaced MDF Shelving D450mm in the Stock Room.

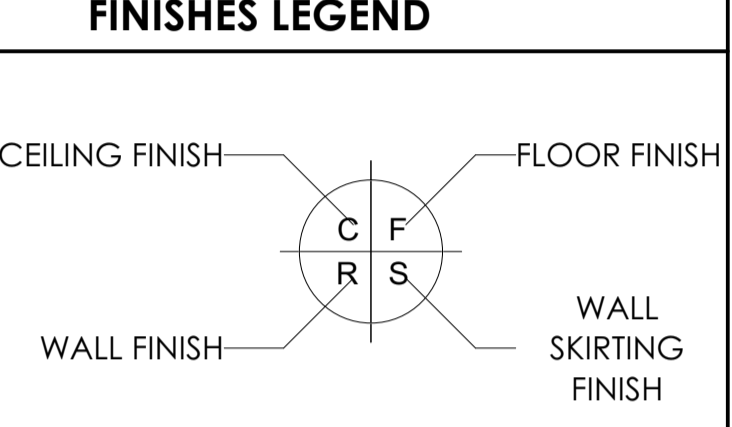
SANITARY SCHEDULE

- WC'S URINALS & SHOWER
11. CERAMIC STANDARD WC (C/C) CONCEALED CISTERN
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17. CERAMIC PARAPLEGIC WC
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100. CERAMIC STANDARD WC (C/C)

ISSUED FOR TENDER

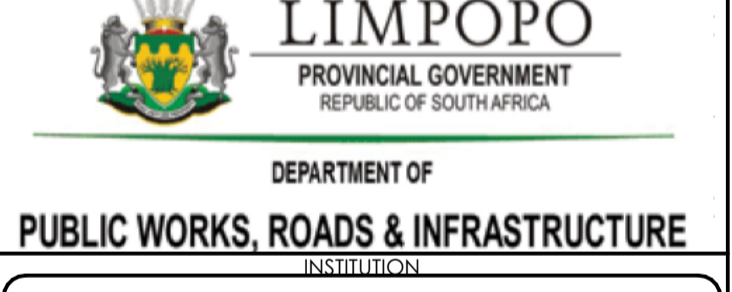
LEGEND table with symbols for new walls, existing walls to be retained/demolished, and new fixtures to be installed.

NOTES
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SIGNATURE TABLE with columns for DISCIPLINE, CLIENT, PLAN EXAMINER, FIRE CONTROL, ENVIRONMENTAL, ROADS / STORMWATER, WATER & SANITATION, SIGN, and DATE.

REVISIONS table with columns for REV. NO., DATE, DESCRIPTION, and SIGNATURE.



DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE
PHAPHAMANI PRIMARY - 924 650 535

WET AREAS & JOINERY DETAIL D03-01 table with columns for DRG No., DESIGN, DATE, RESPONSIBLE PROFESSIONAL, PR. NUMBER, and CHECK.

TECTURA - INTERNATIONAL logo and contact information for various offices.

CONTRACTOR table with columns for CAD SYSTEM, SIZE, PROJECT NUMBER, and REV.



**FINISHES LEGEND**

- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**  
450x450 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**  
450 x 450 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include: ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fire Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**  
500mm x 500mm x 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and SO body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 (Latest Revision).
- F6: GRANITIC FINISH**  
22mm thick polished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
225mm x 193mm x 50 mm thick concrete interlocking pavers, 25 nps, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ID (Anti-static) Protection Vinyl Sheet, Laid on Self-Levelled, Smooth Screed grouted with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap, Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation, Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

**FR: GRAVEL FINISH ON SAND LAYER**  
30mm Gravel On Compacted Sand Layer Base as per FR Detail installed in All Duct Chambers Accommodating Sanitary Services.

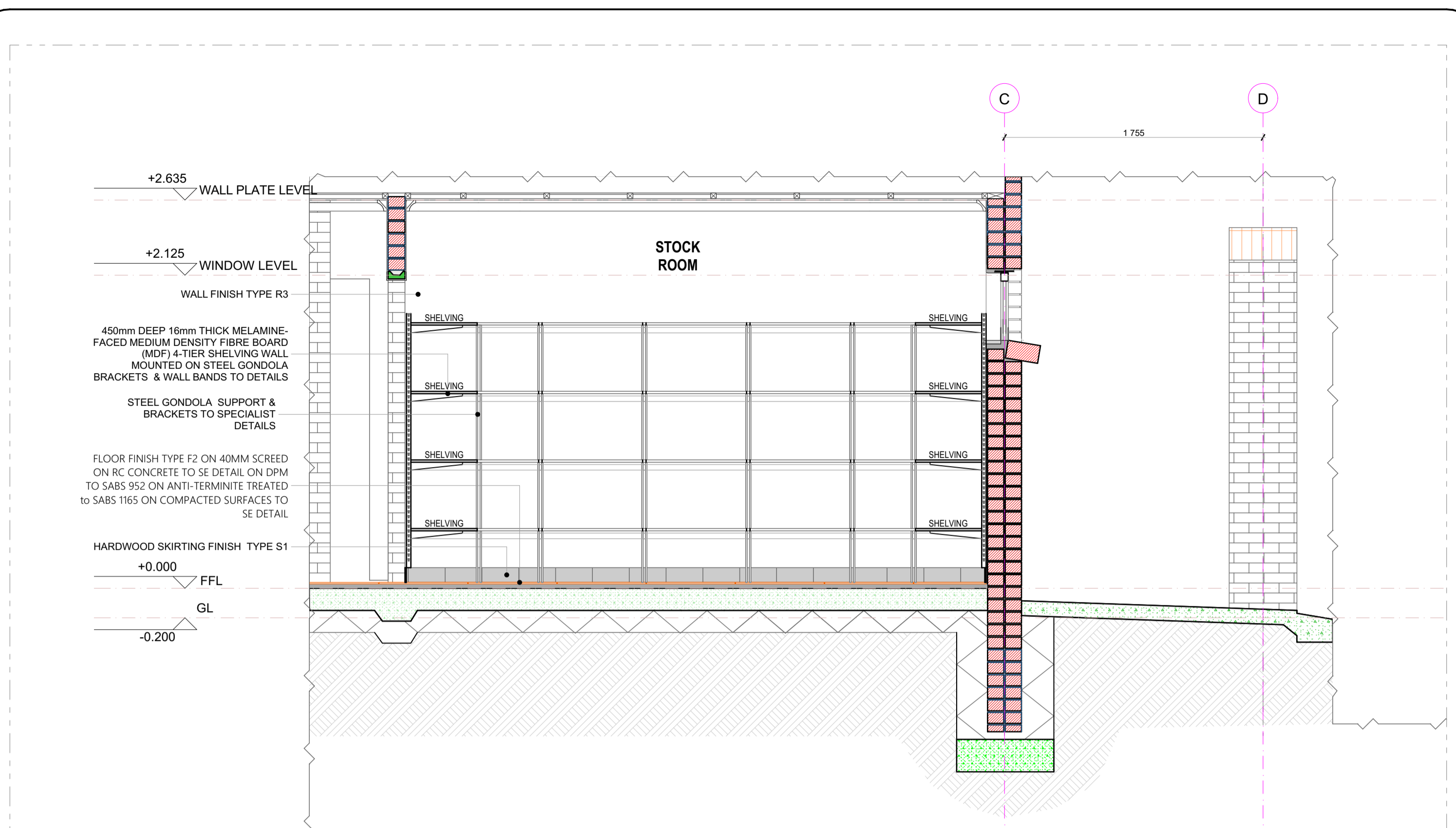
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 20mm thick screed in strict compliance to manufacturer's instructions and SABS specification, with one base and straight top. Complete with corner and top trims. Fittings to include: ribbed angle tiles where there is change of level. Colour and pattern to architect's approval.
- S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

**WALL FINISHES:**

- R1: FACE BRICK**  
FBK face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R3: ALKYLID (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkylid (enamel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COAT)**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
- C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCel Classic" gypsum plasterboard ceiling/ EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoLite.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calceus (Pre-Plastered or Fire Resisted OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn TR 138 Main Tees @ 4mm thickness, 2150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TSBV (1200 long) Cross Tees @ 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
"Emulsion (PVA) Paint on Skimmed Plastered Slab" 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.

**ROOF COVERING AND INSULATION:**

- F1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
**Roofing Sheets:** 0.38mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001 (ET). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromalok Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium station foil' shall be installed AND 2. where the steel work is exposed, a 50mm 'Factoryboard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white meltable foil.
- Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.6mm EaveGutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 (H) x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws to Manufacturer Installation instructions.
- Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed To Tuss Ends & Counter Butts With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



**JOINERY SECTION DETAIL A9**  
Scale 1: 25

| STEEL SHELVING                    |            |  |
|-----------------------------------|------------|--|
| TYPE                              | LOCATION   | DESCRIPTION/SPECIFICATION  |
| MELAMINEFACED MDF SHELVING D450mm | STOCK ROOM | 450mm deep 16mm thick Melamine-faced Medium Density Fibre board (MDF) 4-tier shelving wallmounted on steel gondola brackets and wall bands, comprising of:<br>* Shelf boards comprising of plain "Supawood" MDF faced with melamine impregnated paper, in architect approved finish. Vertical spacing for each tier 450mm.<br>* Medium steel wall band double slotted 1825mm in 'Ivory Epoxy' finish, at 900mm spacing.<br>* Wall gondola brackets 450mm (as applicable), in 'Ivory Epoxy' finish. |

**SANITARY SCHEDULE**

- WC'S URINALS & SHOWER**
- 71: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- 72: CERAMIC PARAPLEGIC WC**  
Vitreous china 90° outlet or equal and approved. Top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- 73: CERAMIC PARAPLEGIC WC (CCL) CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved. Top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paraplegic access.
- 74: CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- 75: CERAMIC STANDARD WC (CC)**  
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (R3) seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- 76: CERAMIC WALL HUNG URINAL**  
Vitreous china size 415x152x75 mm wall hung bowl urinal to comply with SABS 497. Supplied with suitable 38mmCP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
- 80: SHOWER**  
800mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
 \* Glass/Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration  
 \* Wheelchair shower seat with wall flange.  
 \* Chrome Plated Shower Head with ball jointed connector  
 \* Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with exposed pit/hole face.
- WASH-HAND BASIN**
- 81: WMR & MIXER TAP**  
Top Sanitaryware Vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'No. Cobro WaterTech' 15mm chrome pushbutton demand pillar tap with flanged bakelite (code KM2102) metering tap, 309-32 CP anti-hell plug with spindle. 308 basin-walls with 40mm CP bottle trap, mounting kit and angle valves.
- 82: DISABLED BASIN**  
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
- 83: WHITE GLAZED PORCELAIN WHR (VANTO)**  
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: No. chrome plated tap with flanged bakelite (code KM2102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.
- 84: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**  
Vitreous china size 455x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- 85: HUIDITY BASIN & No. TAP (FOR LABS)**  
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and RRS hole plugged and fitted with: No. pillar tap, Chrome Plated anti-hell plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- 86: MEDIC BASIN & FITTINGS (SICK BAY)**  
Ceramic china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.  
 Combination of sanitaryware, accessories and general fittings comprising of:  
 \* Mixer type K2  
 \* Paper towel dispenser KB and bin type K3  
 \* Soap dispenser type K5  
 \* Soapback comprising 2No. rows of wall tile finish type R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**  
Stainless steel 450 x 450mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- K2: STAINLESS STEEL SINK**  
Stainless steel 450 x 450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved sink mixer-wall type, with chrome plated oversize swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- K3: CERAMIC SINK**  
Ceramic freesty 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
- K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**  
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP tap/water - plain extended chrome plated, complete with sliding wall flanges. Un-slotted sink waste with back nut, plug with string, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFFL. Cut out size 535 x 425mm.
- K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**  
1200 x 550 x 200mm Double bowl hung washtrough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No wall type tap/water, with level Outlet, adjustable wall flange and exposed adjustable connections. CP, Un-slotted sink waste with back nut and plug with string. CP, Double drain black rubber deep seal 'P'-Trap. Sink mounted on 2No. 30mm square SS galvanized brackets, front leg and adjustable foot piece at height of 915mm AFFL.
- SANITARY ACCESSORIES**
- K1: SS TOILET ROLL HOLDER - 2 ROLL**  
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**  
8mm thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times fold and fixed, with chromium plated domed-headed mirror screws.
- K3: SS WASTE BIN**  
200 x 650 x 2100 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**  
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARAPLEGIC**  
Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC**  
Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**  
350mmWx320mmHx200mm Deep and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER, DISH- WALL MOUNTED**  
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOKS (MULTI-HOOK)**  
500mm Wide x 220mm High x 19mm Top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
- K11: HAND DRYER (Hands free)**  
As per Electrical Engineers specification
- K12: TOWEL RAIL**  
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
- K13: SHOWER CURTAIN RAIL (straight)**  
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.

**GENERAL FIXTURES**

- G1: DOOR PROTECTOR**  
2000mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
- G2: PROTECTOR SCREEN**  
Full door PVC screen size 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC4000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufacturer's instructions.
- G3: FINBOARD 1500W X 1000H**  
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded off round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBOARD 300W X 1200H**  
Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded off round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BUNDS (vertical fabric)**  
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear made a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
- G6: FLOOR DRAIN**  
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SS FLOOR EXPANSION JOINT COVER**  
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS- GREEN SURFACE COLOUR**  
Vitex system 1000 standard WHITEBOARD & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitex Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

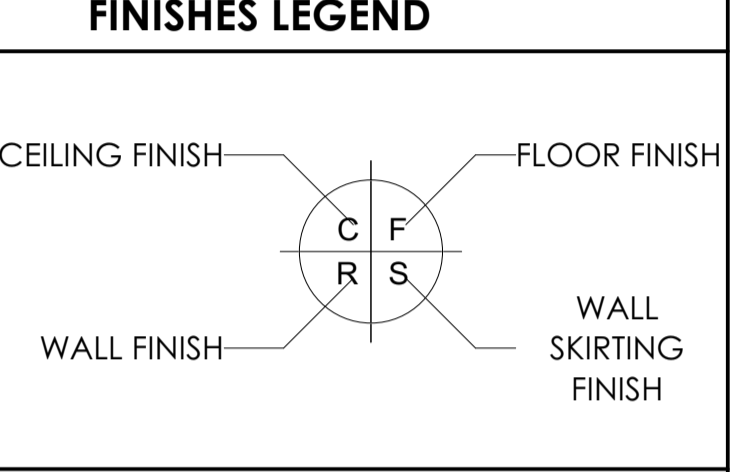
**ISSUED FOR TENDER**

- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS ARE TO BE READ, NOT TO SCALED FROM THIS DRAWING

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



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**REVISIONS**

**DEPARTMENT OF PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

| DISCIPLINE    | NO. |
|---------------|-----|
| ARCHITECTURAL | 4   |

WORK DESCRIPTION - SUB DIVISION

**SMALL ADMINISTRATION BLOCK**

DRAWING DESCRIPTION

**JOINERY DETAILS D03-02**

| DRG No.                  | 301-07     | 07/09      | ITEM No.       |
|--------------------------|------------|------------|----------------|
| DESIGN                   | NA         | CM         | DRAWN          |
| DATE                     | AS SHOWN   | MTN        | CHECK          |
| RESPONSIBLE PROFESSIONAL |            |            |                |
| NOV 2019                 | T. MANYAZA | PR. NUMBER | Pr/CA 43981757 |

DRAWING CO-ORDINATED

**TECTURA - INTERNATIONAL!**

|   |   |  |  |
|---|---|--|--|
| <b>GABRIELLE</b><br>BARBERSHOP HOUSE<br>1300 WINDY ROAD<br>COUNTRYPARK 01517<br>DURBAN<br>PHONE: 031 293 145<br>FAX: 031 293 145<br>EMAIL: info@tectura.com | <b>NOORHANI</b><br>MORNING STAR PROPHET<br>12000 WINDY ROAD<br>COUNTRYPARK 01517<br>DURBAN<br>PHONE: 031 293 145<br>FAX: 031 293 145<br>EMAIL: info@tectura.com | <b>NORTHWEST</b><br>MORNING STAR PROPHET<br>12000 WINDY ROAD<br>COUNTRYPARK 01517<br>DURBAN<br>PHONE: 031 293 145<br>FAX: 031 293 145<br>EMAIL: info@tectura.com | <b>NORTHERN CAPE</b><br>200 WINDY ROAD<br>COUNTRYPARK 01517<br>DURBAN<br>PHONE: 031 293 145<br>FAX: 031 293 145<br>EMAIL: info@tectura.com |
|---|---|--|--|

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |



**FINISHES LEGEND**

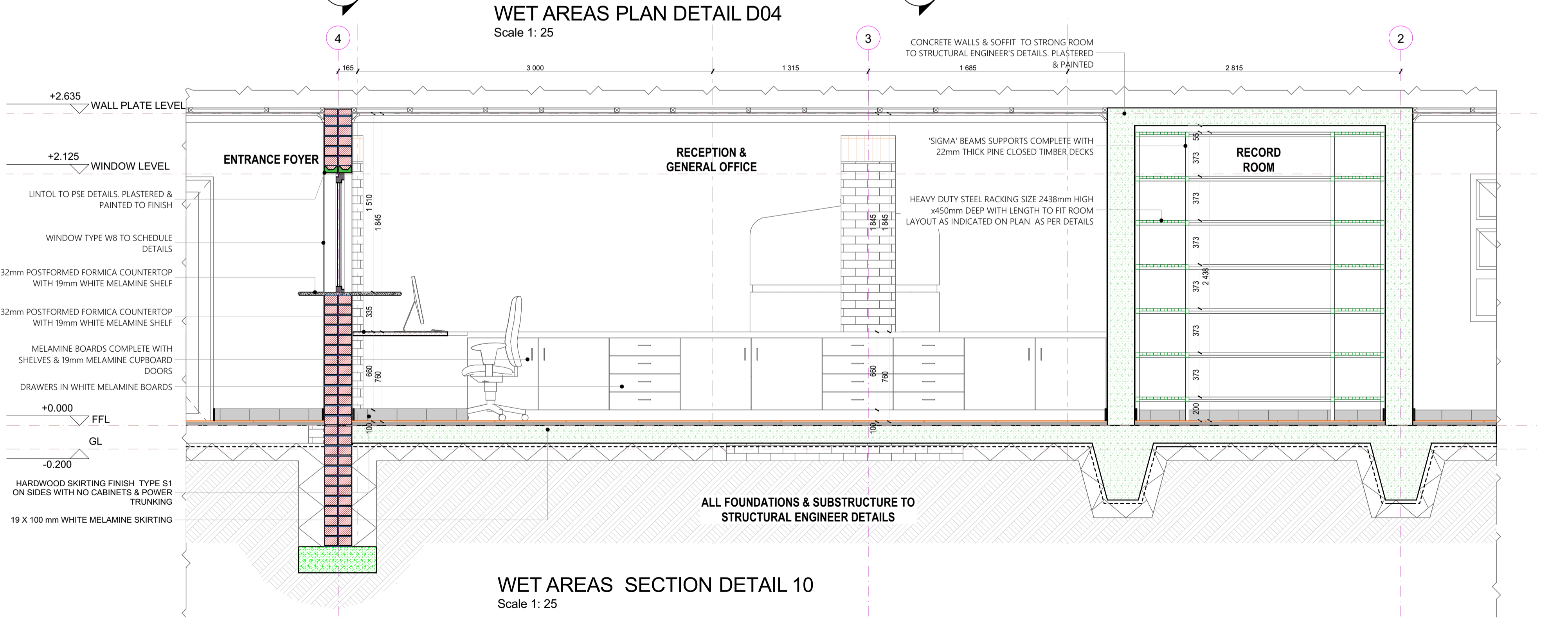
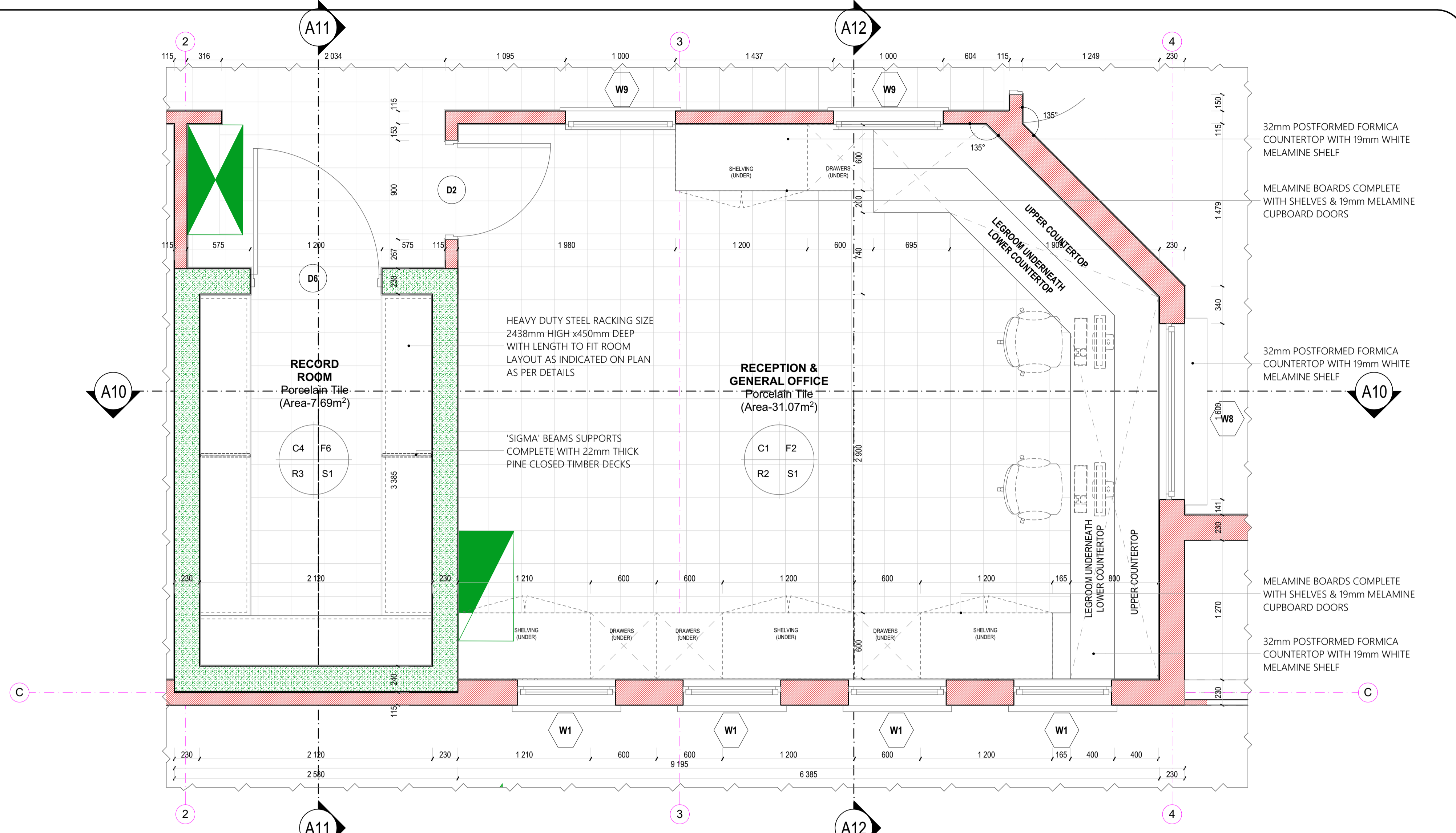
- FLOORS:**
- F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**  
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILES - MATI**  
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETS**  
500mm x 500mm . 1005 PFK staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54224 on wear test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANULITIC FINISH**  
22mm thick unadorned Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 193mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-Static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099 fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

- WALL FINISHES:**
- W1: FACE BRICK**  
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W3: ENAMEL (EMAMEL) PAINT**  
2 no. coats matt (egg shell) finish (enamel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- W5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.

- CEILING AND CORNICE:**
- C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
7mm GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calceus (Pre-Plastered or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn 138 FR Main Tees @ 4mm thickness, 1150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
**Roofing Sheets:** 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 520 (S1). The profile shall have three trapezoidal ribs of 20mm spacing giving a total cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 28mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled rooflights to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium stonafon' foil shall be installed AND 2. where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with metalized foil.
- Galvanized Steel (GI) Gutter:** 150mm wide x 100mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.
- Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



| STEEL SHELVING                                       |             |  |
|--|-------------|--|
| TYPE   | LOCATION    | DESCRIPTION/SPECIFICATION  |
| HEAVY DUTY STEEL RACKING (Length as per Layout Plan) | STRONG ROOM | Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x Legth as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 500kg per frame. |

**ISSUED FOR TENDER**

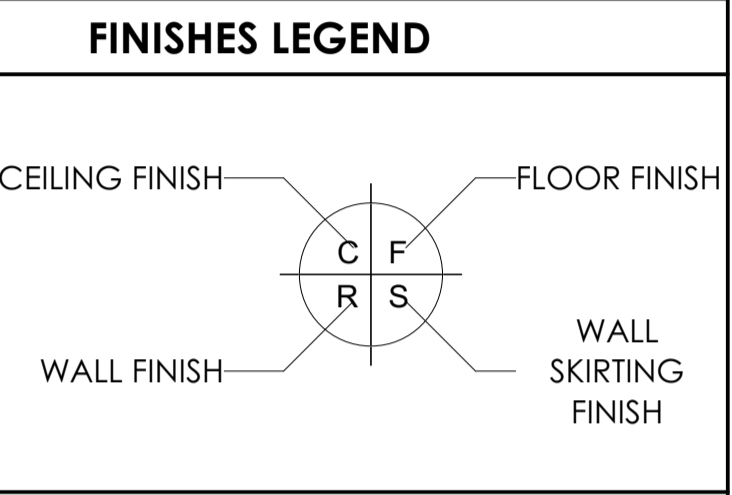
- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

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

PHAPHAMANI PRIMARY - 924 650 535

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE: ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: JOINERY DETAILS D04-01

| DRG No.  | 301-08      | 08/09 | ITEM No.        |
|----------|-------------|-------|-----------------|
| DESIGN   | NA          | CM    | DRAWN           |
| DATE     | AS SHOWN    | SMTN  | CHECK           |
| NOV 2019 | T. MANYADZA |       | P/Arch 43981757 |

DRAWING COORDINATED

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**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |







**FINISHES LEGEND**

- FLOORS:**
- F1: PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPERY)**  
420x420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
- F2: PORCELAIN TILE - MATI**  
420 x 420 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 4mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
- F3: CARPETILES**  
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on weta test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.
- F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.
- F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
45mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
- F6: GRANOLITHIC FINISH**  
22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
- F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.
- F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ESD or ID (anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
- F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

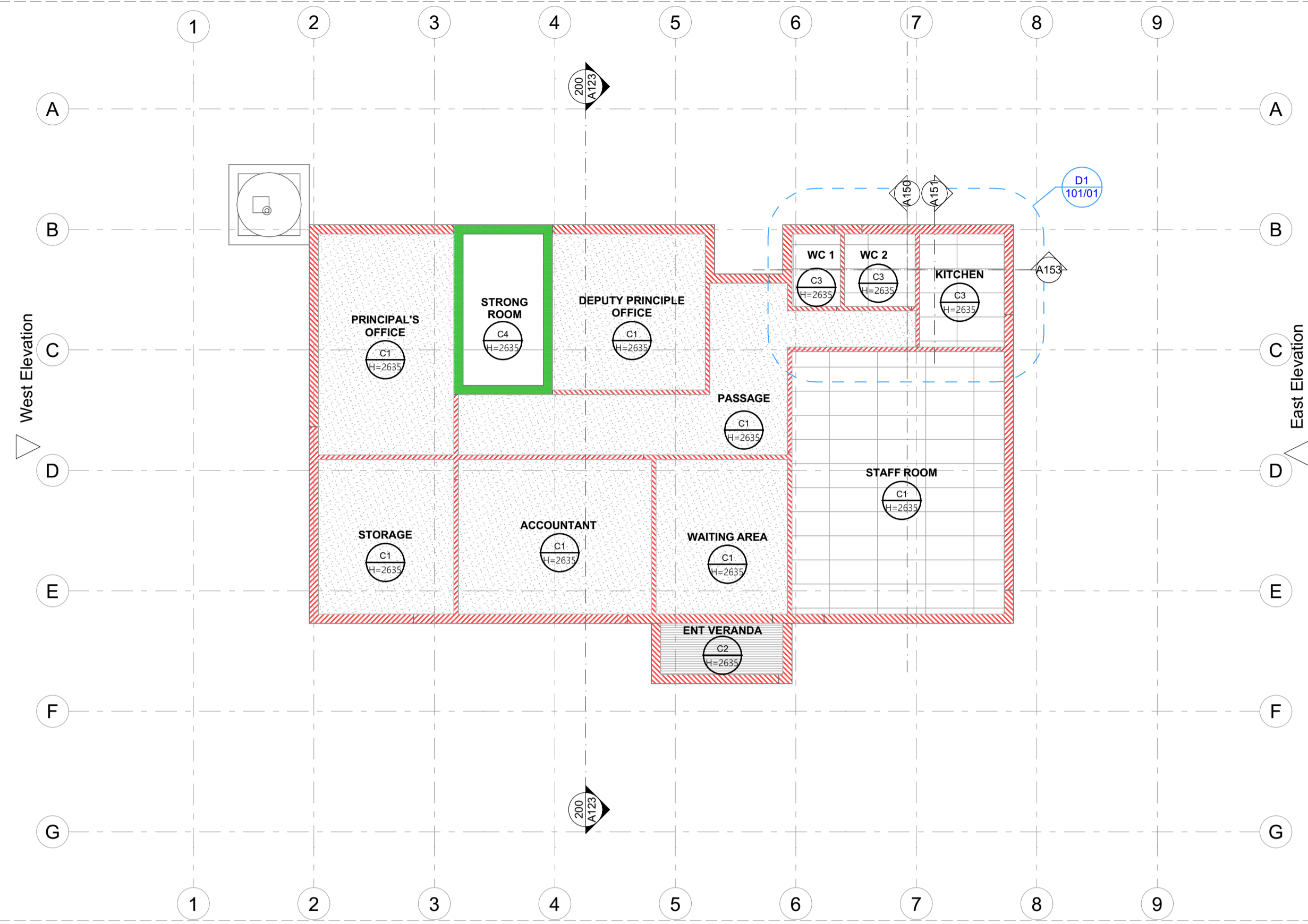
- SKIRTING:**
- S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
- S2: CERAMIC TILE SKIRTING**  
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.
- S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

- WALL FINISHES:**
- R1: FACE BRICK**  
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.
- R2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R3: ALKALYD (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkylid (enamel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.
- R4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
- R5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

- CEILING AND CORNICE:**
- C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centers. Apply, Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centers using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoPlate to all joints and skim the ceiling using Gyproc RhinoPlate.
- C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calotex PFI Prefinished or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 1150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
- C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Slab 2No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

- ROOF COVERING AND INSULATION:**
- R1: EMBOSSED ROOFING SHEET (TWO SIDES)**
- Roofing Sheets:** 1.50mm Thick cold-rolled forming roofing sheets manufactured from roll-formed from certified steel complying with S2, S20 (S1). The profile shall have three trapezoidal ribs @ 200mm centres giving a flat corner of 45deg. The rib height shall be 41mm and provide casully breaks. The main ribs shall have an 83mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
- Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonaflex" foil shall be installed AND 2, where the steel work is exposed, a 50mm "FactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.
- Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
- Downpipes:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-lapping screws To Manufacturer Installation instructions.
- Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

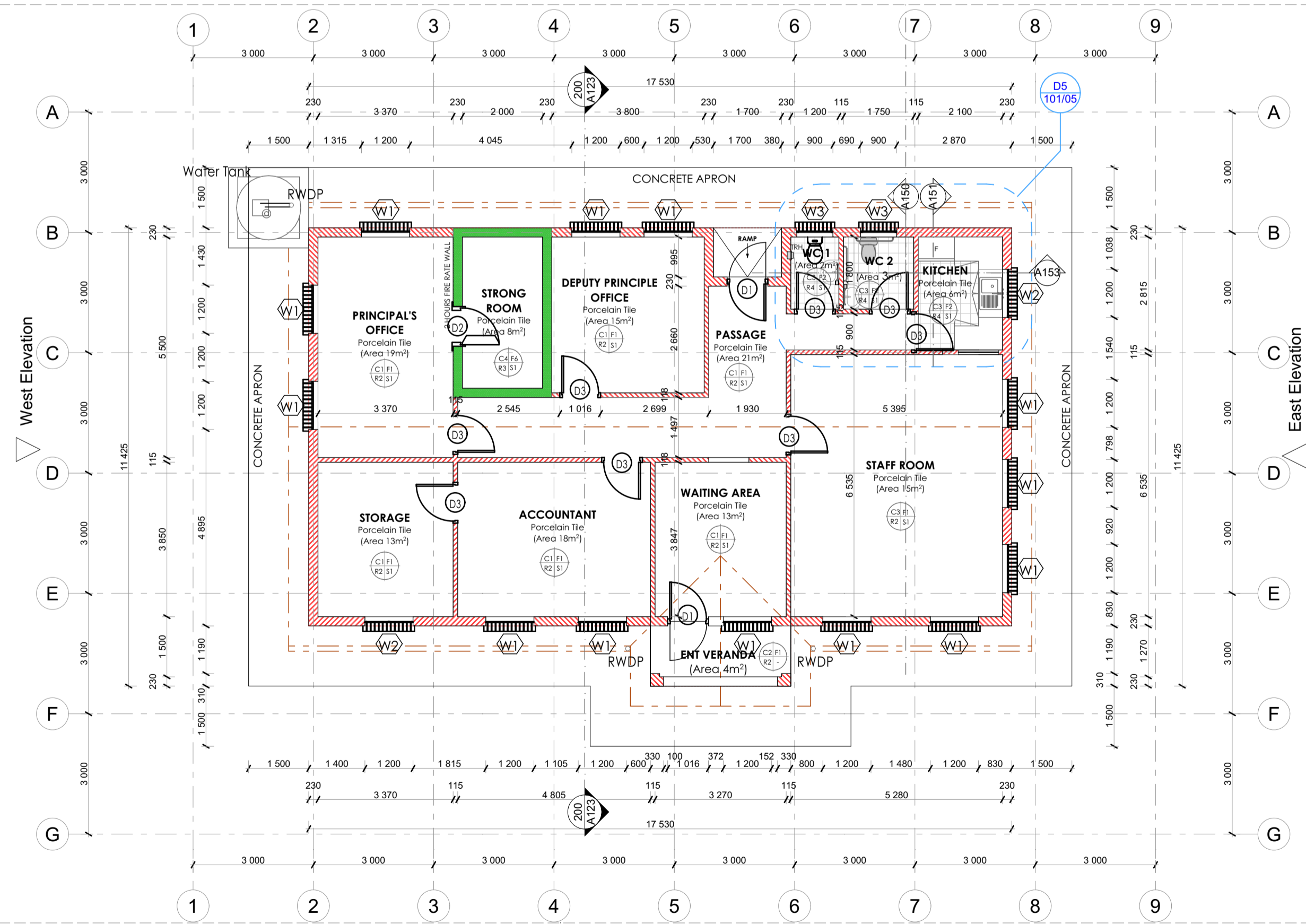
**CEILING PLAN**  
Scale 1: 100



**CEILING LEGEND**

- CEILING TYPE C1:** GYPSUM BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C2:** FIBRE-CEMENT BOARDS AS PER FINISHES SCHEDULE.
- CEILING TYPE C3:** PATENT ACOUSTIC TILES PER FINISHES SCHEDULE.
- CEILING TYPE C4:** EMULSION PAINT ON SKIMMED SOFFIT AS PER FINISHES SCHEDULE.

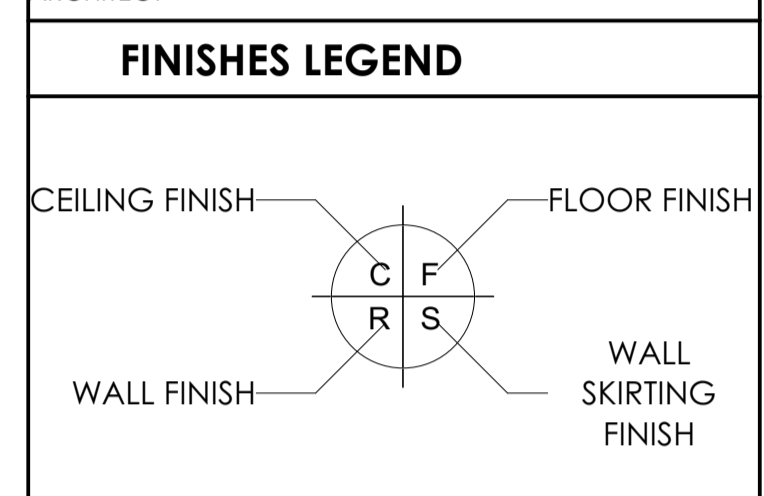
**FLOOR PLAN**  
Scale 1: 100



**ISSUED FOR TENDER**

- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY IS TO BE REPORTED TO THE PROJECT ARCHITECT



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**  
CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**  
DISCIPLINE

**ARCHITECTURAL** 4  
WORK DESCRIPTION - SUB DIVISION

**SMALL ADMINISTRATION BLOCK**  
DRAWING DESCRIPTION

**FLOOR & CEILING PLANS**

|         |          |       |          |
|---------|----------|-------|----------|
| DRG No. | 301-01   | 01/09 | ITEM No. |
| DESIGN  | NA       | CM    | DRAWN    |
| DATE    | AS SHOWN | SMTN  | CHECK    |

| DATE     | NAME        | SIGN | PR. NUMBER         |
|----------|-------------|------|--------------------|
| NOV 2019 | T. MANYADZA |      | PrArch<br>43981757 |

DRAWING CO-ORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

|            |                       |           |     |
|------------|-----------------------|-----------|-----|
| CAD SYSTEM | AUTOCAD               | FILE NAME |     |
| SIZE       | PROJECT NUMBER        |           | REV |
| A1         | LDPW - PROF/16002/E08 |           | 0   |



**FINISHES LEGEND**

**FLOORS:**

**F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**  
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

**F2: PORCELAIN TILES - MATI**  
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds with thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fire Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CARPETILES**  
500mm x 500mm . 1005 PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wira test and 50 body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.

**F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

**F6: GRANOLITHIC FINISH**  
22mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a "herringbone" pattern to the Architect's approval.

**F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness. Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

**WALL FINISHES:**

**W1: FACE BRICK**  
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

**W3: ENAMEL (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

**W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**W5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**CEILING AND CORNICE:**

**C1: 7mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"GypCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc Rhinoboard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotape.

**C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc Rhinoboard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotape.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calotex (Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle 146 fixed to the perimeter wall using fixings at 300mm centres. Donn T38 FR Main Tees @ 4mm thickness, 2150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

**ROOF COVERING AND INSULATION:**

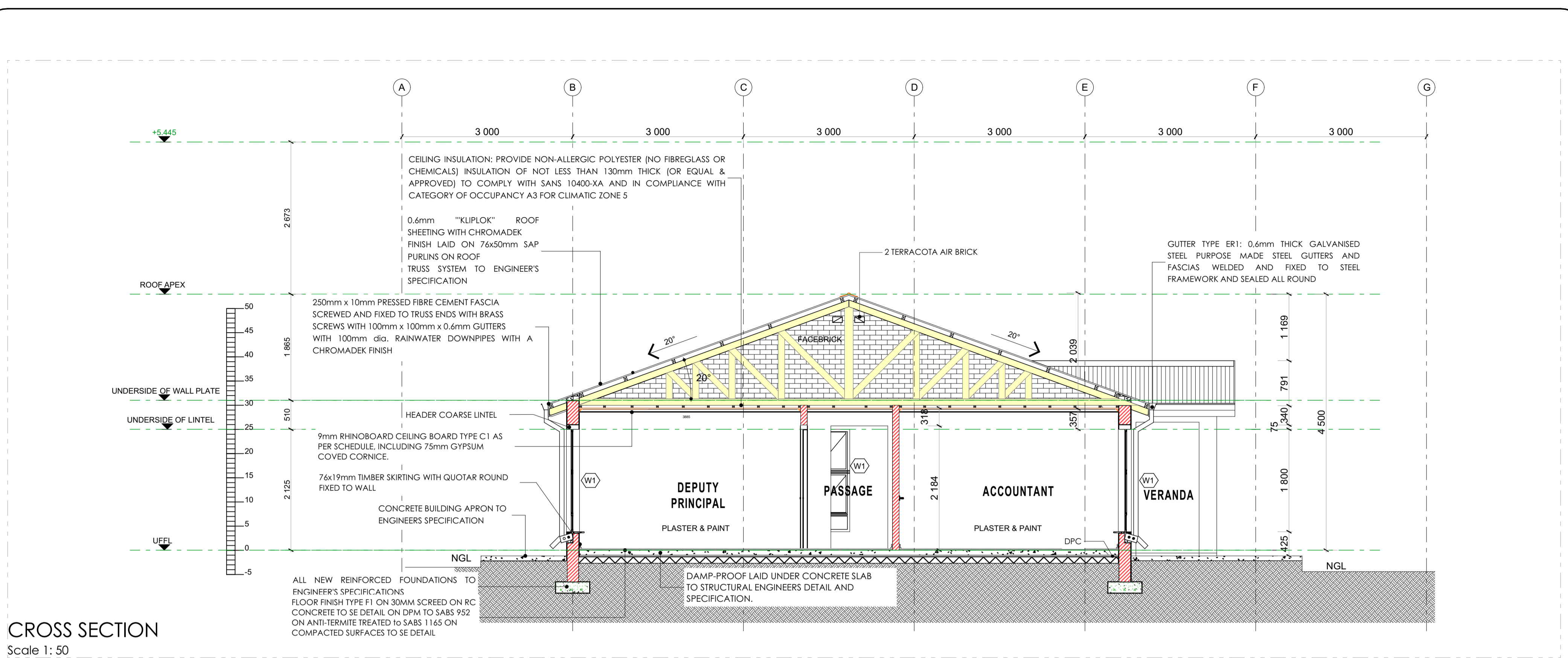
**R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
**Roofing Sheets:** 1.5mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 550 (ST). The profile shall have three trapezoidal ribs at 20mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roof sheets to be coated on both sides with "Global Coat" or "Chromadek Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.

**Insulation:** SHALL EITHER BE: 1, where there are acoustic ceilings suspended board, a heavy duty "Aluminium stonafon foil" shall be installed AND 2, where the steel work is exposed, a 50mm "Tactoryboard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.

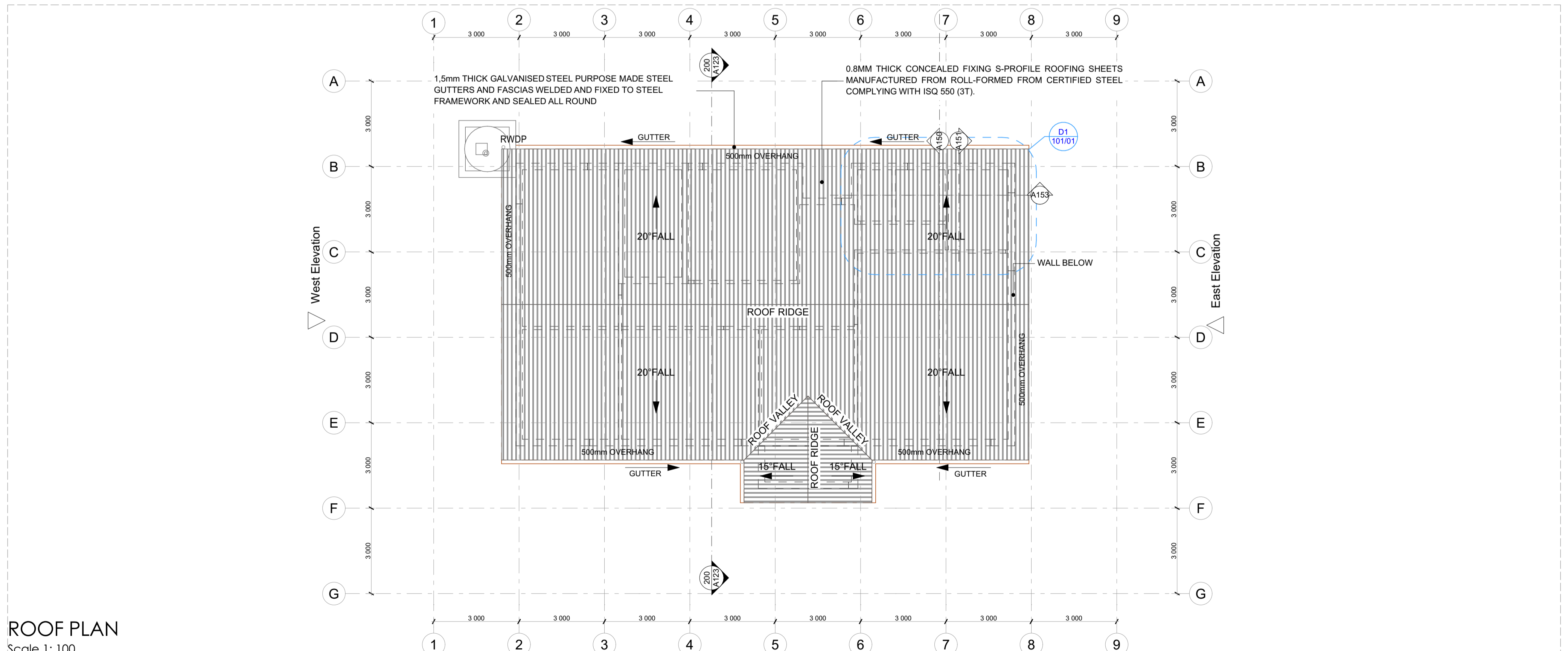
**Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Fascia Board Together with standard accessories discharging into Rainwater Downpipes.

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

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



**CROSS SECTION**  
Scale 1: 50



**ROOF PLAN**  
Scale 1: 100

**ISSUED FOR TENDER**

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

**FINISHES LEGEND**

|                |                      |
|----------------|----------------------|
| CEILING FINISH | FLOOR FINISH         |
| WALL FINISH    | WALL SKIRTING FINISH |

**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS   STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

CONTRACT - SECTION  
**RESTORATIVES, REPAIRS & ADDITIONS**

DISCIPLINE  
**DOCUMENTATION & PROCUREMENT**

ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION  
**SMALL ADMINISTRATION BLOCK**

DRAWING DESCRIPTION  
**ROOF PLAN & SECTION**

|         |          |       |          |
|---------|----------|-------|----------|
| DRG No. | 301-02   | 02/09 | ITEM No. |
| DESIGN  | NA       | CM    | DRAWN    |
| DATE    | AS SHOWN | SMTN  | CHECK    |

| DATE     | NAME        | SIGN | PR. NUMBER         |
|----------|-------------|------|--------------------|
| NOV 2019 | T. MANYADZA |      | PrArch<br>43981757 |

DRAWING COORDINATED

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ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

CONTRACTOR

|            |                       |           |  |
|------------|-----------------------|-----------|--|
| CAD SYSTEM | AUTOCAD               | FILE NAME |  |
| SIZE       | PROJECT NUMBER        | REV       |  |
| A1         | LDPW - PROF/16002/E08 | 0         |  |



**FINISHES LEGEND**

**FLOORS:**  
**F1: PORCELAIN TILES - MATI (CONTOUR RESISTANT & ANTI-SLIPPERY)**  
 420 x 420 11.5mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

**F2: PORCELAIN TILES - MATI**  
 420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/SPECIFICATION in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level. Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CARPETILES**  
 500mm x 500mm, 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and 50 body test at less than 20% at 25% RH on static electricity. Colour and pattern to architects approval.

**F4: CEMENT SAND SCREED**  
 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVING**  
 45mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 / Latest Revision.

**F6: GRANITIC FINISH**  
 22mm thick unsealed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVING (EIGHT PAVING/VEHICULAR WAYS)**  
 220mm x 197mm x 50mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
 2.2mm Thick Heavy Traffic Use, Contour Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO 9001 (Anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Contour Resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
 32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**  
**S1: HARDWOOD OR EQUAL AND APPROVED**  
 18 x 15mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
 600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screed in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trim. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
 75 mm high x 20 mm thick hardened cement sand screed skirting covered at 20 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

**WALL FINISHES:**  
**W1: FACE BRICK**  
 FBK face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

**W3: ENAMEL (ENAMEL) PAINT**  
 2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.

**W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
 Combination of: 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**W5: CERAMIC WALL TILES - FULL HEIGHT**  
 600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**  
**C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
 Gyproc Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
 6mm thick Gyproc/Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing, non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
 1200mm x 600mm x 15mm Gyproc Calceus Plus Prefinished or Fire Rated OR EQUAL & APPROVED laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Dorn 138 FR Main Tees @ 4mm thickness, 1150 g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
 Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

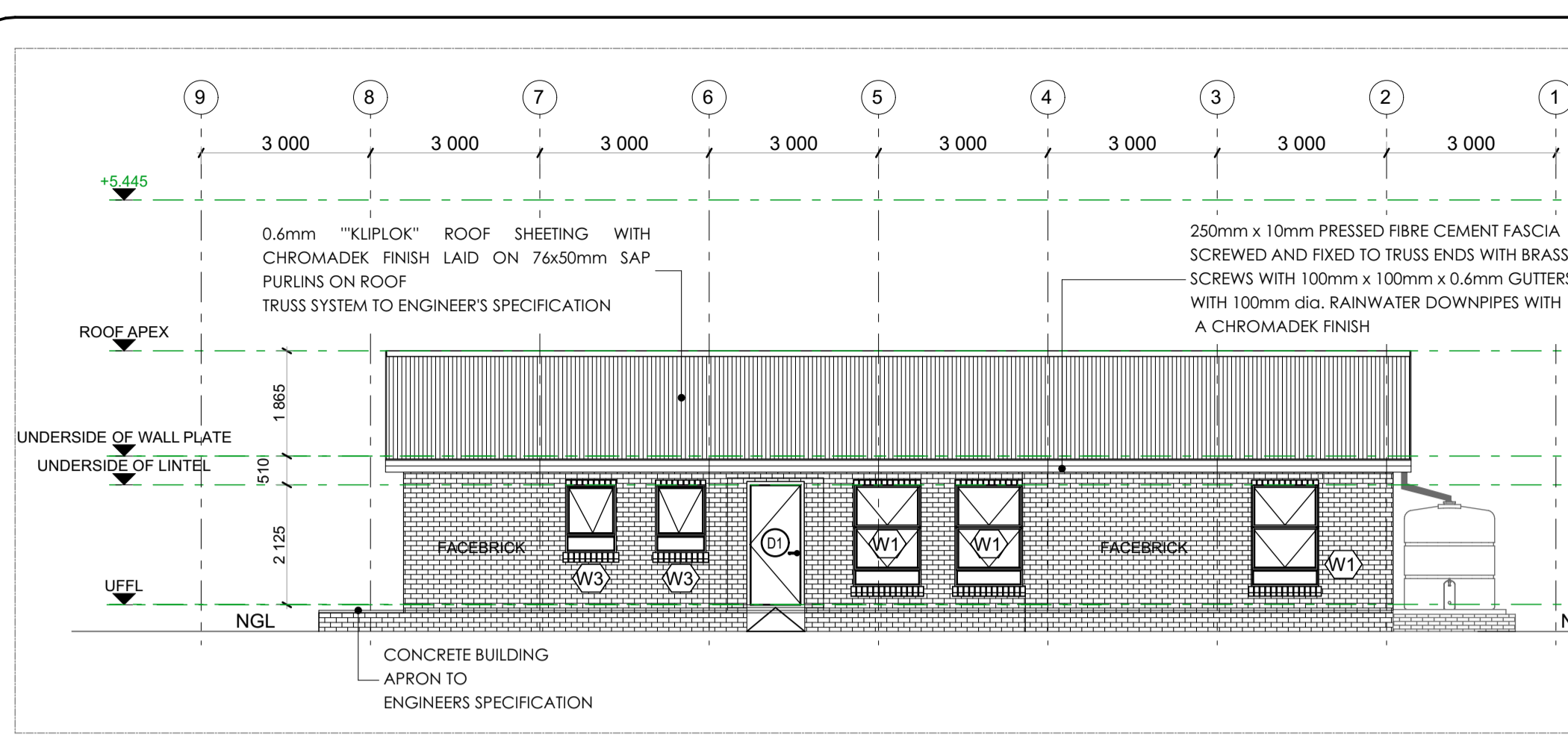
**ROOF COVERING AND INSULATION:**  
**R1: FIBROSEED ROOFING SHEET (TWO SIDES)**  
 FibroSeed 10.5mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a total cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The male rib shall have gaps of 28mm centres to ensure a positive double interlocking action at side-laps. Each pan shall incorporate two stiffener ribs. Profiled roofnuts to be coated on both sides with "Global Coat" or Chromadek Colour and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closers in strict compliance to manufacturer's instructions.

**Insulation:** SHALL EITHER BE: 1. where there are acoustic ceilings suspended above, a heavy duty Aluminium stonaflex foil shall be installed AND 2. where the steel work is exposed, a 50mm FactoryBoard manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with metalized foil.

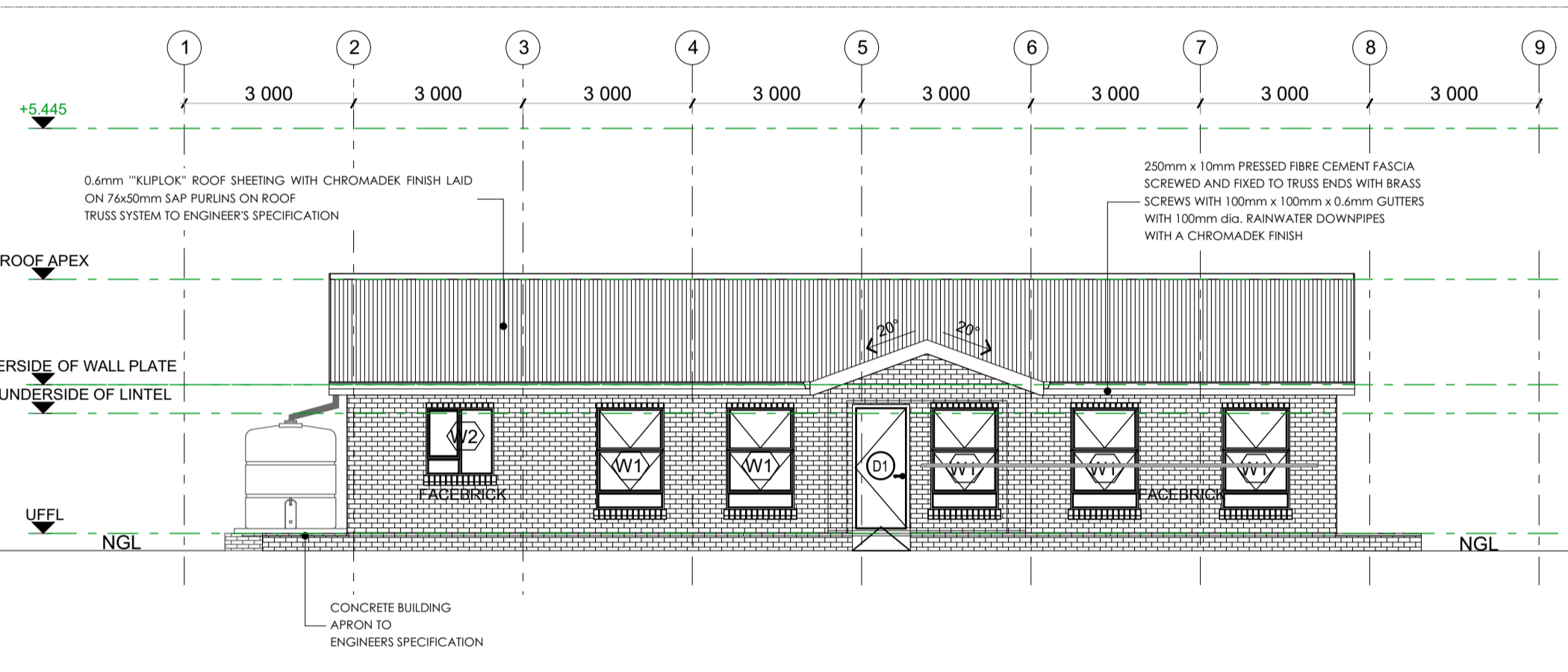
**Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm EaveGutter Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest revision Fixed to Painted Fibre Cement Fascia board Together with standard accessories discharging into Rainwater Downpipes.

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

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



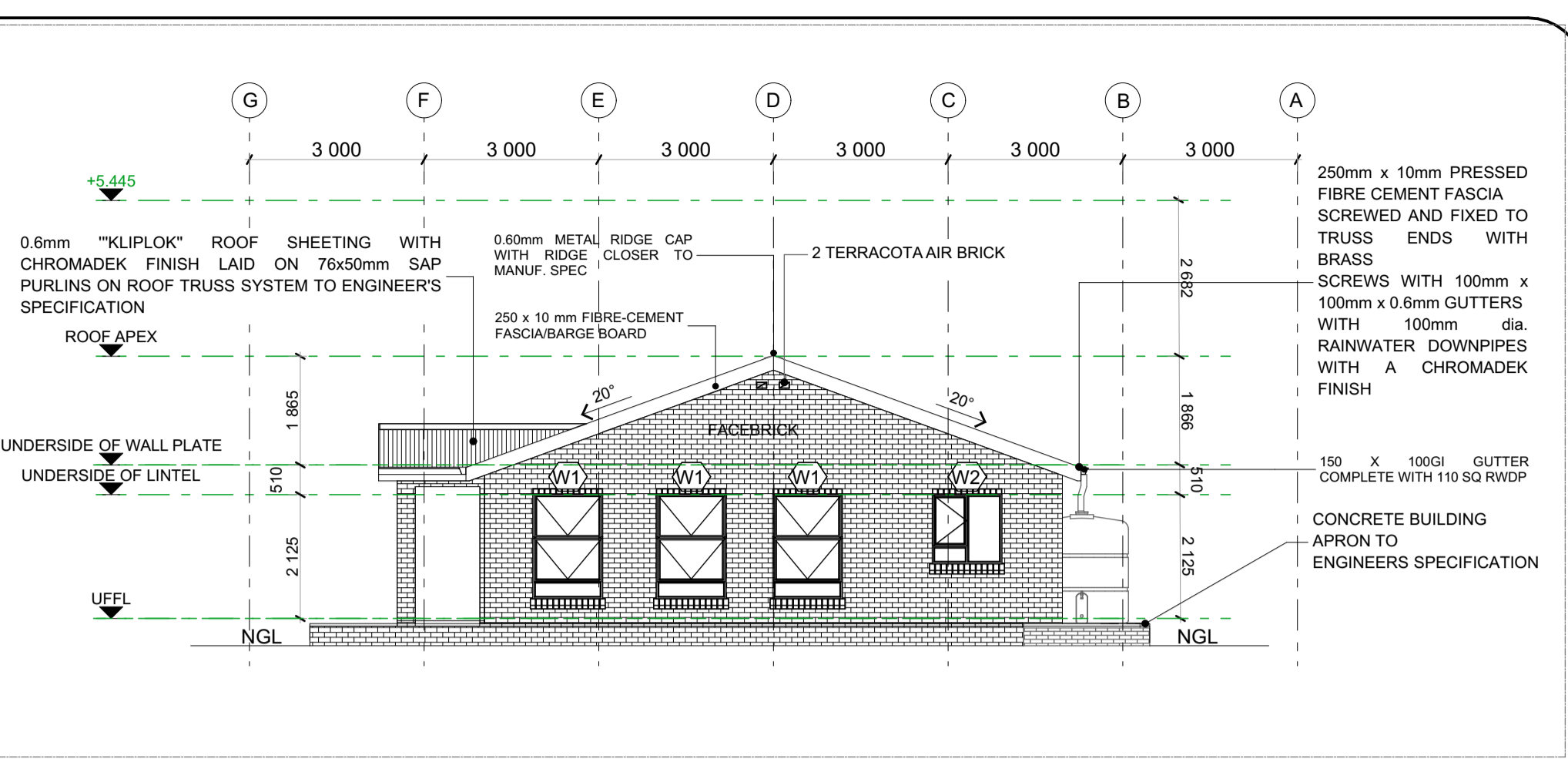
**REAR ELEVATION**  
 Scale 1: 100



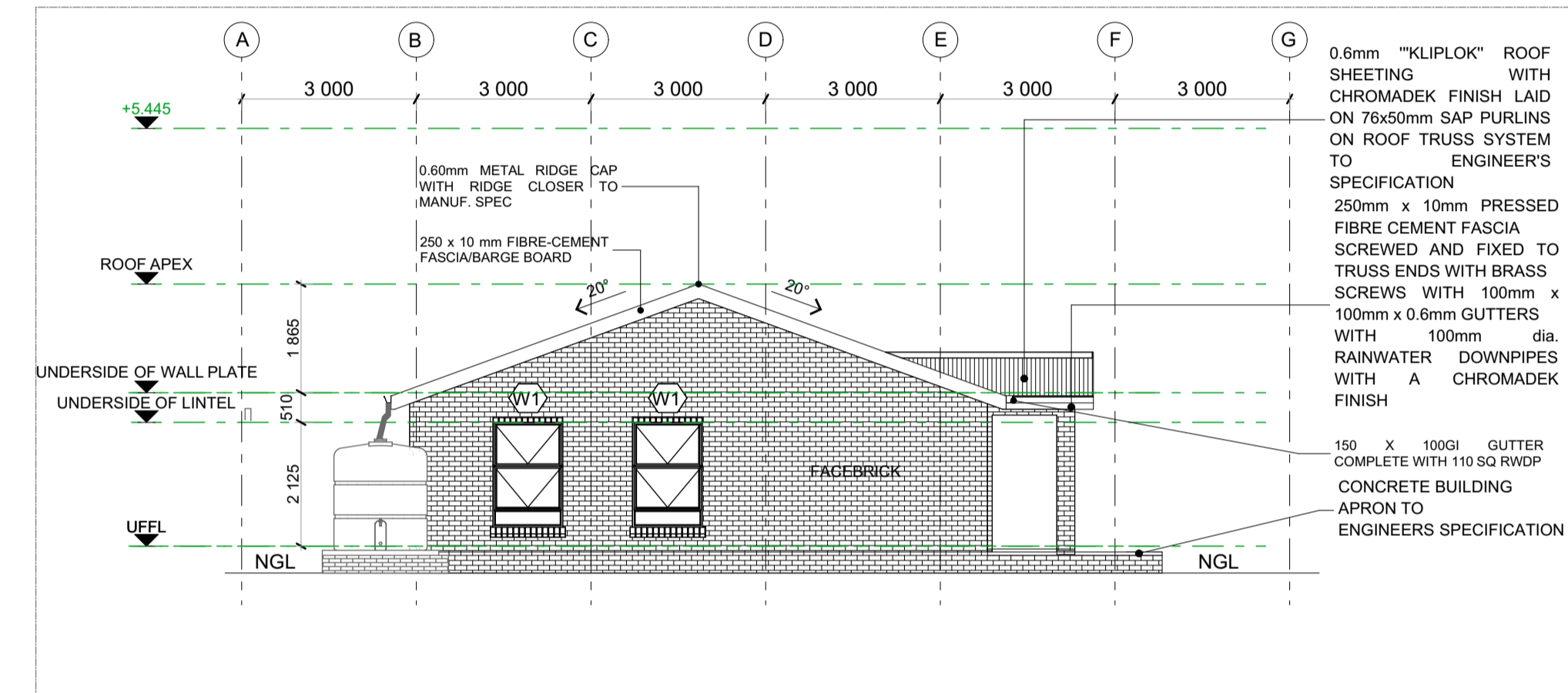
**FRONT ELEVATION**  
 Scale 1: 100

**WINDOW SCHEDULE:**

| Window | Dimensions  | No of Windows | Details   |
|--------|-------------|---------------|---|
| W1     | 1200 x 1800 | 13 (THIRTEEN) | STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE418 ANODISED WITH BURGLAR-PROOFING OUT OF 10MM DIA SOLID ROUND-BARS. GLAZING: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME. FINISH COAT: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT. |
| W2     | 1200 x 1800 | 2 (TWO)       | STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS. GLAZING: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME. FINISH COAT: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.  |
| W3     | 1200 x 900  | 2 (TWO)       | STANDARD MILD STEEL RESIDENTIAL TOP-HUNG OPEN OUT WINDOW-FRAMES - CAT SWE47 COMPLETE WITH BURGLAR-PROOFING OUT OF 10mm DIA SOLID ROUND-BARS. GLAZING: 5mm CLEAR FLOAT GLASS FIXED WITH GLAZING PUTTY TO RECEIVE PAINT FINISH TO MATCH WINDOW FRAME. FINISH COAT: CLEAN WITH STEEL BRUSH & APPLY 1 DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL PAINT. COLOUR AS PER ARCHITECT.  |



**SIDE ELEVATION**  
 Scale 1: 100



**SIDE ELEVATION**  
 Scale 1: 100

**DOOR SCHEDULE:**

| Door | Dimensions     | Details  |
|------|----------------|--|
| D1   | 899 x 2118     | FRAME: EXTRUDED ALUMINIUM FRAME AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015W x 2100H FINISH = NATURAL ANODISED ALUMINIUM. DOOR: 915x2015mm EXTRUDED ALUMINIUM DOOR AS PER AAMSA SPECIFICATIONS ACCORDING TO DIMENSIONS 1015w x 2015h FINISH = NATURAL ANODISED ALUMINIUM. GLASS 6mm PVB FADEBAND LAMINATED SAFETY GLASS ACCORDING TO SABS SPECIFICATIONS. IRON-MONGERY: LOCKSET - NARROW STYLE SABS APPROVED DOUBLE CYLINDER LOCKSET. DOORCLOSERS & FLOORSPRINGS - SABS APPROVED DOORCLOSERS & FLOOR-SPRING AS SUPPLY BY DORMA OR EQUAL APPROVED BARREL BOLT RECESSED AS SUPPLY BY UNION 100mm LENGTH. HANDLES DOUBLE SIDED - SATIN CHROME FINISH HANDLES ACCORDING TO ARCHITECT. TYPE DOOR: No OF DOORS: 1 (ONE) |
| D2   | 810mm x 1916mm | D2 FRAME: SUPPLY COMPLETE WITH DOOR FOR 230mm BRICK WALL. FINISH DOOR: GLOSS ENAMEL PAINT ON STEEL. FIREGUARD B.S.6 AS SUPPLIED BY 'BISCHUARD' OR EQUAL APPROVED. FINISH IRON-MONGERY: GLOSS ENAMEL PAINT ON STEEL. No OF DOORS: 1 (ONE)   |
| D3   | 813 x 1916     | D3 FRAME: STANDARD MILD STEEL 813x2032x1.2mm SINGLE REBATE PRESSED METAL DOOR FRAME FOR 1150mm WALLS FINISH WITH 1 COAT DURAPHOS, 1 UNIVERSAL UNDERCOAT & TWO COATS GLOSS ENAMEL COLOUR AS PER ARCHITECT. DOOR: 813x2032mm SEMI-SOLID CORE DOOR FINISH WITH 1 COAT UNIVERSAL UNDERCOAT AND 2 COATS ACRYLIC P.V.A. COLOUR AS PER ARCHITECT.   |

|            |                       |           |  |
|------------|-----------------------|-----------|--|
| CAD SYSTEM | AUTOCAD               | FILE NAME |  |
| SCALE      | PROJECT NUMBER        | REV       |  |
| A1         | LDPW - PROF/16002/E08 | 0         |  |

**ISSUED FOR TENDER**

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
 DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING  
 CONTRATORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY TO BE REPORTED TO THE PROJECT ARCHITECT

**FINISHES LEGEND**

CEILING FINISH

FLOOR FINISH

WALL FINISH

WALL SKIRTING FINISH

**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

REVISIONS

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
 PROVINCIAL GOVERNMENT  
 REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
 (INSTITUTION)

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE: **ARCHITECTURAL**

WORK DESCRIPTION - SUB DIVISION: **4**

**SMALL ADMINISTRATION BLOCK**

DRAWING DESCRIPTION: **ELEVATIONS DOOR & WINDOW SCHEDULES**

|         |          |       |          |
|---------|----------|-------|----------|
| DRG No. | 301-03   | 03/09 | ITEM No. |
| DESIGN  | NA       | CM    | DRAWN    |
| DATE    | AS SHOWN | SMTN  | CHECK    |

| DATE     | NAME        | SIGN | PR. NUMBER      |
|----------|-------------|------|-----------------|
| NOV 2019 | T. MANYADZA |      | PrArch 43981757 |

DRAWING CO-ORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

|            |                       |           |  |
|------------|-----------------------|-----------|--|
| CAD SYSTEM | AUTOCAD               | FILE NAME |  |
| SCALE      | PROJECT NUMBER        | REV       |  |
| A1         | LDPW - PROF/16002/E08 | 0         |  |

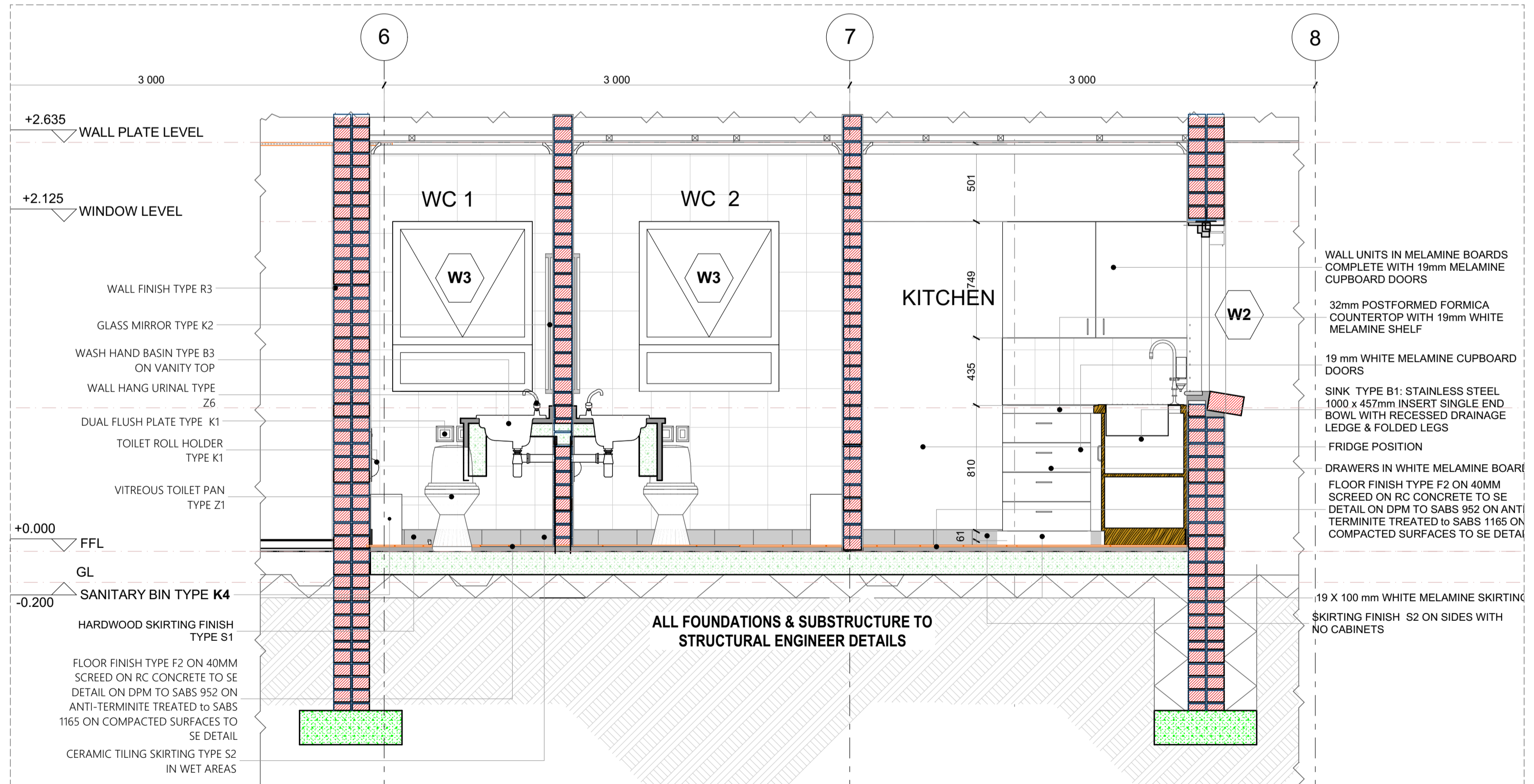


**FINISHES LEGEND**

- FLOORS:**  
**F1- PORCELAIN TILES - MATI (CORROSION RESISTANT & ANTI-SLIPPERY)**  
 450x450 15mm kiln-fired porcelain floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey, tiles should have expansion joint and aluminium edging strip.  
**F2- PORCELAIN TILES - MATI**  
 650 x 650 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With thickness/specification in strict compliance to manufacturer's instructions and SABS specification. Filings to include, ribbed angle files where there is a change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.  
**F3- CARPETILES**  
 500mm x 500mm x 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 "Wear Class 4 (heavy duty)", laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 in fire rating, and DIN 54824 on wear test and SO body test at less than 20x of 25% RH on static electricity. Colour and pattern to architects approval.  
**F4- CEMENT SAND SCREED**  
 30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.  
**F5- EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
 45mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.  
**F6- GRANITIC FINISH**  
 22mm thick embossed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.  
**F7- INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
 220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 npa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.  
**F8- SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
 2.5mm Thick Heavy Traffic Use, Corrosion Resistant & Anti-Slippery Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-static) Protection Vinyl Sheet, Laid on Self Levelled Smooth Screed joint with conductive adhesive to SABS 070 or Latest Revision in Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polished Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosion Resistant & Anti-Slippery.  
**F9- GRAVEL FINISH ON SAND LAYER**  
 32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.  
**SKIRTING:**  
**S1- HARDWOOD OR EQUAL AND APPROVED**  
 12 x 75mm x 20mm Moulded Hardwood Skirting to comply with SABS 1099, fixed to walls in long lengths with sprayed heading joints and mitred corners at reves and plugs at centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS SANS 381 type 1.  
**S2- CERAMIC TILE SKIRTING**  
 600mm x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and three top tiles. Complete with corner and top trims. Filings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.  
**S3- CEMENT SAND SCREED**  
 75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.  
**WALL FINISHES:**  
**R1- FACE BRICK**  
 FFK face brick in common running bond to comply with SABS 227 and forming part of the structural work.  
**R2- EMULSION (PVA) PAINT - FULL HEIGHT**  
 2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.  
**R3- ENAMEL PAINT**  
 2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 430, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.  
**R4- GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**  
 Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2". To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.  
**R5- CERAMIC WALL TILES - FULL HEIGHT**  
 600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.  
**CEILING AND CORNICE:**  
**C1- 7mm GYPSUM BOARDS FLUSH FLASTERED CEILINGS OR EQUAL AND APPROVED**  
 TopCeil Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoBoards to all joints and skim the ceiling using Gyproc RhinoLite.  
**C2- FIBRE CEMENT BOARDS (JOINTED)**  
 4mm thick GyproCel Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, Eco-specifier listing non-combustible to SANS 10177/5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Snap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoBoards to all joints and skim the ceiling using Gyproc RhinoLite.  
**C3- PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
 1200mm x 600mm x 15mm Gyproc Celotex PH Prefinished or Fire Finished OR EQUAL & APPROVED laid into Donn ceiling grid and secured into Donn Truss using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings @ 300mm centres. Donn TRF Main Tees @ 4mm thickness, 1150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn TSBV (1200 long) Cross Tees at 600 centres. Supports main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structure members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structure members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.  
**C4- EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
 Emulsion (PVA) Paint on Skimmed Plastered Stud 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffits.  
**ROOF COVERING AND INSULATION:**  
**R61- RIBBONED ROOFING SHEET (TWO SIDES)**  
 Roofing Sheets: 125mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 9001. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide cavity breaks. The profile shall have gaps of 283mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiles produced shall be coated on both sides with "Global Coat" or "Chromosol Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and dove cluses in strict compliance to manufacturer's instructions.  
**Insulation:** SHALL EITHER BE: 1, where there are acoustic ceiling suspended above, a heavy duty Aluminium insulation foil shall be installed AND 2, where the steel work is exposed, a 50mm "Focystofoam" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with metalized foil.  
**Galvanized Steel (GI) Gutter:** 150mm Wide x 100mm Deep x 0.5mm Eaves Gutter of Commercial Grade Steel With Coats Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.  
**Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Coats Z275 Galvanizing to Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer installation instructions.  
**Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed to Truss Ends & Counter Butters With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic F.V.A.

**WET AREAS PLAN DETAIL D05**

Scale 1: 25

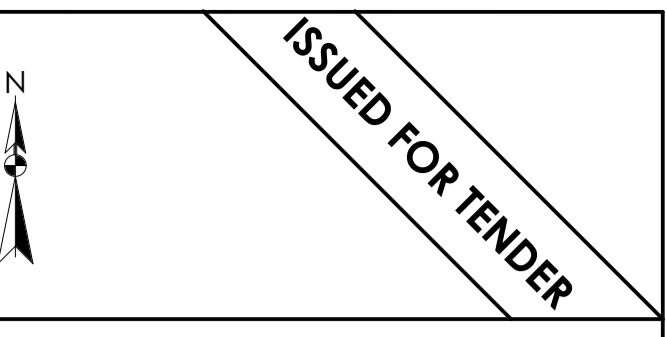


**WET AREAS SECTION DETAIL A153**

Scale 1: 25

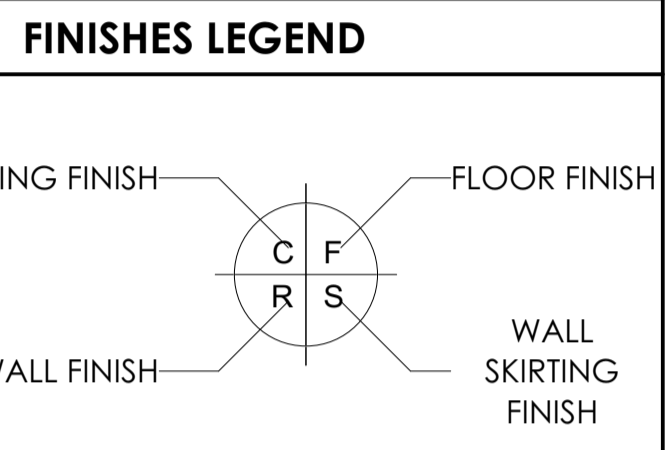
**SANITARY SCHEDULE**

- WC'S URINALS & SHOWER**  
**Z1- CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostatic Plastic Seal". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.  
**Z2- CERAMIC PARALEGIC WC**  
 Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Calien installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.  
**Z3- CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN**  
 Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan, Floor Mounted to comply with SABS 497 & Fitted with "Jazz Thermostatic Plastic Seal". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever, blank flush plate & offset push button for paralegic access.  
**Z4- CERAMIC STANDARD WC (BACK INLET)**  
 Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.  
**Z5- CERAMIC STANDARD WC (CC)**  
 Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoseal lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.  
**Z6- CERAMIC WALL HUNG URINAL**  
 Vitreous china size 415x325x75 mm wall hung bowl urinal to comply with SABS 497. Supplied with suitable 38mm CP domical grating, CP top inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.  
**SHOWER**  
 2000mm x 900mm tiled shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with shower set and complying with SABS 226 comprising of approved:  
 • Glass Shower Cubicle with access door as per standard supply from manufacturer and laid to lift space configuration  
 • Overhead shower arm with wall flange  
 • Chrome Plated Shower Head with ball jointed connector  
 • Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm to 120mm high concrete pit with well-cessed pitth face.  
**WASH-HAND BASIN**  
**R1- WMR & MIRROR LAP**  
 Top Sanitaryware Vitreous china size 560 x 415mm rounded "Tuscany" OR EQUAL AND APPROVED basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a "Tuscany" pedestal and fitted with 1No. "Cobra Waterless" 15mm chrome pushbutton demand pillar tap with flanged bakelite (code KM2102) metering tap, 309-32 CP anti-theft plug with spindle. 308 basin-walls 45x45 CP toilet tap, mounting kit and angle valves.  
**R2- DESAILED BASIN**  
 Vitreous china 410 x 410mm semi rounded lavatory basin to comply with SABS 497, in two top hole configuration fitted with 2 No chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.  
**R3- WHITE GLAZED PORCELAIN WASH (WANTO)**  
 Ceramic freesty size 450x320mm oval self-rimming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with: 2No. chrome plated tap with flanged bakelite (code KM2102) metering tap, mounting kit and angle valves. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.  
**R4- SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**  
 Vitreous china size 450x290mm wash basin to comply with SABS 497 in 2-top hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar taps, chrome plated anti-theft plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.  
**R5- RUDITY BASIN & No. TAP (FOR LABS)**  
 Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and RRS hole plugged and fitted with 1No. pillar tap. Chrome Plated anti-theft plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.  
**R6- MEDIC BASIN & FITTINGS (SICK BAY)**  
 Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two top hole configuration fitted with: 2 No chrome plated Elbow action pillar tap, with 1/2" turn ceramic disc head and blue & Red indicators water applications and flanged bakelite, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.  
 Combination of sanitaryware, accessories and general fittings comprising of:  
 • Mirror type K2  
 • Paper towel dispenser K8 and bin type K3  
 • Soap dispenser type K9  
 • Selenback comprising 2No. rows of wall tile finish type R5 as per finishes schedule  
 and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.  
**SINKS:**  
**X1- STAINLESS STEEL SINK**  
 Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboards elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.  
**X2- STAINLESS STEEL SINK**  
 Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overarm swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.  
**X3- CERAMIC SINK**  
 Ceramic freesty 465 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)  
**X4- SINGLE WASH TROUGH (Inset) & 2 no. TAPS**  
 600mm x 300mm inset wash trough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP lab-taps - plain angled and chrome plated, complete with sliding wall flanges. In-laid sink waste with back nut and plug with strap, chain and stay. CP, P, P trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL. Cut out size 555 x 425mm.  
**X5- DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**  
 1000 x 555 x 200mm Double wall hung wash trough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No wall type lab-taps, with swivel Outlet, adjustable wall flanges and approved adjustable connection. CP, In-laid sink waste with back nut and plug with strap, CP, Double drain back rubber deep seal P-trap. Sink mounted on 2No. 32mm square SS galvanized brackets, front leg and adjustable foot piece at height of 915mm AFPL.  
**SANITARY ACCESSORIES**  
**K1- SS TOILET ROLL HOLDER - 2 ROLL**  
 Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.  
**K2- GLASS MIRROR**  
 6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holder and fixed, with chromium plated domed-headed mirror screws.  
**K3- SS WASTE BIN**  
 200mm x 65mm x 2100 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.  
**K4- SANITARY BIN (PLASTIC)**  
 190mm x 320mm x 600mm Plastic Sanitary Bedlin Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K5- SOAP HOLDER**  
 Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.  
**K6- WALL GRAB RAILS-PARALEGIC**  
 Stainless steel 914 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K7- GRAB RAILS (RIGHT/LEFT HAND)-PARALEGIC**  
 Stainless steel 1016 x 90 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.  
**K8- PAPER TOWEL DISPENSER**  
 350mmx160mmx200mm) tear and dry paper towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K9- SOAP DISPENSER (SH)- WALL MOUNTED**  
 115W x 270H x 1100 Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.  
**K10- ALUMINIUM COAT HOOK (MULTI-TRACK)**  
 6mm Thick clear float glass silver-backed mirror, size 450x900mm height with polished bevelled edges 4 times holder and fixed, with chromium plated domed-headed mirror screws.  
**K11- HAND DRYER (Hands free)**  
 As per Electrical Engineers specification.  
**K12- TOWEL RAIL**  
 55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.  
**K13- SHOWER CURTAIN RAIL (straight)**  
 20mm dia. standard chrome plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.  
**GENERAL FIXTURES**  
**G1- DOOR PROTECTOR**  
 200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FL, or as specified.  
**G2- PROTECTOR SCREEN**  
 Full cover screen 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC4000 Keystone Bracket/ Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.  
**G3- FINBOARD 1500W X 1000H**  
 Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.  
**G4- FINBOARD 300W X 1200H**  
 Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.  
**G5- WINDOW NORMAL BUNDLES (vertical fabric)**  
 127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel fix. The mechanism to be operated by nylon ball chain with a reduction gear ratio a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.  
**G6- FLOOR DRAIN**  
 Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.  
**G7- SS FLOOR EXPANSION JOINT COVER**  
 Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey), to be installed within the tile surface over the 22mm expansion joints, in accordance to the manufacturer's specifications.  
**G8- CHALKBOARDS- GREEN SURFACE COLOUR**  
 Vitreous system 1000 standard WHITEBOARD OR EQUAL & APPROVED vitreous enameled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362/204 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitreous Colour Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



- LEGEND**
- NEW WALLS
  - EXISTING WALL TO BE RETAINED
  - EXISTING WALL TO BE DEMOLISHED
  - NEW FIXTURES & FITTING TO BE INSTALLED
  - ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

**NOTES**  
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED  
 DIMENSIONS TO BE READ, NOT TO SCALE FROM THIS DRAWING  
 CONTRACTORS TO CONFIRM ALL DIMENSIONS ON SITE BEFORE CONSTRUCTION COMMENCES & ANY DISCREPANCY IS TO BE REPORTED TO THE PROJECT ARCHITECT



**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | FIRST ISSUE FOR TENDER | DESCRIPTION |
|----------|--------|------------------------|-------------|
| A        | JUL 21 |                        |             |



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

**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**

**DOCUMENTATION & PROCUREMENT**

**ARCHITECTURAL 4**

**SMALL ADMINISTRATION BLOCK**

**WET AREAS DETAIL**

| DRG No.  | 301-04    | 04/09 | ITEM No.       |
|----------|-----------|-------|----------------|
| DESIGN   | NA        | CM    | DRAWN          |
| DATE     | AS SHOWN  | SMTN  | CHECK          |
| NOV 2019 | T. MAMUZA |       | PfACH 43981757 |

**TECTURA - INTERNATIONAL!**

ALSO IN NAMIBIA, KENYA AND GAMBIA, BOTSWANA

**CONTRACTOR**

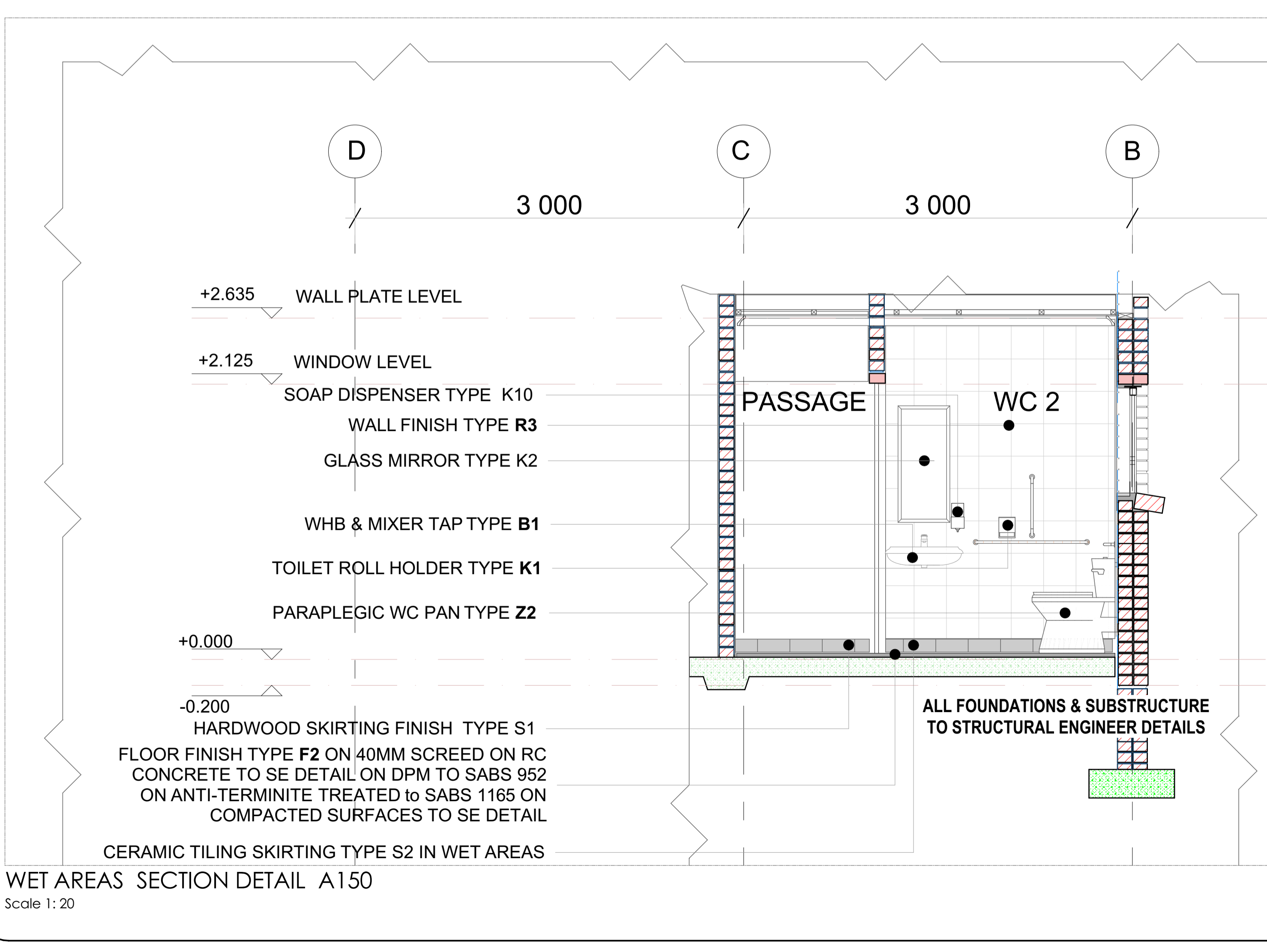
| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | SCALE     |
| A1         | LDPW - PROF/16002/E08 | 0         |



**FINISHES LEGEND**

- FLOORS:**
**F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**
400x400 11.5mm laminar floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.
**F2: PORCELAIN TILES - MATI**
400 x 400 x 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 1107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level and Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.
**F3: CARPETILES**
500mm x 500mm, 100S PFX staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 in fire rating, and DIN 54824 on wear test and ISO body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.
**F4: CEMENT SAND SCREED**
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.
**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.
**F6: GRANITIC FINISH**
22 mm thick finished Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.
**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**
220mm x 150mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.
**F8: SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584, With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled, Smooth Screed gird with conductive adhesive to SABS 070 or Latest Revision In Accordance To Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1142, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.
**F9: GRAVEL FINISH ON SAND LAYER**
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.
**SKIRTING:**
**S1: HARDWOOD OR EQUAL AND APPROVED**
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.
**S2: CERAMIC TILE SKIRTING**
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with one base and thigh top. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.
**S3: CEMENT SAND SCREED**
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 30 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.
**WALL FINISHES:**
**R1: FACE BRICK**
F81 face brick in common running bond to comply with SABS 227 and forming part of the structural work.
**R2: EMULSION (PVA) PAINT - FULL HEIGHT**
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
**R3: ENAMEL PAINT**
2 no. coats matt (egg shell) finish alkyl (zirconium) paint to SABS 450, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer prior to SABS 1416 and 1 no. coat undercoat to SABS 681 grade 1, in accordance to manufacturer's instructions.
**R4: GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.
**R5: CERAMIC WALL TILES - FULL HEIGHT**
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest Revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.
**CEILING AND CORNICE:**
**C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILING OR EQUAL AND APPROVED**
'Opac Classic' gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber branding installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTite.
**C2: FIBRE CEMENT BOARDS (H-JOINTED)**
4mm thick GyprocCel Prestige 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9 mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10177-5) fixed to Ek 38mm x 50mm timber branding installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTite.
**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**
1200mm x 600mm x 15mm Gyproc Caloria (In Pre-finished or Fire Rated OR EQUAL & APPROVED) laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M6 fixed to the perimeter wall using fixings @ 300mm centres. Dorn T38 T-Bar Main Tees @ 4mm thickness, 2150 gpa, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.
**C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**
'Emulsion (PVA) Paint on Skimmed Plastered Stud' 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab/stiff.
**ROOF COVERING AND INSULATION:**
**F1: EMBOSSED ROOFING SHEET (TWO SIDES)**
Roofing Sheets: 0.38mm thick concealed fixing sheets manufactured from roll-formed from certified steel complying with ISO 9010. The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide callousy breaks. The metal rib shall have girths of 285mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled non-ferrous to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and eave closes in strict compliance to manufacturer's instructions.
**Insulation:** SHALL EITHER BE: 1, where there are acoustic ceiling suspended board, a heavy duty 'Aluminium stator foil' shall be installed AND 2, where the steel work is exposed, a 50mm 'Focotryboard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m3 and finished with white melitobond.
**Galvanized Steel (GI) Gutter:** 150mm wide x 100mm Deep x 0.5mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.
**Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer installation instructions.
**Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board, Screw Fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Repairs & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.

WET AREA DETAIL D5 101/05  
Scale 1: 20



- WC 1 (Area 2m²)**
**WC 2 (Area 3m²)**
**KITCHEN Porcelain Tile (Area 6m²)**
**SS SOAP DISPENSER K6**
**FLOOR DRAIN TO MECH ENGINEER'S DETAILS**
**FLOOR FINISH TYPE F2 ON 40MM SCREED ON RC CONCRETE TO SE DETAIL ON DPM TO SABS 952 ON ANTI-TERMINITE TREATED TO SABS 1165 ON COMPACTED SURFACES TO SE DETAIL**
**900mm LONG & 55mm DIA TYPE K12 STAINLESS STEEL TOWEL RAIL COMPLETE WITH INSTALLATIONS AS PER MANUFACTURER'S SPECS.**
**32mm POSTFORMED FORMICA COUNTERTOP WITH 19mm WHITE MELAMINE SHELF**
**SS SOAP DISPENSER K6**
**FLOOR DRAIN TO MECHANICAL ENGINEER'S DETAILS**
**FLOOR FINISH TYPE F2 ON 40MM SCREED ON RC CONCRETE TO SE DETAIL ON DPM TO SABS 952 ON ANTI-TERMINITE TREATED TO SABS 1165 ON COMPACTED SURFACES TO SE DETAIL**
**900mm LONG & 55mm DIA TYPE K12 STAINLESS STEEL TOWEL RAIL COMPLETE WITH INSTALLATIONS AS PER MANUFACTURER'S SPECS.**
**WET AREAS SECTION DETAIL A150**  
Scale 1: 20

**SANITARY SCHEDULE**

- WC'S URINALS & SHOWER**
**W1: CERAMIC STANDARD WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
**W2: CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet or equal and approved top inlet closed rim back-to-wall pan to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
**W3: CERAMIC PARALEGIC WC (CCL) CONCEALED CISTERN**
Vitreous china 90° outlet WC or equal and approved top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostat Plastic Seat'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. Blank flush plate & offset push button for paralegic access.
**W4: CERAMIC STANDARD WC (BACK INLET)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
**W5: CERAMIC STANDARD WC (CC)**
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat (H.D. seat) and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
**W6: CERAMIC WALL HUNG URINAL**
Vitreous china size 415x315x275 mm wall hung bowl urinal to comply with SABS 497. Supplied with stainless 38mm CP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed full-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.
**SHOWER**
32mm Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:
• Glass Shower Cubicle with access door as per standard supply from manufacturer and fixed to tiled space configuration
• Wheelchair shower arm with flange
• Chrome Plated Shower Head with ball jointed connector
• Chrome Plated Bath/shower diverter mixer-wall type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with unexposed pit/hole face.
**WASH-HAND BASIN**
**B1: WTB & MIXER TAP**
'Jazz Sanitaryware' Vitreous china size 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVED basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'Mio, 'Cobra' 'WaterTech' 15mm chrome pushbutton demand pillar tap with flanged basket (code KM2102) metering tap, 309-32 CP anti-flood plug with spindle, 308 basin-walls 45°C CP hot water tap, mounting kit and angle valves.
**B2: DISABLED BASIN**
Vitreous china 510 x 420mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backrest, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
**B3: WHITE GLAZED PORCELAIN VAIN (VANITY)**
Ceramic freesty size 450x300mm and self-finishing vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 2No. chrome plated tap with flanged basket (code KM2102) metering tap, mounting kit and angle valves, 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connectors. Basin mounted on cabinet or vanity slab with silicon sealant between contact areas in strict accordance to manufacturer's specifications.
**B4: SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**
Vitreous china size 450x200mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-flood plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
**B5: HUNTER BASIN & No. TAP (FOR LABS)**
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R5 hole plugged and fitted with 1/2 No. pillar tap, Chrome Plated anti-flood plug with spindle plug, slotted basin waste, chrome plated Bottle Trap, mounting kit and angle valves with 400mm long flexible inlets supplied with all necessary pipe connectors. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
**B6: MEDIC BASIN & FITTINGS (SICK BAY)**
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No chrome plated Elbow action pillar tap, with 1/2 turn ceramic disc head and blue & Red indicators water applications and flanged backrest, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Trap supplied with all necessary pipe connectors. Faced with concealed wall bracket in accordance to the manufacturer's specifications.
**SINKS:**
**K1: STAINLESS STEEL SINK**
Stainless steel 316L x 450mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
**K2: STAINLESS STEEL SINK**
Stainless steel 316L x 450mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wall type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.
**K3: CERAMIC SINK**
Ceramic freesty size 465 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)
**K4: SINGLE WASH TROUGH (Inset) & 2 no. TAPS**
600mm x 300mm inset washtrough, manufactured from grade 18/10 SS, stainless steel with rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP lab-taps - plain oriented chrome plated, complete with sliding wall flanges. Inletted sink waste with back out, plug with strip, chain and stay. CP, 'P' trap, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL, Cut out size 555 x 425mm.
**K5: DOUBLE WASH TROUGH (Inset) & 2 no. TAPS**
1200 x 550 x 200mm Double wall hung washtrough manufactured from grade 304 (18/10) SS, rounded internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type lab-taps, with swivel Outlet, adjustable wall flanges and exposed adjustable connections. CP, In-inletted sink waste with back out and plug with strip. CP, Double drain black rubber deep seal 'P'-trap. Sink mounted on 2no. 30mm square SS galvanized brackets, front leg and adjustable foot piece of height of 915mm AFPL.
**SANITARY ACCESSORIES**
**K1: SS TOILET ROLL HOLDER - 2 ROLL**
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
**K2: GLASS MIRROR**
6mm thick clear float glass silver-backed mirror, size 450x600mm height with polished bevelled edges 4 times half and fixed, with chromium plated dome-headed mirror screws.
**K3: SS WASTE BIN**
200mm x 650mm x 200mm Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
**K4: SANITARY BIN (PLASTIC)**
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
**K5: SOAP HOLDER**
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
**K6: WALL GRAB RAILS-PARALEGIC**
Stainless steel 91.4 x 90 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
**K7: GRAB RAILS (RIGHT/LEFT HAND)-PARALEGIC**
Stainless steel 101.6 x 90 x 32mm diameter (right/left) hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.
**K8: PAPER TOWEL DISPENSER**
300mmx160mmx200mm Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
**K9: SOAP DISPENSER, DISH- WALL MOUNTED**
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
**K10: ALUMINIUM COAT HOOKS (MULTI-HOOK)**
500mm wide x 220mm high 19mm top Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws
**K11: HAND DRYER (Hands free)**
As per Electrical Engineers specification
**K12: TOWEL RAIL**
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.
**K13: SHOWER CURTAIN RAIL (straight)**
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.
**GENERAL FIXTURES**
**G1: DOOR PROTECTOR**
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to full door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL, or as specified.
**G2: PROTECTOR SCREEN**
Full door PVC screen size 2440 x 1850mm (viewing area 2240 x 1750mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict compliance with manufacturer's instructions.
**G3: PINBOARD 1500W X 1000H**
Pinboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
**G4: PINBOARD 300W X 1200H**
Pinboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
**G5: WINDOW NORMAL BUNDS (vertical fabric)**
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear made a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
**G6: FLOOR DRAIN**
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
**G7: SS FLOOR EXPANSION JOINT COVER**
Concealed heavy-duty stainless steel movement joint strip, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
**G8: CHALKBOARDS - GREEN SURFACE COLOUR**
Vitex system 1000 standard WHITEBOARD OR EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 36/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Vitrex Colour Reference - Chalk Board Green LM197/2), manufactured with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.

**ISSUED FOR TENDER**

**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR REPLACED)

**NOTES**  
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**FINISHES LEGEND**

CEILING FINISH: C F S  
FLOOR FINISH: F  
WALL FINISH: W  
WALL SKIRTING FINISH: S

**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| PLAN EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS / STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | FIRST ISSUE FOR TENDER | DESCRIPTION |
|----------|--------|------------------------|-------------|
| A        | JUL 21 |                        |             |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

DEPARTMENT OF  
**PUBLIC WORKS, ROADS & INFRASTRUCTURE**  
(INSTITUTION)  
**PHAPHAMANI PRIMARY - 924 650 535**

**RESTORATIVES, REPAIRS & ADDITIONS**  
CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**  
DISCIPLINE: ARCHITECTURAL 4  
WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK  
DRAWING DESCRIPTION: PARALEGIC WET AREAS DETAIL

| DRG No. | 301-05   | 05/09 | ITEM No. |
|---------|----------|-------|----------|
| DESIGN  | NA       | CM    | DRAWN    |
| DATE    | AS SHOWN | SMTN  | CHECK    |

| DATE     | NAME       | SIGN | PR. NUMBER      |
|----------|------------|------|-----------------|
| NOV 2019 | T. MANYAZA |      | PrArch 43981757 |

DRAWING CO-ORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAMIBIA, KENYA AND GAMBIA, BOTSWANA

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |







**FINISHES LEGEND**

- FLOORS:
F1. PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)
F2. PORCELAIN TILES - MATI
F3. CARPETILES
F4. CEMENT SAND SCREED
F5. EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS
F6. GRANITIC FINISH
F7. INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)
F8. SEMI FLEXIBLE VINYL SHEETING (CORROSIIVE RESISTANT/ANTI-SLIPPERY)
F9. GRAVEL FINISH ON SAND LAYER
SKIRTING:
S1. HARDWOOD OR EQUAL AND APPROVED
S2. CERAMIC TILE SKIRTING
S3. CEMENT SAND SCREED
WALL FINISHES:
F1. FACE BRICK
F2. EMULSION (PVA) PAINT - FULL HEIGHT
F3. ENAMEL PAINT
F4. GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)
F5. CERAMIC WALL TILES - FULL HEIGHT
CEILING AND CORNICE:
C1. 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED
C2. FIBRE CEMENT BOARDS (H-JOINTED)
C3. PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED
C4. EMULSION (PVA) PAINT OR EQUAL AND APPROVED
ROOF COVERING AND INSULATION:
R1. EMBOSSED ROOFING SHEET (TWO SIDES)

400 x 400 15mm kiln-dried floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

400 x 400 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include: ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

500mm x 500mm x 1005 PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 'Wear Class 4 (heavy duty)', laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54824 on wear test and SO body test at less than 20v at 25% RH on static electricity. Colour and pattern to architects approval.

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

65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 (Latest Revision).

22mm thick unglazed Granolithic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

220mm x 193mm x 50mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

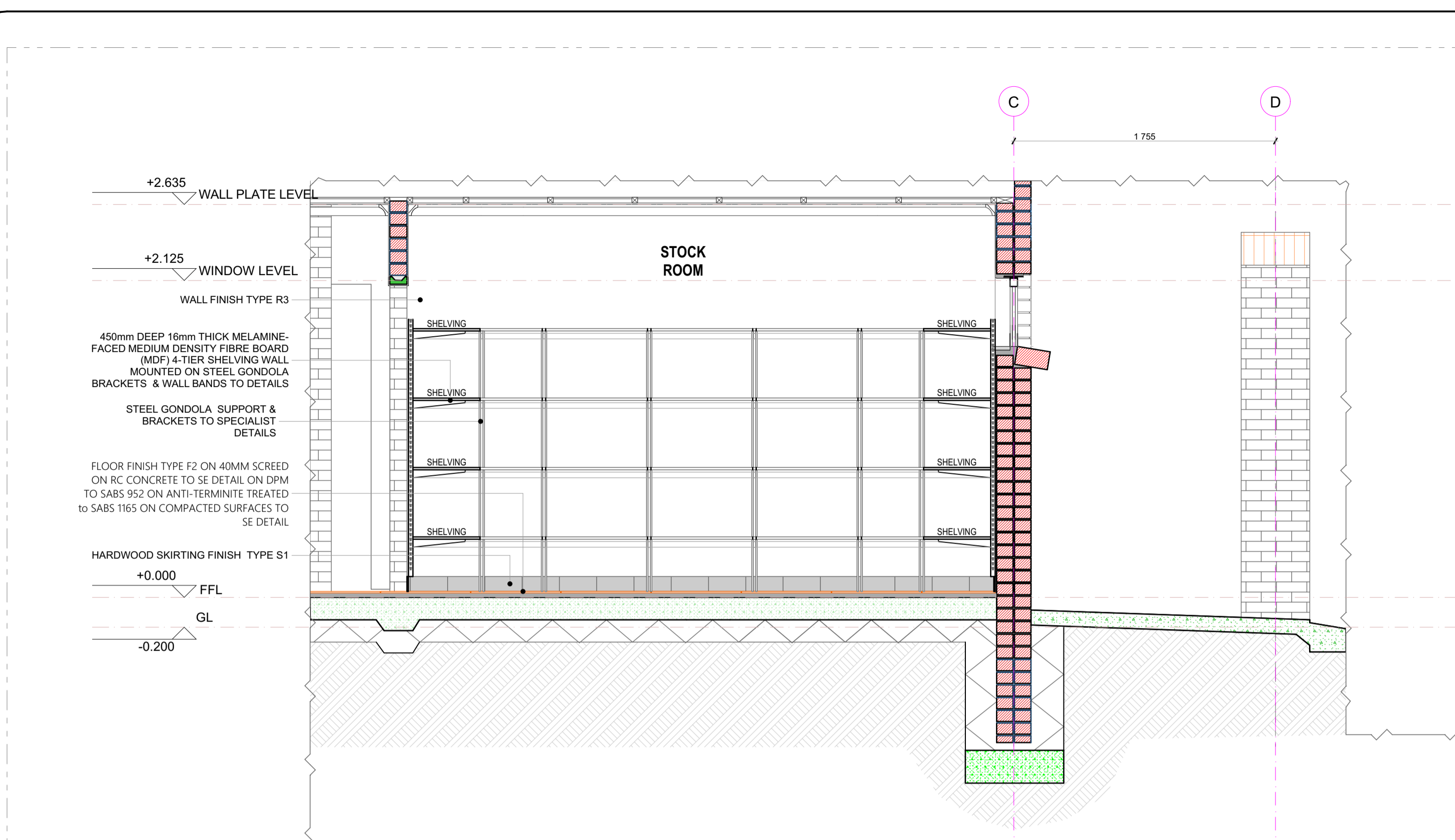
2.5mm thick unglazed Semi-Flex Vinyl Sheeting to Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or I/O (Anti-static) Protection Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

32mm Gravel On Compacted Sand Layer Base as Per PFE Details installed in All Duct Chambers Accommodating Sanitary Services.

2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flex Vinyl Sheeting Semi-Flex Vinyl Sheet. Laid on Self-Levelled Smooth Screed glued with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

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**JOINERY SECTION DETAIL A9**

Scale 1: 25

Table with 3 columns: TYPE, LOCATION, DESCRIPTION/SPECIFICATION. Details Melaminefaced MDF Shelving 450mm in the Stock Room.

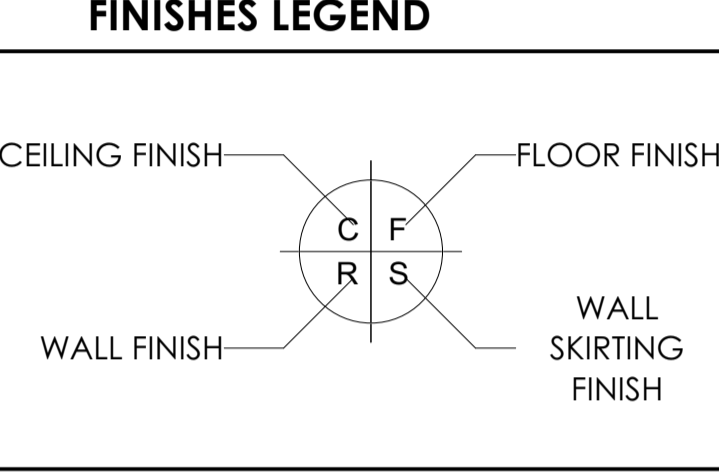
**SANITARY SCHEDULE**

- WC'S URINALS & SHOWER
71. CERAMIC STANDARD WC (CC)- CONCEALED CISTERN
72. CERAMIC PARAPLEGIC WC
73. CERAMIC PARAPLEGIC WC (CC)- CONCEALED CISTERN
74. CERAMIC STANDARD WC (BACK INLET)
75. CERAMIC STANDARD WC (CC)
76. CERAMIC WALL HUNG URINAL
77. SHOWER
78. WASH-HAND BASIN
79. DISABLED BASIN
80. WHITE GLAZED PORCELAIN WHB (VANTO)
81. MEDIC BASIN & FITTINGS (SICK BAY)
82. SINGLE WASH TROUGH (Inset) & 2 no. TAPS
83. DOUBLE WASH TROUGH (Inset) & 2 no. TAPS
84. SANITARY BIN (PLASTIC)
85. SOAP HOLDER
86. WALL GRAB RAILS-PARAPLEGIC
87. GRAB RAILS (RIGHT/LEFT HAND)-PARAPLEGIC
88. PAPER TOWEL DISPENSER
89. ALUMINIUM COAT HOOKS (Multi-Hook)
90. HAND DRYER (Hands free)
91. TOWEL RAIL
92. SHOWER CURTAIN RAIL (strapless)
GENERAL FIXTURES
G1. DOOR PROTECTOR
G2. PROTECTOR SCREENS
G3. PINBOARD 1500X 1000H
G4. PINBOARD 900X 1200H
G5. WINDOW NORMAL BUNDS (vertical fabric)
G6. FLOOR DRAIN
G7. SL FLOOR EXPANSION JOINT COVER
G8. CHALKBOARDS - GREEN SURFACE COLOUR

ISSUED FOR TENDER

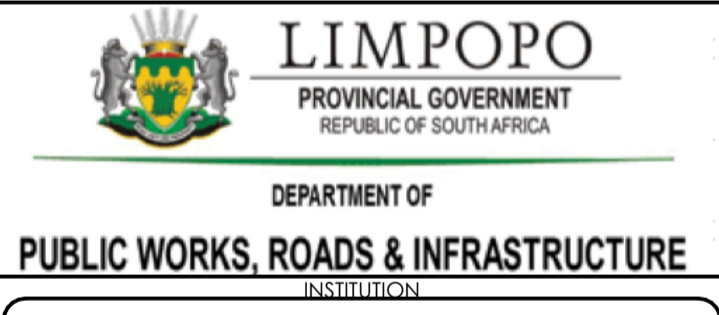
- LEGEND
NEW WALLS
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SIGNATURE TABLE with columns for DISCIPLINE, SIGN, and DATE.

Table for REVISIONS with columns for REV. NO., DATE, and DESCRIPTION.



Form for PUBLIC WORKS, ROADS & INFRASTRUCTURE (INSTITUTION) PHAPHAMANI PRIMARY - 924 650 535. Includes sections for RESTORATIVES, REPAIRS & ADDITIONS, DOCUMENTATION & PROCUREMENT, ARCHITECTURAL, SMALL ADMINISTRATION BLOCK, and JOINERY DETAILS D03-02.

Advertisement for TECTURA - INTERNATIONAL! listing various services and contact information for different branches.

CONTRACTOR table with columns for CAD SYSTEM, SIZE, and FILE NAME. Includes details for AUTOCAD, PROJECT NUMBER, and DRAWING NUMBER.



**FINISHES LEGEND**

**FLOORS:**

**F1: PORCELAIN TILES - MATI (Corrosive Resistant & Anti-Slippery)**  
420 x 420 11.5mm kiln-fired floor tiles or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

**F2: PORCELAIN TILES - MATI**  
420 x 420 10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle tiles where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CARPETILES**  
500mm x 500mm . 1005 PFK staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54224 on wear test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

**F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for Topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI-COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

**F6: GRANULITIC FINISH**  
22mm thick unadorned Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 193mm x 50 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a 'herringbone' pattern to the Architect's approval.

**F8: SEMI-FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
22mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ISO or ISO (Anti-Static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth Screed grouted with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed By Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Corrosive resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1: HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099 fixed to walls in long lengths with splayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with a 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
60mm wide x 102mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with cone base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle tiles where there is change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

**WALL FINISHES:**

**W1: FACE BRICK**  
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

**W3: ENAMEL (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkyl (jeromel) paint to SABS 630, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade), in accordance to manufacturer's instructions.

**W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles To Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R3" To Comply with SABS 630 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**W5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**CEILING AND CORNICE:**

**C1: 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
7mm GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C2: FIBRE CEMENT BOARDS (H-JOINTED)**  
6.4mm thick GypCel Prestige 5' fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Sharp Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Calceus (Pre-Plastered or Fire Rated OR EQUAL & APPROVED) laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M4 fixed to the perimeter wall using fixings of 300mm centres. Donn 138 FR Main Tees @ 4mm thickness, 1150 g/m<sup>2</sup> g/m<sup>2</sup> coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Donn T38V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab soffit.

**ROOF COVERING AND INSULATION:**

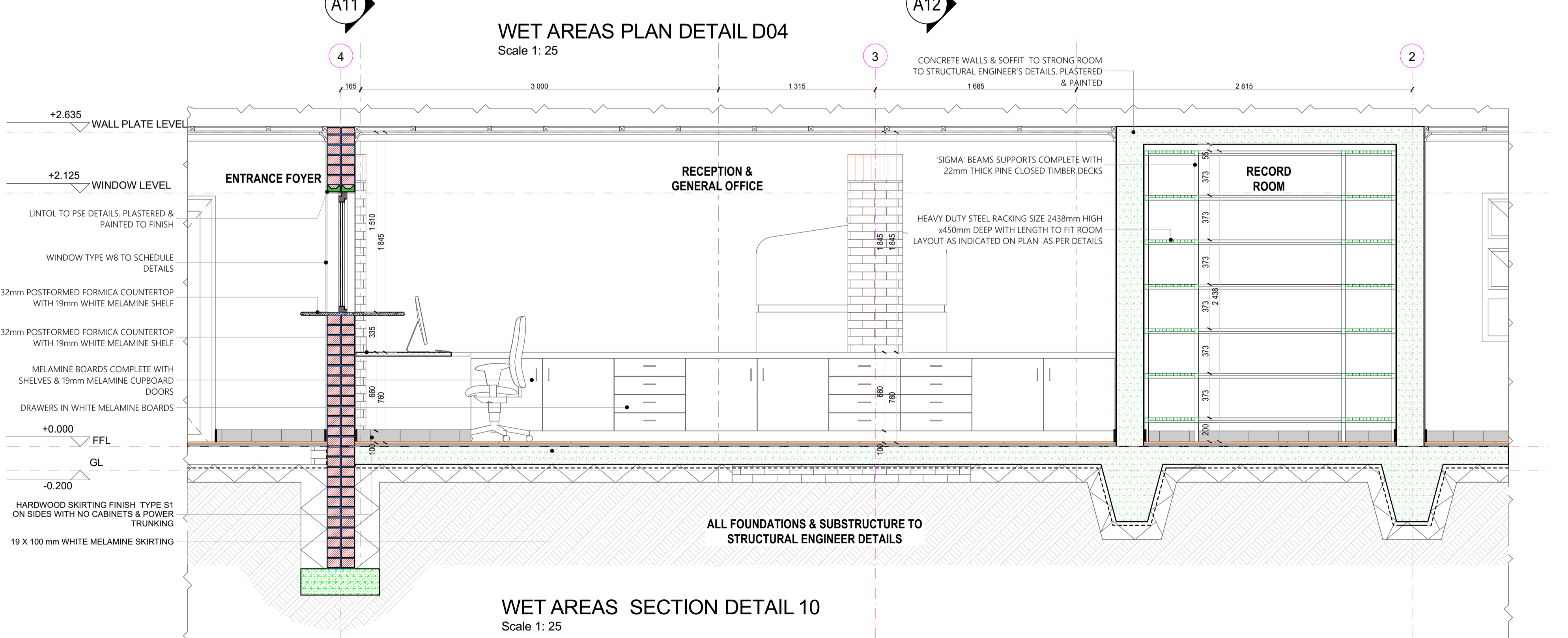
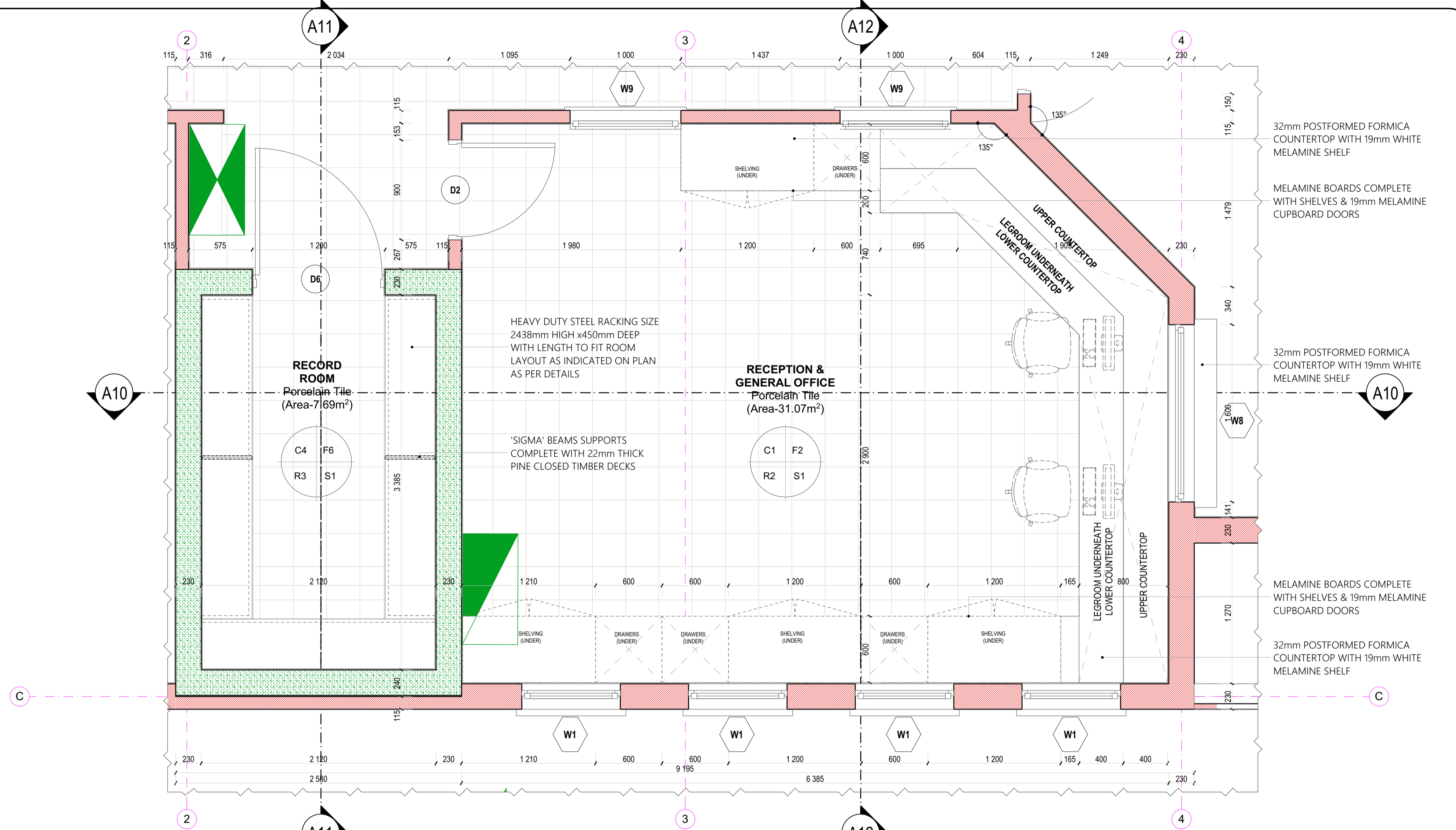
**R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
**Roofing Sheets:** 1.58mm thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 520:05. The profile shall have three trapezoidal ribs of 200mm spacing giving a total cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The main ribs shall have gaps of 285mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled rooflights to be coated on both sides with 'Global Coat' or 'Chromalok Colour' and laid on structural timber/steel structure incorporating all necessary accessories such as flashings and eave closes in strict compliance to manufacturer's instructions.

**Insulation:** SHALL EITHER BE: 1. where there are acoustic ceilings suspended board, a heavy duty 'Aluminium stonafon' foil shall be installed AND 2. where the steel work is exposed, a 50mm 'FactoryBoard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>3</sup> and finished with white metalized foil.

**Galvanized Steel (GI) Gutter:** 150mm wide x 100mm Deep x 0.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed to Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

**Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation Instructions.

**Facia board:** 250 x 10 mm Fibre Cement Facia/Barge Board. Screw fixed to Tuss Ends & Counter Batten With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



| STEEL SHELVING                                       |             |  |
|--|-------------|--|
| TYPE   | LOCATION    | DESCRIPTION/SPECIFICATION  |
| HEAVY DUTY STEEL RACKING (length as per Layout Plan) | STRONG ROOM | Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x Legth as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 500kg per frame. |

**ISSUED FOR TENDER**

**LEGEND**

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- EXISTING WALL TO BE DEMOLISHED
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- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

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**FINISHES LEGEND**

CEILING FINISH

FLOOR FINISH

WALL FINISH

WALL SKIRTING FINISH

**SIGNATURE TABLE**

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|--------------------|------|------|
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**REVISIONS**

| REV. NO. | DATE   | DESCRIPTION            |
|----------|--------|------------------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

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

PHAPHAMANI PRIMARY - 924 650 535

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE: ARCHITECTURAL 4

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: JOINERY DETAILS D04-01

| DRG No.  | 301-08      | 08/09 | ITEM No.        |
|----------|-------------|-------|-----------------|
| DESIGN   | NA          | CM    | DRAWN           |
| DATE     | AS SHOWN    | SMTN  | CHECK           |
| NOV 2019 | T. MANYADZA |       | P/Arch 43981757 |

DRAWING COORDINATED

**TECTURA - INTERNATIONAL!**

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

www.ectura.com

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | REV       |
| A1         | LDPW - PROF/16002/E08 | 0         |



**FINISHES LEGEND**

**FLOORS:**

**F1- PORCELAIN TILES - MATI (Conservative Resistant & Anti-Slippery)**  
400x400 11.5mm laminar floor tile or similar approved by architects, fixed with adhesive, painted with finished waterproof jointing compound. Grouting to be grey. Tiles should have expansion joint and aluminium edging strip.

**F2- PORCELAIN TILES - MATI**  
400 x 400x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds. With Thickness/Specification in strict compliance to manufacturer's instructions and SABS specification. Fittings to include, ribbed angle files where there is change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3- CARPETILES**  
500mm x 500mm, 100S PFK staple fibre carpet tiles to Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and to comply with EN 1307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and DIN 54820 on wear test and 500 body test at least 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

**F4- CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F5- EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
65mm thick multi-coloured concrete paver laid on sand bedding to civil/structural engineer's specification in approved pattern and compacted to approval and graded in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

**F6- GRANITIC FINISH**  
22mm thick embossed Granite/Slit finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m2, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7- INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
200mm x 150mm x 50 mm thick concrete interlocking pavers, 25 nps, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8- SEMI FLEXIBLE VINYL SHEETING (CORROSION RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Conservative Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS 584. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or ISO (anti-static) Protection Vinyl Sheet. Laid on Self Levelled Smooth Screed grout with conductive adhesive to SABS 070 or Latest Revision in Accordance to Manufacturer's Instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042, COMPACT TO ARCHITECT APPROVAL ON Sample Presentation. Contractor to provide Certificate of Static Current Conductivity, Contractor to provide Certificate of Static Current Conductivity, Consistent Resistant & Anti-Slippery.

**F9- GRAVEL FINISH ON SAND LAYER**  
32mm Gravel On Compacted Sand Layer Base as Per PSE Details installed in All Duct Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1- HARDWOOD OR EQUAL AND APPROVED**  
18 x 25mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with sprayed heading joints and mitred corners with screws and plugs at centres not exceeding 400mm, and fixed with 19mm x 19mm quadrant bedding. The skirting to be varnished with 3No. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2- CERAMIC TILE SKIRTING**  
60mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturer's instructions and SABS specification, with concave base and straight top. Complete with corner and top trims. Fittings to include, ribbed angle files where there is change of level. Colour and pattern to architects approval.

**S3- CEMENT SAND SCREED**  
75 mm high x 20 mm thick hardened cement sand screed skirting covered at 50 mm dia. to form a continuous joint with the adjoining screed floor finish to FA's approval. All to be manufactured and installed in strict compliance With SABS 1083 or latest revision.

**WALL FINISHES:**

**R1- FACE BRICK**  
F8X face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**R2- EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.

**R3-ALYD (ENAMEL) PAINT**  
2 no. coats matt (egg shell) finish alkyd (enamel) paint to SABS 450, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer to SABS 1416 and 1 no. coat undercoat to SABS 681 grade, in accordance to manufacturer's instructions.

**R4- GLAZED CERAMIC WALL TILES (ENAMEL PAINT COMBO)**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tile to Specification "R5", laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification "R2" To Comply with SABS 430 or latest revision applied from 2100 mm above finished floor level to ceiling height all in strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**R5-CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to Comply with SABS 22 or Latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**

**C1- 7mm GYPSUM BOARDS FINISH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
"TopCel Classic" gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc RhinoBoard Strap Point Grabber Screws 32mm at maximum 150mm centres. Apply, Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C2- FIBRE CEMENT BOARDS (H-JOINTED)**  
4mm thick Gyproc Cel Pastiche 5 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc RhinoBoard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing non-combustible to SANS 10177:5) fixed to Ek 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc RhinoBoard Strap Point Grabber Screws 32mm at maximum 150mm centres with all necessary accessories, finished with 3 No. coats of super PVA external quality paint colour to PA's approval. Gyproc RhinoTape to all joints and skim the ceiling using Gyproc RhinoTape.

**C3- PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm x 15mm Gyproc Celotex (or Perforated or Fire Rated OR EQUAL & APPROVED) laid into Dorn ceiling grid and secured into place using Dorn Hold Down Clips @ 200mm c/c. Dorn Wall Angle M4 fixed to the perimeter wall using fixings @ 300mm centres. Dorn 138 FR Main Tees @ 4mm thickness, 2150 gwg, coating locally manufactured, recycled content, ISO 9001 & 14001 certification) at 1200 centres & Dorn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Dorn Hanger Strap 19mm suitably fixed to the building structural members. Dorn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the fire notch. All fire notches to be in line. Suspend all full length 1200 Cross Tees at their mid-point using Dorn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4 EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Skimmed Plastered Slab 3No. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hem-hydrate gypsum plaster on concrete slab soffit.

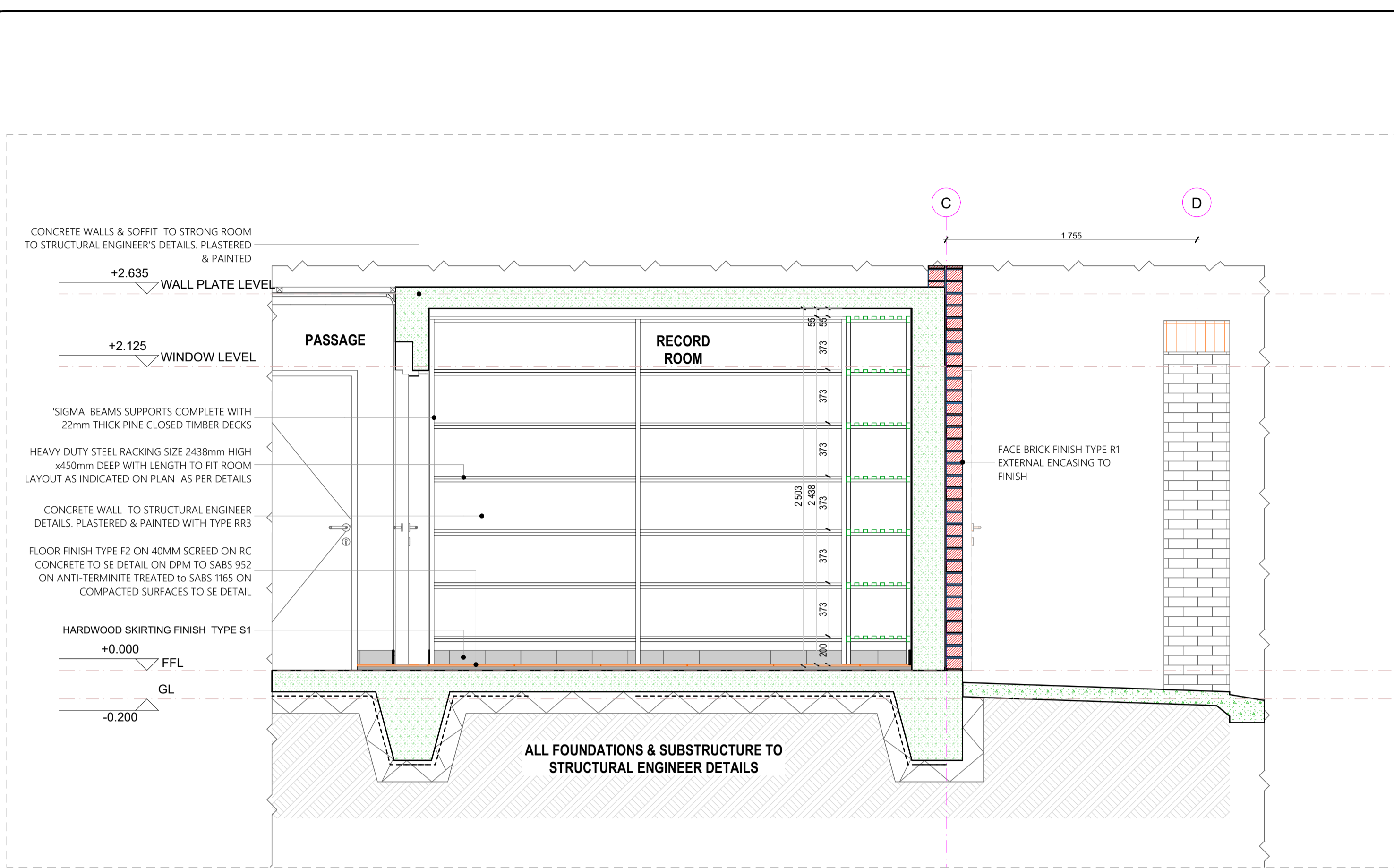
**ROOF COVERING AND INSULATION:**

**R11- EMBOSSED ROOFING SHEET (TWO SIDES)**  
Roofing Sheets: 0.38mm thick concealed fixing sheets manufactured from roll-formed from certified steel complying with ISO 550 (GT). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 450mm. The rib height shall be 41mm and provide cavity breaks. The metal ribs shall have gaps of 283mm centres to ensure a positive double interlocking action of side-laps. Each span shall incorporate two stiffener ribs. Profiled end-ribs shall be coated on both sides with "Global Coat" or "Chromalok Colour" and laid on structural timber/steel structure incorporating all necessary accessories such as fixings and dove clips in strict compliance to manufacturer's instructions.

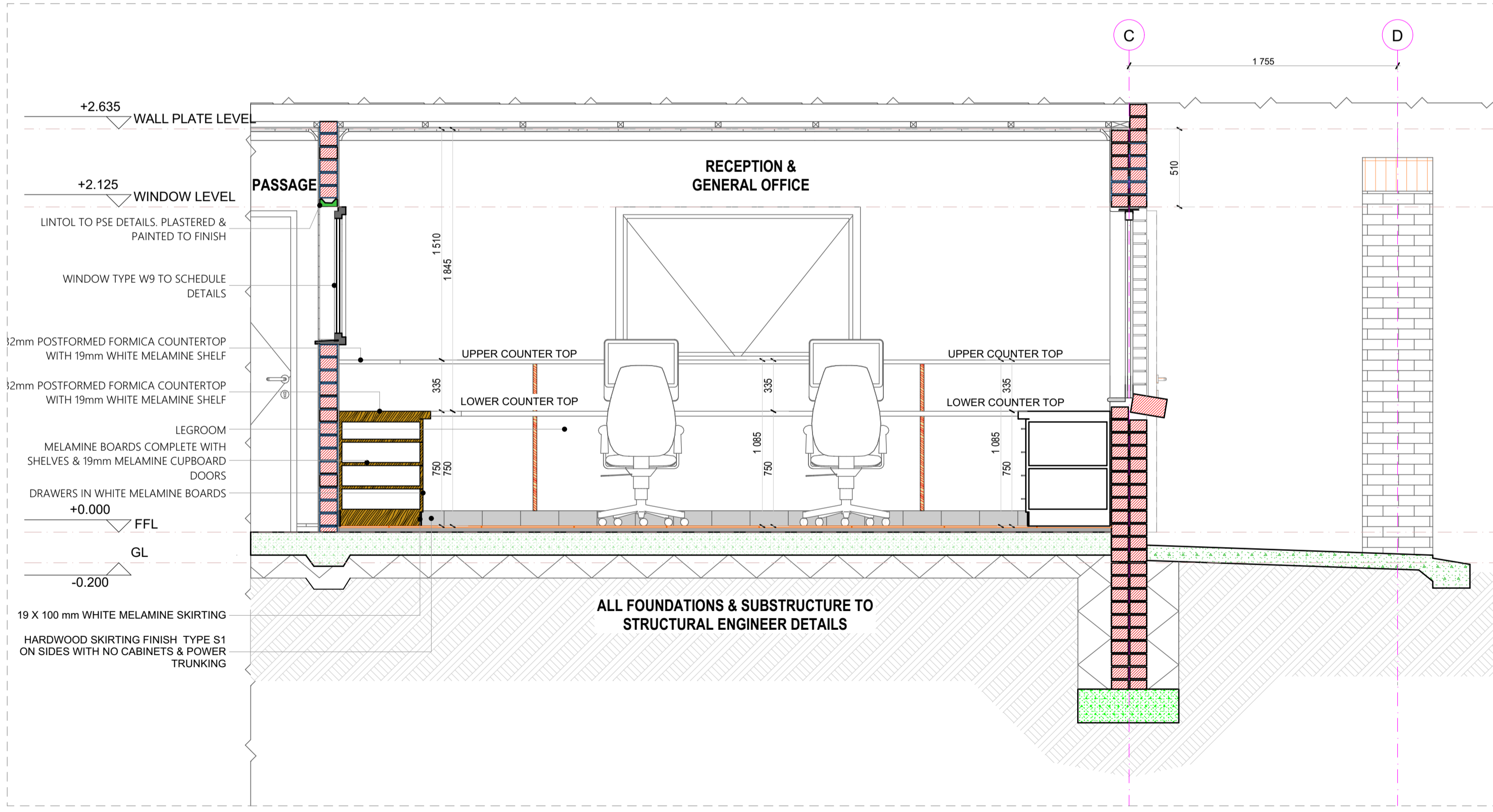
**Insulation:** SHALL EITHER BE: 1; where there are acoustic ceilings suspended board, a heavy duty "Aluminium station foil" shall be installed AND 2; where the steel work is exposed, a 50mm "TactoryBoard" manufactured from noncombustible glass fibres and thermo-setting resin binder supplied as 2400mm x 1200mm and 80kg/m3 and finished with white melaflex foil.  
**Galvanized Steel (GI) Gutters:** 150mm Wide x 100mm Deep x 0.6mm Eaves Gutter of Commercial Grade Steel With Class Z275 Galvanizing to Comply With SABS 934 or latest Revision Faced To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

**Downpipe:** 110 x 110 x 0.8mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing to Comply With SABS 934 or Latest Revision to or built into walls or cast in concrete columns fixed to brickwork or steel including brackets and self-tapping screws to Manufacturer installation instructions.

**Facia board:** 250 x 110 mm Fibre Cement Facia/Barge Board. Screw Fixed to Tuss Ends & Corner Butters With Countersunk Brass Screws. Prepare & Apply One Universal Undercoat & Two Coats Super Acrylic P.V.A.



JOINERY SECTION DETAIL 11  
Scale 1: 25



JOINERY SECTION DETAIL 12  
Scale 1: 25

**STEEL SHELVING**

| TYPE   | LOCATION    | DESCRIPTION/SPECIFICATION  |
|--|-------------|--|
| HEAVY DUTY STEEL RACKING (Length as per Layout Plan) | STRONG ROOM | Heavy Duty steel Racking size 2438mm (height) x 450mm (deep) x L eght as per floor plan layout detail, assembled from purpose made long 'sigma' beams, complete with a 22mm thick Pine closed timber deck (to fit configuration size). Load capacity should not be less than 5000kg per frame. |

**SANITARY SCHEDULE**

**WC'S URINALS & SHOWER**

**T1- CERAMIC STANDARD WC (C/C)- CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with "Jazz Thermostatic Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.

**T2- CERAMIC PARALEGIC WC (C/C)- CONCEALED CISTERN**  
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan to comply with SABS 487. Fitted with, Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**T3- CERAMIC STANDARD WC (C/C)**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 487 & Fitted with "Jazz Thermostatic Plastic Seat". Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension lever. blank flush plate & offset push button for paralegic access.

**T4- CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet, back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush-valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.

**T5- CERAMIC STANDARD WC (C/C)**  
Vitreous china 90° outlet, back inlet pan to comply with SABS 487. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermoseal lid, seat and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.

**T6- CERAMIC WALL HUNG URINAL**  
Vitreous china size 41.5x15.2x275 mm wall hung bowl urinal to comply with SABS 487. Supplied with suitable 38mmCP domical grating, CP tap inlet spreader and two hanger brackets and fitted with exposed flush-valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards.

**SHOWER**  
2000 Thick Enamelled steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm BSP graded waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
• Glass Shower Cubicle with access door as per standard supply from manufacturer and sized to fit space configuration  
• Wheelchair shower arm with wall flange  
• Chrome Plated Shower Head with ball jointed connector  
• Chrome Plated Bath/shower diverter mixer-wali type with sliding wall flanges and concealed connectors adjustable from 178 mm to 203 mm centres. Shower tray to be recessed 50 mm into a 100mm high concrete pit with exposed pit/soak face.

**WASH-HAND BASIN**  
**R1- MIB & MIXER TAP**  
Two Sanitaryware Vitreous china size 560 x 415mm rounded "Tuscany" OR EQUAL AND APPROVE basin to comply with SABS 487 with single tap/ole configuration supplied with integrated overflow and chairstay hole through the centre semi-punched supplied with a "Tuscany" pedestal and fitted with MIO, "Cobra Wafertech" 15mm chrome pushbutton demand pillar tap with flanged bakcstop (code KM2102) metering tap, 309-32 CP anti-hell plug with spindle, 308 basin-walls 16x16 CP bottle trap, mounting kit and angle valves.

**R2- DISABLED BASIN**  
Vitreous china 410 x 510mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with 2 No. chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water application and flanged bakcstop, chrome plated waste, chrome plated 32 mm standing overflow tube, chrome plated Bottle Tap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.

**R3- WHITE GLAZED PORCELAIN WASH (VANTO)**  
Ceramic freesty size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one tap hole configuration supplied without overflow and fitted with: 1No. chrome plated tap with flanged bakcstop (code KM2102) metering tap, mounting kit, angle valves, 400mm long flexible inlet and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity slab with silicon sealant between contact area in strict accordance to manufacturer's specifications.

**R4- SMALL BASIN & 2 TAPSTRAY & SHOWER SET (FOR WORKSHOPS)**  
Vitreous china size 450x290mm wash basin to comply with SABS 497 in 2 tap hole configuration supplied with integrated overflow and chairstay hole with 2No. pillar tap, chrome plated anti-hell plug with spindle plug, 308mm basin waste, chrome plated Bottle Tap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.

**R5- HEAVY DUTY BASIN & NO. TAP (FOR LABS)**  
Ceramic fire clay 560x450mm rectangular heavy duty basin in one tap hole configuration to comply with SABS 487 and R5 hole plugged and fitted with 1No. pillar tap, Chrome Plated anti-hell plug with spindle plug, 308mm basin waste, chrome plated Bottle Tap, mounting kit and angle valves with 400mm long flexible inlet supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.

**R6- MEDIC BASIN & FITTINGS (SICK BAY)**  
Vitreous china 510 x 400mm semi rounded lavatory basin to comply with SABS 497, in two tap hole configuration fitted with: 2 No. chrome plated Elbow action pillar-tap, with 1/2 turn ceramic disc head and blue & Red indicators water application and flanged bakcstop, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated Bottle Tap supplied with all necessary pipe connections. Faced with concealed wall bracket in accordance to the manufacturer's specifications.  
Combination of sanitaryware, accessories and general fittings comprising of:  
• Mirror type K2  
• Paper towel dispenser K8 and bin type K3  
• Soap dispenser type K9  
• Sabotack comprising 2No. rows of wall tile finish type R5 as per finishes schedule  
and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.

**SINKS:**

**R7- STAINLESS STEEL SINK**  
Stainless steel 300 x 435 mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wali type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.

**R8- STAINLESS STEEL SINK**  
Stainless steel 300 x 435 mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fitted with: Approved Sink mixer-wali type, with chrome plated overflow swivel Outlet, adjustable wall flanges and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFPL.

**R9- CERAMIC SINK**  
Ceramic freesty size 485 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to the wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant)  
400mm x 300mm inset washbrough, manufactured from grade 18/10 SS, stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2No. CP basins - plain enameled chrome plated, complete with sliding wall flanges, 1No. drilled sink waste with back nut, plug with strip, chain and stay. CP, P, Trip, with deep seal and cleaning eye. Rough brass. Sink installation height = 900mm AFPL, Cut off size 335 x 425mm.

**R10- DOUBLE WASH TROUGH (Inset) 2 No. TAPS**  
1200 x 550 x 200mm Double bowl wall hung washbrough manufactured from grade 304 (18/10) SS, radiused internal corners and provision for a 40mm dia. outlet, fitted with Approved 2No. CP basins - plain enameled chrome plated, complete with sliding wall flanges, 1No. drilled sink waste with back nut and plug with strip, CP, Double drain back rubber deep seal P-Tap. Sink mounted on 2No. 30mm square SS galvok brackets, front leg and adjustable foot piece at height of 915mm AFPL.

**R11- SS TOILET ROLL HOLDER - 2 ROLL**  
Standard stainless steel toilet roll holder (2 roll) 153mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface satin finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.

**R12- GLASS MIRROR**  
6mm thick clear float glass silver-backed mirror. Size 450x600mm height with polished bevelled edges 4 times holer and fixed, with chromium plated dome-headed mirror screws

**R13- WASTE BIN**  
200mm x 650mm x 2000 Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish, Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.

**R14- SANITARY BIN (PLASTIC)**  
190mm x 320mm x 600mm Plastic Sanitary Pedal Bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**R15- SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.

**R16- WALL GRAB RAILS-PARALEGIC**  
Stainless steel 91.4 x 91.4 x 32mm diameter wall [rear] grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

**R17- GRAB RAILS (RIGHT/LEFT HAND)-PARALEGIC**  
Stainless steel 101.6 x 91.4 x 32mm diameter right/left hand side toilet grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs. Installed as per manufacturer's instructions.

**R18- PAPER TOWEL DISPENSER**  
500mmx430mmx200mm Paper and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**R19- SOAP DISPENSER-DISH- WALL MOUNTED**  
115W x 270H x 110D Stainless steel Hands Free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.

**R20- ALUMINIUM COAT HOOK (Multi-track)**  
500mm Wide x 220mm High x 90mm High Aluminium Multi-track Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws

**R21- HAND DRYER (Hands free)**  
As per Electrical Engineers specification

**R22- TOWEL RAIL**  
55mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing.

**R23- SHOWER CURTAIN RAIL (straight)**  
20mm dia. standard chromium plated shower curtain rail 1200mm long with flanged ends and screws CP fixing height as per FA's drawing.

**GENERAL FIXTURES**

**G1- DOOR PROTECTOR**  
200mm wide PVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FL, or as specified.

**G2- PROTECTOR SCREWS**  
Full cover PVC screws size 344 x 185mm (viewing area 224 x 175mm) with wall-mounted code SC0400 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.

**G3- FINBOARD 1500W X 1000H**  
Finboard size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

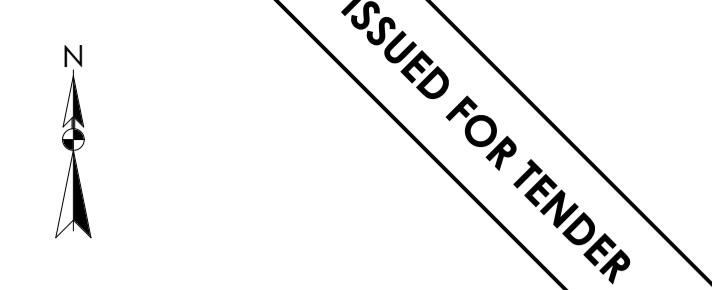
**G4- FINBOARD 300W X 1200H**  
Finboard size 1200mm H x 300mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround mitred at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.

**G5- WINDOW NORMAL BUNDS/vertical blinds**  
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be connected by stainless steel links. The mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed tie fixing brackets.

**G6- FLOOR DRAIN**  
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.

**G7- SS FLOOR EXPANSION JOINT COVER**  
Concealed heavy-duty stainless steel movement joint, joint, with polyurethane infill (colour grey). To be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.

**G8- CHALKBOARDS- GREEN SURFACE COLOUR**  
Vitex system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamelled steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CES 362004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and freely structured, olive green in colour (Vitex Colour Reference - Chalk Board Green LM197/2), featuring complete with integral anodised aluminium chalk rail (ACR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE RETAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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

**FINISHES LEGEND**

CEILING FINISH

FLOOR FINISH

WALL FINISH

WALL SKIRTING FINISH

**SIGNATURE TABLE**

| DISCIPLINE         | SIGN | DATE |
|--------------------|------|------|
| CLIENT             |      |      |
| FILE EXAMINER      |      |      |
| FIRE CONTROL       |      |      |
| ENVIRONMENTAL      |      |      |
| ROADS & STORMWATER |      |      |
| WATER & SANITATION |      |      |

**REVISIONS**

| REV. NO. | DATE   | FIRST ISSUE FOR TENDER | DESCRIPTION |
|----------|--------|------------------------|-------------|
| A        | JUL 21 | FIRST ISSUE FOR TENDER |             |

**LIMPOPO**  
PROVINCIAL GOVERNMENT  
REPUBLIC OF SOUTH AFRICA

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

**PAPHAMANI PRIMARY - 924 650 535**

RESTORATIVES, REPAIRS & ADDITIONS

CONTRACT - SECTION

**DOCUMENTATION & PROCUREMENT**

DISCIPLINE: ARCHITECTURAL

WORK DESCRIPTION - SUB DIVISION: SMALL ADMINISTRATION BLOCK

DRAWING DESCRIPTION: JOINERY DETAILS D04-02

**JOINERY DETAILS D04-02**

| DRG No. | DATE     | RESPONSIBLE PROFESSIONAL | PR. NUMBER       |
|---------|----------|--------------------------|------------------|
| 301-09  | NOV 2019 | T. MANYAZZA              | Pr/Arch 43981757 |
| DESIGN  | DATE     | NAME                     | SEAL             |
| NA      | AS SHOWN | SMTN                     |                  |

DRAWING CO-ORDINATED

**TECTURA - INTERNATIONAL!**

|   |   |  |  |
|---|---|--|--|
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|---|---|--|--|

ALSO IN NAIROBI, KENYA AND GABORONE, BOTSWANA

**CONTRACTOR**

| CAD SYSTEM | AUTOCAD               | FILE NAME |
|------------|-----------------------|-----------|
| SIZE       | PROJECT NUMBER        | SCALE     |
| A1         | LDPW - PROF/16002/E08 | 0         |



**FINISHES LEGEND**

**FLOORS:**

**F1: FULLY FLEXIBLE TILES (Corrosive Resistant & Anti-Slippery)**  
300 x 300 x 2.0mm thick (colour type to architects approval), OR EQUAL AND APPROVED, quartz reinforced semi-flexible vinyl floor tiles to SABS Specification S81: 1992 (or later revision), and laid to SABS 070 (or later revision) and in accordance to manufacturer's specifications on cement screed subfloor. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F2: PORCELAIN TILES - MATI**  
600 x 600 x10mm thick matt porcelain tile to comply with SABS 1449 laid on approved pattern by an approved specialist to comply with SABS 107 and approved adhesives and grout on screeds with thickness/specification in strict compliance to manufacturers instructions and SABS specification. Fittings to include, ribbed angle files where there is a change of level & Movement Joints of 6mm Wide With Patent Aluminium Movement Joints Strips Consisting Of Synthetic Fibre Inserts Installed At Intervals As Per Manufacturer's Instruction. Colour and pattern to architects approval.

**F3: CARPET Tiles**  
500mm x 500mm x 100% PEV Staple fibre carpet tiles To Comply With SABS 1419 (heavy commercial) consisting of fibres set out on waterproof vinyl backing and laid with BN 307 Wear Class 4 (heavy duty), laid with approved adhesive on 30mm thick cement screeds in strict compliance with manufacturer's instructions. Carpet tiles to conform to BS 4790 on fire rating, and BS S4324 on wire test and 50 body test at less than 2kV at 25% RH on static electricity. Colour and pattern to architects approval.

**F4: CEMENT SAND SCREED**  
30mm thick polished cement sand screed with 13mm Stone Nominal aggregate for topping to comply with SABS 1083 or latest revision for concrete.

**F5: EXTERIOR MULTI COLOURED CONCRETE INTERLOCKING PAVERS**  
60mm thick multi-coloured concrete pavers laid on sand bedding to civil/structural engineer's specification in approved pattern and approved to approved and grouted in strict accordance to manufacturer's specifications. All to be manufactured and installed in strict compliance to SABS 1058 or Latest Revision.

**F6: GRANULITIC FINISH**  
22mm thick unsealed Granulitic finish composed of one part cement, one part fine sand, two parts coarse sand and one part granite that would pass through a 5mm mesh sieve laid by specialist in panels not exceeding 10m<sup>2</sup>, divided with approved brass dividing strips. All to be manufactured and installed in strict compliance to the latest SABS approved standards. Colour, pattern and aggregate size to architects approval.

**F7: INTERLOCKING PAVERS (RIGID PAVING/VEHICULAR WAYS)**  
220mm x 197mm x 80 mm thick concrete interlocking pavers, 25 mpa, manufactured to SABS spec 1058, laid on sand bedding to civil/structural engineer's specification to a herringbone pattern to the Architect's approval.

**F8: SEMI FLEXIBLE VINYL SHEETING (CORROSIVE RESISTANT/ANTI-SLIPPERY)**  
2.5mm Thick Heavy Traffic Use, Corrosive Resistant & Anti-Slippery Vinyl Sheeting Semi-Flexible To Comply With SABS S86. With Static Dissipative Properties Throughout Thickness, Engineered for ESD or SD (anti-static) Protection Vinyl Sheet, Laid on Self-Levelled Smooth concrete sited with conductive adhesive to SABS 070 or latest Revision in accordance to manufacturer's instructions And Installed by Approved Specialist. Joints Shall be Welded as Per Manufacturer's Specifications With No more than 2mm Gap. Clean & Polish Floor in Compliance With SABS 1042. Colour To Architect Approval On Sample Presentation. Contractor to provide Certificate of Static Current Conductivity. Contractor to provide Certificate of Static Current Conductivity, Corrosive Resistant & Anti-Slippery.

**F9: GRAVEL FINISH ON SAND LAYER**  
30mm Gravel On Compacted Sand Layer Base as Per P&E Details Installed in All Cist Chambers Accommodating Sanitary Services.

**SKIRTING:**

**S1: HARDWOOD OR EQUAL AND APPROVED**  
15 x 75mm x 20mm Moulded Hardwood Skirting to comply with SANS 1099, fixed to walls in long lengths with sprayed heading joints and metal corner with screws and plugs of centres not exceeding 600mm, and fixed with a 19mm x 19mm quadrant beading. The skirting to be varnished with 3no. coats of egg shell clear varnish to comply with SABS/SANS 381 type 1.

**S2: CERAMIC TILE SKIRTING**  
600mm wide x 100mm high x 7mm thick matt porcelain tile to comply with SABS 1449 laid with approved adhesives and grout on 22mm thick screeds in strict compliance to manufacturers instructions and SABS specification, with cove base and straight tops. Complete with corner and top trims. Fittings to include, ribbed angle files where there is a change of level. Colour and pattern to architects approval.

**S3: CEMENT SAND SCREED**  
75mm high 20mm thick hardened cement sand screed skirting covered at 50mm dia, to form a continuous joint with the adjoining screed floor finish to P&A approval. All to be manufactured and installed in strict compliance With SABS 1083, or latest revision.

**WALL FINISHES:**

**W1: FACE BRICK**  
F8 Face brick in common running bond to comply with SABS 227 and forming part of the structural work.

**W2: EMULSION (PVA) PAINT - FULL HEIGHT**  
2 no. coats of PVA matt finish emulsion paint to SABS 1584 applied on plastered surface primed and with 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

**W3: ENAMEL PAINT**  
2 no. coats matt (egg shell) finish white (enamel) paint to SABS 650, type 2 applied on plastered surfaces with 1 no coat alkali resistant primer prior to SABS 1416 and 1 no. coat undercoat to SABS 681 grade I, in accordance to manufacturer's instructions.

**W4: GLAZED CERAMIC WALL TILES / ENAMEL PAINT COMBO**  
Combination of 600mm wide x 300mm x 7mm thick high glazed ceramic tiles to Specification 'S5', laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications laid from finish floor level to window level AND ENAMEL paint to specification 'W2' to comply with SABS 681 or latest revision applied from 2100 mm above finished floor level to ceiling height in all strict compliance to manufacturer's instructions. All to be manufactured and installed in strict compliance to the latest SABS Standards.

**W5: CERAMIC WALL TILES - FULL HEIGHT**  
600mm x 300mm x 7mm thick high glazed ceramic tiles to comply with SABS 22 or latest revision, laid on 15 mm thick plaster prepared to receive wall tiles fixed with approved adhesives and grout in compliance to manufacturer's specifications and government standard specifications. Tiles to be laid to full ceiling height. All to be manufactured and installed in strict compliance SABS 22 Standard. All to be manufactured and installed in strict compliance SABS 22 Standard.

**CEILING AND CORNICE:**

**C1: 9mm GYPSUM BOARDS FLUSH PLASTERED CEILINGS OR EQUAL AND APPROVED**  
GypCel Classic gypsum plasterboard ceiling EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing) fixed to timber bracing installed at maximum 300mm centres using Gyproc Rhinoboard Strap Fast Grabber Screws 32mm x 150mm centres. Apply Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

**C2: FIBRE CEMENT BOARDS (IN JOINTS)**  
6mm thick GypCel Prestige 1 fibre cement ceiling boards or EQUAL & APPROVED consisting of 1 layer Gyproc Rhinoboard 9mm (locally manufactured, ISO 9001 & 14001 certification, recycled paper content, EcoSpecifier listing, non-combustible to SANS 10171/5) fixed to EX 38mm x 50mm timber bracing installed at maximum 400mm centres using Gyproc Rhinoboard Strap Fast Grabber Screws 32mm x 150mm centres with all necessary accessories, finished with 3 no. coats of super PVA external quality paint colour to P&A's approval. Gyproc Rhinotape to all joints and skim the ceiling using Gyproc Rhinotile.

**C3: PATENT SUSPENDED ACOUSTIC TILES OR EQUAL AND APPROVED**  
1200mm x 600mm X 15mm Gyproc Calotex Pin Perforated or Fire Rated OR EQUAL & APPROVED laid into Donn ceiling grid and secured into place using Donn Hold Down Clips @ 200mm c/c. Donn Wall Angle M6 fixed to the perimeter wall using fixings at 300mm centres. Donn 138 FR Main Tees (0.4mm thickness, 2150 galv. coating, locally manufactured, recycled content, ISO 9001 & 14001 certification) @ 1200 centres & Donn 138V (1200 long) Cross Tees at 600 centres. Suspend main tees @ 1200mm c/c using Donn Hanger Strap 19mm suitably fixed to the building structural members. Donn Galvanized Hanger Strap 19mm at maximum 150mm on both sides of the file notch. All file notches to be in file. Suspend all full length 1200 Cross Tees at their mid-point using Donn Hanger Strap 19mm suitably fixed to the building structural members. All to comply with latest SANS 803 including all necessary accessories and installed in strict accordance to manufacturer's specifications.

**C4: EMULSION (PVA) PAINT OR EQUAL AND APPROVED**  
Emulsion (PVA) Paint on Plastered/Plastered S&P 3no. coats of PVA emulsion ceiling paint to latest SANS 1584 approved on 6mm thick light weight hemi-hydrate gypsum plaster on concrete slab.

**ROOF COVERING AND INSULATION:**

**R1: EMBOSSED ROOFING SHEET (TWO SIDES)**  
Roofing Sheets: 0.58mm Thick concealed fixing roofing sheets manufactured from roll-formed from certified steel complying with ISO 351 (3). The profile shall have three trapezoidal ribs at 200mm centres giving a net cover of 456mm. The rib height shall be 41mm and provide copillary drains. The male rib shall have gusset of 28mm centres to ensure a positive double interlocking action at side-laps. Each span shall incorporate two stiffener ribs. Profiled roofnuts to be coated on both sides with 'Galval Coat' or 'Chromadek Coat' and laid on structural members/structure incorporating all necessary accessories such as fixings and eave covers in strict compliance to manufacturer's instructions.

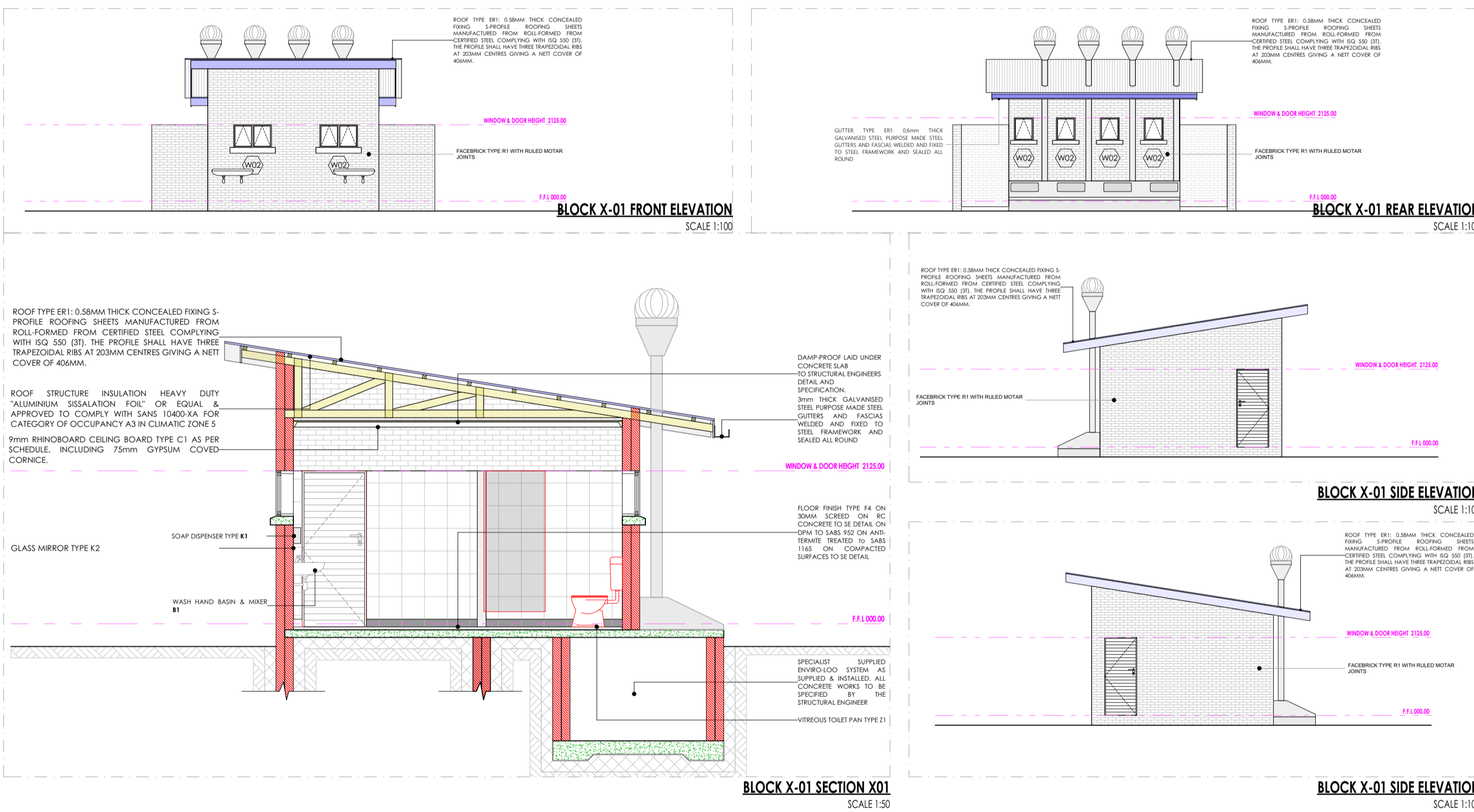
**R2: WALL COVER BRK**  
1 where there are acoustic ceilings suspended board, a heavy duty 'Aluminium isolation foil' shall be installed AND 2 where the steel work is exposed, a 50mm 'Acousticboard' manufactured from noncombustible glass fibres and thermo-setting resin binder supplied size 2400mm x 1200mm and 80kg/m<sup>2</sup> and finished with white meltable foil.

**Galvanized Steel (GI) Gutter:** 150mm Deep x 100mm Deep x 4.6mm Eave Gutter of Commercial Grade Steel With Class Z275 Galvanizing To Comply With SABS 934 or latest Revision Fixed To Painted Fibre Cement Facia Board Together with standard accessories discharging into Rainwater Downpipes.

**Dampstop:** 110 x 110 x 0.6mm Thick Commercial Grade Galvanized Steel Sheet With Class Z275 Galvanizing To Comply With SABS 934 or Latest Revision to be built into walls or cast in concrete columns laid to brickwork or steel including brackets and self-tapping screws to Manufacturer Installation instructions.

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

| DOOR SCHEDULE:  |   |   |
|---|---|---|
| EXTERIOR DOOR   | BURGLAR DOOR (SINGLE)   | INTERIOR DOOR   |
| <b>QUANTITY</b> 01<br><b>DOOR DESCRIPTION</b> 813 x 2032 x 44mm THICK HEAVY DUTY EXTERIOR QUALITY HORIZONTAL SLATED DOUBLE SIDED SALONIA DOOR FITTED TO COMPLY WITH SABS 545 EXTERIOR GRADE OR LATEST REVISION.<br><b>FRAME</b> STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 843 1910 DOOR LEAF<br><b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL<br><b>DOOR FINISH</b> APPLY 3no. CLEAR EGGSHHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, 1HN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE DRYING COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE<br><b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS<br><b>HINGES</b> 3 NO. STAINLESS STEEL MEDIUM DUTY BUTT HINGES | <b>QUANTITY</b> 02<br><b>DOOR DESCRIPTION</b> PAINTED GALVANISED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm CENTRES AT A 90° ANGLE, INCLUDING SECURITY MESH. COLOR TO ARCHITECTS SPECIFICATION TO COMPLY WITH SABS 681. GRADE 01 AND FINISH WITH TWO COATS ALTYDE EGG SHELL PAINT TO COMPLY WITH SABS 630.<br><b>FRAME</b> 50 x 50mm GALVANISED MILD STEEL SQUARE WELDED TO FORM FRAME<br><b>FRAME FINISH</b> 1 x COAT ZINC CHROMATE PRIMER 2 x COATS GLOSS ENAMEL (EXTERIOR QUALITY)<br><b>DOOR FINISH</b> PAINTED MILD STEEL GATE CONSISTING OF 10 x 10mm MILD STEEL BARS PLACED AT 100mm c/c CENTRES AT 90° ANGLE, INCLUDING SECURITY MESH TO COMPLY WITH SABS 681. GRADE 01 & FINISH WITH 2 COATS ALTYDE EGG SHELL PAINT TO COMPLY WITH SABS 630 COLOR TO ARCHITECTS SPECIFICATION<br><b>IRON MONGERY</b> APPROVED LOCKSET AS PER SUPPLIER DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS<br><b>HINGES</b> 3 NO. STAINLESS STEEL MEDIUM DUTY BUTT HINGES | <b>QUANTITY</b> 02<br><b>DOOR DESCRIPTION</b> 813 x 2032 x 44mm THICK INTERIOR GRADE FLUSH HOLLOW CORE SINGLE TIMBER DOOR WITH 3mm PLY ON BOTH SIDES WITH 2 CONSOLIDATED EDGES FITTED TO COMPLY WITH SABS 545 IN PRESSED STEEL FRAME. ALL PAINTED TO ARCHITECTS COLOR SCHEDULE<br><b>FRAME</b> STANDARD 1.6mm IN DOUBLE REBATE PRESSED MILD STEEL DOOR FRAME WITH WALL MATCHING PROFILE IN COMPLIANCE WITH SABS 1129 OR THE LATEST VERSION COMPLETE WITH LUGS & FIXTURES TO ACCOMMODATE 843 1910 DOOR LEAF<br><b>FRAME FINISH</b> WASHABLE ENAMEL PAINT FINISH AS PER SABS 723 FOR PRIMER, SABS 681 FOR UNDERCOAT & SABS 630 TYPE 02 FOR FINISH COAT. COLOR TO ARCHITECTS APPROVAL<br><b>DOOR FINISH</b> APPLY 3no. CLEAR EGGSHHELL VARNISH FOR INTERIOR TO COMPLY WITH SABS 887 TYPE 01, 1HN DOWN FIRST COAT WITH MINERAL TURPENTINE AS PER MANUFACTURER INSTRUCTIONS, ALLOWING EACH COAT TO DRY OVERNIGHT. APPLY WOOD PRESERVATIVE TO EXPOSED EXTERIOR WOOD TO SATURATE THE SURFACE, WITH EACH COAT SOAKING IN BEFORE DRYING COATS. APPLY UNTIL NO FURTHER SOAKING TAKES PLACE<br><b>IRON MONGERY</b> DOOR STOP - POLISHED BRASS FLOOR MOUNTED APPROVED ALUMINIUM ENGRAVING SIGN PLATE FOR APPROPRIATE ROOMS<br><b>HINGES</b> 3 NO. STAINLESS STEEL MEDIUM DUTY BUTT HINGES |



| WINDOW SCHEDULE:   |  |  |  |
|--|--|--|--|
| W01  | W02  | W01  | W02  |
| <b>QUANTITY</b> 04<br><b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL TYPE' GALVANISED MILD STEEL DOUBLE SIDING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING<br><b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIME WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01. FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS<br><b>GLASS</b> 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL<br><b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)<br><b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT<br><b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION | <b>QUANTITY</b> 02<br><b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL TYPE' GALVANISED MILD STEEL DOUBLE SIDING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING<br><b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIME WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01. FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS<br><b>GLASS</b> 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL<br><b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)<br><b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT<br><b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION | <b>QUANTITY</b> 04<br><b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL TYPE' GALVANISED MILD STEEL DOUBLE SIDING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING<br><b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIME WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01. FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS<br><b>GLASS</b> 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL<br><b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)<br><b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT<br><b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION | <b>QUANTITY</b> 02<br><b>WINDOW DESCRIPTION</b> STANDARD 'SCHOOL TYPE' GALVANISED MILD STEEL DOUBLE SIDING WINDOWS, MANUFACTURED, ASSEMBLED & DELIVERED COMPLETE WITH IRON MONGERY COMPRISING APPROVED HINGES, PIVOTING MECHANISMS, STAYS FASTENERS, & WEATHER STOPS TO OVENABLE PANELS. PLUGGED & SCREWED INTO WALLING<br><b>FRAME</b> STANDARD 'STANDARD TYPE' GALVANISED MILD STEEL WINDOW FRAME MANUFACTURED TO COMPLY WITH SABS 727. FRAMES TO BE FACTORY PRIME WITH ZINC PHOSPHATE PRIMER TO COMPLY WITH SABS 1319 BEFORE DELIVERY & FINISHED WITH ONE UNIVERSAL UNDERCOAT TO COMPLY WITH SABS 681 GRADE 01. FINISHED WITH 2no. COATS ALTYD ENAMEL PAINT TO COMPLY WITH SABS 630. COLOR TO ARCHITECTS SPECIFICATIONS<br><b>GLASS</b> 6 mm SAFETY GLASS FIXED WITH PUTTY TO COMPLY WITH SABS 680. PUTTY MUST BE DELIVERED ON SITE IN SEALED CONTAINERS MARKED WITH SABS MARK OF APPROVAL<br><b>WINDOW FITTINGS</b> MATCH EXISTING WINDOW FITTINGS (ORIGINAL)<br><b>IRON MONGERY</b> ALL IRON MONGERY TO BE SUPPLIED MUST MATCH EXISTING OR SIMILAR & MUST BE APPROVED BY THE ARCHITECT<br><b>HINGES</b> FIXED, MANUFACTURER'S SPECIFICATION |

**SANITARY SCHEDULE**

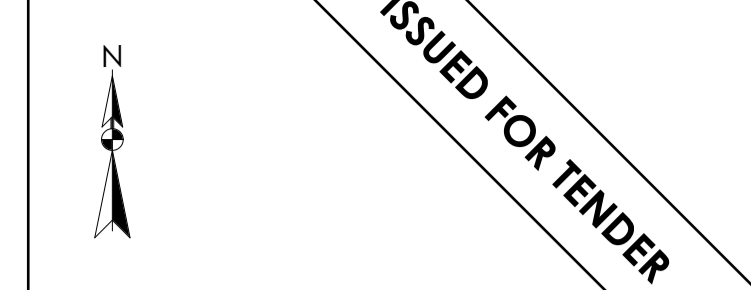
- WC'S URINALS & SHOWER**
- W1: CERAMIC STANDARD WC (C/C) CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostatic Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with blank flush plate.
- W2: CERAMIC PARALEGIC WC**  
Vitreous china 90° outlet or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497. Fitted with Cistern installed complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension valve.
- W3: CERAMIC PARALEGIC WC (C/C) CONCEALED CISTERN**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497 & Fitted with 'Jazz Thermostatic Plastic Seal'. Fitted with Concealed Flushing Cistern for WC 6-7 litres adjustable with small discharge valve access pneumatic discharge valve installed with dual flush ability & complete with all necessary fittings to manufacturer's specification and applicable SABS standards. Flush valve to be fitted with suitable extension valve. Blank flush plate & offset push button for passage access
- W4: CERAMIC STANDARD WC (BACK INLET)**  
Vitreous china 90° outlet back inlet pan to comply with SABS 497. Fitted complete with back inlet exposed flush valve complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards. Flush valve to be fitted with suitable extension lever.
- W5: CERAMIC STANDARD WC (C/C)**  
Vitreous china 90° outlet WC or equal and approved, top inlet closed rim back-to-wall pan. Floor Mounted to comply with SABS 497. Fitted complete with matching 7 litre pushbutton top dual flush cistern fitted with quality approved heavy duty thermostat lid, seal and complete with all necessary fittings as per manufacturer's specifications and applicable SABS standards.
- W6: CERAMIC WALL HUNG URINAL**  
Vitreous china 90° outlet wall hung urinal to comply with SABS 497. Supplied with suitable 38mm CP domical glanding. CP top inlet spreader and two hanger brackets and fitted with exposed flush valve, and suitable bottle trap chrome finish as per manufacturer's specifications and applicable SABS standards
- W01: SHOWER**  
2mm Thick Cromelised steel shower tray size 900x900x160 mm manufactured with anti slip pattern, with rounded internal corners, and 38 mm R3P grated waste fitting in corner position fitted with Shower set and complying with SABS 226 comprising of approved:  
• Gated Shower Chubbie with access door as per standard supply from manufacturer and sized to fit space configuration  
• Overhead shower arm with wall flange.  
• Chrome Plated Shower Head with built-in jetted connector  
• Chrome Plated Shower Diverter mixer-valve with sliding wall flanges and concealed connectors adjustable from 178mm to 203 mm centres. Shower tray to be recessed 50mm into a 100mm high concrete plinth with exposed plinth face.
- WASH-HAND BASIN**
- W1: WASH & MIRROR TAP**  
Vital Sanitaryware vitreous china 560 x 415mm rounded 'Tuscany' OR EQUAL AND APPROVE basin to comply with SABS 497 with single tap-hole configuration supplied with integrated overflow and charity hole through the centre semi-punched supplied with a 'Tuscany' pedestal and fitted with 'No. Cotto Waterless' 15mm chrome pushbutton dispenser tap with flanged bracket (code KM2.102) meeting top, 300-32 CP anti-slip plug with angle valve. 300 basin waste. 363/40 CP bottle trap, mounting kit and angle valve.
- W2: DISABLED BASIN**  
1200mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated elbow action pillar-top, with 1/4" turn ceramic disc head and 8/16" Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fied with concealed wall bracket in accordance to the manufacturer's specifications.
- W3: WHITE GLAZED PORCELAIN WASH (VANITY)**  
Ceramic Treco size 450x350mm oval self-rimming vanity basin to comply with SABS 497 in one top hole configuration supplied without overflow and fitted with 'No. chrome plated tap with flanged bracket (code KM2.102) meeting top, mounting kit and angle valve. 400mm long flexible inlets and chrome plated bottle trap supplied with all necessary pipe connections. Basin mounted on cabinet or vanity top with silicon beaded between cabinet tops in strict accordance to manufacturer's specifications.
- W4: SMALL BASIN & 2 FASTRAY & SHOWER SET (FOR WORKSHOPS)**  
Vitreous china size 450x300mm wall basin to comply with SABS 497. In 2 top hole configuration supplied with integrated overflow and charity hole with 2no. pillar-top, chrome plated anti-slip plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valve with 400mm long flexible inlets supplied with all necessary pipe connections. All brackets and fixing accessories in strict accordance to the manufacturer's specifications.
- W5: HEAVY DUTY BASIN & TAP (FOR LABS)**  
Ceramic Treco size 600x300mm rectangular heavy duty basin in one tap-hole configuration to comply with SABS 497 and R45 hole plugged and fitted with No. pillar-top. Chrome Plated anti-slip plug with spindle plug, slotted basin waste, chrome plated bottle trap, mounting kit and angle valve with 400mm long flexible inlets supplied with all necessary pipe connections. Fitted to wall using 2No. Semi-concealed cast iron brackets in accordance to the manufacturer's specifications.
- W6: MEDIC BASIN & FITTINGS (SICK BAY)**  
Vitreous china size 400mm semi rounded lavatory basin to comply with SABS 497. In two top hole configuration fitted with 2 No chrome plated elbow action pillar-top, with 1/4" turn ceramic disc head and 8/16" Red indicators water applications and flanged bracket, chrome plated waste, chrome plated 32mm standing overflow tube, chrome plated bottle trap supplied with all necessary pipe connections. Fied with concealed wall bracket in accordance to the manufacturer's specifications.  
Combination of sanitaryware, accessories and general fittings comprising of:  
• Mirror type C  
• Paper towel dispenser K8 and bin type K3.  
• Soap dispenser type K5.  
• Soapbox comprising 2no. rows of wall fin finish R5 as per finishes schedule and grout in compliance to manufacturer's specifications and government standard specifications. Installation heights as indicated in the drawings.
- SINKS:**
- K1: STAINLESS STEEL SINK**  
Stainless steel 1000 x 457mm inset single end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fittings with Approved Sink mixer-wall type, chrome plated swivel Outlet, adjustable and supplied with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- K2: STAINLESS STEEL SINK**  
Stainless steel 1500 x 457mm inset double end bowl with recessed drainage ledge and folded edges. Bowl to be fitted to kitchen cupboard (cupboard elsewhere measured). Grade 304 (18/10) Stainless Steel sink to comply with SABS 906 fittings with Approved Sink mixer-wall type, with chrome plated overflow and fitted with suitable accessories in accordance to manufacturer's specifications. Sink installation height = 900mm AFFL.
- K3: CERAMIC SINK**  
Ceramic Treco 425 x 335 x 180 mm rectangular laboratory sink without overflow, with a centre end waste outlet, fitted to wall on two semi-concealed brackets supplied with all necessary accessories (all to be acid resistant).
- K4: SINGLE WASH TROUGH (Inlet & 2no. TAPS)**  
Ceramic Treco size 1500mm wall trough with rounded ends from grade 18/10 S.S. stainless steel with radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no. CP bibcocks - plain extended chrome plated, complete with sliding wall flanges, Un-sloated sink waste with back nut, plug with strap, chain and stay, CP, 'P' trap, with deep seal and cleaning eye. Rough brass Sink installation height = 900mm AFFL. Cut off seal 555 x 425mm.
- K5: DOUBLE WASH TROUGH (Inlet & 2no. TAPS)**  
1200 x 552 x 200mm Double bowl wall hung trough manufactured from grade 304 (18/10) S.S. radiused internal corners and provision for a 40mm dia. outlet. Fitted with Approved 2no wall type bibcocks, with Swivel Outlet, adjustable wall flanges and exposed adjustable connectors. CP, Un-sloated sink waste with back nut and plug with strap, CP, Double drain back rubber deep seal 'P'-trap. Sink mounted on 2no. 25mm square S5 gallow brackets, front leg adjustable foot piece of height of 150mm AFFL.

**SANITARY ACCESSORIES**

- K1: SS TOWEL ROLL HOLDER - 2 ROLL**  
Standard Stainless steel toilet roll holder 2 ROLL 150mm width x 270mm high 275mm depth Toilet Roll Holder manufactured from 18/10 Stainless Steel, surface Soft finish, including screws and dowels and all other necessary accessories in accordance to manufacturer's specifications.
- K2: GLASS MIRROR**  
6mm thick clear float glass silver-backed mirror, size 450x900mm height with polished beveled edges 4 times folded for and fixed, with chromium plated dome-headed mirror screws
- K3: SS WASTE BIN**  
325W x 525H x 200D Waste bin manufactured from 18/10 Stainless steel, Surface Satin Finish. Material Thickness 1.5mm, including Screws, dowels and all necessary accessories in accordance to manufacturer's specifications.
- K4: SANITARY BIN (PLASTIC)**  
190mm x 200mm x 600mm Plastic Sanitary Pedal bin with capacity of 100 Litres per pack Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K5: SOAP HOLDER**  
Single semi-recessed ceramic soap dish Complete with all necessary accessories and installed in accordance to manufacturer's specifications.
- K6: WALL GRAB RAILS-PARALEGIC**  
Stainless steel 914 x 90 x 30mm diameter wall (rear) grab rail, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.
- K7: GRAB RAILS (RIGHT-LEND HAND)-PARALEGIC**  
Stainless steel 914 x 90 x 32mm diameter wall (front) side table grab rail with 450mm high centre flange, in satin polished finish complete with SS fixing screws and plastic wall plugs, installed as per manufacturer's instructions.
- K8: PAPER TOWEL DISPENSER**  
330mmWx365mmX230mmD Tear and dry paper hand towel dispenser in stainless steel. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K9: SOAP DISPENSER (ISH- WALL MOUNTED)**  
115W x 200H x 110D Stainless chrome free soap dispenser. Complete with screws, locking key, and all necessary accessories and installed in accordance to manufacturer's specifications.
- K10: ALUMINIUM COAT HOOKS (MULTITRACK)**  
200mm Wide x 220mm High x 90mm High Aluminium Multitrack Hat and Coat Hook in multi-track two hooks Configuration With Anodised Silver Finish Complete with Screws.
- K11: HAND DRYER (Hands free)**  
As per Electrical Engineers specification
- K12: TOWEL RAIL**  
15mm dia. Polished 900mm long towel rail complete with all necessary accessories in accordance to manufacturer's specifications. Installation height as per architect's drawing
- K13: SHOWER CURTAIN RAIL (Height)**  
20mm dia. standard chromium plated shower curtain rail 1300mm long with flanged ends and screws CP fixing height as per P&A's drawing.

**GENERAL FIXTURES**

- G1: DOOR PROTECTOR**  
200mm wide UPVC Door Protector manufactured in high impact resistant rigid PVC (Colour Grey) and cut to suit door width from 3m length, installed strictly in accordance to manufacturer's specifications. Installation height 900mm above FFL.
- G2: PROTECTOR SCREEN**  
Full door UPVC screen size 2440 x 1850mm (including area 234 x 1750mm) with wall-mounted code SC4000 Keystone Brackets Adjustable Set of 2, size 300mm. To be supplied complete with all accessories, and fitted in strict accordance with manufactures instructions.
- G3: FINBARQ 1500W X 1000H**  
Finbar size 1000mm H x 1500mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G4: FINBARQ 3000W X 1200H**  
Finbar size 1200mm H x 3000mm W comprising of laminated self board core priming material beaded all round with anodised aluminium channel surround milled at the corners. To be fitted complete with fixing brackets, screws and wall plugs at 900mm above floor level.
- G5: WINDOW NORMAL BINDS (vertical blinds)**  
127 mm vertical deco blinds with anodised aluminium headrail fitted with colour coordinated insert. All runners to be wheeled and fitted with individual clutch mechanism. All runners to be concealed by stainless steel fins. The mechanism to be operated by a nylon ball chain with a reduction gear inside a fully enclosed cap. Blinds to be face fixed (fixed over the window opening) by means of concealed type fixing brackets.
- G6: FLOOR DRAIN**  
Cast iron flat type full-flow outlets size 110 mm diameter with centre ball, including connectors to downpipes.
- G7: SS FLOOR EXPANSION JOINT COVER**  
Concealed heavy-duty stainless steel movement joint, with polyurethane infill (colour grey), to be installed within the tile surface over the 20mm expansion joints, in accordance to the manufacturer's specifications.
- G8: CHALKBOARDS - GREEN SURFACE COLOUR**  
Vitres system 1000 standard WHITEBOARD or EQUAL & APPROVED vitreous enamel steel utility school chalkboards wall-mounted size 480mm x 1140mm high manufactured in accordance with SABS Standard CE 30/2004 Edition 4 and suitable for Class 1 Heavy Duty applications, as defined therein. Enamel steel Utility chalk board surfaces to be matt and finely structured, olive green in colour (Enamel Coated Reference - Chalk Board Green LM197/2), supplied complete with integral anodised aluminium chalk rail (ACKR), fixing components and secured in position to brickwork. The Chalk boards are to be fixed in position strictly in accordance with the manufacturer's instructions.



**LEGEND**

- NEW WALLS
- EXISTING WALL TO BE MAINTAINED
- EXISTING WALL TO BE DEMOLISHED
- NEW FIXTURES & FITTING TO BE INSTALLED
- ITEMS IN RED AND (OR) DASHED LINES ARE TO BE REPAIRED AND (OR) REPLACED

**NOTES**  
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED

DIMENSIONS TO BE READ, NOT TO SCALED FROM THIS DRAWING

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