



**O.R. TAMBO
DISTRICT MUNICIPALITY**

TENDER NO: ORTDM SCMU 36-20/21

**DESCRIPTION: CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT
CENTRE**

FEBRUARY 2021

Issued By:

The Municipal Manager
O. R Tambo District Municipality
Private Bag X 6043
MTHATHA
5100

Tel No: (047) 501 64000

Prepared By:

Supply Chain Management Unit
O. R. Tambo District Municipality
Private Bag X 6043
MTHATHA
5100

Tel No: (047) 501 6400

NAME OF BIDDER: _____

CSD SUPPLIER NUMBER: _____

EMAIL ADDRESS: _____

TENDER AMOUNT: _____

PLEASE CHECK

x / √

1. That you have read all the pages of the tender document.
2. That you have completed ALL the forms required to be completed in **NON-ERASEABLE INK.**
3. That your arithmetic calculation in the pricing schedule is correct.
4. That you have attached ALL necessary documentation relating to the Composition of the tendering entity, i.e.
 - (a) Company registration documents naming the shareholders and Directors / members of the company, close corporation etc
 - (b) Joint venture agreement, if tendering entity is a joint venture.
5. That the **COMPLETE** tender document is submitted.
6. That the **FORM OF OFFER** is completed in full and signed.
7. That ALL returnable documents are submitted.
8. That ALL returnable schedules are completed and signed.
9. Ensure that your tender is submitted by **12H00PM** on the closing date of the tender

Contractor

Witness 1

Witness 2

T2.2.2

Employer

Witness 1

Witness 2

TENDERS ARE HEREBY INVITED FOR:

To ensure that your Tender is not exposed to invalidation, documents are to be completed in accordance with the conditions and Tender rules contained in the Tender documents. Supporting documents must be sealed and externally endorsed

CONTRACT: O.R. Tambo District Municipality SCMU 35- 20/21:

CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT CENTRE

and be submitted in the tender box, Ground Floor, OR Tambo District Municipality, Nelson Mandela Drive, OR Tambo House, Myezo, Mthatha, not later than the closing date and time as stated.

The lowest or any Bid will not necessarily be accepted, and the OR Tambo District Municipality reserves the right not to consider any tender not suitably endorsed or comprehensively completed as well as the right to accept a Tender in whole or part. Tenders will be adjudicated in accordance with the Supply Chain Management Policy of the OR Tambo District Municipality.

The following documents must be completed, signed (where applicable) and submitted as a complete set:

Document		Colour of pages
Number	Heading	
T1.1	Tender Notice and Invitation to Tender	White
T1.2	Tender Data	Pink
T2.1	List of Returnable Documents	Yellow
T2.2	Returnable Documents for tender evaluation purposes	Yellow
C1.1	Form of Offer and Acceptance	Yellow
C1.2	Contract Data	Yellow
C1.3	Operational Health & Safety Specification	Yellow
C1.4	ORTDM Supply Chain Management Policy	Yellow
C2.1	Pricing Instructions	Yellow
C2.2	Activity Schedule	Yellow
C3	Scope of Work	Blue
C4	Site Information	Green
C5	Additional Relevant Documents "Tender Drawings"	White

Contractor

Witness 1

Witness 2

T2.2.3

Employer

Witness 1

Witness 2

T1.1 TENDER NOTICE AND INVITATION TO TENDER

Tenders are hereby invited from suitably qualified and experienced contractors who are registered with CIDB for the construction of Mhlontlo Disaster Management Centre.

Project Number	Name and Description	CIDB Grading	Contract period
ORTDM SCMU 36 – 20/21	CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT CENTRE	7GB or higher	24 months

A non-compulsory clarification meeting with representatives of the client will take place at 10H00 on Wednesday, 24th February 2021, online

Bid documents may be downloaded on the O.R Tambo District Municipality website (www.ortambodm.gov.za), at no Cost.

Bids must be completed tenders in black ink, enclosed in a sealed envelope and clearly marked with the “**Project number, project name and description**” must be placed in the tender box, Ground Floor, O. R. Tambo District Municipality Building, Nelson Mandela Drive, Myezo Park, Mthatha, Eastern Cape, not later than **12H00pm on Wednesday, 17 March 2021.**

It must be expressly understood that the Municipality does not accepts responsibility for ensuring that bid submissions sent by courier or post, or delivered in any other way, are deposited in the Tender Box. It is therefore preferable for the bidder to ensure that its bid submission is placed in the Tender Box by its own staff or representative(s).

Bids will be opened at the Ground Floor, O.R. Tambo House, Myezo, Mthatha. The Municipality reserves the right not to accept the only or lowest priced tender or any tender at all, or to accept the whole or part of any tender.

RETURNABLE DOCUMENTS TO BE SUBMITTED WITH THE BID:

- Original or certified copy of BBBEE certificate, or sworn affidavit confirming annual total revenue and level of black ownership, if bidder is an Exempted Micro Enterprise (EME) or Qualified Small Enterprise (QSE);
- Certified copies of business registration documents, as issued by CIPC;
- Certified copy of identity documents of directors/ shareholders/ partners/ members, as the case may be.

INVALID OR NON-SUBMISSION OF THE FOLLOWING RETURNABLE DOCUMENTS WILL DISQUALIFY A BID SUBMISSION:

- CSD supplier number;
- Proof of latest municipal rates and taxes statement indicating that rates and taxes are not in arrears for more than 3 months;
- Proof of registration with CIDB
- Proof of subcontracting at least 30% of the works including Materials & Overheads to any designated enterprises, as stipulated in this document;
- Audited annual financial statements of the bidding entity (for projects in excess of R10 million);
- Unaudited financial statements for close corporations, as required by the close corporation Act (if applicable);
- Joint Venture agreement or consortium (in CIDB format), signed and initialled in each page (where applicable).

PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT NO 5, 2000 (PPPFA) POINTS WILL BE AWARDED AS FOLLOWS: -

THE BIDS WILL BE EVALUATED IN THREE STAGES, NAMELY:

T2.2.4

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

- Stage 1 - Prequalification criteria
- Stage 2 - Functionality
- Stage 3 - Price and BBEE Points

STAGE 1 – PRE-QUALIFICATION CRITERIA

In terms of the Preferential Procurement Policy Framework Act 2000, Preferential Procurement Regulation 2017, pre-qualification criteria for preferential procurement as specified in Regulation 4 will apply.

- (i) an EME or QSE which is at least 51% owned by black people;
- (ii) an EME or QSE which is at least 51% owned by Black people who are youth;
- (iii) an EME or QSE which is at least 51% owned by Black people who are women;
- (iv) an EME or QSE which is at least 51% owned by Black people living in rural or underdeveloped areas or townships;
- (v) a cooperative which is at least 51% owned by black people;
- (vi) an EME or QSE which is at least 51% owned by Black people who are military veterans;
- (vii) an EME or QSE.

Failure to meet the pre-qualification criteria will render a bid non-responsive, and such bid will be disqualified and not proceed to be evaluated further.

Item	Weight
Stage 2 of Evaluation-Functionality	100
• Company's Experience in respect to similar projects done in the last 3 years	40
• Experience and Qualifications of key staff assigned to the contract	30
• Methodology	15
• Availability of key Plant, Equipment & Machinery	15
Stage 3 of Evaluation- Price & B-BBEE	100
• B-BBEE	20
• Price	80

Tenders may only be submitted on tender documentation issued. No late, faxed, e-mailed, or other form of tender will be accepted.

Technical enquiries: Mr. Onele Zembe, 047 501 6499 or email: onelezembe1@gmail.com. All **Supply Chain Management enquiries** may be directed to Mr. S. Hopa, telephone number 047 501 6449 or email: sakhiwoh@ortambodm.gov.za during office hours: Monday to Friday 08H00-13H00 and 13H30-16H30.

T2.2.5

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

Tenders will be evaluated in terms of the Supply Chain Management policy of the O. R. Tambo District Municipality and the lowest tender will not necessarily be accepted and the right to accept the whole or part of any tender or not to consider any tender not suitably endorsed is fully reserved by the O. R. Tambo District Municipality. **An 80/20-point system shall apply**, where **80 points** is for the price and **20 points** is in terms of B-BBEE status level of contributor as follows:

B-BBEE status level of contributor	Number of points
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

Joint Ventures will qualify for points for their BBBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such BBBEE scorecard is prepared for every separate tender.

B. Mase
Acting Municipal Manager

T2.2.6

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

T1.2 TENDER DATA

The conditions of tender are the **Standard Conditions of Tender** as contained in this Annexure of the 10 July 2015 edition of the **CIDB Standard for Uniformity in Construction Procurement**. The Standard Conditions of Tender Procurements make several references to the Tender Data for details that apply specifically to the 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.

Please note that the word “Client” is used in this document and referred to as “Employer” in the Standard Conditions of Tender document.

Clause Number	
F.1	General
F.1.1	The Client is: O. R. Tambo District Municipality Private Bag x 6043 Mthatha 5100
F.1.2	The Tender documents issued by the Client comprise: Tender T1.1 Tender Notice and invitation to tender T1.2 Tender Data T2.1 List of Returnable Documents T2.2 Returnable Documents for tender evaluation purposes T2.3 Returnable Documents to be incorporated into the contract Contract Part 1 : Agreements and Contract data C1.1 Forms of Offer and Acceptance C1.2 Contract Data C1.3 Occupational health and safety specification C1.4 O.R. Tambo District Municipality’s Health and Safety Specification Part 2 : Pricing Data C2.1 Pricing Instructions C2.2 Bill of Quantities Part 3 : Scope of Work C3.1 Description of the Works C3.2 Applicable Standardised Specifications C3.3 Variations and Additions to the Standardised and Particular Specifications C3.5 Particular Specification Health and Safety C3.6 Particular Specification Environmental Management Plan C3.7 HIV/AIDS Specification C3.8 Contractors Report Part 4 : Site Information C4 Site information Part 5: Additional Relevant Documents Part 6: Contract Drawings

Contractor

Witness 1

Witness 2

T2.2.7

Employer

Witness 1

Witness 2

F1.3 F.1.3.1	Interpretation The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these tender conditions.
F.1.3.2	These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.
F.1.4	Communication: Communication with all stakeholders shall be through the O. R. Tambo Municipality's District Project Managers, Technical Manager & The PSP's. All communication shall be in the English language. The Employer shall not take any responsibility for non-receipt of communications from or by a tenderer.
	Contact person: Mr. Onele Zembe Tel: 047 501 6499
F.1.5 F.1.5.1	Cancellation and Re-Invitation of Tenders An organ of state may, prior to the award of the tender, cancel a tender if- (a) Due to changed circumstances, there is no longer a need for the services, works or goods requested; or (b) Funds are no longer available to cover the total envisaged expenditure; or (c) No acceptable tenders are received.
F.1.5.2	The decision to cancel a tender must be published in the cidb website and in the government Tender Bulletin for the media in which the original tender invitation was advertised.
F.1.6	Procurement procedures
F.1.6.1	A contract will, subject to F.3.13, be concluded with the tenderer who in terms of F.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.
F.2	Tenderer's obligations
F.2.1.1	Eligibility Only those tenders who are registered with CIDB and have in their employ management and supervisory staff satisfying the requirement of the scope of work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.
F.2.1.2	CIDB Grading The required CIDB grading for this project is 7GB or higher .
F.2.2	Cost of tendering Accept that the Employer will not compensate the tenderers 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 satisfy requirements.
F.2.3	Check documents Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.
F.2.4	Confidentiality and copyright Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.
F.2.5	Reference documents Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.
F2.6	Acknowledge Addenda Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary, apply for an extension of the closing time stated in the tender data, in order to take the addenda into account.
F.2.7	Tenderers must be represented at the clarification meeting by a person who is suitably qualified and Experienced to comprehend the implications of the work involved. The tenderer's representative must sign the attendance register in the name of the tendering

Contractor

Witness 1

Witness 2

T2.2.8

Employer

Witness 1

Witness 2

	entity and ensure that they have obtained the site inspection certificate. The arrangements for a Virtual clarification meeting are:
	Date: 24 February 2021 Location: Online Starting time: 11H00am
F.2.8	Seek clarification Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data.
F2.10	Pricing the tender
F.2.10.1	Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.
F.2.10.2	Show VAT payable by the employer separately as an addition to the tendered total of the prices.
F.2.10.3	Provide rates and prices that are fixed for the duration of the Contract, and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.
F.2.10.4	State the rates and prices in South African Rand
F2.11	Alterations to documents 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. Erasures and the use of masking fluid are prohibited.
F.2.12	Alternative tender offers Alternative offers may be submitted only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. The alternative tender offer is to be submitted with the main tender offer together with a schedule that compares the requirements of the tender documents with the alternative requirements the tenderer proposes.
F.2.13.5	The Client's address for delivery of Tender offers and identification details to be shown on each Tender offer package are: Location of Tender box: Tender Box, Ground Floor, O. R. Tambo District Municipality Building, Nelson Mandela Drive, Myezo Park, Mthatha, Eastern Cape. Physical address: O. R. Tambo House, Nelson Mandela Drive, Mthatha
F.2.14	Information and data to be completed in all respects Accept that tender offers, which do not provide all the data or information requested completely and, in the form, required, may be regarded by the employer as non-responsive.
F.2.15	Closing time The closing times for submission of Tenders are 12:00 pm, Wednesday, 17 March 2021
F.2.15	Telephonic, telegraphic, telex, facsimile or e-mailed Bid offers will not be accepted.
F.2.16	Tender offer validity The Tender offer validity period is 90 Days as stated in the tender data.
F.2.17	Clarification of tender offer after submission The tenderer shall provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.
F.2.18	Provide other material The tenderer shall, when requested by the Employer to do so, Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

Contractor

Witness 1

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T2.2.9

Employer

Witness 1

Witness 2

F.2.20	Submission of: Securities, Constructions Guarantees, etc Submit to the employer before formation of the contract, valid certificates of insurances, securities required in terms of the conditions of contract, identified in the contract data.
F.2.23	The tenderer is required to submit with his tender: (1) an original Tax Verification Pin issued by the South African Revenue Services; and (2) Certified copy of the original of all the Companies / CC Registration documents. (3) Joint Venture Agreement where applicable in CIDB format (signed and initialed on each page). (4) Proof of registration with CIDB (5) Certified copies of the original green bar-coded ID copies of Members of the companies.
F.3	The employer's undertakings
F.3.1	Respond to requests from the tenderer
F.3.1.1	Respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.
F.3.2	Issue Addenda If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until seven days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents.
F.3.4	Opening of tender submissions
F.3.4.1	The employer shall open valid tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.
F.3.4.2	Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each tenderer whose tender offer is opened and, where applicable, the total of his prices, preferences claimed and time for completion for the main tender offer only.
F.3.4.3	The client shall not be obliged to make available the record outlined in F.3.4.2 to any tenderer who fail to attend the tender opening.
F.3.6	Non-disclosure The client shall not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.
F.3.7	Grounds for rejection and disqualification Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.
F3.9	Arithmetical errors, omissions and discrepancies
F.3.9.1	Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.
F.3.9.2	Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with F.3.11 for: a) the gross misplacement of the decimal point in any unit rate; b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in: i) Line item totals resulting from the product of a unit rate and a quantity in the bills of quantities or ii) The summation of the prices.
F.3.9.3	Notify the tenderer of all errors or omissions that are identified in the tender offer and invite the tenderer to either confirm the tender offer as tendered or accept the corrected total of prices.
F.3.9.4	Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows: a) If the bill of quantities applies and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern, and the rate shall be

Contractor

Witness 1

Witness 2

T2.2.10

Employer

Witness 1

Witness 2

	<p>corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.</p> <p>b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern, and the tenderer will be asked to revise selected item prices (and their rates if the bill of quantities apply) to achieve the tendered total of the prices.</p>
F.3.10	<p>Clarification of a tender offer Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.</p>
F3.11	<p>Evaluation of tender offers</p> <p><i>Replace the contents of the entire sub-clause with the following:</i></p> <p>The procedure for evaluation of responsive tender offers will be method 2 of table F.1 of SANS 294: 2004. Financial offer & Preferences. The bid will be awarded to the bidder who has scored the highest points for price and preferences combined BUT the prerequisite will be to obtain at least 60 points for quality (functionality), which will be explained in Stage 1 below.</p> <p>Nevertheless, O. R. Tambo District Municipality retains the right to accept any bid.</p> <p>C. First stage in evaluation: Compliance with Bid Rules and other Requirements The bids will be checked to ensure that they comply with the bid rules and all other requirements of the project document. In particular the following documentation must be completed and/or included within the bid.</p> <ul style="list-style-type: none"> • The form of Offer and acceptance • Audited financial statements for any tender price over R10 million • Certified company registration documents and ID of members • Form C: Compulsory Enterprise Questionnaire • Form D: Certificate of Authority for Signature • Form E: Amendments, Qualifications and Alternatives • Form H: Certificate of Good Standing • Form I: Relevant experience • Form J: Details of key staff and CVs • Form M: Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2017 <p>Note:</p> <ul style="list-style-type: none"> • All information supporting the above forms such as Curricula Vitae (CV's), with Certified Copies of Qualifications for Staff Members who will be working on the project and their functions, details of ownership, relevant building experience etc. In other words, the company's portfolio. • Addenda issued during the bid period, if any. • Pricing of the Bill of Quantities with Black Ink. <p><i>Failure to supply the required information will compromise the bid & will lead to disqualification</i></p> <p>D. Next Stage in Evaluation: Pre-qualification; Quality / Functionality; Price & BBBEE Status Level</p> <p>The next state in the evaluation process will consist of three stages, as follows:</p>
	<p>STAGE 1: PRE-QUALIFICATION CRITERIA</p> <p>In terms of the Preferential Procurement Policy Framework Act 2000, Preferential Procurement Regulation 2017, pre-qualification criteria for preferential procurement as specified in Regulation 4 will apply. Tenderers must comply with the requirement to subcontract a minimum 30% of these works to either of the following enterprises:</p> <ul style="list-style-type: none"> (i) an EME or QSE which is at least 51% owned by black people; (ii) an EME or QSE which is at least 51% owned by Black people who are youth; (iii) an EME or QSE which is at least 51% owned by Black people who are women;

T2.2.11

Contractor

Witness 1

Witness 2

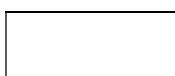
Employer

Witness 1

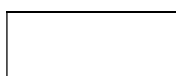
Witness 2

	<p>(iv) an EME or QSE which is at least 51% owned by Black people living in rural or underdeveloped areas or townships;</p> <p>(v) a cooperative which is at least 51% owned by black people;</p> <p>(vi) an EME or QSE which is at least 51% owned by Black people who are military veterans;</p> <p>(vii) an EME or QSE.</p> <p>Failure to meet the pre-qualification criteria will render a bid non-responsive, and such bid will be disqualified and not proceed to be evaluated further.</p> <p>STAGE 2: FUNCTIONALITY/QUALITY EVALUATION</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">ITEM</th> <th style="text-align: center;">WEIGHT</th> </tr> </thead> <tbody> <tr> <td>Functionality (see detailed criteria below)</td> <td style="text-align: center;">100</td> </tr> <tr> <td>• Experience with respect to similar projects</td> <td style="text-align: center;">40</td> </tr> <tr> <td>• Experience & Qualifications of key staff assigned to the contract</td> <td style="text-align: center;">30</td> </tr> <tr> <td>• Methodology</td> <td style="text-align: center;">15</td> </tr> <tr> <td>• Availability of key Plant, Equipment & Machinery</td> <td style="text-align: center;">15</td> </tr> </tbody> </table> <p>Only bidders who score 60 points or more on stage 1 will be evaluated further and therefore eligible for award.</p> <p>The maximum score for functionality shall be 100, distributed as follows: Tender functionality / quality claimed</p>	ITEM	WEIGHT	Functionality (see detailed criteria below)	100	• Experience with respect to similar projects	40	• Experience & Qualifications of key staff assigned to the contract	30	• Methodology	15	• Availability of key Plant, Equipment & Machinery	15	
ITEM	WEIGHT													
Functionality (see detailed criteria below)	100													
• Experience with respect to similar projects	40													
• Experience & Qualifications of key staff assigned to the contract	30													
• Methodology	15													
• Availability of key Plant, Equipment & Machinery	15													
	Category of Quality / Functionality	Maximum tender evaluation points provided												
B1.1	Experience on similar projects	40												
	Tenderer has completed at least Building Construction Projects whose contract value is at least R 50 Million. Copies of Certificate of Completion MUST be submitted with the bid. No points will be awarded where Certificates of Completion have not been submitted with the Bid.	40												
	Tenderer has completed at least Building Construction Projects whose contract value is at least R40 Million. Copies of Certificate of Completion MUST be submitted with the bid. No points will be awarded where Certificates of Completion have not been submitted with the Bid.	20												
	Tenderer has completed at least Building Construction Projects whose contract value is at least R30 Million. Copies of Certificate of Completion MUST be submitted with the bid. No points will be awarded where Certificates of Completion have not been submitted with the Bid.	10												
	No previous (Built Environment) Building Construction Projects completed	0												
B1.2	<i>Experience of key personnel</i> NB: (No key personnel member may be assigned more than one duty on the Contract) i.e. different personnel must be assigned for each of the following key positions) Contracts Manager = ND Building/Civil Engineering, Site Agent/ Foreman = N6 Building/Civil Engineering, Health & Safety Officer = N6 + OHS Accredited Certificate/ Courses.	30												
	Previous experience in the Built Environment with a minimum of 10 years; Contracts Manager = 12 points, 4-6 years = 10 points & 0-3 years = 8 points.	12												
	Previous experience in the Built Environment (Building Construction) with a minimum of 10 years; Site Agent / Foreman = 10 points, 4-6 years = 8 points & 0-3 years = 6 points.	10												
	Previous experience in the Built Environment (Building Construction) with a	8												

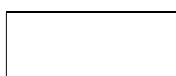
T2.2.12



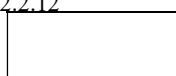
Contractor



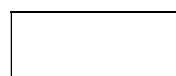
Witness 1



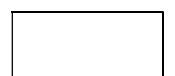
Witness 2



Employer



Witness 1



Witness 2

	minimum of 5 years; Health & Safety Officer = 8 points, 3 years = 6 points & 1 year = 4 points.			
	Contractor failed to provide evidence of qualification and experience.be attached).	0		
B1.3	Methodology	15		
	Presentative methodology approach with Works Programme and Cash-flow Projections	15		
	Presentative method approach with works programme	10		
	Presentative method approach	5		
	Bidder has submitted no method statement or cash flows and works programme	0		
B1.4	Availability of key Plant, Equipment & Machinery Points will be only be awarded for the mentioned machinery, proof of registration with the traffic authority to be submitted. Note irrelevant machinery to the project will not be considered. For hire, a signed confirmation letter from service provider to be submitted.	15		
	Bidders who own 3 (Three) of the machinery required for the execution of the contract or have a written agreement with the plant hire to supply all the required machinery; namely, Excavator / TLB, Tipper Truck, and compaction equipment) made available for the project.	15		
	Bidders who own 2(Two) of the machinery required for the execution of the contract or have a written agreement with the plant hire to supply two (2) of the required machinery; namely, Excavator / TLB, Tipper Truck and compaction equipment) made available for the project. machinery; namely, Excavator, TLB, Tipper Truck or compaction equipment) made available for the project.	10		
	Bidders who own 1 (One) of the machinery required for the execution of the contract or have a written agreement with the plant hire to supply one (1) of the required machinery; namely, Excavator / TLB, Tipper Truck or compaction equipment) made available for the project.	5		
<p>STAGE 3: EVALUATION FOR PRICE AND PREFERENCE (80/20) The procedure for Stage 2 of evaluation of responsive tenders is Method 2</p> <p>a) PRICE: 80</p> <p>a) B-BBEE STATUS LEVEL OF CONTRIBUTION: 20</p> <p>Points Awarded for Price (Ps)</p> <p>A total of 80 points will be awarded to the Tenderer with the lowest balanced price. The other tenders will be awarded points on the ratio to bench mark price as follows:</p> $P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$ <p>Where</p> <p>Ps = Points scored for price of bid under consideration Pt = Rand value of bid under consideration Pmin = Rand value of lowest acceptable bid</p> <p>b) Points awarded for B-BBEE Status Level of Contribution In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="width: 50%;">B-BBEE Status Level of Contributor</th> <th style="width: 50%;">Number of points (80/20 system)</th> </tr> </thead> </table>			B-BBEE Status Level of Contributor	Number of points (80/20 system)
B-BBEE Status Level of Contributor	Number of points (80/20 system)			

T2.2.13

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

		1	20
		2	18
		3	14
		4	12
		5	8
		6	6
		7	4
		8	2
		Non-compliant Contributor	0
The total calculated points will be rounded to the second decimal place.			
F.3.13	Acceptance of tender offer		
F.3.13.1	Accept the tender offer, if in the opinion of the employer, it does not present any unacceptable commercial risk and only if the tenderer: <ul style="list-style-type: none"> a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement, b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract, c) has the legal capacity to enter into the contract, d) is not insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing, e) complies with the legal requirements, if any, stated in the tender data, and f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest. 		
	Notify the successful tenderer of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data, or agreed additional period. Providing the form of offer and acceptance does not contain any qualifying statements, it will constitute the formation of a contract between the employer and the successful tenderer as described in the form of offer and acceptance.		
F.3.14	Notice to unsuccessful tenderers After the successful tenderer has acknowledged the employer's notice of acceptance, after written request, the employer will notify the tenderers that their tender offers have not been accepted in O.R Tambo District Municipality's website: www.ortambodm.org.za by listing the successful tender.		
F.3.15	Prepare contract documents If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of: <ul style="list-style-type: none"> a) addenda issued during the tender period, b) inclusion of some of the returnable documents, c) other revisions agreed between the employer and the successful tenderer, and d) The schedule of deviations attached to the form of offer and acceptance, if any. 		
F.3.16	Issue final contract Prepare and issue the final draft of the contract to the successful tenderer for acceptance as soon as possible after the date of the employer's signing of the form of offer and acceptance (including the schedule of deviations, if any).		

T2.2.14

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.1 LIST OF RETURNABLE DOCUMENTS

The Tenderer must complete the following returnable documents:

T2.2 Returnable Documents required for Tender evaluation purposes		
1	Form 2.2.1	General Information of the Tenderer
2	Form 2.2.2	Authority for Signatory
3	Form 2.2.3	Schedule of Previous Experience
4	Form 2.2.4	Schedule of Current Projects
5	Form 2.2.5	Declaration of good standing regarding tax
6	Form 2.2.6	Certificate of Attendance at Site Meeting
7	Form 2.2.7	Proposed Key Personnel
8	Form 2.2.8	Schedule Equipment to be used
9	Form 2.2.9	Schedule of Proposed Sub-Contractors
10	Form 2.2.10	Financial References

T2.3 Returnable Documents that will be incorporated into the contract		
1	Form 2.3.1	Record of Addenda to Tender Documents
2	Form 2.3.2	Procurement Form

Contractor

Witness 1

Witness 2

T2.2.15

Employer

Witness 1

Witness 2

T2.2 RETURNABLE DOCUMENTS

RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

- Form 2.2.1 General Information of Tenderer
- Form 2.2.2 Authority of Signatory
- Form 2.2.3 Schedule of Previous Experience
- Form 2.2.4 Schedule of Current Projects
- Form 2.2.5 Declaration of good standing regarding tax
- Form 2.2.6 Registration on the Central Supplier Database
- Form 2.2.7 Certificate of Attendance at Site Meeting
- Form 2.2.8 Proposed Key Personnel
- Form 2.2.9 Schedule of Proposed Sub-consultants
- Form 2.2.10 Financial References
- Form 2.2.11 Declaration of interest

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Contractor

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Witness 1

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Witness 2

T2.2.16

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Employer

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Witness 1

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Witness 2

FORM 2.2.1 GENERAL INFORMATION OF TENDERER

1. **Name of Tenderer:**

2. **Contact details**
 Address :

- Tel no :

- Fax no :

- Cell no :

- E-mail address:

3. **Legal entity: Mark with an X.**

Sole proprietor	
Partnership	
Close corporation	
Company (Pty) Ltd	
Joint venture	

In the case of a Joint venture, provide details on joint venture members:

Joint venture member	Type of entity (as defined above)

4. **Income Tax Reference Number:**

- (In case of a Joint Venture, provide for all joint venture members)
5. **Municipal services area where the enterprise is registered:**

- (In case of a Joint Venture, provide for all Joint Venture Members)
6. **Company / close corporation Registration Number:**

- (in case of a joint venture, provide for all joint venture members)
7. **VAT Registration number:**

- (in case of a joint venture, provide for all joint venture members)
8. **CIDB registration number:**

- (in case of a joint venture, provide for all joint venture members)

ATTACH THE FOLLOWING DOCUMENTS HERETO

1. For Closed Corporations
Certified copies of CK1 or CK2 as applicable (Founding Statement)
2. For Companies
Certified copies of Shareholders register
3. ID copies
Certified ID Copies for members
4. CIDB registration
Proof of registration with CIDB
5. CSD registration
Proof of registration with Central Supplier Database
6. For Joint Venture Agreements
Copy of the Joint Venture Agreement between all the parties, as well as the certified documents in (1), and or (2) and (4) and (4) of each Joint Venture member.
7. Copy of the latest municipal service account where enterprise is registered
8. Central Supplier Database Summary Report

Contractor

Witness 1

Witness 2

T2.2.18

Employer

Witness 1

Witness 2

FORM 2.2.2 AUTHORITY OF SIGNATORY

Details of person responsible for tender process:

Name :

Contact number :

Office address :

Signatories for close corporations and companies shall confirm their authority by attaching to this form a **duly signed and dated original or certified copy** of the relevant resolution of their members or their board of directors, as the case may be.

"By resolution of the board of directors passed on (date).....

Mr

has been duly authorized to sign all documents in connection with the Tender for Contract

Numberand any Contract which may arise

there from on behalf of

(BLOCK CAPTIALS)

SIGNED ON BEHALF OF THE COMPANY

IN HIS CAPACITY AS

DATE

FULL NAMES OF SIGNATORY

AS WITNESSES: 1.

2.

Contractor

Witness 1

Witness 2

T2.2.19

Employer

Witness 1

Witness 2

FORM 2.2.2 CERTIFICATE OF AUTHORITY FOR JOINT VENTURES

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms , authorised signatory of the company , acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORIZED SIGNATORY
Lead partner CIDB registration no		Signature. Name..... Designation.....
CIDB registration no		Signature. Name..... Designation.....
CIDB registration no		Signature:..... Name:..... Designation.....
CIDB registration no		Signature:..... Name Designation.....

T2.2.20

Contractor

Witness 1


Witness 2


Employer


Witness 1

Witness 2

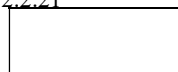
**ATTACH HERETO THE DULY SIGNED AND DATED
ORIGINAL OR CERTIFIED COPY OF AUTHORITY OF
SIGNATORY ON COMPANY LETTERHEAD**



Contractor



Witness 1


Witness 2

T2.2.21


Employer


Witness 1


Witness 2

FORM 2.2.3 SCHEDULE OF PREVIOUS EXPERIENCE

Provide the following information on relevant previous experience (indicate specifically projects of similar or larger size and/or which is similar with regard to type of work). **(OPERATION AND MAINTENANCE PROJECTS)**.

Description	Value (R) VAT excluded	Year(s) work executed	Reference		
			Name	Organisation	Tel no

Name of Tenderer: Date:

Signature:

Full name of signatory:

Contractor

Witness 1

Witness 2

T2.2.22

Employer

Witness 1

Witness 2

FORM 2.2.4 SCHEDULE OF CURRENT PROJECTS

Provide the following information on current relevant projects. **This information is material to the award of the Contract.**

Description	Value (R) VAT excluded	Date Appointed	Reference		
			Name	Organisation	Tel no

Name of Tenderer:..... Date:

Signature :.....

Full name of signatory:.....

T2.2.23

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

FORM 2.2.5 DECLARATION OF GOOD STANDING REGARDING TAX

SOUTH AFRICAN REVENUE SERVICES	Tender No:																				
	Closing Date:																				
DECLARATION OF GOOD STANDING REGARDING TAX																					
PARTICULARS																					
1. Name of Taxpayer/Tenderer:																					
2. Trade Name:																					
3. Identification Number: (If applicable)	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
4. Company / Close Corporation registration number:	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
5. Income Tax reference number:	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
6. VAT registration number: (If applicable)	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
7. PAYE employer's registration number: (If applicable)	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
8. Monetary value of Bid:	<table border="1" style="width: 100%; height: 15px;"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>																				
DECLARATION																					
<p>I, the undersigned, the above taxpayer/Bidder, hereby declare that my Income Tax, Pay-As-You-Earn (PAYE) and Value-Added-Tax (VAT) obligations of the above-mentioned taxpayer, which include the rendition of returns and payment of the relevant taxes:</p> <p>(i) Have been satisfied in terms of the relevant Acts; or</p> <p>(ii) That suitable arrangements have been made with the Receiver of Revenue, to satisfy them.*</p>																					
..... SIGNATURE CAPACITY DATE																			
<p>PLEASE NOTE:* The declaration (ii) cannot be made unless formal arrangements have been made with the Receiver of Revenue with regard to any outstanding revenue/outstanding tax returns.</p>																					

T2.2.24

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

ATTACH ORIGINAL
VALID TAX VERIFICATION PIN

Contractor

Witness 1

Witness 2

T2.2.25

Employer

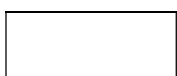
Witness 1

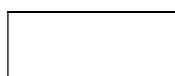
Witness 2

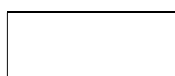
FORM 2.2.6 REGISTRATION ON THE CENTRAL SUPPLIER DATABASE

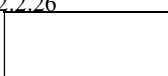
Attach proof of registration with the Central Supplier Database. **This information is material to the award of the Contract.**

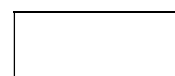
ATTACHED CERTIFICATE PROOF OF REGISTRATION ON THE NATIONAL CENTRAL SUPPLIER DATABASE

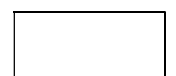

Contractor


Witness 1


Witness 2

T2.2.6

Employer


Witness 1


Witness 2

FORM 2.2.7 CERTIFICATE OF ATTENDANCE AT SITE MEETING

This is to certify that I, (Full Names) duly authorised representative of (Tenderer)

Address:

Date: Visited the site on(date)

in the presence of (Employer's Agent)

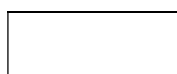
I have made myself familiar with the sites and all the local conditions likely to influence the work and the cost thereof.

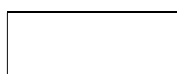
I further certify that I am satisfied with the description of the work and explanations given by the said Engineer and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

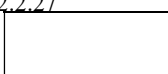
REPRESENTATIVE OF EMPLOYER

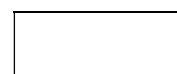
REPRESENTATIVE OF TENDERER

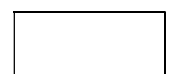

Contractor


Witness 1


Witness 2

T2.2.7

Employer


Witness 1


Witness 2

FORM 2.2.8 PROPOSED KEY PERSONNEL

The Tenderer shall list below the key personnel **(including first nominee and the second-choice alternate) including CV's**, whom he proposes to employ on the project should his Tender be accepted, both at his headquarters and on the Site, to direct and for the execution of the work, together with their qualifications, experience, positions held and their nationalities.

No	Name	Qualification	Designation	YEARS WITH CURRENT COMPANY

Name of Tenderer:.....

Date: **Signature:**

Full name of signatory:

T2.2.8

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

FORM 2.2.9 SCHEDULE OF PROPOSED SUB-CONTRACTORS

NAME OF SUB-CONTRACTOR	FULL DESCRIPTION OF WORK TO BE PERFORMED BY SUB- CONTRACTORS

NB: It is a Condition of Contract that a minimum of 30% of the construction work shall be subcontracted to QSEs and EMEs as contemplated in the ‘The Broad-Based Black Economic Empowerment Act (No. 53 of 2003) as amended by B-BBEE Act 46 of 2013 (The Act)’. The Contractor shall take all reasonable and practical measures to support, mentor, train, upskill and supervise such subcontractors as envisaged in the Strategic Objectives of the Amended Construction Sector Code.

Acceptance of this tender shall not be construed as approval of all or any of the listed subcontractors. Should any of the subcontractors not be approved subsequent to acceptance of the tender, this shall in no way invalidate this tender, and the tendered unit rates for the various items of work shall remain final and binding, even in the event of a subcontractor not listed above being approved by the Engineer.

Name of Tenderer: **Date:**

Signature:

Full name of signatory:

FORM 2.2.10 FINANCIAL REFERENCES

FINANCIAL STATEMENTS

I/We agree to furnish an audited copy of the latest set of financial statements together with my/our Directors' and Auditors' report for consideration by the Client.

DETAILS OF TENDERERS BANKING INFORMATION

I/We hereby authorise the Client/Engineer to approach all or any of the following banks for the purposes of obtaining a financial reference:

BANK NAME:			
ACCOUNT NAME: <i>(e.g. ABC Construction cc)</i>			
ACCOUNT TYPE: <i>(e.g. Savings, Cheque etc)</i>			
ACCOUNT NO:			
ADDRESS OF BANK:			
CONTACT PERSON:			
TEL. NO. OF BANK / CONTACT:			
How long has this account been in existence:	0-6 months	<input type="checkbox"/>	(Tick which is appropriate)
	7-12 months	<input type="checkbox"/>	
	13-24 months	<input type="checkbox"/>	
	More than 24 months	<input type="checkbox"/>	
		<input type="checkbox"/>	

Name of Tenderer:.....Date:

Signature :.....

Full name of signatory:.....

T2.2.30

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

**ATTACH AUDITED
FINANCIAL STATEMENTS**

Contractor

Witness 1

Witness 2

T2.2.31

Employer

Witness 1

Witness 2

FORM 2.2.11 MUNICIPAL BIDDING DOCUMENTS

MBD 1

**PART A
INVITATION TO BID**

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF O.R. TAMBO DISTRICT MUNICIPALITY

BID NUMBER:	ORTDM SCMU 36-20/21	CLOSING DATE:	17 March 2021	CLOSING TIME:	12H00PM
DESCRIPTION:	CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT CENTRE				

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT:

TENDER BOX, GROUND FLOOR, O.R. TAMBO DISTRICT MUNICIPALITY BUILDING

NELSON MANDELA DRIVE

MYEZO PARK , MTHATHA, EASTERN CAPE

SUPPLIER INFORMATION

NAME OF BIDDER			
POSTAL ADDRESS			
STREET ADDRESS			
TELEPHONE NUMBER	CODE	NUMBER	
CELLPHONE NUMBER			
FACSIMILE NUMBER	CODE	NUMBER	
E-MAIL ADDRESS			
VAT REGISTRATION NUMBER			
TAX COMPLIANCE STATUS	TCS PIN:	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	<input type="checkbox"/> Yes <input type="checkbox"/> No	B-BBEE STATUS LEVEL SWORN AFFIDAVIT	<input type="checkbox"/> Yes <input type="checkbox"/> No

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]

ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER PART B:3]
--	--	---	--

TOTAL NUMBER OF ITEMS OFFERED	TOTAL BID PRICE	R
--------------------------------------	------------------------	----------

SIGNATURE OF BIDDER	DATE
----------------------------	-------------

CAPACITY UNDER WHICH THIS BID IS SIGNED

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT	SCM DEPARTMENT	CONTACT PERSON	MR. O. Zembe
CONTACT PERSON	MR. SAKHIWO HOPA	TELEPHONE NUMBER	047 501 6499
TELEPHONE NUMBER	047 501 6448/6449	FACSIMILE NUMBER	N/A
FACSIMILE NUMBER	N/A	E-MAIL ADDRESS	onelezembe1@gmail.com
E-MAIL ADDRESS	sakhiwoh@ortambodm.gov.za		

[Signature Box]
Contractor

[Signature Box]
Witness 1

[Signature Box]
Witness 2

T2.2.32

[Signature Box]
Employer

[Signature Box]
Witness 1

[Signature Box]
Witness 2

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:
<p>1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.</p> <p>1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED– (NOT TO BE RE-TYPED).</p> <p>1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.</p>
2. TAX COMPLIANCE REQUIREMENTS
<p>2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.</p> <p>2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VIEW THE TAXPAYER’S PROFILE AND TAX STATUS.</p> <p>2.3 APPLICATION FOR THE TAX COMPLIANCE STATUS (TCS) CERTIFICATE OR PIN MAY ALSO BE MADE VIA E-FILING. IN ORDER TO USE THIS PROVISION, TAXPAYERS WILL NEED TO REGISTER WITH SARS AS E-FILERS THROUGH THE WEBSITE WWW.SARS.GOV.ZA.</p> <p>2.4 FOREIGN SUPPLIERS MUST COMPLETE THE PRE-AWARD QUESTIONNAIRE IN PART B:3.</p> <p>2.5 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.</p> <p>2.6 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.</p> <p>2.7 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.</p>
3. QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS
<p>3.1. IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>3.2. DOES THE ENTITY HAVE A BRANCH IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>3.3. DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>3.4. DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>3.5. IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? <input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>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 ABOVE.</p>

NB: FAILURE TO PROVIDE ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID. NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

DATE:

T2.2.33

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

DECLARATION OF INTEREST

- 1. No bid will be accepted from persons in the service of the state¹.
- 2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
- 3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Full Name of bidder or his or her representative:

.....

3.2 Identity Number:

.....

3.3 Position occupied in the Company (director, trustee, shareholder²):

.....

3.4 Company Registration Number.....

3.5 Tax Reference Number:

3.6 VAT Registration Number:

3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.

3.8 Are you presently in the service of the state?..... **YES / NO**

3.8.1 If yes, furnish particular.....

.....

¹ MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
 - I. any municipal council;
 - II. any provincial legislature; or
 - III. the national Assembly or the national Council of provinces;

T2.2.34

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or
- (f) an employee of Parliament or a provincial legislature.

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

3.9 Have you been in the service of the state for the past twelve months?
YES / NO

3.9.1 If yes, furnish particulars.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?**YES / NO**

3.10.1 If yes, furnish particulars

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid..... **YES / NO**

3.11.1 If yes, furnish particulars.....

3.12 Are any of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state **YES / NO**

3.12.1 If yes, furnish particular

3.13 Are any spouse, child or parent of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state?..... **YES / NO**

3.13.1 If yes, furnish particulars.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies

T2.2.35

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire:

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
1.	Are you by law required to prepare annual financial statements?		
1.1	If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the last 3 years.		

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
2.	Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than 3 months or any other service provider in respect of which payment is overdue for more than 30 days?		
2.1	If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than 3 months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If yes, provide details:		

Contractor

Witness 1

Witness 2

T2.2.37

Employer

Witness 1

Witness 2

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
3.	Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?		
3.1	If yes, provide details:		

NO.	QUESTION	ANSWER (TICK WHICH RESPONSE IS APPLICABLE)	
		YES	NO
4.	Will any portion of the goods of services be sourced from outside the Republic, and if so, what portion, and whether any portion of payment from the municipality is expected to be transferred outside of the Republic?		
4.1	If yes, provide details:		

Contractor

Witness 1

Witness 2

T2.2.38

Employer

Witness 1

Witness 2

CERTIFICATION

I, THE UNDERSIGNED (NAME)

.....
CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION
FORM IS CORRECT.

I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS THIS
DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Contractor

Witness 1

Witness 2

T2.2.39

Employer

Witness 1

Witness 2

DECLARATION OF BIDDER'S PT SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public
 - d. sector contract during the past five years; or
 - e. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

Item	Question	Yes	No
4.1	<p>Is the bidder or any of its directors listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this Database were informed in writing of this restriction by the Accounting Officer/Authority of the institution that imposed the restriction after the <i>audi alteram partem</i> rule was applied).</p> <p>The Database of Restricted Suppliers now resides on the National Treasury's website (www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	<p>Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.</p>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		

T2.2.40

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		
Item	Question	Yes	No
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality/municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)
 CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION
 FORM TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT,
 ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE
 TO BE FALSE.

.....
 Signature

.....
 Date

.....
 Position

.....
 Name of Bidder

Contractor

Witness 1

Witness 2

T2.2.41

 Employer

Witness 1

Witness 2

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Municipal Bidding Document (MBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
 - a. Take all reasonable steps to prevent such abuse;
 - b. Reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
 - c. Cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

¹Includes price quotations, advertised competitive bids, limited bids and proposals.

²Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

Contractor

Witness 1

Witness 2

T2.2.42

Employer

Witness 1

Witness 2

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid: **PROJECT NO.: ORTDM SCMU 36 – 20/21: CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT CENTRE** in response to the invitation for the bid made by: **O.R. TAMBO DISTRICT MUNICIPALITY** do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read, and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word “competitor” shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. 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.

Contractor

Witness 1

Witness 2

T2.2.43

Employer

Witness 1

Witness 2

³ *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.*

10. 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 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.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Contractor

Witness 1

Witness 2

T2.2.44

Employer

Witness 1

Witness 2

T2.3 RETURNABLE DOCUMENTS

RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

NB: RETURN ALL TENDER DOCUMENTS

- Form 2.3.1 Record of Addenda to Tender Documents
- Form 2.3.2 Procurement Form

Contractor

Witness 1

Witness 2

T2.2.45

Employer

Witness 1

Witness 2

FORM 2.3.1 RECORD OF ADDENDA TO TENDER DOCUMENTS

(Addenda received from Employer’s Agent for amendments on Tender Documentation)

	Date	Title or Details
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Name of Tenderer: Date:

Signature :

Full name of signatory:

Contractor

Witness 1

Witness 2

T2.2.46

Employer

Witness 1

Witness 2

FORM 2.3.2 PROCUREMENT FORM

Acceptable Tenders will be evaluated using a system that awards points on the basis of Tender price and the meeting of specific goals.

DEFINITIONS

“Acceptable Tender” means any Tender which, in all respects, complies with the conditions of Tender and specifications as set out in the Tender document, including conditions as specified in the Preferential Procurement Policy Framework Act (Act 5 of 2000) and the Supply Chain Management of Council.

“Council” refers to the OR TAMBO DISTRICT Municipality.

“Equity ownership” refers to the percentage ownership and control, exercised by individuals within an enterprise and they are involved in the day to day running of the Company.

“HDI equity ownership” refers to the percentage of an enterprise, which is owned by individuals, or in the case of a company, the percentage shares that are owned by individuals meeting the requirements of the definition of a HDI.

“Historically disadvantaged individuals (HDIs)” means all South African citizens –

- (i) Who had no franchise in national elections prior to the introduction of the 1983 and 1993 constitutions (Referred to as Previously Disadvantaged Individuals (PDIs) in this document)
- (ii) Women
- (iii) Disabled persons.

“SMME’s” (small, medium and micro enterprises) refers to separate and distinct business entities, including co-operative enterprises and NGOs, managed by one owner or more, as defined in the National Small Business (Act 102 of 1996). Refer to the attached addendum for a definition of SMME’s for different economic sectors.

Tenders are adjudicated in terms of NDM Procurement Policy, and the following framework is provided as a guideline in this regard.

1. Technical adjudication and General Criteria

- Tenders will be adjudicated in terms of inter alia:

Contractor

Witness 1

Witness 2

T2.2.47

Employer

Witness 1

Witness 2

- Compliance with Tender conditions
- Technical specifications

If the Tender does not comply with the Tender conditions, the Tender will be rejected. If technical specifications are not met, the Tender may also be rejected.

With regard to the above, certain actions or errors are unacceptable, and warrants **REJECTION OF THE TENDER**, for example:

- A Tax Verification Pin. (**Only valid tax verification pin** must be attached to the Tender document).
- Pages to be completed, removed from the Tender document, and have therefore not been submitted.
- Failure to complete the schedule of quantities as required
- Scratching out without initialling next to the amended rates or information.
- Writing over / painting out rates / the use of tippex or any erasable ink, eg. Pencil.
- Failure to attend compulsory site inspections
- The Tender has not been properly signed by a party having the authority to do so, according to the **Form 2.2.2 – “Authority for Signatory”**
- No authority for signatory submitted.
- Form of Offer not completed.
- Particulars required in respect of the Tender have not been provided – non-compliance of Tender requirements and/or specifications.
- The Tenderer’s attempts to influence or has in fact influenced the evaluation and/or awarding of the contract.
- The Tender has been submitted after the relevant closing date and time
- Each page of the Contract portion of this Tender document (Part C1 – C4) must be initialled by the authorised person in order for the document to constitute a proper Contract between the Employer (ORTDM) and the undersigned.
- If any municipal rates and taxes or municipal service charges owed by that Tenderer or any of its directors to the municipality, or to any other municipality or municipal entity, are in arrears for more than three months.
- If any Tenderer who during the last five years has failed to perform satisfactorily on a previous contract with the municipality or any other organ of state after written notice was given to that Tenderer that performance was unsatisfactory.

2. Size of enterprise and current workload

T2.2.48

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

Evaluation of the Tenderer's position in terms of:

- Previous and expected current annual turnover
- Current contractual obligations
- Capacity to execute the contract

3. Staffing profile

Evaluation of the Tenderer's position in terms of:

- Staff available for this contract being Tendered for
- Qualifications and experience of key staff to be utilised on this contract

4. Financial ability to execute the contract:

Evaluation of the Tenderer's financial ability to execute the contract. Emphasis will be placed on the following:

- Contact the Tender's bank manager to assess the Tenderer's financial ability to execute the contract and the Tenderer hereby grants his consent for this purpose.

5. Good standing with SA Revenue Services

- Determine whether an original valid tax verification pin has been submitted.
- The Tenderer must affix an original valid Tax Verification Pin to page T2.2.9 of the Tender document.

6. Penalties

The O.R. Tambo District Municipality will if upon investigation it is found that a preference in terms of the Contract has been obtained on a fraudulent basis, or any specified goals are not attained in the performance of the contract, on discretion of the Municipal Manager, one or more of the following penalties will be imposed:

- Cancel the contract and recover all losses or damages incurred or sustained from the Tenderer.
- Impose a financial penalty of twice the theoretical financial preference associated with the claim, which was made in the Tender.
- Restrict the suppliers, its shareholders and directors on obtaining any business from the O.R. Tambo District Municipality for a period of 5 years.

Contractor

Witness 1

Witness 2

T2.2.9

Employer

Witness 1

Witness 2

DECLARATION

I/We the undersigned, who warrants that he/she is duly authorised to do so on behalf of the firm, certifies that the items mentioned in part of the foregoing procurement form and returnable documents qualifies/qualify for the preference(s) shown and acknowledge(s) that:

The information furnished is true and correct.

The contractor may be required to furnish documentary proof to the satisfaction of the OR Tambo District Municipality that the claims are correct.

If the claims are found to be inflated, the OR Tambo District Municipality may, in addition to any other remedy it may have, recover from the contractor all cost, losses or damages incurred or sustained by the OR Tambo District Municipality as a result of the award of the contract and/or cancel the contract and claim any damages which the OR Tambo District Municipality may suffer by having to make less favourable arrangements after such cancellation.

Signature of Tenderer

Signed at _____ on ____ day of _____ 2020

For the tenderer

WITNESSES:

- 1. _____
- 2. _____

C1 AGREEMENTS AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

C1.2 Contract Data

C1.3 Special Condition

C1.4 Occupational Health and Safety Specification

C1.5 Supply Chain Management Policy

Contractor

Witness 1

Witness 2

T2.2.51

Employer

Witness 1

Witness 2

FORM C1.1 FORM OF OFFER AND ACCEPTANCE

FORM OF OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract in respect of the following works: **PROJECT: ORTDM SCMU 36 – 20/21: CONSTRUCTION OF MHLONTLO DISASTER MANAGEMENT CENTRE.**

The Tenderer, identified in the Offer signature block below, 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 authorised, signing this part of this 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 PRICES INCLUSIVE OF VALUE ADDED TAX IS

.....

.....Rand (in words);

R..... (in figures).

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 and address of organisation)

Name & Signature of Witness _____

Name

Date

[]
Contractor

[]
Witness 1

[]
Witness 2

T2.2.52

[]
Employer

[]
Witness 1

[]
Witness 2

ACCEPTANCE

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 Contractor 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 1 Agreements and Contract Data (which includes this Agreement)

Part 2 Pricing Data

Part 3 Scope of Work

Part 4 Site information

Part 5 Additional Relevant Documentation

Part 6 Contract Drawings

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 6 above.

Deviations from and amendments to the documents listed in the Tender Data, including the proposed key personnel and any addenda thereto listed in the Tender 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 Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall within two weeks after 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 bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at or just after the date this Agreement comes into effect. 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 Contractor) within five days of the date of such receipt notifies the Employer in writing of any

Contractor

Witness 1

Witness 2

T2.2.53

Employer

Witness 1

Witness 2

reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract between the parties.

Signature(s) _____

Name(s) _____

Capacity _____

For the tenderer _____

(Name and address of organisation)

Name & Signature

Of Witness _____

Name

Date

Contractor

Witness 1

Witness 2

T2.2.54

Employer

Witness 1

Witness 2

SCHEDULE OF DEVIATIONS

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
2. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid becomes the subject of agreements reached during the process of Offer and Acceptance; the outcome of such agreement shall be recorded here.
3. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract, shall also be recorded here.
4. Any change or addition to the tender documents arising from the above agreements and recorded here shall also be incorporated into the final draft of the Contract.

1 Subject

Details

2 Subject

Details

3 Subject

Details

4 Subject

Contractor

Witness 1

Witness 2

T2.2.55

Employer

Witness 1

Witness 2

Details

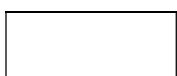
5 Subject

Details

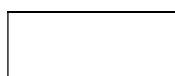
6 Subject

Details

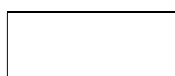
By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change 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.



Contractor

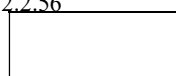


Witness 1

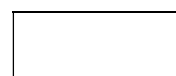


Witness 2

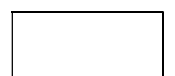
T2.2.56



Employer



Witness 1



Witness 2

FOR THE TENDERER:

Signatures (s)

Name(s)

Capacity

(Name and address of Organisation)

Name & Signature Of Witness _____ Date _____

FOR THE EMPLOYER

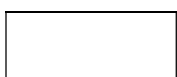
Signature(s): _____

Name(s): _____

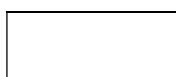
Capacity _____

(Name and address of Organisation)

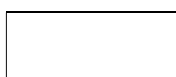
Name & Signature Of Witness _____ Date _____



Contractor

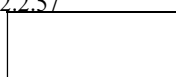


Witness 1

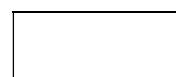


Witness 2

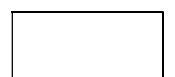
T2.2.57



Employer



Witness 1



Witness 2

FORM C1.2 CONTRACT DATA

**C1.2 : CONTRACT DATA : JBCC 2000 PRINCIPAL BUILDING AGREEMENT
(Edition 4.1 of March 2005)**

Tender No : ORTDM SCMU 36– 20/21

Project title:	Construction of Mhlontlo Disaster Management Centre
Tender No:	ORTDM SCMU 36 – 20/21

	<p>The Conditions of Contract are clauses 1 to 42 of the JBCC series 2000 Principal Building Agreement (Edition 4.1 of March 2005) prepared by the Joint Building Contracts Committee.</p> <p><i>Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors, Master Builders Association, South African Association of Consulting Engineers, South African Institute of Architects, Association of Construction Project Managers, Building Industries Federation South Africa, South African Property Owners Association or Specialist Engineering Contractors Committee.</i></p>
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	<p>SCOPE OF WORKS: Main Administration Building with (Executive Offices, General Offices, Boardrooms with supporting facilities, Storage & Archives Facilities, Fire Station with Sleeping Facilities), Two Guard Houses, Bulk Storage Building, Site works including High Security Fencing. Attached at the back of the Tender Document are Site Layout Drawings.</p>
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	CONTRACT VARIABLES THE SCHEDULE
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42.0	Part 1: Contract Data completed by the Employer
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42.1	CONTRACTING AND OTHER PARTIES
42.1.1	<p>Employer: O.R. TAMBO DISTRICT MUNICIPALITY</p> <p>Physical address: Nelson Mandela Drive Myezo Park Mthatha 5200</p>
[1.2]	

T2.2.58

<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Contractor</i>	<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Witness 1</i>	<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Witness 2</i>	<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Employer</i>	<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Witness 1</i>	<div style="border: 1px solid black; width: 100%; height: 30px; margin-bottom: 5px;"></div> <i>Witness 2</i>
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42.1.2 [1.1, 5.1]	Principal Agent: Beacon Consulting Engineers Agent's service: Structural/Civil Engineers Postal address: 37 Mtamvuna Road Sdwadwa View 5099 Tel: 047 495 0459 Fax:
42.1.3 [1.1, 5.2]	Agent (1) IDC Architects Postal address: 15 Belgravia Rd East london 5214 Tel: 043 743 0522 Fax: 043 743 0534
42.1.4 [1.1, 5.2]	Agent (2) MZL QS GROUP Pty Ltd Agent's service: Quantity Surveyors Postal address: No 18 Mangala Street, Southridge Park Mthatha 5099 Tel: 047-531 0743 Fax: 047-510 0745
42.1.5 [1.1, 5.2]	Agent (3) Vokon Afrika Consulting Engineers Fortgale Mthatha 5099

42.2	CONTRACT DETAILS
42.2.1 [1.1]	Works description: Refer to document C3 - Scope of Work.
42.2.2 [1.1]	Site description: Refer to document C4 - Site Information.
42.2.4 [41.0]	Specific options that are applicable to a State organ only Where so :
[31.1 #] [31.11.2 #] [31.12.2#]	1) Interest rate legislation: (a) in respect of interest owed by the employer , the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of

Contractor

Witness 1

Witness 2

T2.2.59

Employer

Witness 1

Witness 2

<p>[11.2.#]</p> <p>[31.4.2 #]</p> <p>[40.2.2.#]</p> <p>[26.1.2 #]</p>	<p>Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Manager</p> <p>2) Lateral support insurance to be effected by the contractor:</p> <p>3) Interim Payments will be made for work done, materials on site.</p> <p>4) Dispute resolution by mediation; Arbitration then Litigation</p> <p>5) Defect liability period will be applicable to the following elements: Redecoration; Alterations and New Works</p> <p>NB: On Public Government Buildings Latent Defects shall not be less than a minimum of 10 years (Walls; Foundations; Concrete Beams; Columns)</p>
<p>42.2.6</p> <p>[15.3]</p>	<p>Period for the commencement of the works after the contractor takes possession of the site: Ten (10) working days.</p>
<p>42.2.7</p> <p>[24.3.1]</p> <p>[30.1]</p>	<p>For the works as a whole: The date for Practical Completion shall be 24 (Twenty Four) months from the Commencement date and the Penalty per Calendar Day shall be 0.0275/R100.00/Calendar Day of the Contract Amount.</p>
<p>42.2.8</p> <p>[24.3.1]</p> <p>[28.1]</p>	<p>For the works in sections: N/A</p>
<p>42.2.9</p> <p>[1.2]</p>	<p>The law applicable to this agreement shall be that of the: Republic of South Africa</p>
<p>42.3</p>	<p>INSURANCES</p>
<p>42.3.1</p> <p>[10.1 #,</p>	<p>Contract works insurance to be effected by the contractor</p>

Contractor

Witness 1

Witness 2

T2.2.60

Employer

Witness 1

Witness 2

10.2 # 12.1 #]	<input checked="" type="checkbox"/> To the minimum value of the contract sum plus 10% With a deductible not exceeding 5% of each and every claim
42.3.2 [10.1#, 10.2 #, 12.1 #]	Supplementary insurance is required: Yes Lateral Support To the minimum value of the contract sum plus 10 %
42.3.3 [11.1#, 12.1 #]	Public liability insurance to be effected by the contractor <input checked="" type="checkbox"/> For the sum of R 5 million With a deductible not exceeding 5% of each and every claim
42.4	DOCUMENTS
42.4.2 [3.7]	Three (3) copies of the construction documents will be supplied to the contractor free of charge
42.4.3	Bills of quantities / Lump sum document schedule of rates drawn up in accordance with: Standard System of Measuring Building Work (Seventh edition 2015 as amended)
42.4.5 [3.4]	JBCC Engineering General Conditions are to be included in the contract documents: No

42.4.6 [31.5.3] [32.13]	The contract value is to be adjusted using CPAP Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> indices: Where CPAP is applicable, the contract sum will be adjusted in accordance with the JBCC Contract Price Adjustment Provisions (CPAP) as set out in the CPAP Indices Application Manual as prepared by the JBCC Series 2000 , code 2118, dated May 2005 and any amendments thereto: 1) Glass etc. measured in specialist section Metalwork, will be adjusted in terms of the _____ index for that work group unless specifically stated otherwise in the bills of quantities 2) All electrical installations in buildings and power distribution
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T2.2.61

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

systems shall be adjusted in terms of the index for Work Group 160 Electrical Installation. In case of uninterruptible power supplies, elevators, escalators and hoists, generating sets, motor-alternator sets and intercommunication systems shall be in accordance with Work Group 170

3) With reference to Work Group 190 a proportion of the value related preliminaries pro rata to the amount of work excluded from adjustment, shall be excluded from Contract Price Adjustment Provisions, if Option A has been selected for the adjustment of preliminaries

4) Further to clause 3.4.4 of the CPAP Indices Application Manual, the listing of additional items for exclusion by tenderers, will not be permitted

5) Where V results in a negative amount after application of the formula in clause 8.3 of the CPAP Indices Application Manual the factor of 0,55 shall be substituted by 1,45

Alternative Indices: Not Applicable

42.4.7
[3.10]

Details of changes made to the provisions of **JBCC** standard documentation

Clause 1.1

COMMENCEMENT DATE - means the date that the possession of the site is given to the contractor

CONSTRUCTION GUARANTEE - means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule.

CONSTRUCTION PERIOD - means the period commencing on the commencement date and ending on the date of practical completion

CORRUPT PRACTICE - means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

FRAUDULENT PRACTICE - means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer, and includes collusive practice among tenderers (prior to and after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

INTEREST - the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:

(a) in respect of interest owed by the **employer**, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and

(b) in respect of interest owed to the **employer**, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

SECURITY - means the form of **security** provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expenses or loss.

1.6 Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been given when:

1.6.4 No clause

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.2.1 A **construction guarantee** in terms of 14.0, where so elected in his tender

3.7 Add at the end thereof:

The **contractor** shall supply and keep a copy of the **JBCC Series 200 Principal Building Agreement and Preliminaries** applicable to this contract on the **site**, to which the **employer, principal agent and agents** shall have access to at all times.

3.10 Replace the second reference to "**principal agent**" with the word "**employer**"

4.3 No clause

5.1.2 under clause 41- Include reference to 32.6.3; 34.3 and 34.4 in terms of which the employer has retained its authority and has not given a mandate to the **principal agent** and in terms of which the employer shall sign all documents

10.5 Add the following as 10.5

Damage to the works

- a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and **security** measures and other steps for the protection and **security** of the **works** as the **contractor** may deem necessary

- b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**

- c) The **employer** shall carry the risk of damage to or destruction of the **works** and materials paid for by the **employer** that is the result of the excepted risks as set out in 10.6

Contractor

Witness 1

Witness 2

T2.2.64

Employer

Witness 1

Witness 2

d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Add the following as 10.6

Injury to Persons or loss of or damage to Properties

a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **employer** is legally liable

c) The **contractor** shall upon receiving a contract instruction from the **principal agent** cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**.

d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his

Contractor

Witness 1

Witness 2

T2.2.65

Employer

Witness 1

Witness 2

control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**.

- e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor**, shall and will remain adequately insured or insured against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed
- f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 Add the following as 10.7

HIGH RISK INSURANCE

In the event of the project being executed in a geological area classified as a "High

Risk Area", that is an area which is subject to highly unstable subsurface conditions

that might result in catastrophic ground movement evident by sinkhole or do line formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the **commencement date** of the **works** until the date of the:

certificate of practical completion, bear the full risk of and hereby indemnifies and

holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and **security** measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris

Contractor

Witness 1

Witness 2

T2.2.66

Employer

Witness 1

Witness 2

arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable, or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance

to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the

contractor's obligations in terms of the contract, the **contractor** shall, within twenty one
(21) calendar days of the **commencement date** but before commencement of the

works, submit to the **employer** proof of such insurance policy, if requested to do so

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3.

Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Contractor

Witness 1

Witness 2

T2.2.67

Employer

Witness 1

Witness 2

14.0 Replace the entire clause 14.0 with the following:

14.0 SECURITY

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **contractor** to the **employer** will be as a **Payment Reduction** of **Five per cent (5%)** of the value certified in the **payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a **payment valuation certificate** shall be mutatis mutandi in terms of 31.8(A)

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of **14.3, 14.4, 14.5, 14.6, or 14.7** as stated in the schedule. Such **security** shall be provided to the **employer** within twenty-one (21) calendar days from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) calendar days from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where the **security** as a **Cash Deposit** of Ten per cent (10%) of the **Contract Sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a Cash Deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

14.3.2 Within twenty-one (21) calendar days of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to **Three per cent (3%)** of the contract value (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) calendar days of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value

Contractor

Witness 1

Witness 2

T2.2.68

Employer

Witness 1

Witness 2

(excluding VAT) and refund the balance to the **contractor**
14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **Construction Guarantee** of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable **construction guarantee** equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

14.4.2 The **Variable construction guarantee** shall reduce and expire in terms of the **Variable Construction guarantee** form included in the invitation to tender

14.4.3 The **employer** shall return the variable **construction guarantee** to the **contractor** within fourteen (14) calendar days of it expiring

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable **construction guarantee**

14.5 Where **security** as a **Fixed Construction Guarantee** of Five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last **certificate of practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) calendar days of it expiring

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8(A) and 34.8

14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a **Cash Deposit** of Five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) calendar days from **commencement date**

14.6.2 Within twenty-one (21) calendar days of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a **Payment Reduction** of Ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be mutatis mutandi in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to

Contractor

Witness 1

Witness 2

T2.2.70

Employer

Witness 1

Witness 2

refund the payment reduction or portions thereof to the **contractor**

14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this agreement

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2 the **employer**, in his sole discretion, and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

15.1.1 No clause

15.1.4 Add 15.1.4 as follows:

An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) calendar days of **commencement date**

15.2.1 Under 41: Amend to read as follows:

"Give the **contractor** possession of the site within ten (10) working days of the **contractor** complying with the terms of 15.1.2 and 15.1.4

17.1.11 Delete the words "and the appointment of **nominated** and **selected subcontractors**"

20.1.3 No clause

21.0 No clause

29.2.5 No clause

31.5.2 Security adjustments in terms of 14.0 and 31.8

31.8 Amend as follows:

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and of the **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

Contractor

Witness 1

Witness 2

T2.2.71

Employer

Witness 1

Witness 2

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

31.8(B) Where **security** is a payment reduction in term of 14.7 has been selected the value of the **works** in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except were the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

31.12 Delete the following: "Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due."

Contractor

Witness 1

Witness 2

T2.2.72

Employer

Witness 1

Witness 2

32.5.1 Add the following to the end of each of these clauses: "...due to no fault of the

32.5.4 **contractor"**

and

32.5.7

33.2 Add the following clauses 33.2.9 to 33.2.13:

33.2.9 the **contractor's** failure or neglect to commence with the **works** on the dates prescribed in the contract

33.2.10 the **contractor's** failure or neglect to proceed with the **works** in terms of the contract

33.2.11 the **contractor's** failure or neglect for any reason to complete the **works** in accordance with the contract

33.2.12 the **contractor's** refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract

33.2.13 the **contractor's** estate being sequestrated; liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

34.13 Replace "seven (7) calendar days" with "twenty one (21) calendar days" and delete the words: "subject to the **employer** giving the **contractor** a tax invoice for the amount due"

36.3 Remove reference to "No clause", and replace "**principal agent**" with "**employer**"

36.7 Add the following: "Notwithstanding any clause to the contrary, on cancellation of 37.5this agreement either by the **employer** or the and **contractor**; or for any reason And whatsoever, the **contractor** shall on written instruction, discontinue with the

38.7 **works** on a date stated and withdraw himself from the site.

Contractor

Witness 1

Witness 2

T2.2.73

Employer

Witness 1

Witness 2

	<p>The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever"</p> <p>37.3.5 Replace "ninety (90)" with "one hundred and twenty (120) and 38.5.4</p> <p>39.3.5 Add the following words at the end thereof: : "within one hundred and twenty (120) working days of completion of such report"</p> <p>40.2.2 under clause 41 - Replace "one (1) year" with "three (3) years"</p> <p>40.6 under clause 41 - Remove reference to no clause</p> <p>40.7.1 Change "(10)" to "(15)" Add the following to the end thereof: Whether or not mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and equally share the costs of the mediator and related costs.</p>
--	---

42.0	Part 2: Contract Data provided by the Contractor:
	<p>POST-TENDER INFORMATION</p> <p>Note: All information for this section requires consultation with the contractor. The principal agent shall not pre-select any of the alternatives available to the contractor</p>
42.5	CONTRACT DETAILS
42.5.1	<p>Contractor: Postal address:</p> <p>.....</p> <p>.....</p> <p>.....</p>

	<p>Tel: Fax: E-mail:</p> <p>TAX / VAT Registration No:</p> <p>Physical address:</p> <p>.....</p> <p>.....</p> <p>.....</p>
42.5.2	<p>The accepted contract sum inclusive of tax is R.....</p> <p>Amount in words:</p>
42.5.3 [31.3]	<p>The latest day of the month for the issue of an interim payment certificate:.....25th of the Month.....</p>
42.5.4 [32.12]	<p>The preliminaries amounts shall be paid in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/></p>
42.5.5 [32.12]	<p>The preliminaries amounts shall be adjusted in terms of: Alternative A <input type="checkbox"/> Alternative B <input type="checkbox"/></p>
42.5.7 [14]	<p>The security to be provided by the contractor:</p> <p>(a) in respect of contracts up to R1 million, the contractor will provide security in terms of 14.1</p> <p>(b) in respect of contracts above R1 million, the contractor will provide, as security, one of the following:</p>

Contractor

Witness 1

Witness 2

T2.2.75

Employer

Witness 1

Witness 2

	(1) cash deposit of 10 % of the contract sum	Yes <input type="checkbox"/> No <input type="checkbox"/>
	(2) payment reduction of 10% of the value certified in the payment certificate	Yes <input type="checkbox"/> No <input type="checkbox"/>
	(3) cash deposit of 5% of the contract sum and a payment reduction of 5% of the value certified in the payment certificate	Yes <input type="checkbox"/> No <input type="checkbox"/>
	(4) fixed construction guarantee of 5% of the contract sum and a payment reduction of 5% of the value certified in the payment certificate	Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</p>		
42.5.8 [29.7.2]	The annual building holiday period after the commencement of the construction period: from to	

42.6	DOCUMENTS: Contract documents marked and annexed hereto:	
42.6.1	Priced bills of quantities: Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Lump sum document: Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Guarantees: Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Contract drawings: Yes <input type="checkbox"/> No <input type="checkbox"/>	Document marked as
	Other documents Yes <input type="checkbox"/> No <input type="checkbox"/>	(attach additional pages if more space is required)
.....		

T2.2.76

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

42.8

SIGNATURES OF THE CONTRACTING PARTIES

Thus done and signed at _____ on _____

Name of signatory _____ for and behalf of the
Employer who
by signature hereof warrants

authorization hereto

Capacity of signatory _____ as
Witness

Thus done and signed at _____ on _____

Name of signatory _____ for and
behalf of the **Contractor** who
warrants by signature hereof
authorization hereto

Capacity of signatory _____ as Witness

Contractor

Witness 1

Witness 2

T2.2.77

Employer

Witness 1

Witness 2

FORM C1.3 SPECIAL CONDITION

Payment for the labour-intensive component of the works

Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Applicable labour laws

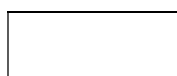
The Ministerial Determination, Special Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice N° R63 of 25 January 2002, as reproduced below, shall apply to works described in the scope of work as being labour intensive and which are undertaken by unskilled or semi-skilled workers.

1 Introduction

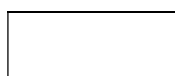
1.1 This document contains the standard terms and conditions for workers employed in elementary occupations on a Special Public Works Programme (SPWP). These terms and conditions do NOT apply to persons employed in the supervision and management of a SPWP.

1.2 In this document –

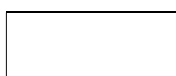
- (a) "**Department**" means any department of the State, implementing agent or contractor;
- (b) "**Employer**" means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP;
- (c) "**Worker**" means any person working in an elementary occupation on a SPWP;
- (d) "**Elementary** occupation" means any occupation involving unskilled or semi-skilled work;
- (e) "**Management**" means any person employed by a department or implementing agency to administer or execute an SPWP;
- (f) "**Task**" means a fixed quantity of work;
- (g) "**task-based work**" means work in which a worker is paid a fixed rate for performing a task;
- (h) "**task-rated worker**" means a worker paid on the basis of the number of tasks completed;
- (i) "**time-rated worker**" means a worker paid on the basis of the length of time worked.



Contractor

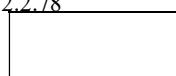


Witness 1

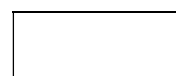


Witness 2

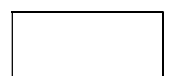
T2.2.78



Employer



Witness 1



Witness 2

(j) "Task rate or daily rate" = *As per Government Gazette*

2 Terms of Work

- 2.1 Workers on a SPWP are employed on a temporary basis.
- 2.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.
- 2.3 Employment on a SPWP does not qualify as employment as a contributor for the purposes of the Unemployment Insurance Act 30 of 1966.

3 Normal Hours of Work

- 3.1 An employer may not set tasks or hours of work that require a worker to work–
 - (a) More than forty hours in any week
 - (b) On more than five days in any week; and
 - (c) For more than eight hours on any day.
- 3.2 An employer and worker may agree that a worker will work four days per week. The worker may then work up to ten hours per day.
- 3.3 A task-rated worker may not work more than a total of 55 hours in any week to complete the tasks allocated (based on a 40-hour week) to that worker.

4 Meal Breaks

- 4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
- 4.2 An employer and worker may agree on longer meal breaks.
- 4.3 A worker may not work during a meal break. However, an employer may require a worker to perform duties during a meal break if those duties cannot be left unattended and cannot be performed by another worker. An employer must take reasonable steps to ensure that a worker is relieved of his or her duties during the meal break.
- 4.4 A worker is not entitled to payment for the period of a meal break. However, a worker who is paid on the basis of time worked must be paid if the worker is required to work or to be available for work during the meal break.

5 Special Conditions for Security Guards

- 5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.
- 5.2 A security guard who works more than ten hours per day must have a meal break of at least one hour or two breaks of at least 30 minutes each.

6 Daily Rest Period

Every worker is entitled to a daily rest period of at least eight consecutive hours. The daily rest period is measured from the time the worker ends work on one day until the time the worker starts work on the next day.

Contractor

Witness 1

Witness 2

T2.2.79

Employer

Witness 1

Witness 2

7 Weekly Rest Period

Every worker must have two days off every week. A worker may only work on their day off to perform work which must be done without delay and cannot be performed by workers during their ordinary hours of work ("emergency work").

8 Work on Sundays and Public Holidays

8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.

8.2 Work on Sundays is paid at an **Extra Rate of Pay**.

8.3 A task-rated worker who works on a public holiday must be paid –
(a) The worker’s daily task rate, if the worker works for less than four hours;

(b) Double the worker’s daily task rate, if the worker works for more than four hours.

8.4 A time-rated worker who works on a public holiday must be paid –

(a) The worker’s daily rate of pay, if the worker works for less than four hours on the public holiday;

(b) Double the worker’s daily rate of pay, if the worker works for more than four hours on the public holiday.

9 Sick Leave

9.1 Only workers who work four or more days per week have the right to claim sick pay in terms of this clause.

9.2 A worker who is unable to work on account of illness or injury is entitled to claim one day’s paid sick leave for every full month that the worker has worked in terms of a contract.

9.3 A worker may accumulate a maximum of twelve days’ sick leave in a year.

9.4 Accumulated sick-leave may not be transferred from one contract to another contract.

9.5 An employer must pay a task-rated worker the worker’s daily task rate for a day’s sick leave.

9.6 An employer must pay a time-rated worker the worker’s daily rate of pay for a day’s sick leave.

9.7 An employer must pay a worker sick pay on the worker’s usual payday.

9.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –

(a) Absent from work for more than two consecutive days; or

(b) Absent from work on more than two occasions in any eight-week period.

9.9 A medical certificate must be issued and signed by a medical practitioner, a qualified nurse or a clinic staff member authorised to issue medical certificates indicating the duration and reason for incapacity.

9.10 A worker is not entitled to paid sick leave for a work-related injury or occupational disease for which the worker can claim compensation under the Compensation for Occupational Injuries and Diseases Act.

T2.2.80

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

10 Maternity Leave

- 10.1 A worker may take up to four consecutive months' unpaid maternity leave.
- 10.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.
- 10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.
- 10.4 A worker is not required to take the full period of maternity leave. However, a worker may not work for four weeks before the expected date of birth of her child or for six weeks after the birth of her child, unless a medical practitioner, midwife, or qualified nurse certifies that she is fit to do so.
- 10.5 A worker may begin maternity leave –
- (a) four weeks before the expected date of birth; or
 - (b) On an earlier date –
 - (i) If a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - (ii) if agreed to between employer and worker; or
 - (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.
- 10.6 A worker who has a miscarriage during the third trimester of pregnancy or bears a stillborn child may take maternity leave for up to six weeks after the miscarriage or stillbirth.
- 10.7 A worker who returns to work after maternity leave has the right to start a new cycle of twenty-four months employment, unless the SPWP on which she was employed has ended.

11 Family responsibility leave

- 11.1 Workers, who work for at least four days per week, are entitled to three days paid family responsibility leave each year in the following circumstances -
- (a) When the employee's child is born;
 - (b) When the employee's child is sick;
 - (c) In the event of a death of –
 - (i) The employee's spouse or life partner;
 - (ii) The employee's parent, adoptive parent, grandparent, child, adopted child, grandchild, or sibling.

12 Statement of Conditions

- 12.1 An employer must give a worker a statement containing the following details at the start of employment –
- (a) The employer's name and address and the name of the SPWP;
 - (b) The tasks or job that the worker is to perform; and
 - (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;

Contractor

Witness 1

Witness 2

T2.2.81

Employer

Witness 1

Witness 2

- (d) The worker's rate of pay and how this is to be calculated;
 - (e) The training that the worker will receive during the SPWP.
- 12.2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.
- 12.3 An employer must supply each worker with a copy of these conditions of employment.

13 Keeping Records

- 13.1 Every employer must keep a written record of at least the following –
- (a) The worker's name and position;
 - (b) In the case of a task-rated worker, the number of tasks completed by the worker;
 - (c) In the case of a time-rated worker, the time worked by the worker;
 - (d) Payments made to each worker.
- 13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.

14 Payment

- 14.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.
- 14.2 A task-rated worker will only be paid for tasks that have been completed.
- 14.3 An employer must pay a task-rated worker within five weeks of the work being completed and the work having been approved by the manager or the contractor having submitted an invoice to the employer.
- 14.4 A time-rated worker will be paid at the end of each month.
- 14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.
- 14.6 Payment in cash or by cheque must take place –
- (a) At the workplace or at a place agreed to by the worker;
 - (b) during the worker's working hours or within fifteen minutes of the start or finish of work;
 - (c) In a sealed envelope which becomes the property of the worker.
- 14.7 An employer must give a worker the following information in writing –
- (a) The period for which payment is made;
 - (b) The numbers of tasks completed, or hours worked;
 - (c) The worker's earnings;
 - (d) Any money deducted from the payment;
 - (e) The actual amount paid to the worker.
- 14.8 If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it
- 14.9 If a worker's employment is terminated, the employer must pay all monies owing to that worker within one month of the termination of employment.

15 Deductions

T2.2.82

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

- 15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.
- 15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.
- 15.3 An employer who deducts money from a worker's pay for payment to another person must pay the money to that person within the time period and other requirements specified in the agreement law, court order, or arbitration award concerned.
- 15.4 An employer may not require or allow a worker to –
 - (a) Repay any payment except an overpayment previously made by the employer by mistake;
 - (b) State that the worker received a greater amount of money than the employer actually paid to the worker; or
 - (c) Pay the employer or any other person for having been employed.

16 Health and Safety

- 16.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.
- 16.2 A worker must –
 - (a) Work in a way that does not endanger his/her health and safety or that of any other person;
 - (b) Obey any health and safety instruction;
 - (c) Obey all health and safety rules of the SPWP;
 - (d) Use any personal protective equipment or clothing issued by the employer;
 - (e) Report any accident, near-miss incident, or dangerous behaviour by another person to their employer or manager.

17 Compensation for Injuries and Diseases

- 17.1 It is the responsibility of the employers (other than a contractor) to arrange for all persons employed on a SPWP to be covered in terms of the Compensation for Occupational Injuries and Diseases Act, 130 of 1993.
- 17.2 A worker must report any work-related injury or occupational disease to their employer or manager.
- 17.3 The employer must report the accident or disease to the Compensation Commissioner.
- 17.4 An employer must pay a worker who is unable to work because of an injury caused by an accident at work 75% of their earnings for up to three months. The employer will be refunded this amount by the Compensation Commissioner. This does NOT apply to injuries caused by accidents outside the workplace such as road accidents or accidents at home.

T2.2.83

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

18 Termination

- 18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.
- 18.2 A worker will not receive severance pay on termination.
- 18.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the employer in advance to allow the employer to find a replacement.
- 18.4 A worker who is absent for more than three consecutive days without informing the employer of an intention to return to work will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.
- 18.5 A worker who does not attend required training events, without good reason, will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

19 Certificate of Service

19.1 On termination of employment, a worker is entitled to a certificate stating –

- (a) The worker's full name;
- (b) The name and address of the employer;
- (c) The SPWP on which the worker worked;
- (d) The work performed by the worker;
- (e) Any training received by the worker as part of the SPWP;
- (f) The period for which the worker worked on the SPWP;
- (g) Any other information agreed on by the employer and worker

Contractor

Witness 1

Witness 2

T2.2.84

Employer

Witness 1

Witness 2

MONTHLY REPORTING

The successful bidder will be expected to compile a monthly report including photos depicting progress on site and Compulsory Health and Safety Meetings. These will include progress reports, labour reports, etc, submitted to the Professional Team, Project Manager on the dates to be stipulated in Site Meetings by the Principal Agent.

Contractor

Witness 1

Witness 2

T2.2.85

Employer

Witness 1

Witness 2

FORM C1.4 HEALTH AND SAFETY SPECIFICATION

**HEALTH AND SAFETY SPECIFICATION
THE OCCUPATIONAL HEALTH AND SAFETY ACT 1993
CONSTRUCTION REGULATIONS 2014**

SECTION 1

1. INTRODUCTION

This document was construed in order to comply with the provisions of the **OCCUPATIONAL HEALTH AND SAFETY ACT NO 85 OF 1993, CONSTRUCTION REGULATIONS 2014** and COVID-19 Occupational Health And Safety Measures in Workplace 2020

Definitions of words are those described in the Act and the Construction Regulations of 2014. As well COVID-19 Occupational Health And Safety Measures in Workplace 2020

This document formulates the specification of the OR Tambo District Municipality in terms of the above act and forms part of the constitution of the organisation.

This document forms part of the employment contract of all employees and is as such accepted in writing by each employee. It also forms part of the agreement between the OR Tambo District Municipality and all service providers.

No clause in this document shall be amended in any contract document construed by agents, designers or anyone else except so ordered or sanctioned by the OR Tambo District Municipality in writing.

“fall prevention equipment” means equipment used to prevent persons from falling from an elevated position, including personal equipment, body harness, body belts, lanyards, lifelines or physical equipment, guardrails, screens, barricades, anchorages or similar equipment;

“fall arrest equipment” means equipment used to arrest the person in a fall from an elevated position, including personal equipment, body harness, lanyards, deceleration devices, lifelines or similar equipment, but excludes body belts;

“fall protection plan” means a documented plan, of all risks relating to working from an elevated position, considering the nature of work undertaken, and setting out the procedures and methods to be applied in order to eliminate the risk;

“Hazard identification” means the identification and documenting of existing or expected hazards to the health and safety of persons, which are normally associated with the type of construction work being executed or to be executed;

“Health and safety file” mean a file, or other record in permanent form, containing the information required as contemplated in these regulations;

Contractor

Witness 1

Witness 2

T2.2.86

Employer

Witness 1

Witness 2

“Health and safety plan” means a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified;

“Health and safety specification” means a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons;

“material hoist” means a hoist used to lower or raise material and equipment, and includes cantilevered platform hoists, mobile hoists, friction drive hoists, scaffold hoists, rack and pinion hoists and combination hoists;

“Medical certificate of fitness” means a certificate valid for one year issued by an occupational health practitioner, issued in terms of these regulations, whom shall be registered with the Health Professions Council of South Africa;

“Method statement” means a written document detailing the key activities to be performed in order to reduce as reasonably as practicable the hazards identified in any risk assessment;

“Mobile plant” means machinery, appliances or other similar devices that is able to move independently, for the purpose of performing construction work on the construction site;

“National Building Regulations” means the National Building Regulations made under section 17(1) of the National Building Regulations and Building Standards Act, 1977 (Act No.103 of 1977), and published under Government Notice No. R.1081 of 10 June 1988, as amended;

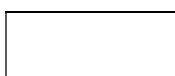
“Person day” means one individual carrying out construction work on a construction site for one normal working shift;

“principal contractor” means an employer, as defined in section 1 of the Act who performs construction work and is appointed by the client to be in overall control and management of a part of or the whole of a construction site;

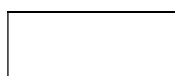
“professional engineer or professional certificated engineer” means any person holding registration as either a Professional Engineer or Professional Certificated Engineer under the Engineering Profession Act, 2000 (Act No. 46 of 2000);

“Professional technologist” means any person holding registration as a Professional Technologist under the Engineering Profession Act, 2000 (Act No. 46 of 2000);

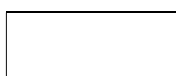
“Provincial director” means the provincial director as defined in regulation 1 of the General Administrative Regulations under the Act;



Contractor

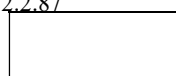


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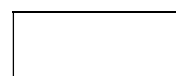


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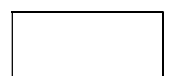
T2.2.87



Employer



Witness 1



Witness 2

“risk assessment” means a programme to determine any risk associated with any hazard at a construction site , in order to identify the steps needed to be taken to remove, reduce or control such hazard;

“Roof apex height” means the dimensional height in metres measured from the lowest ground level abutting any part of a building to the highest point of the roof;

“SABS 085” means the South African Bureau of Standards’ Code of Practice entitled “The Design, Erection, Use and Inspection of Access Scaffolding”;

“SABS 0400” means the South African Bureau of Standards, Code of Practice for the application of the National Building Regulations;

“SABS EN 1808” means the South African Bureau of Standards’ Standard Specification entitled: “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”;

“SABS 1903” means the South African Bureau of Standards’ Standard Front-end Specification entitled: “Safety requirements on suspended access equipment – Design calculations, stability criteria, construction-tests”;

“Scaffold” means any temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;


“Structure” means—


- (a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, batching plants, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- (b) any formwork, false work, scaffold or other structure designed or used to provide support or means of access during construction work; or
- (c) any fixed plant in respect of work which includes the installation, commissioning, decommissioning or dismantling and where any such work involves a risk of a person falling two metres or more;


“Suspended platform” means a working platform suspended from supports by means of one or more separate ropes from each support;

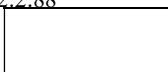
“The Act” means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);


“Tunnelling” means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral



Contractor


Witness 1


Witness 2


T2.2.88

Employer



Witness 1



Witness 2

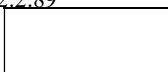
SECTION 2: Registered Health & Safety Consultant (RHSC) OR (H&S)


1. All wording shall have the meaning as defined by the H&S Regulations 2014.
2. This specification is in terms of the H&S act 1993 and the regulations of 2014.
3. All work performed, and procedures followed by the Principal Agent (PA) shall be done according to the H&S regulations of 2014.
4. The client is aware of the fact that the appointment of a designer (RHSC) does not implicate that the designer becomes the agent of the client for the particular project. The appointment of an agent is done separately in writing and should be accepted by the designer as such.
5. The client is ultimately responsible for all safety issues regarding the project for which a designer is appointed and cannot contract out of his obligations in terms of the law.
6. The client shall not employ a designer should he have reasonable doubts that the designer is not able to execute work in a safe manner.
7. All designers shall have adequate insurance cover to indemnify the client for their acts and omissions in terms of professional conduct the H&S act in particular to indemnify the client against penalties imposed for acts or omissions. The client is aware of the fact that additional insurance over and above PI insurance is necessary to have himself indemnified by the designers for acts and omissions in terms of the H&S regulations. The professional indemnity insurance has a “negligent acts and omissions” wording only and therefore additional insurance is necessary to cover the client against penalties imposed in terms of the regulations.
8. Designers shall not accept work from the client if they are not capable of executing such work professionally and if such work cannot be executed in a safe manner, according to the provisions of the H&S regulations.
9. Designers shall execute all designs in terms of the relevant SABS and other acceptable codes and procedures and shall place great emphasis on safety issues including the maintenance procedures after inaugurations of such systems or projects.
10. Ergonomic parameters shall have high priority in all designs.



Contractor


Witness 1


Witness 2

T2.2.89

Employer


Witness 1


Witness 2

SECTION 3: MAIN CONTRACTOR (MC)

1. All work by the MC shall be done in compliance with the provisions of the H&S regulations. As well as COVID-19 Occupational Health and Safety Measures in Workplace 2020
2. The Employer recognises the right of each employee to work safely in a healthy environment under decent human conditions. Each employee has the right to return home safely and healthy to his home and family after each day's work.
3. Work shall not be done at the expense of human safety or health.
4. Work shall be executed under humane conditions, especially with reference to hours and H&S issues in mind.
5. The MC shall appoint a fulltime H&S Manager should he have more than 50 employees on site.
6. The MC shall conduct monthly safety meetings on site. All foremen, gang leaders and other employees shall participate and all incidents with relation to unsafe practices shall be discussed. Minutes of such meetings shall be kept in the H&S file.
7. Foremen and gang leaders shall, under the supervision of the H&S manager, conduct meetings with all staff and people under their direct supervision on a frequent basis.
Minutes of such meetings shall be kept in the H&S file.
8. New personnel (temporary or full-time employees) shall attend safety induction courses under the supervision of the H&S manager.
9. The MC shall install and maintain a box in which proposals for improvement of H&S procedures could be placed. All such proposals shall be considered, recorded and placed in the H&S file.
10. An adequate first aid facility shall be placed maintained on site and shall be adequately indicated by means of signs. All personnel shall be made aware of its existence and only trained first aid assistants shall be authorized to treat injuries.
11. The MC shall see that work is only executed by people trained for the particular task.
12. All safety equipment shall be SABS approved and under no circumstance shall any safety equipment be non-certified homemade equipment. Specifications and order details shall be kept in the H&S file.
13. Workers and personnel shall be attending safety courses on a regular basis and all information regarding such training shall be kept in the H&S file.

Contractor

Witness 1

Witness 2

T2.2.90

Employer

Witness 1

Witness 2

14. All employees shall be trained in safe working procedures and shall be trained on safety consciousness in particular. Employees in position of leadership shall be trained through accredited training processes in H&S matters.
15. The contractor shall prepare and maintain a safety plan for the particular project and shall train his personnel to work according to such plan.
16. Personnel and workers will be made aware of any natural hazards existing on site. They will also be made aware of items defined by the designer in his risk assessment.
17. No horseplay between employees will be tolerated on site. Neither will aggressive or threatening behaviour by anybody be allowed.
18. Workers shall wear appropriate protective clothing for the applicable task which shall include special safety equipment like protective eyewear, gloves, boots, ear protection, etc. Workers shall be issued with these items and copy of such issuing shall be kept in the H&S file.
19. Workers shall not be allowed to wear loose clothes and footwear.
20. Workers shall have the opportunity and right to prescribed rest, eating and toilet breaks.
21. Workers on nightshift shall be protected against inclement weather and shall have access to adequate food and drinks.
22. In cases where work is executed in remote or in security restricted areas, the MC will make provision for food to be supplied to his employees.
23. Potable water shall be made available free of charge to all workers on site.
24. Adequate toilet and washing facilities shall be made available to workers.
25. In the event of chemicals being present or used on site, the P C will allow for adequate shower facilities on site. All chemicals shall be stored according to specification and shall be clearly identified and marked in prescribed containers.
26. Workers under instruction to execute inherently unsafe procedures shall report such incidences to the H&S manager, designer of client immediately.
27. Unauthorised or unlawful instructions from foremen, gang leaders or colleagues shall be reported by the H&S manager immediately.
28. The MC shall stop his contractors if they work unsafely.
29. All specialist work shall be executed by registered artisans only.
30. Workers shall not be required to lift equipment or material heavier than 25kg or carry a load of more than 50 kg for more than 10 metres.

T2.2.91

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

31. Workers shall not be exposed to conditions of heat where the temperature is above 40° Celsius and the humidity more than 75%. Likewise, will personnel not be exposed to temperatures lower than -5° Celsius? Should the designer and the P C decide that the work is urgent; workers will be issued with proper protective clothing.
32. All workers shall have access to a shaded eating and resting place on site.
33. Workers executing tasks in rivers, trenches and other natural or artificial water ways shall be made aware of the hazard of flash floods and special precautions shall be made by the MC to implement an effective flood warning system.
34. Workers executing tasks in manholes for sewer or storm water systems, shall be made aware of the existence of hazardous gasses in closed areas and shall be issued with gas masks in any event, even after tests conducted by the H&S manager has proven that no gasses are existent. Only specialists shall work in gas filled chambers.
35. Personnel executing work during rainy weather or under other wet conditions shall be equipped with proper gumboots and proper rain suits.
36. No personnel will be allowed to work in water unless gumboots are worn. Should the water be deeper than 300mm watertight suits shall be worn.
37. All ladders shall be fixed against scaffolding or other permanent structures.
38. Welding on site shall only be done by trained personnel behind adequate eye protecting shields and all welders shall wear proper protective gear.
39. Personnel operating grinders, saws or any other hand tools of similar description shall be equipped with the necessary eyewear and ear protection.
40. All personnel working under potentially dusty conditions shall wear nose and mouth filters.
41. Workers operating rock drilling equipment shall wear ear, nose and eye protection.
42. All scaffolding will comply with the H&S regulations.
43. Blasting will be done by specialists under the regulations of the Explosives Act.
44. Workers shall wear protective clothing when exposed to chemicals like cement, lime, detergents, tar, fumes, etc. Should work be executed in the presence of such material, adequate protective clothing and equipment shall be issued after permission is granted by the H&S manager.
45. Workers will not be allowed to make open fires on any part of the site unless it is made in designated areas approved by the H&S manager.
46. Fuel storage will only be allowed on certified areas on site.

T2.2.92

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

47. Workers and other personnel will be trained for fire procedures and will practise such fire drill on a regular basis.
48. Assembly areas for emergency evacuations will be indicated by adequate signage.
49. The MC will have an attendance register for the purposes of identifying people before, during and after potential hazardous situations.
50. All transport supplied by the MC shall be on road worthy vehicles only and all transport shall be conducted in terms of the transport act.
51. Drivers of vehicles shall be responsible for the roadworthiness of vehicles and will report any dysfunctional vehicles to the MC.
52. All drivers will be responsible to handle vehicles in such a way to comply with the transport act.
53. Passengers of vehicles shall report any unsafe conduct to the MC immediately. Such report shall be forwarded to the H&S manager and shall be investigated. Copy of such procedure shall be entered into the H&S file.
54. Only trained personnel shall be permitted and required to operate construction machinery. All such machinery shall be maintained in a safe working condition.
55. All vehicles operating on site shall have audible warning signals if driven backwards.
56. No vehicle shall be kept on site if it is leaking oil or other substances.
57. No vehicle or equipment shall be operated on site if it produces noise above 90 decibels measured within a distance of 10,0 m from the unit.
58. Equipment producing serious dusty conditions shall only be operated under the supervision of the MC and the H&S manager with the necessary protection to workers.
59. All excavations on site shall be adequately protected and not only indicated.
60. Exploratory excavation to reveal services shall be done in a specific way.
 - All areas to be explored shall first be inspected by the landowner or local authority.
 - Position of services identified shall then be verified by opening by hand, not by machine.
 - Particular care shall be taken not to damage these services.
 - Electrical services are inherently dangerous and shall be opened by skilled people only.
 - These excavations shall not be left open without supervision. If necessary, the excavation shall be backfilled temporarily with approved material until the specified modifications to the services can be made.

T2.2.93

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

61. Access to excavations shall only be by means of ladders or stairs with handrails.
62. All refuse, unsafe material, potential hazardous material and rubbish shall be placed in designated areas to be removed on a regular basis.
63. Rainwater shall be contained in trenches or pipes in such a way that it will not cause contamination of material in these refuse areas.
64. All electrical sources or cables or overhead power lines should be regarded as live at all times and all workers on site shall be made aware of its existence during H&S meetings and as many times as necessary.
65. Adequate signage shall be used on site to indicate
- Non-smoking areas on site
 - Safety exits / Emergency exits from buildings under construction
 - Stairs (temporary and permanent works)
 - Toilets
 - Firefighting equipment
 - Workmen busy with equipment overhead
 - Fire assembly points
 - Fire escapes
 - Areas where members of the public are not allowed.
 - First aid room
66. All visitors to the site shall be granted permission to the site only upon application through a predetermined procedure and records of these visitors shall be kept in the H&S file. Visitors shall attend safety induction training before entering the site. Areas out of bounds to all visitors shall be indicated clearly by means of adequate signs.
67. Work performed in public servitudes like the construction of streets or roads shall be done according to the specifications of the local or national authority and adequate signage shall be implemented.
68. People complaining about their health or people displaying symptoms of illness or disease, shall be allowed to go to the first aid facility or to visit a doctor or a clinic. Permission shall not be withheld unreasonably. In remote areas the MC is required to have reasonable ways of transporting people to a doctor or clinic whether the person is ill or injured on site.
69. Personnel must be informed about the location of the nearest doctor or clinic for casualty purposes and the MC shall provide such transport for injured workers and injured members of the public (within the limits of the site) free of charge.
70. A principal contractor who intends to carry out any construction work shall—
- (a) before carrying out that work, notify the provincial director in writing of the construction work if it includes—

Contractor

Witness 1

Witness 2

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Employer

Witness 1

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- (i) The demolition of a structure exceeding a height of 3 metres; or
 - (ii) The use of explosives to perform construction work; or
 - (iii) The dismantling of fixed plant at a height greater than 3m.
- (b) before carrying out that work, notify the provincial director in writing when the construction work—
- (i) Exceeds 30 days or will involve more than 300-person days of construction work; and
 - (ii) Includes excavation work deeper than 1m; or
 - (iii) Includes working at a height greater than 3 metres above ground or a landing.
- (2) The notification to the provincial director must be done on the form similar to Annexure A to this Policy.
- (3) A principal contractor shall ensure that a copy of the completed form is kept on site for inspection by an inspector, client, client’s agent or employee.

SECTION 4: CLIENT

- (1) A client shall be responsible for the following in order to ensure compliance with the provisions of the Act —
- (a) to prepare a documented health and safety specification for the construction work, and provide any principal contractor who is making a bid or appointed to perform construction work for the client with the same;
 - (b) To promptly provide the principal contractor and his or her agent with any information which might affect the health and safety of any person at work carrying out construction work;
 - (c) To appoint each principal contractor in writing for the project or part thereof on a construction site;
 - (d) To take reasonable steps to ensure that each principal contractor’s health and safety plan is implemented and maintained on the construction site: Provided that the steps taken, shall include periodic audits at intervals mutually agreed upon between the client and principal contractor, but at least once every month;
 - (e) to stop any contractor from executing construction work which is not in accordance with the principal contractor’s health and safety plan for the site or which poses to be a threat to the health and safety of persons;
 - (f) to ensure that where changes are brought about, sufficient health and safety information and appropriate resources are made available to the principal contractor to execute the work safely;
 - (g) to ensure that every principal contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site; and

T2.2.95

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

(h) To ensure that potential principal contractors submitting tenders, have made provision for the cost of health and safety measures during the construction process.

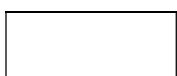
(2) A client shall discuss and negotiate with the principal contractor the contents of the health and safety plan and thereafter finally approve the health and safety plan for implementation.

(3) A client shall ensure that a copy of the principal contractor's health and safety plan is available on request to an employee, inspector or contractor.

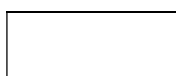
(4) OR Tambo District Municipality shall not appoint a principal contractor to perform construction work, unless OR Tambo District Municipality is reasonably satisfied that the principal contractor that he or she intends to appoint has the necessary competencies and resources to carry out the work safely.

(5) A client may appoint an agent in writing to act as his or her representative and where such an appointment is made, the responsibilities as are imposed by these regulations upon a client, shall as far as reasonably practicable apply to the person so appointed.

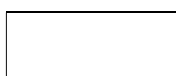
(6) No client shall appoint any person as his agent, unless the client is reasonably satisfied that the person he or she intends to appoint has the necessary competencies and resources to perform the duties imposed on a client by these regulations.



Contractor

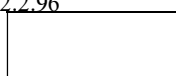


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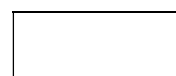


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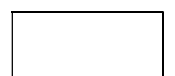
T2.2.96



Employer



Witness 1



Witness 2

ANNEXURE A

NOTIFICATION OF CONSTRUCTION WORK

1.(a) Name and postal address of principal contractor:

(b) Name and tel. no of principal contractor's contact person:

—

2. Principal contractor's compensation registration number:

—

3.(a) Name and postal address of client:

(b) Name and tel. no. of client's contact person or agent:

—

4.(a) Name and postal address of designer(s) for the project:

(b) Name and tel. no. of designer(s) contact person:

Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 6.(1).

5. Name/s of Main Contractor's sub-ordinate supervisors on site appointed in terms of regulation 6.(2).

6. Exact physical address of the construction site or site office:

7.

8. Nature of the construction work:

9. Expected commencement date _____

Contractor

Witness 1

Witness 2

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Employer

Witness 1

Witness 2

10. Expected completion date: _____
11. Estimated maximum number of persons to be on site _____
12. Planned number of Sub-contractors on construction site accountable to Main Contractor _____
13. Name(s) of contractors already chosen.

Main Contractor	Date
Client	Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR PRIOR TO COMMENCEMENT OF WORK ON SITE.
- **ALL MAIN CONTRACTOR** THAT QUALIFY TO NOTIFY MUST DO SO EVEN IF ANOTHER PRINCIPAL CONTRACTOR ON THE SAME SITE HAD DONE SO PRIOR TO THE COMMENCEMENT OF WORK.

T2.2.98

<i>Contractor</i>	<i>Witness 1</i>	<i>Witness 2</i>	<i>Employer</i>	<i>Witness 1</i>	<i>Witness 2</i>

GUIDELINES FOR CONTRACT ADMINISTRATION



**O.R. TAMBO
DISTRICT MUNICIPALITY**

OR TAMBO DISTRICT MUNICIPALITY

Contractor

Witness 1

Witness 2

T2.2.99

Employer

Witness 1

Witness 2

OR TAMBO DISTRICT MUNICIPALITY

GUIDELINES FOR CONTRACT ADMINISTRATION
IN TERMS OF THE CONSTRUCTION REGULATIONS 2014
HEALTH & SAFETY ACT 1993

SECTION 1 AND 2

1. **PURPOSE OF THIS DOCUMENT**

This document describes the procedures to be followed in the execution of Engineering Projects for OR Tambo District Municipality.

The role of all parties to the development project is described.

The document is in terms of the Construction Regulation 2014 of the Health and Safety Act 1993. As well as COVID-19 Occupational Health & Safety Measures in Workplace 2020

2. **BACKGROUND**

The Minister of Labour has on 18 July 2014 under section 43 of the Occupational Health and Safety Act 1993 (Act No. 85 of 1993) published new regulations in the Government Gazette 7721, Vol. 456. They have immediate effect and are applicable to the Construction Environment.

These regulations inter alia identify the different role players and their responsibilities, particularly the role of the client, the contractor and that of the designer.

The Construction Regulations endeavour to ensure that:

- i) Hazards or potential hazards to a healthy working environment are identified.
- ii) These hazards or potential hazards are removed or minimised.
- iii) Employers and Workers are made aware of the value of safe working procedures and train themselves to work safely in potential hazardous environments or under potentially unsafe conditions.

SECTION 3

3. **THE CLIENT**

In terms of the law the client is ultimately responsible for all acts and omissions as far as health and safety is concerned on site. It should be noted that the client will be held legally responsible for every trespass of the regulations, not the designer or the contractor. The law makes provision for fines to be levied and unless the client has been indemnified by the designer or the contractor, such fines will have to be paid by the client.

Clients cannot contract out of their statutory obligations except where the law allows for it. Therefore, any liability imposed upon them for statutory non-compliance, cannot be passed on to designers (consultants) or contractors.

In particular the client's responsibilities are defined as follows:

Contractor

Witness 1

Witness 2

T2.2.100

Employer

Witness 1

Witness 2

.1	To prepare a health and safety (H&S) specification for the work. This should cover the spectrum of activities handled by the client as part of his normal duties.	Clause 4(1)(a)
.2	To provide a risk assessment to the Main Contractor.	Clause
.3	To appoint the Main Contractor in writing.	Clause
.4	To ensure that the H&S plan is implemented.	Clause 4(1)(d)
.5	To stop any contractor executing work in an unsafe manner.	Clause 4(1)(e)
.6	To provide additional H&S information to the contractor should changes be made to the work?	Clause 4(1)(f)
.7	To ensure that the principal contractor is registered and in good standing with the workmen's compensation fund.	Clause 4(1)(h)
.8	To make sure tenderers have made provision in their offers for H&S measures.	Clause 4(1)(h)
.9	To discuss and approve the H&S plan with the main contractor.	Clause 4(2)
.10	To keep a copy of the H&S plan of the main contractor.	Clause 4(3)
.11	To <u>not</u> employ a contractor unless the client is reasonably satisfied that the principal contractor who is earmarked for an appointment has the necessary skills, competencies and resources to carry out the work safely.	Clause 4(4)
.12	The client can appoint an agent to handle his duties. The client can obviously also delegate some of his duties but this does not make the person responsible for such particular responsibilities as agent. The client should make sure whether such responsibilities are not already part of the designer in terms of the regulations clause 9(2).	Clause 4(5)
.13	The client shall only appoint someone as his agent if he is reasonably satisfied that such person can handle such responsibilities.	Clause 4(6)

Contractor

Witness 1

Witness 2

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Employer

Witness 1

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SECTION 4

4. THE DESIGNER/(Principal Agent) PA (Structural/ Civil Engineer), Architects etc, where appropriate.

The regulations do not use names like engineer, architect, etc. Instead the term designer has been introduced. The responsibilities of the designer are given in a sub-paragraph under the obligations of the Main Contractor.

<p>4.1 The regulations have a comprehensive definition of the designer and this includes:</p> <p>a) A person preparing drawing designs shall mean.</p> <p>b) A person preparing Structural designs.</p> <p>c) A firm preparing a site works designs shall mean.</p> <p>d) Persons having responsibility over drawings will mean</p> <p>e) A Person preparing a legal binding document for bidding shall be known</p> <p>f) A Land surveyor specifying or drawing up Contours & Pegs</p> <p>g) A contractor in design & build contract.</p> <p>h) A contractor designing temporary work.</p> <p>i) A interior designer, shop fitter and landscape architect.</p> <p>4.2 The designer does not automatically through an appointment become the agent of the client in terms of the regulations unless he is appointed in writing to that effect and he accepts such appointment in writing.</p> <p>4.3 The Service Level Agreement Model from O.R. Tambo District Municipality, its an agreement between the Client and Principal Agent Civil/Structural Engineers has the same meaning of the word "Client's Agent".</p> <p>4.4 It can be derived from the regulations that the client can appoint a designer to perform certain tasks of the client on his behalf. This still does not mean that these designers become his agent in terms of clause 4(5).</p> <p>4.5 The regulations are fairly quiet regarding the functions and responsibilities of the designer except when designing of a structure. It is again assumed that the client will identify certain functions to be done by the designer on his behalf.</p> <p>4.5.1 "Structure" in terms of the regulations means:</p> <p>(a)</p> <ul style="list-style-type: none"> • Any Building • Surface and underground tanks <p>earth retaining structure</p> <p>or any structure designed to preserve or alter any natural</p>	<p>Definitions "designer"</p> <p>Architects "Structural Engineers" Civil Engineers Architects, & Engineers Quantity Surveyors LS</p> <p>Clause 4(5)</p> <p>Clause 4(5)</p> <p>Definitions</p>
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feature and any other similar structure.	
(b) Any formwork, false work, scaffold or other structure designed or used to provide support or access during construction (structural engineering sector).	
(c) Fixed plant to prevent people from falling 2 meters or more.	
4.5.2 The designer is in fact regarded as a person delivering designs only and unless his role is defined by the client, his role is quite limited.	Clause 9(2)
4.5.3 The designer should inform the client and the principal contractor about anticipated dangers relating to the construction work. <u>This is in fact a Risk Assessment.</u>	Clause 9(2)(b)
4.5.4 The designer (in the structural engineering context) shall further furnish to the contractor in writing:	Clause 9(2)
i) A geo-technical report.	
ii) The loading of the structure.	
iii) The method and sequence of the construction process.	
iv) He should exclude inherently dangerous methods of construction in his design.	
v) The maintenance of the structure shall be through safe procedures.	
vi) He should carry out inspections.	
vii) And stop the contractor from executing work dangerously.	
viii) A final inspection is necessary to ensure safety of the structure.	
ix) Great emphasis should be given to the ergonomic design of the structure.	
x) The engineer should also give input in the design of temporary work e.g. scaffolding.	Clause 10(c)

SECTION 5

5. THE MAIN CONTRACTOR (MC) AND SUB-CONTRACTOR(S)

The responsibilities of these parties are comprehensively stipulated in the regulations.

5.1 In general it can be seen that the responsibilities of the MC (Main Contractor) towards his contractors is Mutatis Mutandis to the responsibilities of the Client towards the MC.	
5.2 The MC is responsible for the collecting of these sub-contractor(s)' safety plans and to hold them to it.	Clause 5(1) and (2)
i) He should also stop his contractors should they work unsafely.	Clause 5(3)(d)
ii) He should appoint safety officers should the size of the work warrant it.	Clause 6(6)
iii) He should cause a risk assessment to be executed by a competent person.	Clause 7(1)

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iv)	Visitors to his site should undergo induction pertaining to H&S issues.	Clause 7(8)
v)	He shall see to his employees induction and H&S training.	Clause 7(7)
vi)	The employees of the PC and his contractors shall wear visible proof of their induction training.	Clause 7(9)(a)
5.3	The regulations also covers the detail of:	
	• Fall protection	Clause 8
	• Structures (under this heading the responsibilities of the designer of a structure is found)	Clause 9
	• Formwork and support work	Clause 10
	• Excavation work	Clause 11
	• Demolition work	Clause 12
	• Tunnelling	Clause 13
	• Scaffolding	Clause 14
	• Suspended platforms	Clause 15
	• Boatswain's chairs	Clause 16
	• Material hoists	Clause 17
	• Batch plants	Clause 18
	• Explosive powered tools	Clause 19
	• Cranes	Clause 20
	• Construction vehicles and mobile plant	Clause 21
	• Electrical installation and machinery on construction sites	
	• Use and storage of flammable liquids on construction sites	
	• Water environment	Clause 22
	• Housekeeping on construction sites	
	• Stacking and storage on construction sites	Clause 23
	• Fire precautions on construction sites	Clause 24
	• Construction welfare facilities	Clause 25
		Clause 26
		Clause 27

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SECTION 6

6. APPOINTMENT OF THE PRINCIPAL AGENT (PA)

Clause 4(5)

- 6.1 The client appoints the Principal Consultant or designer as Principal Agent (PA) only for the particular project and also for the duration of the project.
- 6.2 The Appointed Principal Agent will operate as per the JBCC Main Agreement, thus assisted by the entire Professional Team and Shall delegate duties as stated o the JBCC.
- 6.3 The responsibilities and duties of a PA in the H&S context are those that are dictated by law and/or those respectively given to him by the client, except when he is a structural engineer and designs a "structure" in which case clause 9(2) applies automatically.
- 6.4 The client should only add to the responsibilities of the designer those which is not automatically in his hand in terms of clause 9(1) of the regulations.
- 6.5 The following duties are not regarded as normal work of the designer of a "structure" and will therefore require an additional appointment.
- .1 To ensure the H&S plan of the MC is implemented on site. Clause 4(1)(d)
 - .2 To ensure that changes to the design are also incorporated in the H&S plan. Clause 4(1)(e)
 - .3 To ensure that the principal contractor is registered and in good standing with the workmen's' compensation fund. Clause 4(1)(f)
 - .4 To see that the contractor registers the site as a construction site at the Department of Labour. Clause 4(1)(g)
 - .5 To discuss with the contractor the H&S plan and then recommend to the client the approval thereof. Clause 4(2)
 - .6 To keep a copy of the H&S plan of the contractor in his possession and see that a copy is forwarded to the client. Clause 4(4)
 - .7 Control the following on site:
 - a) To see that the principal contractor keeps the H&S file up to date and that it is given to the client upon completion of the contract. Clause 5(7)
 - b) To see that the principal contractor keeps a data base of all contractors involved with the project. Clause 5(9)
 - c) To see that the principal contractor appoints one or more construction supervisors. Clause 6(4)
 - d) To see that this person is dedicated to the particular project only. Clause 7(1)
 - e) To receive from the contractor his risk assessment and keep a copy of that for his and the client's records.

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SECTION 7

7. THE ROLE OF THE CLIENT

7.1	The client shall still prepare the H&S specification in terms of clause 4(1)(a) for its global activities. The H&S specification for the particular project is assigned to the designer.	Clause 4(1)(a)
7.2	The client shall approve of the H&S plan of the contractor, but on the recommendation of the consultant/ designer.	Clause
7.3	The client employs the Main Contractor.	Clause
7.4	The client can appoint an agent in which case all the responsibilities of the agent in the regulations are transferred to the agent.	Clause
7.5	The client should only appoint an agent should he have made reasonably sure that the agent can handle the responsibility.	Clause
7.6	The client shall not appoint a contractor if he is not reasonably sure that the contractor can execute such work in a safe manner.	Clause

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SECTION 8

8. THE ROLE OF THE MAIN CONTRACTOR

The principal contractor should execute the following duties:

- | | | |
|-----|--|--------------|
| .1 | Provide a health and safety plan. | 5(1) |
| .2 | See that his contractors comply with the regulations. | 5(2) |
| .3 | He should discuss the particular H&S plan. | 5(5) |
| .4 | He should have his H&S plan available. | 5(6) |
| .5 | He should have an H&S file available on site and hand it over to the client upon completion. | 5(7) |
| .6 | He should not employ contractors who are not capable. | 5(10) |
| .7 | He should have full time supervision on site. | 6(1) to 6(8) |
| .8 | He should produce a risk assessment of the work. | 7(1) |
| .9 | He should train his employees. | 7(4) |
| .10 | He should introduce induction training on site. | 7(7)/ 7(8) |
| .11 | All physical aspects of the regulations as in terms of the regulations. | |

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SECTION 9

9. THE PROCEDURE

9.1 The Client decides to execute work and appoints The Professional Service Providers (PSP's), mainly (Principal Agent, Quantity Surveyor, Architect, Civil/Structural Engineers, Electrical Engineers to administer construction work.

9.2 The scope of works and the exact duties of the Principal Agent Civil/Structural Engineers are identified and given to him in writing.

The Principal Agent PA should affect insurance by which the client is indemnified (by the designer) for acts and omissions of the designer. This type of insurance does not form part of the normal PI insurance provided by the designer.

The Quantity Surveyor must prepare the contract document and ensures that this document states clearly the following:

- .1 A risk assessment of the project and the H&S specification of the client.
- .2 All relevant information to enable the pricing of the contract.
- .3 Items in the bill to enable the tenderer to price for the risk including insurance indemnifying the client. The document should state whether a full-time safety officer is required on site.
- .4
 - (i) Geotechnical information
 - (ii) Loading of the structure – in other words all relevant technical data taking the definition of “structure” into account.
 - (iii) The method and sequence of the process. This should identify the priorities of the client.
- .5 Inherently dangerous procedures should be avoided in the design.
- .6 The maintenance of the structure should be considered also so that this aspect would be safe and ergonomic too.

9.3 The tenderers then respond by each giving a H&S plan based on the risk assessment of the designer.

9.4 The client then chooses the contractor according to his procurement policy (taking into account his ability to do the work safely) and appoints him in writing via the designer.

9.5 The chosen principal contractor then affects a detailed risk assessment and a risk management plan, based on the H&S specification.

Once on site the principal contractor should register the site

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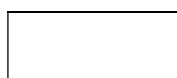
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by means of the prescribed form and have it approved by the client/PA.
He should open and then maintain his H&S file through the duration of the contract.

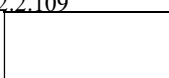
He should then further adhere to the provisions of the H&S regulations.

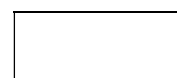
- 9.6 He should hand over the H&S file (recommend to do that with the designer's as-built drawings).
- 9.7 The PA should stop the work if he has reason to believe that the contractor is executing work in an unsafe manner.
- 9.8 Likewise, should the main contractor stop the work of his contractor(s) should he have reason to believe that such contractor is not working safely.

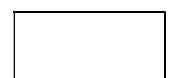

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SECTION 10

10. CONTRACT DOCUMENTATION

The contract documentation needs to emphasize the following points in order to comply with the Health and Safety Act 1993 and the Construction Regulations 2014. As well as COVID-19 OHS Measures in Workplace 2020,

A. In the Specification section

1. Health and Safety Specification

The Client shall issue the Designer with his Health and Safety specification and it shall be included as such in the document.

Should the Professional Quantity Surveyor be of the opinion that Variation Order and additions be made to the specification, due to the nature of works of the project, he shall forward the proposed variation order with breakdown costs or addition as an application to the Technical Director who will authorize this in writing after getting financial approval.

2. Risk Assessment

This can form part of the contract specifications.

It is necessary to identify to the contractor:

- i) The situation on site as it is with all the potential hazards and dangers involved.
- ii) The nature of the work and the situations that the average contractor would encounter during the execution of the work. The nature of the work and the expected risks should be described in particular as well as the method and the sequence of the work.
- iii) The basic safety precautions that he should take.
- iv) The Safety and Health specification of the client.

- v) To allow sufficient items in the bill of quantities for the tenderer to price for the specified H&S measures and precautions.

3. Insurance

The contractor shall affect insurance indemnifying the client against penalties levied upon the client due to the acts or omissions of the contractor in failing to comply with the provisions of the H&S regulations 2014. And COVI-19 OHS Measures in Workplace, 2020

The contractor shall prove to the Engineer that such insurance has been affected and maintained during the construction.

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B. **The Tender Rules**

The tender rules shall contain a clause requiring the contractor to submit a H&S plan based on the risk assessment given in the contract document. It should also state that the client is bound by law not to appoint a contractor should he be reasonably sure that the contractor would not be able to execute the work safely should he be appointed. The following example is recommended.


Compliance with the Regulations of the H&S Act 2014


Tenderers are required to study the published risk assessment and provide Annexure Y his Health and Safety Plan. Generic document will be disregarded. Such H&S plan should give details regarding the tenderers intention of dealing with the risks.

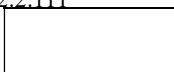
Failure to submit such H&S plan will result in disqualification of the tender.


Tenderers are informed that the client is bound by law not to accept a tender should he be reasonable sure that the tenderer will not be able to execute the work safely.



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1.0 GENERAL OCCUPATIONAL HEALTH AND SAFETY PROVISIONS

2.1 Hazard Identification and Risk Assessment (Construction Regulation 7)

2.1.1 Risk Assessments

Paragraph 4 contains a generic list of risk assessment headings that have been identified by The Employer as possibly applicable to this contract. It is, by no means, exhaustive and is offered as assistance to contractors intending to bid.

2.1.2 Development of Risk Assessment

Every principal contractor performing construction work shall, before the commencement of any construction work or work associated with the aforesaid construction work and during such work, cause a risk assessment to be performed by a competent person, appointed in writing, and the risk assessment shall form part of the OH&S plan and be implemented and maintained as contemplated in Construction Regulation 5(1).

The risk assessment shall include at least:

- *the identification of the risks and hazards to which persons may be exposed*
- *the analysis and evaluation of the risks and hazards identifies*
- *a documented plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified.*
- *a monitoring plan and*
- *a review plan*

Based on the risk assessment, the principal contractor shall develop set site-specific OH&S rules that shall be applied to regulate the OH&S aspects of the construction. The risk assessment, together with the site-specific OH&S rules shall be submitted to The Employer before construction on site commences.

Despite the risk assessment listed in paragraph4, the principal contractor shall conduct a baseline risk assessment and the aforesaid listed risk assessment shall be incorporated into the baseline risk assessment. The baseline assessment shall further include the standard working procedures and the applicable method statements based on the risk assessments.

All variations to the scope of work shall similarly be subjected to a risk assessment process.

2.1.3 Review of Risk Assessment

The principal contractor shall review the hazard identification, risk assessments and standard working procedures at each production planning and progress report meetings as the contract work develops and progresses and each time changes are made to the designs, plans and construction methods and processes. The principal contractor shall provide The Employer, other contractors and all other concerned parties with copies of any changes, alterations or amendments as contemplated in paragraph 2.1.3.

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2.2 Legal Requirements

A principal contractor shall, as minimum, comply with:

The Occupational Health and Safety Act and Regulations (Act 85 of 1993), an up to date copy of which shall be available on site at all times.

The Compensation or Occupational Injuries and Diseases Act (Act 130 of 1993), an up to date copy of which shall be available on site at all times.

COVID-19 Occupational Health And Safety Measures in Workplace, 2020

Where work is being carried out on a "mine", the contractor shall comply with the Mines Health and Safety Act and Regulations (Act 29 of 1960) and any other OH&S requirements that the mine may specify. An up-to-date copy of the Mine's Health and Safety Act and Regulations shall be available on site at all times.

2.3 Structure and Responsibilities

It is a requirement that the principal contractor, when he appoints contractors (Sub-contractors) in terms of Construction Regulations 5(3), 5(5), 5(10), and 5(12) includes in his agreement with such contractors the following:

- OH& S Act (85 of 1993), Section 37(2) agreement: "Agreement with Mandatory"
- OH&S Act (85 of 1993), Section 16(2) appointee/s as detailed in his / her/ their respective appointment forms.

2.2.3 Further (Specific) Supervision Responsibilities for OH & S

The contractor shall appoint designated competent employees and/or other competent persons as required by the Act and Regulations. Below is a generic list of identified appointments and may be used to select the appropriate appointments for this contract. The contractor shall note it is a generic list only and is intended for use as a guideline.

Ref. Section/ Regulation in OHS Act

Batch Plant Supervisor	(Construction Regulation 6(1))
Construction Vehicles/ Mobile Plant/ Machinery Supervisor	(Construction Regulation 21)
Demolition Supervisor	(Construction Regulation 12)
Drivers/Operators of Construction Vehicles/ Plant	(Construction Regulation 21)
Electrical Installation and Appliances Inspector	(Construction Regulation 22)
Emergency/Security/Fire Control	(Construction Regulation 27)
Excavation Supervisor	(Construction Regulation 11)
Explosive powered Tool Supervisor	(Construction Regulation 19)
Fall Protection Supervisor	(Construction Regulation 8)
First Aider	(Construction Regulation 3)
Fire Equipment Inspector	(Construction Regulation 27)
Formwork & Support work Supervisor	(Construction Regulation 10)
Hazardous Chemical Substances Supervisor	(HCS Regulations)
Incident Investigator	(General Admin Regulation 29)
Ladder Inspector	(General Safety Regulation 13A)
Lifting Equipment Inspector	(Construction Regulation 20)
Material Hoist Inspector	(Construction Regulation 17)
OH&S Committee	(OH&S Section 19)
OH&S Officer	(Construction Regulation 6(6))

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2)	OH&S Representatives Person Responsible for Machinery	(OHS Act Section 17) (General Machinery Regulation)
	Scaffolding Supervisor	(Construction Regulation 14)
	Stacking & Storage Supervisor	(Construction Regulation 26)
	Structures Supervisor	(Construction Regulation 9)
	Suspended Platform Supervisor	(Construction Regulation 15)
	Tunneling under Pressure Supervisor	(Construction Regulation 13)
	Vessel under Pressure Supervisor (Vessel under Pressure Regulations)	
	Working on/next to Water Supervisor	(Construction Regulation 24)
	Welding Supervisor	(General Safety Regulation 9)

In addition, The Employer requires that a Traffic Safety Officer be appointed (see COLTO Section 1500). The above appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment is made. This information shall be communicated and agreed with the appointees. Notice of appointments shall be submitted to The Employer. All changes shall also be communicated to the Employer.

The principal contractor or shall, furthermore, provide The Employer with an organogram of all contractors that he/she has appointed or intends to appoint and keep this list updated and prominently displayed on site.

Where necessary, or when instructed by an inspector of the Department of Labour, the principal contractor shall appoint a component safety officer.

2.3.3 Designation of OH&S Representatives (Section 17 of the OH&S Act)

Where the principal contractor employs more than 20 persons (including the employees of other contractors (sub-contractors) he has to appoint one OH&S representatives for every 5 employees or part thereof. General Administrative Regulation 6 requires that the appointment or election and subsequent designation of the OH&S representatives be conducted in consultation with employee representatives or employees. (Section 17 of the Act and General Administrative Regulation 6 & 7). OH&S representatives shall be designated in writing and the designation shall include the area of responsibility of the person and term of the designation.

2.3.4 Duties and Functions of the OH&S representatives (Section 18 of the OH&S Act)

The principal contractor shall ensure that the designated OH&S representatives conduct continuous monitoring and regular inspections of their respective areas of responsibility using a checklist and report thereon to the principal contractor. OH&S representatives shall be included in accident or incident investigations. OH&S representatives shall attend all OH&S committee meetings.

2.3.5 Appointment: of OH&S Committee (Section 19 and 20 of the OH&S Act)

The principal contractor shall establish an OH&S committee, which shall meet as specified in the Regulations.

2.4 Administrative Controls and the Occupational Health & Safety File

2.4.1 The OH&S File (Construction Regulation 5(7))

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As required by the Construction Regulation 5(7), the principal contractor and other contractors shall each keep an OH&S file on site. The following list is not exhaustive and shall only be used as a guide:

- Notification of construction work (Construction Regulation 3)
- Latest copy of OH&S Act (General Administrative Regulation 4)
- Latest copy of Construction Regulation, 2014
- Latest copy of COVI-19 Occupational Health & Safety Measures in work place, 2020
- Proof of registration and good standing with COID Insurer (Construction Regulation 4(g))
- OH&S plan agreed with the client including the underpinning risk assessment/s and method statements(Construction Regulation 5(1))
- Copies of OH&S committee and other relevant minutes
- Designs/Drawings (Construction Regulation 5(8))
- A list of contractors (sub-contractors) including copies of the agreements between the parties and the type of work being done by each contractor (Construction Regulation 9)
- Appointment/designation forms as per paragraphs 2.1.1 and 2.1.2
- Registered as follows:
 - Accident/incident register (Annexure 1 of the General Administrative Regulations)
 - OH&S representatives' inspection register
 - Asbestos demolition and stripping register
 - Batch plant inspections
 - Construction vehicles and mobile plant inspections by controller
 - Daily inspection of vehicles, plant and other equipment by the operator/driver/user
 - Demolition inspection register
 - Designer's inspection of structures record
 - Electrical installations, equipment and appliances including portable electrical tools)
 - Excavations inspector
 - Explosive powered tool inspection, maintenance, issue and returns register (incl. Cartridges and nails)
 - Fall protection inspection register
 - First aid box contents
 - Fine equipment inspection and maintenance
 - Formwork and support work inspections
 - Hazardous chemical substances record
 - Ladder inspections
 - Lifting equipment register
 - Materials hoist inspection register
 - Machinery safety inspection register (incl. Machine guards, lock-outs etc.)
 - Scaffolding inspections
 - Stacking and storage inspection
 - Inspection of structures
 - Inspection of suspended platforms
 - Inspection of tunnelling operations
 - Inspection of vessels under pressure
 - Welding equipment inspections
 - Inspection of work conducted near water
 - All other applicable records including traffic safety officer reports.

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The Employer will conduct an audit on the OH&S file of the principal constructor from time-to-time.

2.5 Notification of Construction Work (Construction Regulation 3)

The principal constructor shall, where the contract meets the requirements laid down in Construction work and use the form (Annexure A in the Construction Regulations) for the purpose. A copy shall be kept on the OH&S file and a copy shall be forwarded to The Employer for record keeping purposes.

2.6 Training and Competence

The contents of all training required by the Act and Regulations shall be included in the principal contractor's OH&S plan. The principal contractor shall be responsible for ensuring that all relevant training is undertaken.

Only accredited service providers shall be used for OH&S training. The principal contractor shall ensure that his and other contractor's personnel appointed are competent and that all training required to do the work safely and without risk to health, has been completed before work commences. The principal contractor shall ensure that follow-up and refresher training is conducted as the contract progresses and the work situation changes. Records of all training must be kept on the OH&D file for auditing purposes.

2.7 Consultations, Communication and Liaison

OH&S liaison between the client, the principal contractor, the other contractors, the designer and other concerned parties will be through the OH&S committee as contemplated in paragraph 2.3.5. In addition to the above, communication may be directly to the client or his appointed agent, verbally or in writing, as and when the need arises.

Consultation with the workforce on OH&S matters will be through their supervisions, OH&S representatives and the OH&S committee. The principal contractor shall be responsible for the dissemination of all relevant OH&S information to the other contractors e.g. design changes agreed with the client and the designer, instructions by the client and/or/his/her agent, exchange of information between contractors, the reporting of hazardous/dangerous conditions/situations etc. The principal contractor's most senior manager on site shall be required to attend all OH&S meetings.

2.8 Checking Reporting and Corrective Actions

2.8.1 Monthly Audit by Client (Construction Regulation 4(1) (d))

The Employer will conduct monthly audits to comply with Construction Regulation 4(1)(d) to ensure that the principal contractor has implemented and is maintaining the agreed and approved OH&S plan.

2.8.2 Other Audits and Inspections by The Employer

The Employer reserves the right to conduct other hoc audits and inspections as deemed necessary. This will include site safety walks.

2.8.3 Contractor's Audits and Inspections

The principal contractor is to conduct his own monthly internal audits to verify compliances with his own OH&S management system as well as this specification.

2.8.4 Inspections by OH&S Representatives and other Appointees

OH&S representatives shall conduct weekly inspections of their areas of responsibility and report thereon to their foreman or supervisor whilst other appointees shall conduct

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inspections and report thereon as specified in their appointments e.g. vehicle and machinery drivers, operators and users must conduct daily inspections before start-up.

2.8.5 Recording and Review of Inspection Results

All the results of the above-mentioned inspections shall be in writing at OH&S committee meetings, endorsed by the chairman of the meeting and placed on the OH&S File.

2.9 Accidents and Incident Investigation (General Administrative Regulation 9)

The principal contractor shall be responsible for the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to be referred for medical treatment by a doctor, hospital or clinic. The results of the investigations shall be entered into an accident/incident register listed in paragraph 2.4.1

The principal contractor shall be responsible for the investigation of all minor and non-injury incidents as described in Section 24 (1) (b) & (c) of the Act and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

2.10 Reporting

The principal contractor shall provide the Employer with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring.

2.0 OPERATIONAL CONTROL

3.1 Operational Procedures

Each construction activity shall be assessed by the principal contractor so as to identify operational procedures that will mitigate against the occurrence of an incident during the execution of each activity. This specification requires the principal contractor:

- to be conversant with Regulations 8 to 29 (inclusive)
- to comply with their provisions
- to include them in his OH&S plan where relevant

3.2 Emergency Procedure

Simultaneous with the identification of operational procedures (per paragraph 3.1 above), the principal contractor shall similarly identify and formulate emergency procedures in the event an incident does occur. The emergency procedures thus identified shall also be included in the principal contractor's OH&S plan.

3.3 Personal & Other Protective Equipment (Section 8/ 15/ 23 of the OH&S Act)

The contractor shall identify the hazards in the workplace and deal with them. He must either remove them or, where impracticable, take steps to protect workers and make it possible for them to work safely and without risk to health under the hazardous conditions.

Personal protective equipment (PPE) should, however, be the last resort and there should always first be an attempt to apply engineering and other solutions to mitigating hazardous situations before the issuing of PPE is considered.

Where it is not possible to create an absolutely safe and healthy workplace the contractor shall inform employees regarding this and issue, free of charge, suitable equipment to protect them from any hazards being present and that allows them to work safely and without risk to health in the hazardous environment.

T2.2.117

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

It is a further requirement that the contractor maintain the said equipment, that he instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s.

Employees do not have the right to refuse to use/wear the equipment prescribed by the employer and, if it is impossible for an employee to use or wear prescribed protective equipment through health or any other reason, the employee cannot be allowed to continue working under the hazardous condition/s for which the equipment was prescribed but an alternative solution has to be found that may include relocating or discharging the employee.

The principal contractor shall include in his OH&S plan the PPE he intends issuing to his employees for use during construction and the sanctions he intends to apply in cases of non-conformance by his employees. Conformance to the wearing of PPE shall be discussed at the weekly inspection meetings.

3.4 Other Regulations

Wherever in the Construction Regulations or this specification there is reference to other regulations (e.g. Construction Regulation 22: Electrical and Machinery on Construction Sites) the principal contractor shall be conversant with and shall comply with these regulations.

3.5 Public Health and Safety (Section 9 of the OH&S Act)

The principal contractor shall be responsible for ensuring that non-employees affected by the construction work are aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimize those dangers. This includes:

- *Non-employees entering the site for whatever reason*
- *The surrounding community*
- *Passers-by to the site*

Contractor

Witness 1

Witness 2

T2.2.118

Employer

Witness 1

Witness 2

FORM C1.5 SUPPLY CHAIN MANAGEMENT POLICY

Please refer to OR Tambo Procurement Policy

C2 PRICING DATA

C 2.1 Pricing Instructions

C 2.2 Scope of Works

C 2.3 Site Information

C 2.4. Drawing Attachments

BILLS OF QUANTITIES

Contractor

Witness 1

Witness 2

T2.2.119

Employer

Witness 1

Witness 2

FORM C2.1 PRICING INSTRUCTIONS

1. The Tender Data, the Scope of Works and the Drawings are to be read in conjunction with the Bill of Quantities.
2.
 - a. The Bill of Quantities comprises items covering the Consortium's profit and costs of general liabilities and of the construction of temporary and permanent Works.
 - b. Although the Tenderer is at liberty to insert a rate of his own choosing for each item in the Bill of Quantities, his attention is drawn to the fact that the tenderer has the right, under various circumstances, to payment for additional works carried written and signed in Contract Instructions and approved first by the Quantity Surveyor and submitted to the Client first for Approval.
3. Descriptions in the Bills of Quantities are fully stating and clearly articulating items and measurements as per The Standard Systems of Measuring Builder's Work 6th Edition, Including Preambles and all Descriptions given in Architectural Drawings, Specifications and all Engineering drawings.
5. The Rates and Prices to be inserted in the Bill of Quantities are to be the full inclusive prices. The prices and rates shall be exclusive of Value Added Tax. Such prices shall cover all costs and expenses that may be required in and for the construction of the work described, and shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the documents on which the tender is based.
6. A price or rate is to be entered, in **BLACK INK**, against each item in the Schedule of Quantities.
7. In the event of the Tenderer failing to price any item it will be held that the Tenderer has made adequate allowance under other items for all labour, material and costs required for the execution, not only of the quantum of work covered by the unpriced item but also for any increase in the said quantum which may have to be undertaken during the course of the Contract.
8. An amount or rate shall be entered against each item in the Bill of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bill.
The Bidder shall also fill in a rate against the items where the words "rate only" appears in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the

Contractor

Witness 1

Witness 2

T2.2.120

Employer

Witness 1

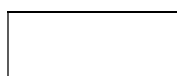
Witness 2

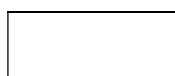
Professional Quantity Surveyor PrQS Balanced & Signed Rates (not bided rates) shall apply should work under these items actually be required.

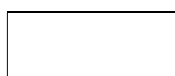
- 9 The quantities set out in the Bills of quantities in Provisional Trades Like Foundations, Site-works will be re-measured based on Drawings, Specifications and Work Done of Site approved by PA, QS & Engineers.
- 10 For the purposes of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:
- Unit : The unit of measurement for each item of work as defined in the Standard System of Measuring Builder's work.
- Quantity : The number of units of work for each item
- Rate : The payment per unit of work at which the Bidder bids to do the work
- Amount : The quantity of an item multiplied by the bided rate of the (same) item
- Sum : An amount bided for an item, the extent of which is described in the Bill of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units
11. The units of measurement indicated in the Bill of Quantities are metric units.

The following abbreviations may appear in the Bill of Quantities as per the Standard Systems of Measuring Builder's Work 6th Edition.

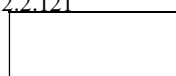
mm	=	millimetre
m	=	metre
km	=	kilometre
m ²	=	square metre
m ³	=	cubic metre
kw	=	kilowatt
kn	=	kilo newton
T	=	Tonne
kg	=	kilogram
%	=	percent
No	=	Number
Item	=	Item
Ps	=	Provisional Sum
PC	=	Prime Cost Item
Cont	=	Contingencies
VAT	=	Value Added Tax

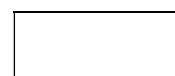

Contractor

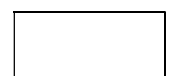

Witness 1


Witness 2

T2.2.121


Employer


Witness 1


Witness 2

FORM C 2.2 DETAILED SCOPE OF WORKS

C 2.2 DETAILED SCOPE OF WORKS

Construction of Mhlontlo Disaster Management Centre:

Comprising of the following building Blocks:

1. Main Administration Building Comprising of the following

- 1.1. Executive Offices
- 1.2. General Offices
- 1.3. Two Boardrooms
- 1.4. Supporting facilities (Two Receptions, Meeting Rooms, Kitchen with dining rooms, Teller with Strong Store rooms)
- 1.5. Storage & Archives Facilities
- 1.6. Fire Station
- 1.7. Sleeping Facilities
- 1.8. Training Room
- 1.9. Common Room
- 1.10. Ablution Facilities

2. Bulk Storage Building Comprising of the following:

- 2.1. Disaster management Store
- 2.2. Water Department Store
- 2.3. Fire Department Store
- 2.4. Common Room
- 2.5. Three Offices
- 2.6. Kitchen
- 2.7. Ablutions facilities

3. Two Guard Houses comprising of the following:

- 3.1. Watching area with 180 degrees window views
- 3.2. Ablution facility

4. Site works which entails the following:

- 4.1. Site clearance including bulk earthworks & backfilling
- 4.2. Parking Area, Walkways and Kerbs
- 4.3. Storm water drainage and water channels with main holes
- 4.4. High Security Fencing including Access gates.
- 4.5. Septic tank with French drain

NB: Attached at the back of the Tender Document are Site Layout Drawings.

Contractor

Witness 1

Witness 2

T2.2.122

Employer

Witness 1

Witness 2

C 2.3. SITE INFORMATION

Bidders are expected to make their own assessment of the site, site access, geotechnical conditions, services etc before submitting Bids.

No claims for extension of time or additional compensation of any kind will be entertained if it is found (in the opinion of the Engineer) that such claims are the result of a lack of knowledge of the site conditions where such conditions could and would have been reasonably foreseen by a suitably qualified and competent person carrying out an investigation of the site.

LOCATION AND DESCRIPTION

The project is located approximately in Qumbu Town. Mhlontlo Local Municipality within the jurisdiction of OR Tambo District Municipality in the province of the Eastern Cape.

The area is known to have mild to general warm climate with dominantly summer rainfall. According to Climate-Data.Org, the average rainfall is approximately 693mm per annum with more than 70% of the annual rainfall occurring during the summer period. High temperatures can be experienced during the summer months while May to August are the coldest months. The average annual temperature is recorded to be 17.5°C.

C 2.4 TENDER DRAWINGS

Attached are Architectural Drawings Civil/Structural Engineering Drawings

Contractor

Witness 1

Witness 2

T2.2.123

Employer

Witness 1

Witness 2

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>Bill No: 1</u></p> <p><u>BILL No. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>(CPAP Work Group No. 190 Unless Otherwise Stated)</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder".</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein.</p> <p>The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause.</p> <p>These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause.</p> <p>Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related</p> <p>and the respective amounts entered in the spaces provided under each item.</p>			
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Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities and in the Contractor's Pricing.

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1.0 DEFINITIONS AND INTERPRETATION**

Clause 1.0

Clause 1.1 Definition of "**Commencement Date**" is added:

CONSTRUCTION

Start Date: _____ Month _____ Year: 2021

To

Completion Date: _____ Month _____ Year: _____

"**COMMENCEMENT DATE**" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect.

Clause 1.1 Definition of "**Construction Guarantee**" is amended by replacing it with the following:

"**CONSTRUCTION GUARANTEE**" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**.

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"**CONSTRUCTION PERIOD**" means the period commencing on the **date that possession of the site is given to the contractor** and ending on the date of **practical completion**.

This Project shall be a 18 Months Project excluding Builders Holiday starting from the 15th December to 15th January yearly.

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Clause 1.1 Definition of "**Corrupt Practice**" is added:

"**CORRUPT PRACTICE**" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

"**FRAUDULENT PRACTICE**" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

Clause 1.1 Definition of "**Interest**" is amended by replacing it with the following:

"**INTEREST**" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

Clause 1.1 Definition of "**Principal Agent**" is amended by replacing it with the following:

"**PRINCIPAL AGENT**" means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**.

Clause 1.1 Definition of "**Security**" is amended by replacing it with the following:

"**SECURITY**" means the form of security provided by the **employer** of **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss.

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

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Clause 1.6.4 is amended by replacing it with the following:

No clause

Fixed:_____ Value related:_____ Time related:_____

Item

OBJECTIVE AND PREPARATION

1 A2.0 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed:_____ Value related:_____ Time related:_____

Item

2 A3.0 DOCUMENTS

Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the **site**, to which the **employer**, **principal agent** and **agents** shall have access at all times.

Clause 3.10 is amended by replacing the second reference to "**principal agent**" with the word "**employer**".

Fixed:_____ Value related:_____ Time related:_____

Item

3 A4.0 DESIGN RESPONSIBILITY

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

Fixed:_____ Value related:_____ Time related:_____

Item

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1	<p>A5.0 EMPLOYER'S AGENTS</p> <p>Clause 5.0</p> <p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
2	<p>A6.0 SITE REPRESENTATIVE</p> <p>Clause 6.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
3	<p>A7.0 COMPLIANCE WITH REGULATIONS</p> <p>Clause 7.0</p> <p>Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
4	<p>A8.0 WORKS RISK</p> <p>Clause 8.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
5	<p>A9.0 INDEMNITIES</p> <p>Clause 9.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
6	<p>A10.0 WORKS INSURANCES</p> <p>Clause 10.0</p> <p>Clause 10.0 is amended by the addition of the following clauses:</p> <p style="text-align: right; margin-right: 100px;">Carried to Abstract</p> <p>Bill No. 1 Preliminaries O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021</p>		R

10.5 Damage to the Works

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary.
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**.
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof.

Fixed:_____ Value related:_____ Time related:_____

Item

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable.

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- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable.
- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**.
- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**.
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequately insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed.
- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**.

Fixed:____ Value related:_____ Time related:_____

Item

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10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the **commencement date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary.

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs.

10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract.

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10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so.

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole.

Fixed:____ Value related:_____ Time related:_____

Item

1 A11.0 LIABILITY INSURANCES

Clause 11.0

Fixed:____ Value related:_____ Time related:_____

Item

2 A12.0 EFFECTING INSURANCES

Clause 12.0

Fixed:_____ Value related:_____ Time related:_____

Item

3 A13.0 No clause

4 A14.0 SECURITY

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

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14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be provided by the **contractor** to the **employer** will be a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT).

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A).

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the **contractor**.

14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty one (21) **calendar days** from **commencement date**.

14.3.2 Within twenty one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**.

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14.3.3 Within twenty one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**.

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**.

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**.

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party.

14.4 Not Applicable

14.5 Where **security** as a fixed **construction guarantee** of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed **construction guarantee** to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT).

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of **practical completion**.

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring.

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

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14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both.

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty one (21) **calendar days** from **commencement date**.

14.6.2 Within twenty one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**.

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A).

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B).

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**.

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14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**.

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable.

Fixed:_____ Value related:_____ Time related:_____

Item

EXECUTION

1 A15.0 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty one (21) **calendar days** of **commencement date**.

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.4

Fixed:_____ Value related:_____ Time related:_____

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1	<p>A16.0 ACCESS TO THE WORKS</p> <p>Clause 16.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
2	<p>A17.0 CONTRACT INSTRUCTIONS</p> <p>Clause 17.0</p> <p>Clause 17.1.11 is amended by deleting the words "and the appointment of nominated and selected subcontractors".</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
3	<p>A18.0 SETTING OUT OF THE WORKS</p> <p>Clause 18.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
4	<p>A19.0 ASSIGNMENT</p> <p>Clause 19.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
5	<p>A20.0 NOMINATED SUB-CONTRACTORS</p> <p>Clause 20.0</p> <p>Clause 20.1.3 is amended by replacing it with the following:</p> <p>No Clause</p> <p>Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums.</p> <p>Fixed:_____ Value related:_____ Time related: 100%_____</p>	Item	
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1	<p>A21.0 SELECTED SUBCONTRACTORS</p> <p>Clause 21.0</p> <p>Clause 21 is amended by replacing it with:</p> <p>No Clause</p> <p>Fixed:_____ Value related:_____ Time related:___100%__</p>	Item	
2	<p>A22.0 EMPLOYER'S DIRECT CONTRACTORS</p> <p>Clause 22.0</p> <p>Fixed:_____ Value related:_____ Time related:___100%__</p>	Item	
3	<p>A23.0 CONTRACTOR'S DOMESTIC SUBCONTRACTORS</p> <p>Clause 23.0</p> <p>Fixed:_____ Value related:_____ Time related:___100%__</p>	Item	
<u>COMPLETION</u>			
4	<p>A24.0 PRACTICAL COMPLETION</p> <p>Clause 24.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
5	<p>A25.0 WORKS COMPLETION</p> <p>Clause 25.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
6	<p>A26.0 FINAL COMPLETION</p> <p>Clause 26.0</p> <p>Clause 26.1.2 is amended by inserting "#" next to 26.1.2</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
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1	<p>A27.0 LATENT DEFECTS LIABILITY PERIOD</p> <p>Clause 27.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
2	<p>A28.0 SECTIONAL COMPLETION</p> <p>Clause 28.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
3	<p>A29.0 REVISION OF DATE FOR PRACTICAL COMPLETION</p> <p>Clause 29.0</p> <p>Clause 29.2.5 is amended by replacing it with:</p> <p>No clause</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item		
4	<p>A30.0 PENALTY FOR NON-COMPLETION</p> <p>Clause 30.0</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p>Penalties per Calendar Day for this Project shall be estimated to be R _____.</p> <p><u>PAYMENT</u></p>	Item		
5	<p>A31.0 INTERIM PAYMENT TO THE CONTRACTOR</p> <p>Clause 31.0</p> <p>Clause 31.5.2 is amended by replacing "14.7.1" with "14.0"</p> <p>Clause 31.8 as amended by replacing it with the following two alternative clauses:</p>			
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Alternative A

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**.

31.8(A).2 Ninety seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**.

31.8(A).3 Ninety nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6.

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 has been selected, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**.

31.8(B).2 Ninety seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**.

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31.8(B).3 Ninety nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**.

Clause 31.12 is amended by deleting the following:

Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due.

Fixed:_____ Value related:_____ Time related:_____

Item

1 **A32.0 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed:_____ Value related:_____ Time related:_____

Item

2 **A33.0 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Fixed:_____ Value related:_____ Time related:_____

Item

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1 **A34.0 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

Clause 34.1 is amended by removing "#" next to 34.1

Clause 34.2 is amended by inserting "#" next to 34.2

Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"

Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due".

Fixed:_____ Value related:_____ Time related:_____

Item

2 **A35.0 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed:_____ Value related:_____ Time related:_____

Item

CANCELLATION

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1 **A36.0 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT**

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract.

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa.

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract.

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**".

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.

Fixed:_____ Value related:_____ Time related:_____

Item

2 **A37.0 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

Clause 37.3.5 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)".

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Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.

Fixed:_____ Value related:_____ Time related:_____

Item

1 A38.0 CANCELLATION BY CONTRACTOR - EMPLOYERS DEFAULT

Clause 38.0

Clause 38.5.4 is amended by replacing "ninety (90)" with "one-hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed:___100%_ Value related:_____ Time related:_____

Item

2 A39.0 CANCELLATION - CESSATION OF THE WORKS

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) **working days** of completion of such a report"

Fixed:___100%_ Value related:_____ Time related:_____

Item

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DISPUTE

1 **A40.0 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years".

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs.

Fixed: 100% Value related: _____ Time related: _____

Item

SUBSTITUTE PROVISIONS

2 **A41.0 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

THE SCHEDULE (C1.2 CONTRACT DATA)

3 **A42.0 PRE-TENDER INFORMATION**

Clause 42.0

Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.

Fixed: _____ Value related: _____ Time related: _____

Item

SECTION B: JBCC PRELIMINARIES

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B1.0 DEFINITIONS AND INTERPRETATION

1 **B1.1 Definitions and interpretation**

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.

Fixed:_____ Value related:_____ Time related:_____

Item

B2.0 DOCUMENTS

2 **B2.1 Checking of documents**

(Main Bills of Quantities/Sub-contractors Schedule of Quantities with Rates/Quotations etc)

Fixed:_____ Value related:_____ Time related:___100%__

Item

3 **B2.2 Provisional bills of quantities**

Fixed:_____ Value related:_____ Time related:_____

Item

4 **B2.3 Availability of construction documentation**

Fixed:_____ Value related:_____ Time related:_____

Item

5 **B2.4 Interests of agents**

Fixed:_____ Value related:_____ Time related:_____

Item

6 **B2.5 Priced documents**

Fixed:_____ Value related:_____ Time related:_____

Item

7 **B2.6 Tender submission(s)**

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)". (All Minor Contracts to be signed Off Between the main contractor and all sub-contractors) Supervision and Management of all

Fixed:_____ Value related:_____ Time related:___100%__

Item

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	B3.0 THE SITE			
1	B3.1 Defined works area Fixed:_____ Value related:_____ Time related:_____	Item		
2	B3.2 Geotechnical investigation Fixed:_____ Value related:_____ Time related:_____	Item		
3	B3.3 Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission. Fixed:_____ Value related:_____ Time related:_____	Item		
4	B3.4 Existing premises occupied Fixed:_____ Value related:_____ Time related:_____	Item		
5	B3.5 Previous work - dimensional accuracy Fixed:_____ Value related:_____ Time related:_____	Item		
6	B3.6 Previous work - defects Fixed:_____ Value related:_____ Time related:_____	Item		
7	B3.7 Services - known Fixed:_____ Value related:_____ Time related:_____	Item		
8	B3.8 Services - unknown Fixed:_____ Value related:_____ Time related:_____	Item		
9	B3.9 Protection of trees Fixed:_____ Value related:_____ Time related:_____	Item		
10	B3.10 Articles of value Fixed:_____ Value related:_____ Time related:_____	Item		
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1	B3.11 Inspection of adjoining properties Fixed:_____ Value related:_____ Time related:___100%__	Item	
	B4.0 MANAGEMENT OF CONTRACT		
2	B4.1 Management of the works Fixed:_____ Value related:_____ Time related:_____	Item	
3	B4.2 Programme for the works Fixed:_____ Value related:_____ Time related:___100%__	Item	
4	B4.3 Progress meetings Fixed:_____ Value related:_____ Time related:_____	Item	
5	B4.4 Technical meetings Fixed:_____ Value related:_____ Time related:_____	Item	
6	B4.5 Labour and plant records Fixed:_____ Value related:_____ Time related:_____	Item	
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS		
7	B5.1 Samples of materials Fixed:_____ Value related:_____ Time related:___100%__	Item	
8	B5.2 Workmanship samples Fixed:_____ Value related:_____ Time related:___100%__	Item	
9	B5.3 Shop drawings Fixed:_____ Value related:_____ Time related:_____	Item	
10	B5.4 Compliance with manufacturers' instructions Fixed:_____ Value related:_____ Time related:_____	Item	
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B6.0 TEMPORARY WORKS AND PLANT

1 **B6.1 Deposits and fees**

Fixed:_____ Value related:_____ Time related:_____

Item

2 **B6.2 Enclosure of the works**

Fixed:_____ Value related:_____ Time related:_____

Item

3 **B6.3 Advertising**

Fixed:_____ Value related:_____ Time related:_____

Item

4 **B6.4 Plant, equipment, sheds and offices**

Fixed:_____ Value related:_____ Time related:_____

Item

5 **B6.5 Main notice board**

**Errect and Build Main Notice Board as directed by the
 Architects/PA Drawings (Including Logos,materials,sub-
 Notice Boards, etc)**

Fixed:_____ Value related:_____ Time
 related:_____

Item

6 **B6.6 Subcontractors' notice board**

Fixed:_____ Value related:_____ Time related:_____

Item

B7.0 TEMPORARY SERVICES

7 **B7.1 Location**

Fixed:_____ Value related:_____ Time related:_____

Item

8 **B7.2 Water**

Fixed:_____ Value related:_____ Time
 related:_____

Item

9 **B7.3 Electricity**

Fixed:_____ Value related:_____ Time related:_____

Item

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1	B7.4 Telecommunication facilities Fixed:_____ Value related:_____ Time related:_____	Item	
2	B7.5 Ablution facilities Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B8.0 PRIME COST AMOUNTS</u>		
3	B8.1 Responsibility for prime cost amounts Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>		
4	B9.1 General attendance Fixed:_____ Value related:_____ Time related:_____	Item	
5	B9.2 Special attendance Fixed:_____ Value related:_____ Time related:_____	Item	
6	B9.3 Commissioning - fuel, water and electricity Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B10.0 FINANCIAL ASPECTS</u>		
7	B10.1 Statutory taxes, duties and levies Fixed:_____ Value related:_____ Time related:_____	Item	
8	B10.2 Payment for preliminaries Fixed:_____ Value related:_____ Time related:_____	Item	
9	B10.3 Adjustment of preliminaries Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site " with "in his priced bills of quantities / lump sum document submitted with his tender offer". Fixed:_____ Value related:_____ Time related:_____	Item	
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1	B10.4 Payment certificate cash flow Fixed:_____ Value related:_____ Time related:_____	Item	
	B11.0 GENERAL		
2	B11.1 Protection of the works Fixed:_____ Value related:_____ Time related: 100%	Item	
3	B11.2 Protection / isolation of existing / sectionally occupied works Fixed:_____ Value related:_____ Time related:_____	Item	
4	B11.3 Security of the works Fixed:_____ Value related:_____ Time related: 100%	Item	
5	B11.4 Notice before covering work Fixed: 100% Value related:_____ Time related:_____	Item	
6	B11.5 Disturbance Fixed:_____ Value related:_____ Time related:_____	Item	
7	B11.6 Environmental disturbance Fixed:_____ Value related:_____ Time related: 100%	Item	
8	B11.7 Works cleaning and clearing Fixed:_____ Value related:_____ Time related: 100%	Item	
9	B11.8 Vermin Fixed:_____ Value related:_____ Time related:_____	Item	
10	B11.9 Overhand work Fixed:_____ Value related:_____ Time related:_____	Item	
11	B11.10 Instruction manuals and guarantees Fixed:_____ Value related:_____ Time related:_____	Item	
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1	<p>B11.11 As built information</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
2	<p>B11.12 Tenant installations</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
B12.0 SCHEDULE OF VARIABLES			
3	<p>B12.1 Schedule of variables</p> <p>Fixed:_____ Value related:_____ Time related:_____</p> <p>This schedule contains all variables referred to in this document and is divided into pre-tender and post tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post tender categories form part of these Preliminaries.</p> <p>Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicized in [] brackets.</p> <p>12.1 PRE-TENDER INFORMATION</p> <p>12.1.1 Provisional Bills of Quantities [2.2] <i>The quantities are provisional</i> NO</p> <p>12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i> YES</p> <p>12.1.3 Interest of agents [2.4] Details: NIL</p>	Item	
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- 12.1.4 **Defined works area**
 [3.1] Details:
*The work area will be pointed out by the **principal agent** to the **contractor** who will sign written acknowledgement therefore before commencing operations.*
- 12.1.5 **Geotechnical investigation**
 [3.2] Details:
No trail holes, soils investigation, etc have been carried out.
- 12.1.6 **Existing premises occupied**
 [3.4] Specific requirements:
*The premises will be in unoccupied during the course of this **contract**. The **contractor** shall execute the **works** in such a manner as will least interfere with the general routine of the adjacent occupants of the premises and shall minimise any nuisance from dust, noise or other causes.*
- 12.1.7 **Previous work - dimensional accuracy**
 [3.5] Details:
 N/A
- 12.1.8 **Previous work - defects**
 [3.6] Details:
 N/A
- 12.1.9. **Services - known**
 [3.7] Details:
*Should the **contractor** encounter any existing services such as underground cables, pipes or sewer during the execution of the **works** he shall notify the **principal agent** immediatly and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the **principal agent**.*
- 12.1.10 **Protection of trees**
 [3.9] Specific requirements:
Only those trees and shrubs indicated as such on the drawings shall be removed or cut down. The remainder of the trees and shrubs shall be left undamaged.

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12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

N/A

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

*The **contractor** shall enclose the areas of work and mark areas with danger tape.*

12.1.13 **Offices**

[6.4.3] Specific requirements:

*The **contractor** shall provide, maintain and remove on completion of the **works** an office for the exclusive use of the **principal agent**, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.*

12.1.14 **Main notice board**

[6.5] Specific requirements:

*The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering.*

12.1.15 **Subcontractors' notice board**

[6.6] A notice board is required:

NO

Specific requirements:

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<p>12.1.16 Water [7.2] Option A (by contractor)</p> <p style="padding-left: 40px;">Option B (by employer - free of charge)</p> <p style="padding-left: 40px;">Option C (by employer - metered)</p> <p>12.1.17 Electricity [7.3] Option A (by contractor)</p> <p style="padding-left: 40px;">Option B (by employer - free of charge)</p> <p style="padding-left: 40px;">Option C (by employer - metered)</p> <p>12.1.18 Telecommunications [7.4] Telephone</p> <p style="padding-left: 40px;">Facsimile</p> <p style="padding-left: 40px;">E-mail</p> <p>12.1.19 Ablution facilities [7.5] Option A (by contractor)</p> <p style="padding-left: 40px;">Option B (by employer)</p> <p>12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required</p> <p>12.1.21 Special attendance [9.2] Subcontractor (1) details:</p> <p style="padding-left: 40px;">Subcontractor (2) details:</p> <p>12.1.22 Protection of works [11.1] Specific requirements:</p>	<p>YES</p> <p>NO</p> <p>NO</p> <p>YES</p> <p>NO</p> <p>NO</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>YES</p> <p>NO</p> <p>NO</p> <p>N/A</p>	<p>Carried to Abstract</p>	<p>R</p>
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12.1.23 **Disturbance**

[11.5] Specific requirements:
*The **contractor** shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the **works** all necessary temporary dust screens all to the satisfaction of the **principal agent**.*

12.1.24 **Environmental disturbance**

[11.6] Specific requirements:
 NONE

12.2 POST TENDER INFORMATION

12.2.1 **Payment of preliminaries**

[10.2] Option A (pro-rated) YES/NO
 Option B (calculated) YES/NO

12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories) YES/NO
 Option B (detailed breakdown) YES/NO

12.2.3 **Additional agreed preliminaries items**

Details:

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.

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1	<p>C1 CONTRACT DRAWINGS</p> <p>The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed.</p> <p>Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.</p> <p>Fixed: __100%__ Value related: _____ Time related: _____</p>	Item		
2	<p>C2 GENERAL PREAMBLES</p> <p>The document "Specification of Materials and Methods to be used is obtainable on request from the Principal Agent, and shall be read in conjunction with the bills of quantities & be referred to for the full descriptions of work to be done and materials to be used.</p> <p>Fixed: _100%__ Value related: _____ Time related: _____</p>	Item		
3	<p>C3 TRADE NAMES</p> <p>Wherever a trade name for any product has been described in the bills of quantities / lump sum documents, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders.</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	Item		
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1	<p>C4 IMPORTED MATERIALS AND EQUIPMENT</p> <p>Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer).</p> <p>Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).</p> <p>Fixed: <u>100%</u> Value related: _____ Time related: _____</p>	Item	
2	<p>C5 VIEWING THE SITE IN SECURITY AREAS</p> <p>The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	N/A	
3	<p>C6 COMMENCEMENT OF WORKS IN SECURITY AREAS</p> <p>As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	N/A	
4	<p>C7 ENTRANCE PERMITS TO SECURITY AREAS</p> <p>As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer.</p> <p>Fixed: _____ Value related: _____ Time related: _____</p>	N/A	
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1 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified.

In the event of the **principal agent** requesting the removal of a person or persons from the **works** for security reasons, the **contractor** shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the **works** and the **site** and/or to any document or information relating to the **works**.

Fixed: _____ Value related: _____ Time related: _100%_____

Item

2 **C9 PROHIBITION ON TAKING OF PHOTOGRAPHS**

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister.

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959.

Fixed: _____ Value related: _____ Time related: _____

N/A

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C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31.0 or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

1 C10.1 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification.

Fixed: _____ Value related: _____ Time related: 100%

Item

2 C10.2 AWARENESS WORKSHOPS

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification.

Fixed: ___50%__ Value related: _____ Time related: ___50%__

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1	<p>C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
2	<p>C10.4 ACCESS TO CONDOMS</p> <p>Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification.</p> <p>Fixed:_____ Value related:_____ Time related:_____</p>	Item	
3	<p>C10.5 MONITORING</p> <p>Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification.</p> <p>Fixed: __50%_ Value related:_____ Time related: __50%__</p>	Item	
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C11 OCCUPATIONAL HEALTH AND SAFETY ACT

The **contractor** shall comply with all the requirements set out in the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).

It is required of the **contractor** to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the **bills of quantities / lump sum document**.

The **contractor** must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non compliance, the **principal agent**, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

Fixed:_____ Value related:___ Time related: 100%___

Item

1 C12 REPORTING BY CONTRACTOR

The contractor is required to complete the attached Contractors Monthly Report which is to be submitted together with the contractors payment claim. Payment of the contractor is conditional on this information being accurate and timeously provided.

Fixed:_____ Value related:_____ Time related:___100%___

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1 **C13 LOCAL LABOUR AND LOCAL BUILDING MATERIALS**

It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Should adequate and appropriate labour not be available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour. The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process. The contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall, in general, maximise the involvement of the local community.

2 **C13.1 LOCAL BUILDING MATERIALS**

Preference shall be given to the supply of materials produced or manufactured in the Eastern Cape Province provided that:

- (a) Such materials comply in all respects with the specific requirements of PW371 specification.
- (b) The availability of such materials shall not adversely affect the desired progress of the specific works.
- (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof.

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 2</u>			
<u>FOUNDATIONS (PROVISIONAL)</u>			
NOTE:			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			
Working space for any work requiring formwork, brick linings, etc, has been determined by the following conditions and shall be measured where:			
(i) The depth of the excavation does not exceed 1000mm and the distance from the finished face of the structure to the excavated face is less than 250mm for formwork or 600mm for brick linings and			
(ii) The depth of the excavation exceeds 1000mm and the distance from the finished face of the structure to the excavated face is less than 600mm.			
<u>EARTHWORKS</u>			
<u>(CPAP Work Group No 104 Unless Otherwise Stated)</u>			
<u>EXCAVATIONS, FILLING, ETC</u>			
1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	663
2	Ditto, but for Column bases.	m3	401
3	Extra over excavations in earth to bases and trenches for excavation in soft rock.	m3	357
4	Ditto, but in hard rock.	m3	218
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	573
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Bill No. 2			
Foundations (Provisional)			
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1	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	2 186		
2	Ditto, but Exceeding 1.5m deep and Not Exceeding 3m deep	m2	701		
3	Allow for keeping excavations free from water.		Item		
4	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	1 441		
5	Earth filling (Sabhunga), selected and supplied by the Contractor , deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density as backfilling to trenches, bases, etc.	m3	649		
6	G7 Earth filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density under floors, etc.	m3	635		
7	Clean, dry, sand filling, selected and supplied, deposited, watered and consolidated in 25mm thick blinding layer under floors, etc.	m3	82		
<u>CONCRETE</u>					
<u>(CPAP Work Group No. 110 Unless Otherwise Stated)</u>					
<u>CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>Cement Concrete (15MPa) In</u>					
8	Blinding under bases.	m3	12		
<u>Cement Concrete (25MPa) In</u>					
9	Reinforced Concrete to Strip Footings.	m3	102		
<u>Reinforced Cement Concrete (25MPa) In</u>					
10	Column Bases.	m3	100		
11	Concrete Columns to Foundations	m3	16		
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FORMWORK

(CPAP Work Group No. 111 Unless Otherwise Stated)

Class F1 Formwork To

1	Sides of square or rectangular columns.	m2	134
2	Ditto, but to sides of Concrete bases not exceeding 2m high	m2	752
3	Ditto, but at expansion joints.	m2	62

Boxing Out Class F1 Formwork To Form

MOVEMENT JOINTS, ETC

Jointex Closed Cell Expanded Polyethylene Expansion Joints
 With Tear Off Strip

4	Joint 10mm thick not exceeding 300mm high or wide set between vertical concrete or brick surfaces.	m	221
5	Joint formed of one layer 10mm thick set between vertical faces of concrete or brick surfaces.	m2	126

REINFORCEMENT

(CPAP Work Group No. 114 Unless Otherwise Stated)

Mild Steel Bar Reinforcement To Structural Concrete Work

6	8mm Diameter bars.	t	3.00
7	10mm Diameter bars.	t	4.90

High Tensile Steel Bar Reinforcement To Structural Concrete
 Work

8	10mm Diameter bars.	t	9.00
9	12mm Diameter bars.	t	11.70
10	16mm Diameter bars.	t	6.40

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1	20mm Diameter bars.	t	2.20		
<u>BRICKWORK</u>					
<u>(CPAP Work Group No. 116 Unless Otherwise Stated)</u>					
<u>Brickwork In Clay Bricks In 3.1 Cement Mortar In</u>					
2	Half brick wall.	m2	204		
3	One brick wall.	m2	217		
4	Ditto, 270mm Cavity Wall.	m2	317		
<u>Brickwork Sundries</u>					
5	Brick reinforcement 80mm wide.	m	4 150		
6	Ditto, but 160mm wide.	m	9 732		
<u>Ties, Cramps, Etc</u>					
7	2 x 30mm Galvanised hoop iron tie 600mm long with one end shot fixed into side of concrete or brickwork and other end built into brickwork and turned up into joint.	No	370		
8	2 x 30mm Galvanised hoop iron tie 600mm long with one end shot fixed to steel and other end built into brickwork and turned up into joint.	No	350		
<u>FACE BRICKWORK</u>					
<u>Allow The Prime Cost Of R 7 500,00 (Seven Thousand Five Hundred Rand) Per Thousand Face Bricks Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints (Roan Satin FBX)</u>					
9	Extra over brickwork for face brickwork.	m2	147		
<u>WATERPROOFING</u>					
<u>(CPAP Work Group No. 120 Unless Otherwise Stated)</u>					
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JOINT SEALANTS

1	Rake out 10mm wide joint filler on vertical surfaces of brickwork or concrete for a depth of 15mm and clean, prime and caulk with Sikaflex-Pro 2HP polyurethane sealing compound.	m	336	
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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL No. 3</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>NOTE:</p> <p>All reinforced concrete is to be compacted with a mechanical vibrator.</p> <p>All formwork shall include for propping to not exceeding 3500mm high unless otherwise described.</p> <p>Formwork to sides of walls and columns shall be to walls and columns not exceeding 3500mm high unless otherwise described.</p> <p>Formwork to soffits of solid slabs shall be to slabs not exceeding 250mm thick unless otherwise described.</p> <p>-----</p> <p><u>CONCRETE</u></p> <p><u>(CPAP Work Group No. 110 Unless Otherwise Stated)</u></p> <p>NB: TESTS</p> <p>NOTE:</p> <p>Should the strength required for the concrete in any portion of the structure not be attained in the test cubes, or should any concrete whatsoever be defective the portion in question is to be demolished and replaced at the expense of the Contractor.</p> <p>-----</p>			
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1	NB: NOTE: 10kg Samples of every type of sand and stone to be used for the reinforced concrete must be submitted to an approved Engineer's Laboratory for testing purposes and if necessary further samples must be submitted until satisfactory samples have been accepted.	No	50.00		
2	Concrete test cubes size 150 x 150 x 150mm overall including testing. (Provisional).	No	145		
<u>CONCRETE</u>					
<u>Cement Concrete (15MPa) In</u>					
3	Steps.	m3	23		
<u>Cement Concrete (25MPa) In</u>					
4	Surface beds on waterproof sheeting.	m3	181		
<u>Reinforced Cement Concrete (25 MPa) In</u>					
5	Slabs, Roof Slabs, including beams and inverted beams.	m3	89		
6	Stairs including steps, landings, beams and inverted beams.	m3	3		
7	Isolated beams.	m3	3		
8	Columns.	m3	29		
<u>CONCRETE SUNDRIES</u>					
9	Power float top of concrete to a dead level, hardwearing, smooth surface in accordance with SABS 0100 Code of Practice.	m2	898		
10	Apply Epidermix 344 wet to dry epoxy to roughened 255mm thick edge of concrete surface before casting new concrete.	m	300		
11	Ditto, but to roughened 255mm thick edge of concrete slab.	m	200		
12	Drill mortice 14mm diameter x 100mm deep in top of concrete.	No	100		
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1	10mm Diameter high tensile steel dowel 500mm long with one end fixed 100mm deep into top of concrete (mortice elsewhere measured) with Hilti HIT-HY150 epoxy and other end cast into new concrete wall.	No	60		
2	30mm Thick Sika 212 or similar approved non-shrink grout under base plates size 220 x 220mm including chamfered edge all around.	No	50		
3	Grout up opening overall size 500 x 500mm x 255mm thick through existing concrete slab with Sika 212 or similar approved non-shrink grout.	No	60		
4	110mm Diameter PVC sleeve 510mm long and cast into concrete upstand beam.	No	20		
5	600mm Wide x 20mm deep sinking in top of concrete to receive access flooring including necessary formwork.	m	50		
6	50 x 75mm Triangular cement mortar fillet in and junction of slab and beam.	m	100		
<u>FORMWORK</u>					
<u>CPAP Work Group No. 111 Unless Otherwise Stated</u>					
<u>Class F1 Formwork To</u>					
7	Soffit of slabs ne exceeding 3500mm high	m2	153		
8	Sloping Soffits of Stairs ne 3500mm high	m2	24		
9	Sides and soffits of beams.	m2	72		
10	Ditto, but at expansion joints.	m2	180		
11	Sides of inverted beams over concrete.	m2	364		
12	Sides of square or rectangular columns.	m2	262		
13	Ditto, but at expansion joints.	m2	72		
14	Expansion Joints on sides of walls.	m2	300		
15	Sloping Soffits of stairs, slabs etc	m2	30		
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1	Sloping and stepped edge of stairs not exceeding 300mm high extreme.	m	24		
2	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	24		
<u>MOVEMENT JOINTS, ETC</u>					
<u>Jointex Closed Cell Expanded Polyethylene Expansion Joints With Tear Off Strip</u>					
3	Joint 10mm thick not exceeding 300mm high or wide set between vertical concrete or brick surfaces.	m	230		
4	Joint formed of one layer 10mm thick set between vertical faces of concrete or brick surfaces.	m2	64		
<u>Malthoid Slip Joints</u>					
5	Joint not exceeding 300mm wide formed of three layers 5 ply malthoid with smooth faces together, on and including bed of 3.1 cement mortar, on brick walls as bearing under concrete slabs, beams, etc.	m	500		
6	Joint formed of three layers 5 ply malthoid with smooth faces together, on and including bed of 3.1 cement mortar, on concrete footings as bearing under new concrete footing.	m2	200		
<u>REINFORCEMENT</u>					
<u>(CPAP Work Group No. 114 Unless Otherwise Stated)</u>					
<u>Mild Steel Bar Reinforcement To Structural Concrete Work</u>					
7	8mm Diameter bars.	t	3.00		
8	10mm Diameter bars.	t	1.95		
<u>High Tensile Steel Bar Reinforcement To Structural Concrete Work</u>					
9	10mm Diameter bars.	t	6.50		
10	12mm Diameter bars.	t	7.80		
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1	16mm Diameter bars.	t	5.61	
2	20mm Diameter bars.	t	6.90	
3	25mm Diameter bars.	t	4.20	
<u>Fabric Reinforcement To Concrete Work</u>				
4	High tensile steel mesh Ref. 311 to concrete surface beds, slabs, etc.	m2	1 018	
				R

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Bill No. 3

Concrete, Formwork & Reinforcement
 O.R. TAMBO DISTRICT MUNICIPALITY
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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No.5</u>				
<u>MASONRY</u>				
<u>BRICKWORK</u>				
<u>(CPAP Work Group No. 116 Unless Otherwise Stated)</u>				
<u>Brickwork In Clay Bricks In Cement Mortar In</u>				
1	Half brick wall.	m2	579	
2	One brick wall.	m2	904	
3	270mm Cavity wall in two half brick thicknesses including galvanised.	m2	500	
<u>Brickwork Sundries</u>				
4	Prepare and apply three coats bituminous emulsion to back of face brick etc.	m2	405	
5	50 x 75mm Triangular cement mortar fillet in cavity wall including forming weep holes.	m	450	
<u>Jointex Closed Cell Expanded Polyethylene Expansion Joints With Tear Off Strip</u>				
6	Joint 10mm thick not exceeding 300mm high or wide set between vertical concrete or brick surfaces.	m	179	
<u>Brick Reinforcement</u>				
7	Brick reinforcement 80mm wide.	m	536	
8	Ditto, but 160mm wide.	m	3 228	
<u>Precast Prestressed Vibrated Cement Concrete (30MPa) Lintols Including Moulds, Reinforcement, Propping, Etc</u>				
9	Lintol 110mm wide x 75mm deep in lengths not exceeding 3000mm.	m	125	
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1	Ditto, but in lengths exceeding 3000mm and not exceeding 4500mm.	m	40		
2	Lintol 160mm wide x 75mm deep in lengths not exceeding 3000mm.	m	30		
3	Ditto, but in lengths exceeding 3000mm and not exceeding 4500mm.	m	20		
	<u>Turning Pieces</u>				
4	Turning piece to soffit of half brick wall at lintols, etc.	m	25		
5	Turning piece to soffit of one brick wall at lintols, etc.	m	16		
	<u>Ties, Cramps, Etc</u>				
6	2 x 30mm Galvanised hoop iron tie 600mm long with one end shot fixed into side of concrete or brickwork and other end built into brickwork and turned up into joint.	No	320		
	<u>FACE BRICKWORK</u>				
	<u>Allow The Prime Cost Of R 6 500,00 (Six Thousand Five Hundred Rand) Per Thousand Face Bricks Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints (Roan Satin FBX)</u>				
7	Extra over brickwork for face brickwork.	m2	477		
8	Ditto, but double face wall on both sides.	m2	360		
9	Extra over brickwork for brick-on-edge header course lintol including pointing to face and soffit.	m	230		
10	Extra over brickwork for brick-on-edge cill 150mm wide set sloping and projecting including fair splay cutting under and pointing to top, edge and soffit.	m	45		
11	Ditto, but snapped brick-on-edge lintol 110mm wide.	m	26		
12	Fair cutting to birdsmouth angle or squint quoin.	m	18		
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	Bill No. 4 Masonry O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

1	114 x 352mm Wide cill with sunk weathered top and throated soffit, set flat.	m	15	
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Masonry

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No.6</u>			
	<u>WATERPROOFING</u>			
	<u>(Provisionally Measured)</u>			
	<u>(CPAP Work Group No. 120 Unless Otherwise Stated)</u>			
	<u>DAMP PROOFING TO WALLS AND FLOORS</u>			
	<u>One Layer 250 Micron Waterproof Sheeting</u>			
1	Under surface beds.	m2	770	
	<u>One Layer 375 Micron Embossed Dampproof Sheeting</u>			
2	On walls.	m2	56	
	<u>WATERPROOFING TO ROOFS, ETC</u>			
	Waterproofing to roofs, etc must be done by an approved firm of specialists in this type of work and must be carried out in accordance with the Manufacturer's Instructions. The Contractor must provide a ten year guarantee acceptable to the Employer for this work and deposit same with the Architect before the work is put in hand. -----			
	<u>4mm Thick Derbigum SP Torch On Fully Bonded Waterproofing Membrane Including Laps, Turn-ups, Turn-downs, Etc And Preparing And Priming Concrete Or Screeded Surfaces</u>			
3	Seal edge of waterproofing to walls, etc.	m	400	
	<u>5mm Thick Derbigum Ex-Strong SP Waterproofing Membrane Including Laps, Turn-ups, Turn-downs, Etc And Preparing And Priming Concrete Or Screeded Surfaces</u>			
4	On flat floors.	m2	320	
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	Bill No. 5 Waterproofing O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021			

	<u>4mm Thick Derbigum SP Waterproofing Membrane Loose Lay Method Including Laps, Turn-ups, Turn-downs, Etc On And Including 35mm Thick High Density Polystyrene Sheets (With A Density Of 24) Covered With And Including 250 Micron Polythene Sheeting With Sealed Laps, Preparing And Priming Concrete Or Screeded Surfaces</u>			
1	On flat roofs.	m2	126	
2	On top and sides of inverted beams.	m2	325	
3	Seal edge of waterproofing to walls, etc.	m	220	
	<u>25mm Stone Filling Selected, Supplied And Deposited</u>			
	<u>0,53mm Zincalume With 75mm Wide Laps</u>			
4	Sidewall flashing 375mm girth.	m	156	
	<u>Sundries</u>			
5	12mm Thick softboard protection to waterproofing to walls.	m2	326	
6	Kaytech Kaymat U24 or other equal approved geotextile filter fabric to vertical face of sand filter layer (elsewhere measured).	m2	200	
	<u>JOINT SEALANTS</u>			
7	Seal and point around metal door and window frames with an approved external quality sealing compound applied with a pressure caulking gun.	m	546	
8	Rake out 10mm wide joint filler on vertical surfaces of brickwork or concrete for a depth of 15mm and clean, prime and caulk with Sikaflex-Pro 2HP polyurethane sealing compound.	m	522	
9	Rake out 10mm wide joint filler on horizontal surfaces of concrete for a depth of 15mm and clean, prime and caulk with Sikaflex-Pro 2HP polyurethane sealing compound.	m	320	
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	Bill No. 5 Waterproofing O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021			

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Waterproofing

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL NO.7</u>				
<u>ROOF COVERINGS, ETC.</u>				
(CPAP Work Group No. 122 Unless Otherwise Stated)				
<u>PROFILED METAL SHEETING</u>				
(CPAP Work Group No. 124 Unless Otherwise Stated)				
<u>0,8mm Thick Z275 Brownbuilt "Klip-Lok" Galvanised Sheet Iron Roofing Sheets And 0,6mm Thick Accessories With Closers Where Necessary , Both With Chromadek Colour One Side, In Single Sheet Lengths And Fixed To Steel Purlins With Galvanised Hook Bolts</u>				
1	Roof covering with pitch not exceeding 25 degrees.	m2	1 870	
2	Expanded polyethylene polycloser eaves filler.	m	294	
3	Expanded polyethylene polycloser eaves filler on rake at valleys.	m	120	
<u>Insulation</u>				
4	Sisalation 420 RSA reinforced aluminium foil insulation laid with 150mm wide laps at all joints on top of steel purlins on and including 2mm diameter galvanised wires tightly strained across tops of purlins at 500mm centres.	m2	1 538	
<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC.</u>				
(CPAP Work Group No. 124 Unless Otherwise Stated)				
<u>0,53mm Zincalume With 75mm Wide Laps, With Colour One Side To Match Colour Of Roof Sheeting</u>				
5	Sidewall flashing 375mm girth.	m	22	
6	Counter flashing 185mm girth.	m	22	
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Roof Coverings, Etc.				
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0,8mm Z275 Galvanised Sheet Iron With 75mm Wide Laps

1 700mm Girth linings to valley six times bent with riveted and soldered joints.

m

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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No.8</u>			
	<u>CARPENTRY & JOINERY</u>			
	(CPAP Work Group No. 126 Unless Otherwise Stated)			
	<u>CARPENTRY</u>			
	<u>JOINERY</u>			
	All joinery unless otherwise specified, is to be wrot on all surfaces and prices are to include for this, including leaving clean, smooth, free from tool marks and for rounded arrises.			
	The sizes of all timbers for joinery are to hold to the full sizes specified.			
	Commercial veneer shall refer to veneer to be painted. South African Pine shall be referred to as Pine.			

	<u>DOORS, ETC</u>			
	<u>Solid Timber doors</u>			
1	Door Type C , Description: Supply and fit (Hung) Size 813mm x 2032mm high	No	39	
2	Door Type D, (Hung) Size 1136mm x 2032mm high	No	3	
3	Double Door, (Hung) Size 1280 x 2032mm high	No	1	
4	Door Type D, (Hung) Size 1200x2125mm high Disabled	No	3	
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	Carpentry & Joinery			
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Carpentry & Joinery

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 Carpentry & Joinery
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<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<p><u>BILL No. 9</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p>Note:</p> <p>The sizes of all sawn and wrought timbers are to hold to the full sizes specified. South African Pine shall be referred to as Pine. All items in this section are to be fixed, unless otherwise described, by spiking to wood. Bolts for items described as bolted are measured elsewhere. Items described as plugged are plugged and screwed to brickwork or concrete.</p> <p>-----</p> <p><u>CEILINGS</u></p> <p><u>NAILED UP CEILINGS</u></p> <p><u>(CPAP Work Group No 126 Unless Otherwise Stated)</u></p> <p><u>SUSPENDED CEILINGS</u></p> <p><u>(CPAP Work Group No 128 Unless Otherwise Stated)</u></p> <p>The following must be erected by a firm who specialise in this type of work, which firm must be approved by the Architect before the work is put in hand.</p> <p><u>12,5mm Donn Vinyl Clad Fissured Gyprex Ceiling Panels Size 600 x 1200mm On And Including Donn Finline Pre-Painted Exposed T-System Grid Complete With Main And Cross Tees, Hangers, Etc</u></p>			
1	<p>Horizontal ceilings suspended not exceeding 1000mm below steel purlins, screwed. (Purlins at 1250mm centres with trusses at 2500mm centres).</p>	m2	887	
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	<p>Bill No. 8 Ceilings, Partitions & Access Flooring O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021</p>			

Gyproc Rhinocell Premiere S Flush Plastered Ceiling 9.5 mm
Thick Square-Edge Rhinoboard Screwed to DONN T37K
Screw-up Ceiling T-System Grid Complete With Main And
Cross Tees, Hangers, Etc. Plastered With 6mm Thick Rhinolite
Gypsum Skim Plaster.

1	Horizontal ceilings suspended not exceeding 1000mm below concrete, shot nailed.	m2	
2	Shadowline wall angle trim, plugged.	m	194

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	BILL No. 10			
	FLOOR COVERINGS, WALL LININGS, ETC			
	<u>(CPAP Work Group No. 130 Unless Otherwise Stated)</u>			
	Preamble:			
	Note:			
	For Tendering and for fair Competition Purposes the Tenderer shall look for similar supplier with approved SANS & SABS standards			
	Floor coverings are laid on screeded surfaces and wall linings on plastered surfaces unless otherwise described.			

	<u>FLOOR COVERINGS</u>			
	<u>Belgotex Heavy Commercial EQUINOX 500mm x 500mm (colour Taurus) NexBac tiles are manufactured from Stainproof SDX laid in accordance with the SANS 10186 fitting code of practice.</u>			
1	On floors.	m2	359	
2	On turn-ups against walls not exceeding 300mm high.	m		
	<u>Natural Anodised Aluminium Edge Strips, Etc</u>			
3	Smoothedge Tread aluminium edge strip plugged to floor.	m		
4	75mm High Hulett Aluminium extruded natural anodised skirting, plugged.	m		
	<u>Semi-Flexible Vinyl Floor Sheeting Roll Size 2000mm wide x 2.5mm Thick Of Specified Colour Laid With Adhesive as per the spec.</u>			
5	On floors.	m2	630	
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	Floor Coverings, Wall Linings, Etc.			
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Sundries

1	Prepare and apply two coats wax polish on vinyl flooring.	m2	630	
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 Floor Coverings, Wall Linings, Etc.
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Floor Coverings, Wall Linings, Etc.

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<u>BILL No. 11</u>				
<u>IRONMONGERY</u>				
<u>(CPAP Work Group No. 132 Unless Otherwise Stated)</u>				
Note:				
Ironmongery is fixed to timber unless otherwise described.				

<u>IRONMONGERY TO DOORS, FRAMES, ETC</u>				
<u>Locks, Etc</u>				
1	ISEO 1450.00.55 55mm Backset single Long Throw 2 Pin profile Cylinder Gate lock	No		
2	Bathroom Sash Lock. Case dimension (mm) 102H x 78D. Forend dimensions (mm) 155H x 22W. backset 57mm. Centres 57mm.	No		
3	Cylinder Sash Lock. Case dimensions (mm) 116.5H x 78d. Forend dimensions (mm) 168H x 22W. backset 57mm. Centres 61mm.	No		
4	CISA Anti Thrust Mortice Nightlatch with holdback Snib, Profile Cylinder, Case only.	No		
5	Bathrrom deadlock. Case dimensions (mm) 38H x 76D. Forend dimensions (mm) 78H x 22.5W. Backset 55mm.	No		
6	Cylinder Deadlock. Case dimension (mm) 116.5H x 78D. Forend dimensions (mm) 168H x 22W. Backset 57mm.	No		
7	43mm five pin Euro-profil Single Cylinder Master Keyed	No		
8	66mm five pin Euro-profile Double Cylinder Master keyed.	No		
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Ironmongery				
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1	66mm five pin Euro-profile knob Cylinder Master keyed.	No			
2	Rebate conversion kit for Euro Profile locks D036S, D037D	No			
	<u>Handles, Etc</u>				
3	Lever handle on rose - latch	Sets	3		
4	200x22mm Straight Tubular pull handle BTB (BTB Fixing Sets included)	Pairs	3		
5	Lever handle on rose with cylinder escutcheons	Sets	3		
6	382x32mm D shaped Offset tubular Pull Handle BTB (BTB Fixing sets included).	Pairs	3		
7	325x25mm Straight Tubular Pull Handle Flange Fixing.	No	3		
8	300x30mm Straight tubular pull handle BTB (BTB Fixing Sets included).	Pairs	5		
9	Exterior Access Lock With Lever Handle (Cylinder not included).	No	3		
10	Disabled WC indicator (Red & White) and turnknob for physically impaired	Sets	4		
11	Bathroom WC indicator (Red and White) and turnknob	Sets	4		
12	Round Cylinder escutcheon	Pairs	9		
13	Three point locking panic bar - Single door - Door leaf 1000mm wide x 2270mm high (2101, 2104, 2202, 2204)	Pairs	5		
	<u>Push Plates, Kicking Plates, Nameplates, Etc</u>				
14	200x(width of door)x1.2mm Thick Grade 430 Stainless Steel Kick plate. Stainless Steel Plate to be Glue Fixed. (List price calculated on 813mm wide door)	No	9		
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	Bill No. 10 Ironmongery O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

<u>Door Closers</u>				
1	EN 2-4 Regular Arm Delayed Action Door closer, Pull Side Fixing EN2 750-850, EN3 850-950, EN4 950-1100.	No	3	
2	EN 3-6 Parallel Arm DELAYED CLOSING Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Parallel Arm Bracket Included) EN3 850EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part1 Fire Resistant Doors. Certified manufacturer to ISO 9001.	Sets	3	
3	NON HOLD OPEN Cam action slide channel door closer. Max door width 950mm. Closing Force EN 3. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. Door closer compliant with EN 1154. Door closer is CERTI FIRE approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001.	No	3	
4	MECHANICAL HOLD OPEN Cam action slide channel door closer. Max door width 1100mm. Closing Force EN 2-4V. Adjustable strength. Hydraulic speed control. Pull-side door leaf fixing (Standard), Push-side transom fixing. Door closer compliant with EN 1154. Door closer is CERTI FIRE approved (Certificate No. CF 119) for door types ITT 120, MM/IMM 240. Certified manufacturer to ISO 9001.	No	3	
5	EN 3-6 Parallel Arm NON HOLD OPEN Door Closer - Adjustable Strength, Hydraulic Speed Control. Push Side Fixing (Parallel Arm Bracket Included) EN3 850EN4 950-1100, EN5 1100-1250, EN6 1250-1400. Door Closer tested to EN 1154. Approved to AS1905 Part1 Fire Resistant Doors. Certified manufacturer to ISO 9001	Sets	2	
<u>Stops, Holders, Hooks, Etc</u>				
6	200 mm SC on Brass Cabin Hook and Eye With 100x100x75mm Chamfered Wrot Meranti Block	No	56	
7	Hat and Coat Hook with rubber buffer	No	56	
8	Floor Mounted Door Stop	No	112	
9	Wall Buffer	No	112	
10	Dust Proof Strike	No	20	
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<u>BILL No. 12</u>				
<u>STRUCTURAL STEELWORK</u>				
<u>(CPAP Work Group No 136 Unless Otherwise Stated)</u>				
<u>STEEL COLUMNS AND BEAMS</u>				
<u>Welded Columns In Single Lengths With Flat Section Base, Top, Bearer And Connection Plates, Bolted To Concrete</u>				
1	203 x 133 x 25kg/m I-section Steel Columns	t	2	
<u>Welded Beams In Single Lengths With Flat Section Bearer And Connection Plates, Bolted To Concrete</u>				
2	IPE 200x100x22mm Curved Rafter Section beams welded with Cleats bolted on steel Lattice girders & Reinforced Concrete. 2	t	38.29	
3	I Section Beam Size 203x133x25mm @ 6mm	t	3.54	
4	I Section Beam Size 203x133x30mm @ 6mm	t	3.10	
5	Ditto, But Size 406x178x54 @ 6mm Thick	t	4.82	
<u>Baseplates, Etc.</u>				
<u>Bolts</u>				
<u>STEEL TRUSSES, PURLINS, GIRTS, BRACING, ETC</u>				
6	C 90 x 90x 6mm Tapered Flange Curved Channel Facia rail bolted on Lattice Girder to support purlins.	t	8.38	
7	C 90 x 90 Tapered Flange Straight Channel Barge rail bolted on Lattice Girder to support purlins.	t	4.00	
8	203 x 133 x 25kg/m I-section rafters	t	21.00	
9	114 x 5,0mm Round hollow section strut. (Provisional)	t	8.00	
10	102 x 5mm Round hollow section bracing.	t	24.00	
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Bill No. 11 Structural Steelwork O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

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Structural Steelwork

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 13</u>			
<u>METALWORK</u>			
<u>(CPAP Work Group No 136 Unless Otherwise Stated)</u>			
<u>SUNDRY METALWORK</u>			
<u>Galvanised Mild Steel</u>			
<u>Bolts</u>			
<u>THE FOLLOWING IN BALUSTRADING</u>			
<u>Stainless Steel Quality 18/8 Type 304</u>			
<u>Hot Dip Galvanised After Fabrication Mild Steel Framed And Welded Balustrading Formed Of Round Hollow Section Rails With Balusters At 750mm Centres With Scribed And Mitred Intersections, Etc</u>			
<u>Bolts</u>			
<u>THE FOLLOWING IN HANDRAILS</u>			
<u>Stainless Steel Quality 18/8 Type 304</u>			
<u>Hot Dip Galvanised After Fabrication Mild Steel Handrails Formed Of Round Hollow Section Stainless Steel Rail (Elsewhere Measured) Welded To Brackets At 70mm Centres With Scribed And Mitred Intersections, Etc</u>			
<u>THE FOLLOWING IN ROOF SUPPORTS</u>			
<u>Hot Dip Galvanised After Fabrication Mild Steel Roof Supports Formed Of Round Hollow Section Rail Welded To Brackets With Scribed And Mitred Intersections, Etc</u>			
<u>Brass Mat Surround With Mitred And Brazed Intersections, etc.</u>			
<u>PRE-GALVANISED PRESSED STEEL DOOR FRAMES</u>			
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Bill No. 12 Metalwork O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021			

1,2mm Thick Single Rebated Frame For Half Brick Wall
 Complete With Butts, Etc And Including Setting Up, Building In,
 Filling Back Of Frame With Cement Mortar, Etc

1,2mm Thick Single Rebated Frame For One Brick Wall
 Complete With Butts, Etc And Including Setting Up, Building In,
 Filling Back Of Frame With Cement Mortar, Etc

STEEL STRONGROOM DOORS, VENTILATORS, ETC

1	Austin DEV 02 double ended strongroom ventilator size 255 x 255mm with telescopic sleeve, gauze and baffle plates, drop shutter, etc including setting up, building in and caulking all around in 1.1 cement mortar.	No	4
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2	Austin P100 record room door and frame size 1030 x 2010mm overall (mass 245kg) fitted with seven lever security key lock including setting up, building in and caulking all around in 1.1 cement mortar.	No	2
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HEAVY DUTY STEEL ROLLER SHUTTER DOORS

3	Supply and fit Heavy Duty steel Sectional High Speed Roller Shutter Doors Dual Operated during electricity black-outs, size: 4000mm x 5180mm.	No	5
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STEEL TRANSFORMER ROOM DOOR

4	Galvanised Steel Transformer Room oor, Supplied and fitted in Service ducts, including double rebated steel frame to accommodate a 813mm x 2032mm leaf, including steel metal door and 3 spare keys.	No	1
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Metalwork

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-84-

-85-

Carried to Summary

R

Bill No. 12
 Metalwork
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<p><u>BILL NO.14</u></p> <p><u>ALUMINIUM WORKS</u></p> <p><u>(CPAP Work Group No 140 Unless Otherwise Stated)</u></p> <p>Note: Preamble: FRAMES All Aluminium Frames are to be Powder Coated by Manufacturer - in accordance with SABS 1578 part 1 and 2</p> <p>A Guarantee Certificate of no less than 10 years is to be provided against peeling and discolouration by the suppliers for government/public buildings.</p> <p>GLAZING:</p> <p>PG COMFORT HOME X2 PLUS glass, all in glazing beads. Contractors details subject to architects approval. glass thickness to comply with SANS PART N - glazing and S.A.B.S 0137. all detail & glass to be design and supply totally sealed and water tight for all windows, doors, folding sliding doors etc.</p> <p><u>ALUMINIUM DOORS, FRAMES, WINDOWS ETC</u></p>			
<p>Carried to Abstract</p> <p>Bill No. 13 Aluminium Works, Shop Fronts etc O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021</p>		R	

WINDOWS

1 Supply & Fit complete, Window Type A (D&W-900) Size 3395mm x 1500mm, FrameSpecification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)

Ironmongery:as supplied by manufacturer unless otherwise specified

Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.

Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration

Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.

NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.

No

4

Carried to Abstract

R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type B (D&W-901) Size 2180mm x 1165mm, FrameSpecification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery:as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	1	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type C (D&W-902) Size 1800mm x 1500mm,</p> <p>FrameSpecification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery:as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	19	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type D (D&W-903) Size 930mm x 1500mm, Frame Specification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	5	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type E (D&W-904) Size 16580 mm Long sectional window frames x 1000mm high, Curved as design and build frames average hieght between 1265mm high to 515mm high x 16580mm length. See Schedules (Window Type E)</p> <p>FrameSpecification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery:as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed appart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	2	
	Carried to Abstract			R
	<p>Bill No. 13 Aluminium Works, Shop Fronts etc O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021</p>			

1	<p>Supply & Fit complete, Window Type F (D&W-905) Size 900mm x 920mm, Frame Specification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects & Principal Agents.</p>	No	18	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No. Rev 02/2021

1	<p>Supply & Fit complete, Window Type G (D&W-906) Size 900mm x 1250mm, Frame Specification: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	1	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No. Rev 02/2021

1	<p>Supply & Fit complete, Window Type H, Size:715mm x 1200mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	4	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type I, Size:1020mm x 1200mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	22	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type J, Size:2045mm x 600mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	2	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type K, Size:2045mm x 600mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	2	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type L, Size:900mm x 900mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	5	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type M, Size:600mm x 900 mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	9	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type N, Size:1020mm x 600mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	2	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

1	<p>Supply & Fit complete, Window Type O, Size:1675mm x 600mm, Frame Specifications: Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energyperformance) and SANS 613 (air/water filtration/penetration)</p> <p>Ironmongery: as supplied by manufacturer unless otherwise specified</p> <p>Glazing: Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.</p> <p>Finish: Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of not less than 10 years is to be provided against peeling and discolouration</p> <p>Extras: 20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.</p> <p>NB: All Windows to be designed apart from schedules, the contractor has to provide shop drawings for approval prior to manufacturing to the architects/ Principal Agents.</p>	No	2	
	Carried to Abstract			R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

DOORS INCLUDING FRAMES

1 Supply & Fit complete Door type (A) Size 1800mm x 2130mm, Exterior Entrance doors and inter-leading to garages, Frame Specification: Bronze aluminium to suit opening size: 1800mm (Wide) & 2130mm (High) Wall thickness 2mm.

Door Frame: Bronze Powder Coated Aluminium Door Frame 2mm thick

Door Finish: Bronze Powder Coated Aluminium Door Frame

Glazing: 700mm x 1035mm x 675mm Clear Float Safety Glass

Ironmongery: As per the Ironmongery Schedule

NB: Any deviation from the current specified materials must be presented to the Architect/PA and Quantity Surveyor's for rates and final approval.

No 3

2 Supply & Fit complete Door type (B) Size 900mm x 2125mm, Fire escape and guard houses.

Door Frame: Bronze Powder Coated Aluminium Door Frame 2mm thick

Door Finish: Bronze Powder Coated Aluminium Door Frame

Glazing: 700mm x 1035mm x 675mm Clear Float Safety Glass

Ironmongery: As per the Ironmongery Schedule

NB: Any deviation from the current specified materials must be presented to the Architect/PA and Quantity Surveyor's for rates and final approval.

No 4

Carried to Abstract

R

Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
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Bill No. 13

Aluminium Works, Shop Fronts etc

ABSTRACT

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Bill No. 13
 Aluminium Works, Shop Fronts etc
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 14</u>			
	<u>PLASTERING</u>			
	(CPAP Work Group No. 142 Unless Otherwise Stated)			
	<u>SCREED</u>			
	<u>Cement Screed On Concrete Topped With Sikafloor-29N Purcem Screed</u>			
1	35mm Thick on floors.	m2	1 674	
2	35mm Thick on treads and risers of stairs.	m2	79	
	<u>GRANOLITHIC</u>			
	<u>Untinted Granolithic On Concrete</u>			
3	40mm Thick on floors and landings.	m2	21	
4	35mm Thick on treads and risers of stairs including reedings.	m2	8	
	<u>EXTERNAL PLASTER</u>			
	<u>Smooth Cement Plaster On Brickwork On</u>			
5	Walls.	m2	500	
	<u>Smooth Cement Plaster On Concrete On</u>			
6	Soffits of slabs.	m2	153	
7	Projecting and isolated beams.	m2	72	
8	Projecting and isolated columns. (ecp conc)	m2	262	
9	Narrow widths.	m2	126	
10	Cement plaster to architrave windows	m2	53	
	<u>INTERNAL PLASTER</u>			
	Carried to Abstract			R
	Bill No. 14			
	Plastering			
	O.R. TAMBO DISTRICT MUNICIPALITY			
	JOB No.Rev 02/2021			

<u>Smooth Cement Plaster On Brickwork On</u>				
1	Walls.	m2	2 625	
2	Narrow widths.	m2	38	
<u>Smooth Cement Plaster On Concrete On</u>				
3	Narrow widths.	m2	80	
4	Soffits of slabs.	m2	154	
5	Sloping soffits of stairs.	m2	72	
6	Projecting and isolated columns.	m2	20	
7	Sides, Soffits, Projecting & Isolated beams.	m2	15	
<u>Stucco Plaster As Manufactured By Paving Tiles And Stucco Plaster (011- 462 4233) Applied And Cured In Accordance With Manufacturer's Specification On</u>				
<u>DIVIDING STRIPS, ETC</u>				
Carried to Abstract				R
Bill No. 14 Plastering O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

Bill No. 14

Plastering

ABSTRACT

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Bill No. 14
 Plastering
 O.R. TAMBO DISTRICT MUNICIPALITY
 JOB No.Rev 02/2021

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 15</u>			
	<u>TILING</u>			
	(CPAP Work Group No. 144 Unless Otherwise Stated)			
	NOTE:			
	All tiling is to be fixed with approved adhesive unless otherwise described to screeded or plastered surfaces which are elsewhere measured. All jointing is to be done with an approved grout unless otherwise described.			

	<u>FLOOR TILING</u>			
	<u>450 x 450mm Selected Non- slip Porcelain Tiles (PC amount R400 /m2) Laid in Ezee Tile Porcelain Fix Adhesive and Grout With Ezee Tile Epoxy Grout.</u>			
1	On floors and landings with continuous joints in both directions.	m2	291	
2	On riser 170mm high formed of one row stretcher course tiles.	m	20	
3	On treads 275mm wide formed of one row stretcher course tiles and one row bullnosed stair tread tiles.	m		
4	80mm High skirting with coved top.	m	14	
5	Ditto, but stepped on treads and risers of stairs.	m		
	<u>Vitro Split Unglazed Ceramic Floor Tiles Size 160 x 160 x 14mm Thick Loose Layed And Jointed And Pointed With Flush Joints In Grout On Steelwork</u>			
6	On treads 275mm wide formed of one row stretcher course tiles and one row bullnosed stair tread tiles.	m		
	Carried to Abstract			R
	Bill No. 15			
	Tiling			
	O.R. TAMBO DISTRICT MUNICIPALITY			
	JOB No.Rev 02/2021			

	<u>Allow The Prime Cost Of R 450,00/m2 For Porcelain Non-Slip Floor Tiles Size 300 x 300 x 7mm Thick As Supplied By "On The Tiles" Fixed With Tal Thick Fix Adhesive And Jointed And Pointed With Flush Joints In Tal Quarrygrout Mixed With Talbond On Concrete</u>				
1	On floors and landings with continuous joints in both directions.	m2			
	<u>WALL TILING</u>				
	<u>Roma Glazed Ceramic Wall Tiles Size 200 x 200 x 7mm Thick Fixed With Tal Heavy Duty Adhesive And Jointed And Pointed With Flush Joints In Tal Grout On Plaster (Elsewhere Measured)</u>				
2	On walls.	m2	107		
3	On narrow widths.	m2	16		
	<u>NCI Matt Unglazed Wall Tiles Size 240 x 115 x 11,5mm Thick Fixed With Tal Heavy Duty Adhesive And Jointed And Pointed With Flush Joints In Tal Anti-Bacteria Grout On Plaster (Elsewhere Measured)</u>				
	<u>Sundries</u>				
4	Genesis ETP Trim Plus PVC edge trim to wall tiles.	m			
5	Genesis MYA100 heavy duty stainless steel movement joint with and including Genesis MCN100 neoprene compression strip.	m			
	Carried to Abstract			R	
	Bill No. 15 Tiling O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

Bill No. 15

Tiling

ABSTRACT

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Bill No. 15

Tiling

O.R. TAMBO DISTRICT MUNICIPALITY

JOB No.Rev 02/2021

<u>Item No</u>		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 16</u>				
<u>PLUMBING (PROVISIONAL)</u>				
(CPAP Work Group No. 148 Unless Otherwise Stated)				
<u>RAINWATER GOODS, ETC</u>				
<u>0,6mm Thick Watertite Seamless Pre-Painted Aluminium Ogee Gutter, Rainwater Pipe And Accessories In Long Lengths</u>				
1	125 x 85mm Eaves gutter fixed to Fascia.	m	104	
<u>Extra for</u>				
2	Stopped end.	No	8	
3	Outlet with nozzle for 75 x 100mm rainwater pipe.	No	10	
<u>(End Of Extra For)</u>				
4	50 x 75 x 0,6mm Rectangular section fluted rainwater pipe fixed 25mm clear of walls with galvanised sheet iron ears screwed to and including 200 x 70 x 22mm chamfered and oiled hardwood blocks plugged to wall.	m	48	
<u>Extra For</u>				
5	Shoe.	No	10	
6	Bend.	No	25	
7	Swanneck bend.	No	10	
8	80mm Spreader 800mm long and fixing to bottom of 80mm rainwater pipe.	No	6	
<u>Extra For</u>				
<u>Cast Iron</u>				
9	100mm Fulbore 45 degree type outlet jointed to 80mm PVC pipe including adaptor and embedded in concrete slab.	No	6	
Carried to Abstract				R
Bill No. 16 Plumbing & Drainage (Provisional) O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

(End Of Extra For)

SOIL DRAINAGE

(CPAP Work Group No. 146 Unless Otherwise Stated)

Rigid PVC Socketed Soil Piping (SABS 791) With Bedding And Filling As Laid Out In SABS 1200 LB - Bedding Flexible Pipes, Backfilling With Excavated Material

1	110mm Pipe and excavation not exceeding 1000mm deep.	m	110
2	Ditto, but excavation exceeding 1000mm and not exceeding 2000mm deep.	m	35
3	160mm Pipe and excavation not exceeding 1000mm deep.	m	90
<u>Extra For</u>			
4	110mm 45 Degree bend.	No	11
5	160mm 45 Degree bend.	No	7
6	110mm 90 Degree bend.	No	39
7	160mm 90 Degree bend.	No	12
8	110mm Access bend.	No	21
9	160mm Access bend.	No	12
10	110mm Junction.	No	25
11	160mm Junction.	No	15
12	160mm Reducing junction.	No	9
13	110mm Access junction.	No	16
14	160mm Access junction.	No	6
15	160mm Reducing access junction.	No	11
16	110mm Gulley trap with hopper head.	No	17

Carried to Abstract

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 Plumbing & Drainage (Provisional)
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<u>Sundries</u>				
1	Cement concrete (15MPa) in encasing to 110mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing.	m	36	
2	Cement concrete (15MPa) in encasing to 160mm diameter horizontal pipe of a minimum thickness of 150mm around pipe, including all necessary casing.	m	24	
3	Ditto, but to 110mm diameter vertical pipe.	m	52	
4	Ditto, but to 110mm diameter vertical bend.	No	15	
5	A.B.C. cast iron cleaning eye and frame with cover bedded in red lead and fixed with gunmetal set screws and adaptor to top of 110mm PVC pipe.	No	13	
6	Inspection chamber size 450 x 600 x 695mm average deep internally fitted with Type 8A cast iron two piece double seal manhole cover and frame.	No	10	
7	Inspection chamber size 450 x 600 x 875mm average deep, internally fitted with Type 8A cast iron two piece double seal manhole cover and frame.	No	7	
8	Inspection chamber size 450 x 600 x 1092mm average deep, internally fitted with Type 8A cast iron two piece double seal manhole cover and frame.	No	6	
9	Inspection chamber size 900 x 1200 x 1672mm average deep internally fitted with Type 8A cast iron two piece double seal manhole cover and frame and step irons at 300mm centres.	No	9	
10	Extra over excavation in earth as described for drain trenches, chambers, etc., for excavation in soft rock.	m3	20	
11	Ditto, but in hard rock.	m3	15	
12	Extra over all excavations for drain trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	45	
13	Imported Sabunga filling as backfill to pipe trenches under roads and compact in 150mm layers to 93% modified AASHTO density.	m3	29	
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(End Of CPAP Work Group No. 146)

SANITARY PLUMBING

Rigid PVC Socketed Soil, Waste Or Vent Piping (SABS 967)

1	40mm Pipe and fixing to walls, falls, in concrete, etc.	m	180
2	50mm Ditto.	m	158
3	110mm Ditto.	m	46
<u>Extra For</u>			
4	40mm "GI Two-Way" vent valve.	No	14
5	110mm "GI Two-Way" vent valve.	No	12
6	50mm Reducer.	No	8
7	110mm Eccentric reducer.	No	12
8	40mm Bend.	No	170
9	50mm Bend.	No	216
10	110mm Bend.	No	46
11	40mm Access bend.	No	69
12	50mm Access bend.	No	42
13	110mm Access bend.	No	6
14	110mm Access bend with anti-syphon horn.	No	6
15	40mm Junction.	No	90
16	110mm Junction.	No	45
17	110mm Access junction.	No	20
18	110mm Reducing junction.	No	15
19	110mm Reducing access junction.	No	15

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1	110mm Double junction.	No	17		
2	110mm Access double junction.	No	12		
3	110mm Double reducing junction.	No	9		
4	110mm Access double reducing junction.	No	9		
5	110 x 40mm Boss connector.	No	19		
6	110 x 50mm Boss connector.	No	17		
7	110mm Pan collar and joint to outgo of W.C. pan.	No	9		
8	110mm Bent access pan collar and joint to outgo of W.C. pan.	No	9		
9	40mm P-Trap with joints to outlet of sanitary fitting including adaptor and to end of PVC pipe.	No	9		
10	40mm Double bowl sink combination and P-trap ditto.	No	9		
<u>Chromium Plated Brass</u>					
11	40mm Sinkwaste as Cobra 316 complete with shank, backnut, plug and chain.	No	9		
12	32 x 40mm Bottle trap as Cobra 350, joints to outlet of sanitary fitting and to end of PVC pipe and including adaptor.	No	9		
13	40 x 40mm Ditto.	No	9		
<u>SANITARY FITTINGS</u>					
NOTE:					
All fittings butting up against wall or floor finishes are to be sealed with an approved silicone sealer to the Architects satisfaction.					

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<u>Stainless Steel</u>				
1	Citimetal Code DT 150C drop-in type sink and drainer unit, size 1500 x 457mm overall with double centre bowls size 410 x 343 x 165mm deep, and fitted into opening in worktop and sealed all round with anti-fungicidal silicone sealant.	No	4	
<u>White Glazed Fireclay Fittings Including Assembling And Fixing In Position, Expanding Bolts And Mortices In Brick Or Concrete Walls, Connecting Up, Etc. (Tap And Mixer Set Reference Numbers Are Those Of Cobra Brassware)</u>				
2	Valadres Nice 370mm diameter underslung vanity basin fitted with Carina 292CA chromium plated basin mixer, complete with plug, chain, stay, basin waste, mounting kit and fixing to underside of vanity top and sealing all round with anti-fungicidal silicone sealant.	No	5	
<u>White Glazed Vitreous China Fittings Including Assembling And Fixing In Position, Expanding Bolts And Mortices In Brick Or Concrete Walls, Connecting Up, Etc. (Tap And Mixer Set Reference Numbers Are Those Of Cobra Brassware)</u>				
3	Vaal 7050 Hibiscus basin, size 510 x 405mm overall, fixed to wall with two 8446ZO bolts and fitted with two 505-21B chromium plated elbow action pillar taps, 301 chromium plated basin waste with plug and chain.	No	16	
4	Vaal 750200 Protea Paraplegic low level W.C. suite comprising washdown pan with P-trap and matching 9 litre low-level cistern with chromium plated side-flush lever mounted on wall, heavy duty double flap white plastic seat, 40mm white PVC flush pipe, one end jointed to union of flushing cistern and other end jointed to arm of W.C. pan with rubber connection.	No	4	
5	Vaal 771302 Loerie closed coupled W.C. suite comprising washdown pan with P-trap and matching 6 litre push-button top dual flush cistern, double flap white plastic thermoset seat and coupling up cistern to pan.	No	9	
6	Vaal 704002 Lavatera back inlet bowl hung urinal with 38mm chromium plated brass union for waste, fixed to wall with two 8127 hanger brackets and CP top inlet 7041ZO spreader	No	2	
<u>HOT AND COLD WATER SUPPLY</u>				
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uPVC Class 16 Pressure Water Supply Pipe Jointed With "Lyng" Mechanical Rubber Ring Joints Including Short Lengths And Cutting And Laid In Pipe Trenches As SABS 1200 LB Of 1979 And SABS 1200 DB Of 1982

1	25mm Pipe and laying in ground plus minus 1000mm deep.	m	181
2	50mm Pipe and laying in ground in plus munis 1000mm deep.	m	162
3	25mm uPVC bend 90 degrees.	No	42
4	50mm uPVC bend 90 degrees.	No	26
5	25mm Tee.	No	43
6	50mm Tee.	No	25
7	50mm Reducing tee.	No	14
8	50mm Flanged adaptor with flange drilled for and including the required bolts and nuts and fitted with neoprene gasket.	No	18
9	50mm Flanged adaptor with flange drilled for and including the required bolts and nuts and fitted with neoprene gasket.	No	18
<u>Extra For uPVC, Cast Iron Or Purpose Made Steel Fittings, Etc</u>			
<u>Note: Steel pipes and specials should be manufactured from Grade A steel in accordance with SABS 719, have a wall thickness of 4mm, outsides of pipes to be hot dipped galvanised to SABS 763 (heavy duty), seep blasted and then coated with coal-tar epoxy (DFT 400 micrometers)</u>			
10	110mm uPVC bend 11 ¼ degrees.	No	5
11	110mm uPVC bend 22 ½ degrees.	No	7
12	110mm uPVC bend 45 degrees.	No	7
13	110mm uPVC bend 90 degrees.	No	16
14	110mm Diameter special VJ coupling to suit PVC to steel connection.	No	9
15	100mm Flanged steel equal tee.	No	4

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1	110mm Tee.	No	12		
2	110mm Hydrant tee.	No	8		
3	110 x 75mm Reducing tee.	No	8		
4	Joint of 75mm uPVC to 76mm copper pipe including couplings, etc	No	8		
5	110mm Flanged adaptor with flange drilled for and including the required bolts and nuts and fitted with neoprene gasket.	No	12		
6	110mm Saddle piece around uPVC pipe, drilled and tapped for 25mm connection.	No	8		
7	Ditto, but drilled and tapped for 50mm connection.	No	8		
8	Ditto, but drilled and tapped for 75mm connection.	No	8		
9	110mm Scour tee.	No	4		
10	50mm Glenfield sluice valve with flanged ends.	No	4		
11	75mm Glenfield sluice valve with flanged ends.	No	4		
12	75mm AVK double flanged cap-top non-rising spindle rubber seal gate valve corrosion protected with water resistant non-toxic fusion bonded epoxy pipe coating to a minimum thickness of 300 micrometers all in accordance with SABS 1217, one end jointed to tee and other end to above mentioned 200mm long steel pipe.	No	4		
13	Extra over excavation in earth as described for drain trenches, chambers, etc., for excavation in soft rock.	m3	57		
14	Ditto but in hard rock.	m3	14		
15	Concrete (15MPa) thrust block (approximately 0,05 cubic metres) at bends, etc., including casing.	No	7		
16	Imported Sabunga filling as backfill to pipe trenches and compact to 93% modified AASHTO.	m3	25		
17	Extra over all excavations for drain trenches for carting away from the site all surplus material from the excavations (measured net - no allowance for bulking).	m3	32		
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<u>Class 16 Polycop Water Supply Pipe</u>				
1	15mm Pipe and laying in ground 1000mm deep.	m	96	
2	22mm Ditto.	m	120	
3	28mm Ditto.	m	220	
<u>Extra For Polycop Compression Type Fittings</u>				
4	15mm Fittings.	No	25	
5	22mm Fittings.	No	24	
6	28mm Fittings.	No	16	
<u>Class 2 Medium Copper Pipes</u>				
7	15mm Pipe and laying in ground 1000mm deep.	m	26	
8	15mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases), in concrete, etc.	m	30	
9	22mm Ditto.	m	28	
10	28mm Ditto.	m	32	
<u>Extra For Conex Brass Compression Type Fittings</u>				
11	15mm Fittings.	No	35	
12	22mm Fittings.	No	26	
13	28mm Fittings.	No	24	
<u>Extra For Copcal Capillary Type Fittings With Soldered Joints</u>				
14	15mm Fittings.	No	34	
15	22mm Fittings.	No	32	
16	28mm Fittings.	No	24	
<u>Catalogue Numbers Refer To Cobra Brassware Catalogue</u>				
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Brass Fittings Including Couplings To Copper

1	22mm Hose bibtap as Cobra 108 with wallplate elbow plugged to wall.	No	18
2	15mm Stopcock as Cobra 131.	No	9
3	22mm Ditto.	No	9
4	28mm Ditto.	No	6
5	22mm Vacuum breaker.	No	5

Chromium Plated Brass Fittings Including Couplings To Copper

6	15mm Extension piece with detachable wall flange as Cobra 059.	No	9
7	15mm Toilet bibcock as Star 106.	No	18
8	15mm Elbow action pillartap as Star 503-21R.	No	4
9	22mm Elbow action pillartap as Star 503-21R.	No	4
10	15mm Stopcock (underwall pattern) as Star 138.	No	9
11	15mm Wall type sink mixer with overarm swivel outlet as Star 166/041.	No	2

Cast Brass Including Couplings To Copper

12	28mm Fullway gate valve as Cobra 1003/125.	No	4
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Lagging

13	Heavy brown paper loosely wrapped around 15mm pipe as sheath for expansion.	m	46
14	Ditto, but around 22mm pipe.	m	20
15	Ditto, but around 28mm pipe.	m	20

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	<u>Sundries</u>				
1	Excavate for and build stopcock chamber size 1750 x 1100 x 1400mm deep internally formed of 200mm thick cement concrete (15MPa) bottom, one brick sides in cement mortar, 150mm thick cement concrete (25MPa) cover slab, 40kg bar reinforcing, rebated for and fitted with 600 x 600mm x 119kg type 8B cast iron double seal cover and frame including casing, filling in and ramming.	No	4		
	<u>Hot Water Cylinders</u>				
2	150 Litre white enamelled Kwikot Meagflo horizontal wall mounted type electric hot water copper cylinder with 20mm connections and fitted with monel metal electrical element complete with vacuum breaker, pressure reducing valve and relief valve including all joints to copper pipes and fixing in position to wall with four 10 x 76mm expanding bolts in mortices in wall and connect up.	No	2		
3	40mm PVC overflow and fixing to falls to wall, etc	m	6		
4	Extra for 40mm bend.	No	8		
5	100mm Ditto.	m	10		
6	25mm Pipe and fixing to walls, floors, in roofs, soffit of concrete slab, in chases (including chases), in concrete, etc.	m	39		
7	50mm Ditto.	m	24		
	<u>Sundries</u>				
8	4,5Kg dry chemical type fire extinguisher complete with bracket and meranti board, fixed to wall with expanding bolts and including mortices in brickwork.	No	12		
9	9 Kg ditto.	No	22		
10	"Chubb" or other approved turnable hosereel bearing SABS mark and brackets with patent swivel joints, fitted with 30m length of 19mm diameter SABS red PVC hose with gunmetal 'shut-off' control nozzle and chromium plated wheelhead valve and fix reel and nozzle bracket to plastered walls with and including 6 x 76mm expanding bolts in mortices in wall.	No	6		
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1	63mm Diameter approved canvas fire hose 30m long (burnetised, shrunk and guaranteed to withstand a pressure of 21 bars), fitted at each end with instantaneous couplings, securely bound with copper wire, rolled up, strapped and hung on and including galvanised mild steel bracket, thrice countersunk holed and screwed to back of hose cupboard.	No	6		
2	63mm Diameter ditto but fitted at one end with instantaneous coupling and other end with 63mm diameter copper branch pipe 450mm long with 20mm brass nozzle, hose folded and laid in bottom of hose cupboard.	No	8		
3	Cement concrete (20MPa) fire hydrant pedestal 1500mm high overall, tapering from 300 x 300mm at base to 200mm diameter octagonal top, finished smooth on exposed faces in 3.1 cement mortar with clean and sharp arrises, painted as per municipal requirements including necessary formwork, excavation for embedding 600mm deep into ground, filling and ramming.	No	8		
<u>TESTING</u>					
4	Allow for testing all drains, sanitary plumbing and water supplies to the satisfaction of the Architect and to Municipal requirements. All defective work is to be taken out and replaced at the Contractor's expense.			Item	
<u>BUILDER'S WORK TO PLUMBER</u>					
<u>Cut Hole For Pipe Not Exceeding 110mm Diameter And Make Good Through</u>					
5	Existing half brick wall.	No	9		
6	Existing one brick wall.	No	9		
<u>Painting</u>					
<u>(CPAP Work Group No. 152 Unless Otherwise Stated)</u>					
<u>Prepare And Apply One Coat Zinc Chromate Primer, One Undercoat And One Coat High Gloss Enamel On Copper Surfaces</u>					
7	On pipe not exceeding 300mm girth.	m	36		
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Prepare And Apply One PVC Primer And One Coat High Gloss Enamel On PVC Surfaces

1	On pipe not exceeding 300mm girth.	m	60	
2	On pipe exceeding 300mm girth.	m2	18	

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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 17</u>			
<u>GLAZING</u>			
<u>(CPAP Work Group No. 150 Unless Otherwise Stated)</u>			
NOTE:			
Panes are in rectangular shapes unless described as irregular shaped.			

<u>SUNDRIES</u>			
<u>4mm Float Glass Silver Backed Mirror With Polished Edges All Around</u>			
1	Mirror size 450 x 600mm four times holed for and screwed with chromium plated two piece cover headed screws to and including hardwood plugs in wall.	No	8
<u>Special Bullet Proof Glass at Finance Building Provisional</u>			
2	Grey Powdered Aluminium Frame Stepped DPC, must be built to stop water penetration, and fitted as per manufacturer's spec. 53mm thick G3 level bullet resistance,antibandit windows. Size 1174 x 1000 x 200mm placed in pairs..	No	4
3	Allow for sundry items @ 5% cost	Item	
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Bill No. 17 Glazing O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021			

Item No		<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
	<u>BILL No. 18</u>			
	<u>PAINTWORK</u> <u>(Provisional)</u>			
	<u>(CPAP Work Group No. 152 Unless Otherwise Stated)</u>			
	NOTE:			
	All concrete surfaces are smooth (Class F2 or F3 finish to formwork) unless otherwise described. Concrete surfaces with a Class F1 finish to formwork are described as rough.			
	All surfaces of walls are internal unless otherwise described.			
	All plaster surfaces are smooth (floated) unless otherwise described.			

	<u>PAINT ON PLASTER, FIBRE REINFORCED CEMENT, ETC</u>			
	<u>Prepare And Apply One Coat Plascon Merit Universal Undercoat Tinted With Plascon Velvalglo (VLO) And Two Coats Plascon Super Accrylic (EPL) Paint On</u>			
1	Plastered walls.	m2	2 635	
2	Plastered ceilings.	m2	153	
3	Soffits of Slabs	m2	153	
4	Sloping Soffits of Stairs	m2	18	
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	Bill No. 18			
	Paintwork			
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Bill No. 18

Paintwork

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 Paintwork
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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 20</u>			
<u>EXTERNAL WORKS (PROVISIONAL)</u>			
<u>SITE EXCAVATIONS</u>			
<u>EARTHWORKS</u>			
NOTE:			
The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section.			

<u>(CPAP Work Group No. 104 Unless Otherwise Stated)</u>			
<u>Site Clearance</u>			
<u>Note: Provisional Measurement</u>			
<u>Illegal Dumping of Hip Material on Site:</u> <u>Contractor shall clear and cut away all hip materials dumped on site from previous projects done in the local area.</u>			
<u>A strict monitoring of cutting away by trucks to a designated dumping area with a radius of +- 5 km not greater than 10 away from site must be allowed.</u>			
<u>The Contractor must take into cognisance all factors which might affect the Environment and work within the municipal guide laws.</u>			
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	6 450
2	Dig up, cut systematically all Roots, Stubs, Trees with girths not exceeding 500mm and prepare soil for works, take all wood stems cut in manageable sizes and deposit away from site +- 5m, where designated by authorities.	No	15
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External Works (Provisional)			
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<u>EARTHWORKS</u>				
(CPAP Work Group No. 104 Unless Otherwise Stated)				
<u>BRICK AND BLOCK PAVING</u>				
(CPAP Work Group No. 116 Unless Otherwise Stated)				
<u>Plain Precast Cement Concrete (25MPa) Paving Bricks Size 500 x 500 x 50mm Thick Laid On Sand Bed (Elsewhere Measured) And With Joints Filled With Sand</u>				
1	Paving to stretcher pattern.	m2	1 950	
<u>CONCRETE TO: WALK WAYS; APRONS; RAMPS; HELIPAD</u>				
<u>Excavations, Filling, Etc</u>				
2	Excavate in earth to reduce levels under Concrete Pavings not exceeding 2000mm deep including depositing, levelling and consolidating spoil on site.	m3	878	
3	Allow for keeping excavations free from water.		Item	
4	Earth filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 97% modified AASHTO density under pavings.	m3	878	
5	Scarify, mix and consolidate top 150mm of subgrade to 93% modified AASHTO density.	m2	1 950	
<u>ETRA OVER FOR LANDSCAPING</u>				
6	Clear and level around from reduced level and prepare the entire area to receive landscaping works.	m2	250	
7	Excavate in earth pickable material not exceeding 2000mm deep forming a channel	m3	63	
8	Ditto, but for Footings (Planters with Seating)	m3	84	
9	Extra over bulk excavations in earth for excavation in soft rock.	m3	25	
10	Ditto, but in hard rock.	m3	13	
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Bill No. 19 External Works (Provisional) O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

1	Extra over all excavations for carting away from the site all surplus excavated material.	m3	40		
2	Allow for keeping excavations free from water.		Item		
3	Earth filling, Supplied & selected by the Contractor (SABHUNGA) material, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under Trapezodial Channel.	m3	33		
4	Approved imported G7 sub-base material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 150mm thick sub-base course under roads.	m3	10		
	<u>Testing</u>				
5	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	10		
	<u>CONCRETE TO:</u>				
	<u>(CPAP Work Group No. 110 Unless Otherwise Stated)</u>				
6	25 MPa Reinforced Concrete to Walkways, Planters,Ramps with Wire Mesh Ref 311.	m3	68		
7	Ditto, but in Footings for (Ramp, Seatings,Walk ways & Helipad) Brickwork	m3	31		
8	Allow for Formwork to edges no exceeding 300mm high	m	185		
	<u>BRICKWORK TO WALK WAYS; RAMPS; HELIPAD</u>				
9	One brickwall.	m2	196		
	<u>Allow The Prime Cost Of R 6 500.00 Per Thousand Bricks Delivered To Site And Excluding VAT And Point With Ruled-In Vertical And Horizontal Joints (Roan Satin FBX)</u>				
10	Extra over brickwork for face brickwork.	m2	360		
11	Bulnose Stretcher on flat PMS type	m	77		
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	Bill No. 19				
	External Works (Provisional)				
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Brickwork Sundries

1	Brick reinforcement 80mm wide.	m	384
2	Ditto, but 160mm wide.	m	1 080

ROADWORKS

(CPAP Work Group No. 154 Unless Otherwise Stated)

NOTE: Any defects which may become evident due to bad workmanship or materials within six months of completion shall be made good by the Contractor at his own expense.

EARTHWORKS

(CPAP Work Group No. 104 Unless Otherwise Stated)

Excavations, Filling, Etc

3	Excavate in earth to open face over site to reduce levels, including depositing in layers not exceeding 100mm thick, watering and consolidating spoil to 96% modified AASHTO density to platforms, etc.	m3	691
4	Extra over bulk excavations in earth for excavation in soft rock.	m3	173
5	Ditto, but in hard rock.	m3	69
6	Extra over all excavations for carting away from the site all surplus excavated material.	m3	691
7	Allow for keeping excavations free from water.		Item
8	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density under roads.	m3	60

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 O.R. TAMBO DISTRICT MUNICIPALITY
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1	Approved imported G5 sub-base material, selected and supplied by the Contractor, deposited, watered and consolidated to 95% modified AASHTO density in 150mm thick sub-base course under roads.	m3	320		
2	Approved imported SSG sub-base material, selected and supplied by the Contractor, deposited, watered and consolidated to 98% modified AASHTO density in 150mm thick sub-base course under roads.	m3	310		
3	Approved imported G2 base course material, selected and supplied by the Contractor, deposited, watered and consolidated to 98% modified AASHTO density in 150mm thick base course under roads.	m3	200		
4	Scarify, mix and consolidate top 200mm of subgrade to 90% modified AASHTO density.	m2	1 680		
	<u>Testing</u>				
5	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	15		
	<u>CONCRETE</u>				
	(CPAP Work Group No. 110 Unless Otherwise Stated)				
	<u>Concrete Cast Against Excavated Surfaces</u>				
6	Cement concrete (25MPa) in roads cast in panels not exceeding 9m2.	m3	252		
	<u>Concrete Sundries</u>				
	<u>Concrete in Storm Water Grating</u>				
	<u>Reinforced Concrete Base Slab, including to Sides of grating with Ref 311</u>				
7	Concrete	m3	9		
8	Float top of concrete smooth, to falls, with a wood float whilst concrete still green with the addition of 2.1 sand and cement as necessary.	m2	1 680		
	Carried to Abstract				R
	Bill No. 19				
	External Works (Provisional)				
	O.R. TAMBO DISTRICT MUNICIPALITY				
	JOB No.Rev 02/2021				

FORMWORK

(CPAP Work Group No. 111 Unless Otherwise Stated)

Class F1 Formwork To

1	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	420	
	<u>Movement Joints, Etc</u>			
2	Expansion joint 150mm high or wide formed of one layer 10mm thick Jointex joint filler set between vertical concrete or brick surfaces.	m	300	
3	3mm Wide x 30mm deep sawcut joint in top of concrete.	m	300	
4	Horizontal joggle construction joint not exceeding 300mm high between vertical concrete surfaces with and including 2.1 cement slurry to one face.	m	200	

REINFORCEMENT

(CPAP Work Group No. 114 Unless Otherwise Stated)

5	High tensile steel mesh reinforcement Ref. 311 to concrete surface beds, slabs, etc.	m2	1 620	
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PRECAST CONCRETE

(CPAP Work Group No. 112 Unless Otherwise Stated)

Precast Cement Concrete (20MPa) Kerbs And Channels Finished Smooth From The Mould On Exposed Surfaces And Including Excavation, Backfilling, Etc

6	Kerb as Fig. 14 size 75 x 150mm high with one corner rounded to 20mm radius, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 50mm thick x 300mm wide layer of 8.1 cement mortar with 100 x 100mm triangular haunching behind kerb and jointed in 3.1 cement mortar.	m	50	
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Carried to Abstract

R

1	Kerb as Fig. 3 size 150 x 300mm high overall with front face splayed 180mm high to a finished thickness of 125mm at top rounded to 20mm radius, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course, bedded on a 50mm thick x 300mm wide layer of 8.1 cement mortar with 100 x 100mm triangular haunching behind kerb and jointed in 3.1 cement mortar.	m	400		
2	Ditto, but circular on plan to exceeding 4000mm radius.	m	10		
3	Ditto, but circular on plan to not exceeding 4000mm radius.	m	10		
4	Kerb and channel formed of Fig. 3 kerb size 150 x 300mm high with front face splayed 180mm high to a finished thickness of 125mm at top, rounded to 20mm radius, Fig. 14 channel 300mm wide splayed from 125mm thick on one edge to 90mm thick at junction with kerb, laid in lengths not exceeding 1000mm on a well rammed earth bottom or base course and bedded on a 50mm thick x 610mm wide layer of 8.1 cement mortar with 100 x 100mm triangular haunching behind kerb and jointed in 3.1 cement mortar.	m	120		
5	Ditto, but circular on plan to exceeding 4000mm radius.	m	12		
6	Ditto, but circular on plan to not exceeding 4000mm radius.	m	12		
7	V-channel 900mm wide 150mm High wide splayed on top from 75mm thick .	m	92		
8	Ditto But 1100mm wide 100mm Thick grade 25MPa Reinforced Concrete Trapezoidal Storm Water Channel, cast in 3 metre panels as per engineers drawings	m	67		
<u>WATERPROOFING</u>					
<u>(CPAP Work Group No. 120 Unless Otherwise Stated)</u>					
9	Rake out 10mm wide joint filler on top surfaces of concrete for a depth of 15mm and clean, prime with Thioflex Primer and caulk with Thioflex 600 polysulphide caulking compound.	m	200		
10	Clean out 3 x 30mm deep saw cut on top surfaces of concrete, insert yarn backing to a depth of 10mm, prime with Thioflex Primer and caulk with Thioflex 600 polysulphide caulking compound.	m	250		
Carried to Abstract					R
Bill No. 19 External Works (Provisional) O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021					

STORMWATER DRAINAGE

(CPAP Work Group No. 146 Unless Otherwise Stated)

Rigid 300mm Diametre PVC Storm water Pipe, Socketed Soil Piping With Bedding And Filling As Laid Out In SANS 966 - Bedding Flexible Pipes, Backfilling With Excavated Material

1	300mm Pipe and excavation not exceeding 1000mm deep.	m	250
2	Ditto, but exceeding 1000mm and not exceeding 2000mm deep.	m	90
<u>Extra For</u>			
3	300mm 90 Degree bend.	No	8
4	300mm Junction.	No	6
5	300mm 45 Degree junction.	No	6
6	300mm Gulley trap with hopper head.	No	9
<u>Sundries</u>			
7	Box at junction of two 300mm concrete pipes formed of 150mm thick concrete (15MPa) bottom and sides with sides carried up slightly above top of pipes and finished level on top and covered with 75mm thick precast cement concrete (20MPa) slab.	No	7
8	Excavate for and build catchpit size 1260 x 1260 x 900mm deep internally, formed of 150mm thick cement concrete (15MPa) bottom, one brick sides, 100mm high cement concrete (20MPa) kerb around top, rebated for and fitted with 450 x 450mm x 27.4 kg Square Dished Gratings medeum duty , finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar.	No	2

Carried to Abstract

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1	Excavate for and build catchpit size 1300 x 1460 x 900mm average deep internally, formed of 150mm thick cement concrete (15MPa) bottom, one brick sides, 100mm high cement concrete (20MPa) kerb around top, rebated for and fitted with 520 x 790mm x 49,5kg cast iron Rectangular dished grating and frame, finished on all exposed surfaces in 3.1 cement plaster and bottom graded to outlets in 3.1 cement mortar. (Fig 5 SABS 1115-1976)	No	2	
2	Excavate for and build precast concrete circular manhole 1050mm internal diameter x 885mm deep formed 150mm thick cement concrete (20MPa) base, precast concrete circular manhole sections as SABS 677 of varying heights to suit depth of each manhole, precast concrete cover slab with opening for and including 550mm diameter x 176kg Type 2A cast iron cover and frame bedded on same.	No	2	
3	Excavate for and build precast concrete circular manhole 1050mm internal diameter x 2061mm deep formed 150mm thick cement concrete (20MPa) base, precast concrete circular manhole sections as SABS 677 of varying heights to suit depth of each manhole, precast concrete cover slab with opening for and including 550mm diameter x 176kg Type 2A cast iron cover and frame bedded on same.	No	1	
4	Excavate for and build precast concrete circular manhole 1050mm internal diameter x 2467mm deep formed 150mm thick cement concrete (20MPa) base, precast concrete circular manhole sections as SABS 677 of varying heights to suit depth of each manhole, precast concrete cover slab with opening for and including 550mm diameter x 176kg Type 2A cast iron cover and frame bedded on same.	No	2	
<u>Retaining walls to sides of Plat Forms</u>				
<u>Terra Force Blocks</u>				
5	Excavate in earth for Retaining Wall trenches not exceeding 2000mm deep.	m3	180	
Carried to Abstract				R
Bill No. 19 External Works (Provisional) O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021				

Back excavation of vertical sides of excavations in earth for Working Space including backfilling compacted to 95% Mod AASHTO density:

1	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to footings, beams, etc against excavated face.	m2	60
2	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to footings, beams, etc against excavated face.	m2	60
3	Excavate in soft rock:	m3	45
4	Ditto, but in hard rock.	m3	36
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	250
6	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	288
7	Allow for keeping excavations free from water.		Item
8	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated under floors, etc.	m3	120
9	G7 Earth filling, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 98% modified AASHTO density as backfilling to retaining walls.	m3	84

Testing

10	Provide and have filling compaction check tested by a Consulting Engineer's Laboratory and deliver the results to the Architect within 24 hours of the tests being completed.	No	12
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CONCRETE

11	15MPa blinding on Strip Footings	m3	12
12	25 MPa Reinforced Strip Footings for Retaining walls	m3	54

Carried to Abstract

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Bill No. 19
 External Works (Provisional)
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REINFORCEMENT

(CPAP Work Group No. 114 Unless Otherwise Stated)

Mild Steel Bar Reinforcement To Structural Concrete Work

1	8mm Diameter bars.	t	2.70
2	10mm Diameter bars.	t	2.27

BRICKWORK

(CPAP Work Group No. 116 Unless Otherwise Stated)

Brickwork In Clay Bricks In 3.1 Cement Mortar In

3	340mm Cavity wall in two half brick thicknesses including Ref 311 Wire Mesh.	m2	216
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Brickwork Sundries

4	Ditto, but 160mm wide.	m	2 592
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FACE BRICKWORK

Allow The Prime Cost Of R 6500,00 (Six Thousand Five Hundred Rand) Per Thousand Face Bricks Delivered To Site And Pointed With Ruled-In Vertical And Horizontal Joints (ROAN SATIN FBX)

5	Extra over brickwork for face brickwork.	m2	96
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CONSERVANCY TANK

SEPTIC TANK

6	Excavate in earth over site at reduce levels, not exceeding 2000 mm deep.	m3	200
7	Ditto, But exceeding 2000mm deep and not exceeding 4000mm deep.	m3	20
8	Excavate in Soft rock	m3	66

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1	Ditto, but Hard rock.	m3	33		
<u>WORKING SPACE</u>					
2	Exceeding 500mm and not exceeding 1500mm deep for placing and removing formwork to footings, Walls, etc against excavated face.	m2	252		
3	Exceeding 1500mm and not exceeding 3000mm deep for placing and removing formwork to footings, walls, beams, etc against excavated face.	m2	126		
<u>Extra over back excavation for working space for excavations in Soft/Hard rock:</u>					
4	Not Exceeding 500mm deep for placing and removing formwork to footings, walls beams, etc against bottom excavated Surface of Septic Hole.	m2	57		
5	Extra over all excavations for carting away from the site all surplus excavated material.	m3	210		
6	Earth filling, selected & Supplied by the Contractor G7 or sabhunga, deposited in layers not exceeding 150mm thick, watered and consolidated to 95% modified AASHTO density.	m3	52		
7	Risk of Collapse ne 1.5m deep	m2	64		
8	Ditto, but exceeding 1.5 and ne 3.0 deep	m2	26		
<u>CONCRETE WORKS</u>					
9	15 Mpa Blinding	m3	5		
10	25 Mpa Concrete base with Wire Mesh Ref 193.	m3	10		
11	30MPa 200mm thick Reinforced Concrete wall	m3	20		
12	160mm uPVC in/out flow	No	2		
13	30Mpa Reinforced Concrete slab	m3	15		
14	Power Float Concrete Floor & Roof Slabs	m2	100		
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FORMWORK

1	Formwork to Edges ne 300mm high.	m	50
2	Formwork to soffits of slabs	m2	100
3	Formwork to sides, not exceeding 2m high	m2	100

METAL WORKS

MANHOLE FRAME AND COVER

4	Heavy duty Manhole cover and Frame, Type 8A cast iron two piece double seal manhole cover and frame.	No	9
5	Hot Dipped Galvanised Steel Air Ventilators including 50mm diametre stainless steel pipe built into concrete slab and held tight by cement mortar Supplied & Fixed Complete	No	9

French Drain/Soak Away

The Following In Soakaway Including Necessary Planking And Strutting And Keeping Excavations Dry

6	Excavate in earth not exceeding 2000mm deep including trimming sides, levelling and ramming bottoms, part return, fill in and ram, remainder deposit on site and spread and level where directed.	m3	37
7	Extra over ditto for excavation in soft rock.	m3	13
8	Ditto, but for excavation in hard rock.	m3	10
9	Allow for risk of collapse to sides of trench and hole excavations not exceeding 1500mm deep.	m2	105
10	Allow for keeping excavations free from water.		Item
11	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	25
12	Coarse granular filling ranging in size from 30 to 50mm, selected and supplied by the Contractor, as filling to soakaway.	m3	4

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Bill No. 19
 External Works (Provisional)
 O.R. TAMBO DISTRICT MUNICIPALITY
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1	Bidum geotextile fabric laid in trench over sand filling.	m2	25
<u>HIGH SECURITY FENCING</u>			
<u>HIGH DENSITY PANEL FENCING AND GATES</u>			
2	2100mm High x 3305mm Wide, 'High Density' panel fence with 4mm thick mesh diameter and aperture sizes of 76.2 x 12.7mm galvanised mesh panels including razor spikes clamped to taper posts with 8 x single/ 8 x double bolt comb clamps with anti-vandal bolts	m	516
<u>POSTS</u>			
3	85 X 45 X 85 x 2700mm high galvanised tapered posts complete with uv stabilized polyester caps cast into 800 x 400 x 600mm deep 15MPa concrete bases	No	165
4	Corner post size 76x152x2700mm high including locking recess mechanism sealed with uv stabilised polymer cap cast into 800x400x600mm deep 15MPa concrete bases.	No	12
<u>GATES</u>			
5	7850mm long x 2016mm high sliding gate with galvanised mesh panels including razor spikes as per construction drawing gate detail.	No	3
6	sliding gate motor to suit 7850mm long x 2016mm high sliding gate	No	2

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Bill No. 19

External Works (Provisional)

ABSTRACT

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Bill No. 19
 External Works (Provisional)
 O.R. TAMBO DISTRICT MUNICIPALITY
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<u>Item No</u>	<u>Quantity</u>	<u>Rate</u>	<u>Amount</u>
<u>BILL No. 21</u>			
<u>PROVISIONAL SUMS</u>			
<u>The Following Nominated/Selected Sub-Contract Amounts Are For Work To Be Carried Out By Nominated/Selected Sub-Contractors:</u>			
1			
Provide the sum of R 500 000.00 (Five Hundred Thousand Rand) for Supply & Fit complete with Warranties & Full Guarantees (Air Conditioners).	Item		500 000 00
2			
Allow for general attendance on ditto.	Item		
3			
Allow for profit if required.	Item		
4			
Provide the sum of R 700 000.00 (Seven Hundred Thousand Rand) for Landscaping (Indigenous Trees & Plants) supplied and fixed complete from Land Scapers.	Item		700 000 00
5			
Allow for general attendance on ditto.	Item		
6			
Allow for profit if required.	Item		
7			
Provide the sum of R 250 000.00 (Two Hundred and Fifty Thousand Rand) for Stainless Steel Staircases, Screens, etc supplied and fixed complete.	Item		250 000 00
8			
Allow for general attendance on ditto.	Item		
9			
Allow for profit if required.	Item		
10			
Provide the sum of R 20 000.00 (Twenty Thousand Rand) for Internal Signage supplied and fixed complete.	Item		20 000 00
11			
Allow for general attendance on ditto.	Item		
12			
Allow for profit if required.	Item		
13			
Provide the sum of R 20 000.00 (Twenty Thousand Rand) for External Signage supplied and fixed complete.	Item		20 000 00
14			
Allow for general attendance on ditto.	Item		
		R	
Bill No. 20			
Provisional Sums			
O.R. TAMBO DISTRICT MUNICIPALITY			
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1	Allow for profit if required.	Item		
2	Provide the sum of R 600 000.00 (Six Hundred Thousand Rand) for Training. (Employment Student trainees, Graduates, CLO, PSC Members [payslips & financial details monitored by Client & Principal Agent]). Provisionally Allow Salaries, Allowances and Wages as Follows: 1. PSC Member @ 2000 for two meetings by 5 people max 2. CLO Person @ 5000 pm 3. Student Trainee @ 4000 pm by 2 min number 4. Recent Graduate @ 8000 and over pm minimum NB: All the above must be employed for Local Municipalities and the District with the descretion of the Contractor, Principal Agent, Quantity Surveyor's.	Item	600 000	00
3	Allow for general attendance on ditto not exceeding a maximum of 10% markup. <u>The Following Monetary Provisions Are To Be Omitted From The Contract Sum And Used As Directed Below:</u>	Item		
4	Provide the sum of R 1 950 000.00 (One Million Nine Hundred Fifty Thousand Rand) for CPAP to be used in terms of the Agreement And Schedule Of Conditions Of Building Contract.	Item	1 950 000	00
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	Bill No. 20 Provisional Sums O.R. TAMBO DISTRICT MUNICIPALITY JOB No.Rev 02/2021			

Bill No. 20

Provisional Sums

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Bill No. 20
 Provisional Sums
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FINAL SUMMARY

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4	Masonry	-59-	
5	Waterproofing	-62-	
6	Roof Coverings, Etc.	-65-	
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8	Ceilings, Partitions & Access Flooring	-71-	
9	Floor Coverings, Wall Linings, Etc.	-74-	
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11	Structural Steelwork	-83-	
12	Metalwork	-86-	
13	Aluminium Works, Shop Fronts etc	-104-	
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15	Tiling	-110-	
16	Plumbing & Drainage (Provisional)	-124-	
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FINAL SUMMARY

<u>Bill No</u>		<u>Page No</u>		<u>Amount</u>
	Brought Forward		R	
	TOTAL OF BUILDING WORKS EXCLUDING MECHANICAL & ELECTRICAL WORKS		R	
	Add Total Amount from Volume Three BOQ for Electrical Works		R	Not Priced
	Allow for Profit and Attendance Percentage for the Main Contractor in all Electrical Works till Completion of Works.	Item		Not Priced
	TOTAL OF BUILDING WORKS & CONTINGENCIES		R	
	VAT at the rate of 15%		R	
	CARRIED TO FORM OF TENDER		R	
	O.R. TAMBO DISTRICT MUNICIPALITY			
	JOB No.Rev 02/2021			

BILL NO 1: PRELIMINARY & GENERAL

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	100,00	<u>PREMINARY AND GENERAL</u>				
	101,00	Preminary and General items is provided to cover contractor's charges for complaince with the conditions of contract and Specification, including the provisions maintenance and removal of his site establishment, etc.				
	102,00	FIXED CHARGES				
	103,00	.01 Site Establishment	Sum	1		
	104,00	.02 Removal of Site Establishment	Sum	1		
	105,00	.03 Other Fixed-charges Obligations (Please Specify).....	Sum			
	106,00	CONTRACTUAL REQUIREMENTS				
	107,00	.01 Provision of Surities	Sum	1		
	108,00	.02 Insurance	Sum	1		
	109,00	.03 Third Party Insurance	Sum	1		
	110,00	.04 Guarantee of Work	Sum	1		
	111,00	.05 Provide Test Results	Sum	1		
	112,00	.06 Provision of Record Drawings	Sum	1		
	113,00	.07 Other Value Related Obligation (Please Specify).....	Sum	1		
	114,00	TIME RELATED ITEMS				
	115,00	.01 Contractual Requirements	Sum	1		
	116,00	.02 Oparation and Maintanance of Site Establishment	Sum	1		
	117,00	.03 Supervision for Duration of Contract	Sum	1		
	118,00	.04 Other Time-Related Obligations Communication Rent Tools	Sum Monthly Monthly Monthly	1		
	Carried forward					

BILL NO 1: PRELIMINARY & GENERAL

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
		Brought forward				
	119,00	OCCUPATIONAL HEALTH AND SAFETY ACT				
	120,00	The Contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) It is required of the contractor to thoroughly study Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.				
	121,00	The contractor must take note that compliance with the Occuoational Health and Safety Act, Construction Regulations and Health and Safety Specifications compulsory. In the ivent of partial or total non-compliance, the principal agent, not withstanding the provisions of clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entiled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be intertained.				
	122,00	Provision of Personal Protective Equipment (PPE).	item	1		
	123,00	Cost of medical certificates and medical surveillance.	item	1		
	124,00	Initial (baseline) medical examinations	item	1		
	125,00	Periodic and exit examinations	item	1		
	126,00	Induction training.	item	1		
	127,00	Provision of first aid boxes to GSR requirements.	item	1		
	128,00	Submission of a Health and Safety File.	item	1		
TOTAL BILL NO.1 CARRIED TO SUMMARY						

BILL NO 2: MAIN CABLING AND PERIMETER LIGHTING

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
		Brought forward				
129,00		<u>DISTRIBUTION BOARDS</u>				
		Pre-wired Distribution Kiosks complete as per Drawings and Specifications:				
130,00	.01	Kiosk No.1 Supply Install	ea ea	1 1		
131,00	.02	Kiosk No.2 Supply Install	ea ea	1 1		
132,00	.03	Kiosk No.3 Supply Install	ea ea	1 1		
133,00		Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	3 3		
134,00		<u>LOW-VOLTAGE CABLE INSTALLATIONS</u>				
		Low-voltage cable (PVC/SWA/PVC Cu):				
135,00	.01	50 mm ² x 4-core PVC/SWA/PVC CU Supply Install	m m	100 100		
136,00	.02	35 mm ² x 4-core PVC/SWA/PVC CU Supply Install	m m	150 150		
137,00	.03	25 mm ² x 4-core PVC/SWA/PVC CU Supply Install	m m	80 80		
138,00	.04	16 mm ² x 4-core PVC/SWA/PVC CU Supply Install	m m	140 140		
139,00	.05	16 mm ² x 3-core PVC/SWA/PVC CU Supply Install	m m	180 180		
140,00	.06	10 mm ² x 3-core PVC/SWA/PVC CU Supply Install	m m	210 210		
141,00	.07	6 mm ² x 3-core PVC/SWA/PVC CU Supply Install	m m	90 90		
		Carried forward				

BILL NO 2: MAIN CABLING AND PERIMETER LIGHTING

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
		Brought forward				
	142,00	Termination of low voltage cable:				
	143,00	.01 50 mm ² x 4-core PVC/SWA/PVC CU Supply Install	ea ea	4 4		
	144,00	.02 35 mm ² x 4-core PVC/SWA/PVC CU Supply Install	ea ea	4 4		
	145,00	.03 25 mm ² x 4-core PVC/SWA/PVC CU Supply Install	ea ea	3 3		
	146,00	.04 16 mm ² x 4-core PVC/SWA/PVC CU Supply Install	ea ea	8 8		
	147,00	.05 16 mm ² x 3-core PVC/SWA/PVC CU Supply Install	ea ea	4 4		
	148,00	.06 10 mm ² x 3-core PVC/SWA/PVC CU Supply Install	ea ea	4 4		
	149,00	.07 6 mm ² x 3-core PVC/SWA/PVC CU Supply Install	ea ea	2 2		
	150,00	Supply and install earth continuity conductor:				
	151,00	.01 25 mm ² BCEW Supply Install	m m	100 100		
	152,00	.02 16 mm ² BCEW Supply Install	m m	250 250		
	153,00	.03 10 mm ² BCEW Supply Install	m m	210 210		
	154,00	.04 6 mm ² BCEW Supply Install	m m	90 90		
	155,00	Terminate earth continuity conductor:				
	156,00	.01 25 mm ² BCEW Supply Install	ea ea	4 4		
	157,00	.02 16 mm ² BCEW Supply Install	ea ea	18 18		
		Carried forward				

BILL NO 2: MAIN CABLING AND PERIMETER LIGHTING

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
		Brought forward				
	158,00	.04 10 mm ² BCEW Supply Install	ea ea	6 6		
	159,00	.04 6 mm ² BCEW Supply Install	ea ea	4 4		
	160,00	Cable Route Markers: 250mm High truncated pyramid cable route marker with stainless steel insert engraved with the cable details e.g., "LV 25mm ² 4C CABLE". installed to protrude 150mm above ground and every 35m along and at the cable route direction change: Supply Install	ea ea	14 14		
	161,00	Manhole for telkom: Supply and build either pre-cast or full wall manhole with light duty cover with the following minimum inside dimensions: - 650 x 650 x 600mm deep	ea	3		
	162,00	Manhole for electrical: Supply and build either pre-cast or full wall manhole with light duty cover with the following minimum inside dimensions: - 650 x 650 x 600mm deep	ea	5		
	163,00	Pre-cast trench: Allow for 450 x 600 x 800mm deep pre-cast concrete trench with trench cover, for MV & LV cables through buildings.	item	1		
	164,00	<u>CABLE TRENCH AND ACCESSORIES</u>				
	165,00	Excavate in all materials for trenches, backfill, compact and dispose of surplus material for 600mm deep x 400mm wide				
	166,00	.01 In earth	m ³	120		
	167,00	.02 Soft rock	m ³	20		
	168,00	.03 Hard rock	m ³	10		
	169,00	Cable sleeves				
	170,00	.02 110 mm dia Supply Install	m m	120 120		
	171,00	.03 70 mm dia Supply Install	m m	120 120		
		Carried forward				

BILL NO 2: MAIN CABLING AND PERIMETER LIGHTING

MHLONTLO DISASTER MANAGEMENT CENTRE: ELECTRICAL INSTALLATION

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT	
		Brought forward					
	172,00	.04 50 mm dia Supply Install	m m	180 180			
	173,00	.06 90 degrees for 110mm dia sleeve Supply Install	ea ea	6 6			
	174,00	.07 90 degrees for 70mm dia sleeve Supply Install	ea ea	3 3			
	175,00	.07 90 degrees for 50mm dia sleeve Supply Install	ea ea	8 8			
	176,00	Supply and install plastic warning tape: Supply Install	m m	1 500 1 500			
	177,00	Drawn into conduit or sleeve 1,6mm galvanised draw wire Supply Install	m m	2 000 2 000			
	178,00	<u>LIGHTING SYSTEM</u>					
	179,00	Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications					
	180,00	.17 Type PS24 (58W LED POST TOP) Supply Install	m m	16 16			
	181,00	.18 Type P24 (14W LED BOLLARD FITTING) Supply Install	m m	8 8			
	182,00	Photo-electric switch:					
	183,00	.01 National plug in type Supply Install	ea ea	3 3			
	TOTAL BILL NO. 2 CARRIED TO TOTAL SUMMARY						

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
184,00	<u>DISTRIBUTION BOARDS</u> Install New Distribution Boards complete as per Drawings and Specifications:				
185,00	.01 Main DB (+/-.... x mm) - Ground Floor Supply Install	ea ea	1 1		
186,00	.02 Sub DB - A (+/-..... x mm) - Ground Floor (Server Room) Supply Install	ea ea	1 1		
187,00	.03 Sub DB -B (+/-.... x mm) - Ground Floor (Office 10) Supply Install	ea ea	1 1		
188,00	.04 Sub DB -C (+/-.... x mm) - First Floor (Passage) Supply Install	ea ea	1 1		
189,00	Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	4 4		
190,00	<u>WIRING</u> 600/1000 grade PVC insulated single core copper conductors drawn into conduit Red/Black/Yellow-Green:				
191,00	.01 10 mm² PVC Supply Install	m m	100 100		
192,00	.02 6 mm² PVC Supply Install	m m	80 80		
193,00	.03 4 mm² PVC Supply Install	m m	100 100		
194,00	.04 2.5 mm² PVC Supply Install	m m	5 000 5 000		
195,00	.05 1.5 mm² PVC Supply Install	m m	6 000 6 000		
196,00	.06 4 mm² BCEW Supply Install	m m	100 100		
197,00	.07 2.5 mm² BCEW Supply Install	m m	4 000 4 000		
198,00	<u>LIGHTING SYSTEM</u> Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications				
199,00	.01 Type B10 (20W ROUND LED BULKHEAD) Supply Install	ea ea	18 18		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
200,00	.02 Type B25 (20W SQUARE LED BULKHEAD) Supply Install	ea ea	16 16		
201,00	.03 Type B26 (80W INDUSTRIAL LED BULKHEAD) Supply Install	ea ea	4 4		
202,00	.04 Type D1 (23W RECESSED SQUARE ALUMINIUM DOWNLIGHT) Supply Install	ea ea	48 48		
203,00	.05 Type D2 (14W RECESSED ROUND DOWNLIGHT) Supply Install	ea ea	82 82		
204,00	.06 Type D3 (10W RECESSED ROUND DOWNLIGHT) Supply Install	ea ea	38 38		
205,00	.07 Type D4 (SURFACE MOUNTED UP DOWN LED LIGHT) Supply Install	ea ea	15 15		
206,00	.08 Type D5 (6W SURFACE MOUNTED LED WATER TIGHT UP LIGHT) Supply Install	ea ea	4 4		
207,00	.09 Type D6 (4W RECESSED LED LIGHT) Supply Install	ea ea	4 4		
208,00	.10 Type D7 (4W LED HELIPAD LIGHT) Supply Install	ea ea	6 6		
209,00	.11 Type F3 (1200mm DIFFUSED 40W LED SURFACE MOUNTED LIGHT) Supply Install	ea ea	10 10		
210,00	.12 Type F15 (1200mm 40W LED VAPOUR PROOF SURFACE MOUNTED LIGHT) Supply Install	ea ea	8 8		
211,00	.13 Type F112 (2 x 24W 600X600mm LED RECESSED LIGHT) Supply Install	ea ea	58 58		
212,00	.14 Type F115 (3 x 24W 1200X600mm LED RECESSED LIGHT) Supply Install	ea ea	42 42		
213,00	.15 Type I1 (RED SAFE LIGHT) Supply Install	ea ea	2 2		
214,00	.16 Type LN (40W LINEAR RECESSED FITTING) Supply Install	m m	40 40		
215,00	.19 Type TB (135W LEDBAY LIGHT FITTING) Supply Install	ea ea	12 12		
216,00	.21 Type HB (150W SUSPENDED HIGH BAY) Supply Install	ea ea	1 1		
217,00	.20 Type EXIT (EMERGENCY EXIT LIGHT WITH LED LAMPS & MANTAINED BACKUP BATTERY) Supply Install	ea ea	8 8		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
218,00	<u>LIGHT SWITCHES</u>				
	Light switch: Rocker type light switch with coverplate installed into a flush box measured elsewhere. Clipsal S2000 or equivalent.				
219,00	.01 16A, single-lever, one-way Supply Install	ea ea	40 40		
220,00	.02 16A, two-lever, one-way Supply Install	ea ea	6 6		
221,00	.03 16A, three-lever, one-way Supply Install	ea ea	4 4		
222,00	.04 16A, single-lever, two-way Supply Install	ea ea	4 4		
223,00	.05 16A intermediate switching Supply Install	ea ea	6 6		
224,00	.06 Ceiling mounted with PIR33, Ultrasonic and Light Level Sensor : Type Wattstopper DT-355. 230V Supply Install	ea ea	3 3		
225,00	Photo-electric switch:				
226,00	.01 National plug in type Supply Install	ea ea	3 3		
227,00	.02 National 16A unit in dummy bulkhead Supply Install	ea ea	2 2		
228,00	<u>POWER OUTLETS</u>				
	Socket outlet: 3 pin switched socket outlets with cover plates installed in a flush steel box. Clipsal S2000 or equivalent.				
229,00	.01 16A, single SSO Supply Install	ea ea	12 12		
230,00	.02 16A, double SSO Supply Install	ea ea	58 58		
231,00	.03 16A, Pedestal Combo with Dedicated, Normal, Data and Telephone points Supply Install	ea ea	10 10		
232,00	.04 16A, dedicated SSO Supply Install	ea ea	2 2		
233,00	.05 16A, single SSO, two pin and USB Port Supply Install	ea ea	12 12		
234,00	.06 5A, un-switched socket outlet Supply Install	ea ea	319 319		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
235,00	<u>ISOLATOR OUTLETS</u>				
	Isolators:				
236,00	.01 20A 2 pole Supply Install	ea ea	16 16		
237,00	.02 20A 2 pole weatherproof, in ABB YORK BOX : S15 Supply Install	ea ea	8 8		
238,00	.03 30A 2 pole Supply Install	ea ea	6 6		
239,00	.04 30A 2 pole weatherproof, in ABB YORK BOX : S15 Supply Install	ea ea	3 3		
240,00	.05 30A 3 pole Supply Install	ea ea	2 2		
241,00	.06 60A 3 pole weatherproof, in ABB YORK BOX : S15 Supply Install	ea ea	2 2		
242,00	Supply and install connections from isolator to fixed appliances via heavy duty flexible conduit (sprague)	m	200		
243,00	Supply and install one stove point, complete with male plug	ea	1		
244,00	Supply and install complete 250L Electrical geyser	ea	1		
245,00	Supply and install 314 Litres Metallic Fridge/Freezer with water Dispenser; with 10 Year Warranty	item	1		
246,00	Supply and install complete projector with automated screen 300-inch display and great quality: full HD resolution with 3LCD technology. Outstanding 5000 lumen brightness Versatile connectivity options: including dual HDMI and wireless connectivity flexible interaction: Split-screen and multi-PC projection. Gesture Presenter: Intuitively use gestures to	item	1		
247,00	<u>CONDUITS AND ACCESSORIES</u>				
	PVC conduit: PVC conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
248,00	.01 20mm Supply Install	ea ea	5 000 5 000		
249,00	.02 25mm Supply Install	ea ea	3 000 3 000		
250,00	Galvanized conduit: Galvanized conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
251,00	.01 20mm Supply Install	ea ea	100 100		
252,00	.02 25mm Supply Install	ea ea	100 100		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
253,00	Conduit Boxes: Round box for 20mm conduit, back or side entry for 1, 2, 3 or 4-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
254,00	.01 Round PVC round box Supply Install	ea ea	1 200 1 200		
255,00	.02 Round Galvanized round box Supply Install	ea ea	100 100		
256,00	Steel Boxes: Galvanized steel boxes with 20mm knockouts as specified chased into brickwork.				
257,00	.01 100mm x 50mm x 50mm Supply Install	ea ea	64 64		
258,00	.02 100mm x 100mm x 50mm Supply Install	ea ea	98 98		
259,00	.03 3 x (100mm x 100mm x 50mm) Gang Horizontal Galvanised Wall Box with sub-division. Supply Install	ea ea	10 10		
260,00	<u>POWERSKIRTING AND ACCESSORIES</u>				
261,00	Powerskirting: 165x55mm metal power skirting, 2 separate compartment mounted on the wall with duct cover including joint covers measured elsewhere.				
262,00	.01 Grey colour power skirting Supply Install	m m	150 150		
263,00	.02 End cap Supply Install	ea ea	48 48		
264,00	.03 Internal elbow Supply Install	ea ea	24 24		
265,00	.04 External elbow Supply Install	ea ea	3 3		
266,00	.05 Cover joining clip Supply Install	ea ea	48 48		
267,00	.06 Flat tee Supply Install	ea ea	1 1		
268,00	.07 Flat elbow Supply Install	ea ea	2 2		
269,00	Powerskirting outlets and plates:				
270,00	.01 16A SSO Supply Install	ea ea	41 41		
271,00	.02 16A dedicated SSO [Red/Blue/Black] Supply Install	ea ea	28 28		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
272,00	.03 Universal twin cradle Supply Install	ea ea	30 30		
273,00	.04 Telephone Socket RJ11 Supply Install	ea ea	30 30		
274,00	.05 Data Socket RJ45 Supply Install	ea ea	30 30		
275,00	.06 Euro Un-switched Power Socket Outlets Supply Install	ea ea	10 10		
276,00	<u>WIRING DUCT</u> Galvanised single compartment single cover wiring duct (±127 mm x 76 mm) with galvanised cover installed in roof space, bolted onto roof trusses or fixed to a wall (screwed) - supported every 1200 mm. Type 4 wiring duct. (P9000)				
277,00	.01 P9000, galvanised single compartment duct Supply Install	m m	130 130		
278,00	.02 Flat/Horizontal Elbow Supply Install	ea ea	3 3		
279,00	.03 Tee Raduised Crossover Supply Install	ea ea	1 1		
280,00	.04 Internal/External Elbow Supply Install	ea ea	2 2		
281,00	.05 End cap Supply Install	ea ea	4 4		
282,00	.06 Distribution Outlet Supply Install	ea ea	3 3		
283,00	Galvanised welded wire mesh wiring duct (±150 mm x 50 mm) with galvanised cover installed in roof space, bolted onto roof trusses or fixed to a wall (Hot Dipped Galvinised) in 1.6mm thickness. (Medium Duty Cable Tray)				
284,00	.01 150 mm x 50 mm, galvanised welded wire mesh wiring duct Supply Install	m m	90 90		
285,00	.02 Flat/Horizontal Elbow Supply Install	ea ea	3 3		
286,00	.03 Flat/Tee Supply Install	ea ea	1 1		
287,00	.04 Crossover Supply Install	ea ea	1 1		
288,00	.05 Riser/Dropper Supply Install	ea ea	1 1		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
289,00	<u>MEDIUM DUTY CABLE TRAY</u>				
290,00	Galvanised steel,rust proof medium duty cable tray on a wall including a wiring duct spacer e.g. P2000,spaced at 1000mm complete with tray,splices,bolts,washers and nuts,spacer,etc.Allow for fixing of the cable tray to the spacer.				
291,00	.01 Medium duty cable tray 300mm wide (minimum 1.6mm thick) Supply Install	m m	15 15		
292,00	.02 90 degrees Horizontal elbow Supply Install	ea ea	2 2		
293,00	<u>CABLE LADDER</u>				
294,00	Hot dipped galvanised steel, rust proof cable ladder compete with ladder, splices (will be minimised) bolts, washers and nuts, etc. The ladder side rail shall be 76mm high and cross rung 23mm x 45mm x 8mm x 1.6mm thick spaced at 375mm. The cable ladder shall be 6m lengths unless stated differently. Allow for fixing of the ladder to cantilever arms or suspension bracketa at interval of 2000mm. Prices shall include for cutting of cable ladder to the required size.				
295,00	.01 Cable ladder 300mm wide (side rail minimum 2mm thick) Supply Install	m m	10 10		
296,00	.02 90 degree horizontal bend Supply Install	ea ea	1 1		
297,00	.03 Horizontal tee Supply Install	ea ea	1 1		
298,00	.04 90 degree internal elbow Supply Install	ea ea	2 2		
299,00	.05 4 Way cross over Supply Install	ea ea	1 1		
300,00	<u>TELEPHONE, DATA AND ACCESSORIES</u>				
301,00	Telephone Flush mounted distribution board with soft board backing architrave and hinged door				
302,00	.01 450 x 450 x 150mm distribution board Supply Install	ea ea	3 3		
303,00	.02 300 x 300 x 150mm distribution board Supply Install	ea ea	1 1		
304,00	Earthing Earthing and bonding to SABS 0142 for each building	Sum	1		
305,00	Testing Testing of the complete electrical installation in terms of SABS 0142 and provision of Certificates of Compliance for each building.	Sum	1		
306,00	Bonding of water mains and cables Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded. All external earth wires and cable armouring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	item	1		
	Carried forward				

BILL NO 3.1: DISASTER MANAGEMENT BUILDING - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
307,00	Technical inspections to earthing				
308,00	(a) Check earthing and bonding of outlet points, equipment, cable and wireways, fixed appliances, water and gas pipes, etc.				
309,00	(b) Check installation and termination of protective conductor and earth electrodes(c) Test for earth continuity.				
	(c) Test for earth continuity.	sum	1		
310,00	<u>SUNDRY ITEMS</u>				
311,00	As installed drawings Allow for the marking up of prints for the production of "as installed" records by the Engineer.	sum	1		
312,00	<u>PROVISIONAL SUMS</u>				
313,00	Provision of Boom gate Allow for the supply & installation of a Boom gate and gate motor with 3 remotes for each ,at the discretion of the Engineer, and may be omitted in part or in full	sum	3	R 25 000,00	R 75 000,00
314,00	.01 Allow for profit & attendance	%			
315,00	Provision of burglar alarm system Allow for the supply & installation of a burglar alarm system ,at the discretion of the Engineer, and may be omitted in part or in full	sum	1	R 15 000,00	R 15 000,00
316,00	.01 Allow for profit & attendance	%			
317,00	Provision of Public Address System Allow for the supply & installation of a public address system ,at the discretion of the Engineer, and may be omitted in part or in full	sum	1	R 15 000,00	R 15 000,00
318,00	.01 Allow for profit & attendance	%			
317,00	Provision of Lattice Tower All for Complete supply and installation, testing and commissioning of lattice tower as per Fire Department Specification.	sum	1	R 200 000,00	R 200 000,00
318,00	.01 Allow for profit & attendance	%			
319,00	Eskom connection	sum	1	R 300 000,00	R 300 000,00
320,00	.01 Allow for profit & attendance	%			
TOTAL BILL NO. 3.1 CARRIED TO SUMMARY					

BILL NO 3.2: DISASTER MANAGEMENT BUILDING - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	325,00	<p>LIGHTNING PROTECTION INSTALLATION</p> <p>The Contractor shall price and make allowance for the complete Lightning Protection Installation to include the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and required guarantee of the system for 12 months</p> <p>The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 1014-1:7 Bonding Lightning Protection Systems to Structures. Where applicable all steel roof sheeting to the structure shall suitably earthed to the special earth systems.</p> <p>Grade "A" type earth electrodes (earth spikes of at least 1.5m in length) shall be driven into the ground just off the centre line of each building gable walls of each individula block or where required.</p> <p>In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exit 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>				
	326,00	A complete risk assessment on structures in accordance with these IEC 62305 Standards inconjunction with to BSEN 62305.	Sum	1		
	327,00	Bonding of all equipment to be on the same electrical potential as specified as per SANS 1014-1:2-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:	Sum	1		
	328,00	Soft excavation for earth conductor not exceeding 1m deep	m ³	30		
		CONDUITS AND ACCESSORIES				
	329,00	20mm diameter PVC in the cavity wall as indicated on the drawing				
	330,00	.01 20mm Supply Install	m m	80 80		
	Carried forward					

BILL NO 3.2: DISASTER MANAGEMENT BUILDING - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward					
	331,00	Conduit Boxes: Round box conduit, back or side entry for 2-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
	332,00	20mm	ea	25		
		Supply	ea	25		
		Install				
	333,00	Steel spacer, to clamp 20mm PVC conduit.				
	334,00	.01 20mm				
		Supply	ea	90		
		Install	ea	90		
	335,00	Earth Electrode: SANS 1063 "A" Grade 16mm 16mm Ø earth electrode complete with heavy duty clamp, vertically driven at each down conductor.				
	336,00	.01 1200mm	ea	10		
		Supply	ea	10		
		Install				
	337,00	.02 1500mm	ea	1		rate only
		Supply	ea	1		rate only
		Install				
	338,00	Earth test point on ground: Concrete earth test pit with inspection lid, including SANS 1063 approved 1200 mm long, 16mm Ø earth electrode complete with heavy duty clamp.				
	339,00	.01 280 x 280 x 130mm	ea	3		
		Supply	ea	3		
		Install				
	Carried forward					

BILL NO 3.2: DISASTER MANAGEMENT BUILDING - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	340,00	<u>BONDING OF THE COMPLETE INSTALLATION</u> Bonding of all equipment to be on the same electrical potential as specified as per SANS 10142-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:				
	341,00	Hot and cold water system - Bonded to each other and back to main earth bar in DB's.	sum	1		
	342,00	Water pumps-All metal parts must be bonded and back to main earth bar.	sum	1		
	343,00	8mm round aluminium conductor down from the roof to inspection boxes 500mm above concrete apron	m	100		
	344,00	50mm ² bare copper earth conductors from inspection box to the electrodes in the ground	m	30		
	345,00	Complete termination arrangement of the aluminium conductor to the roof sheetings as described in the document specifications.	No	10		
	346,00	Complete termination arrangement of the insulated copper conductor to the aluminium conductor	No	10		
	347,00	Complete termination arrangement of the bare copper conductor to the installed electrodes	No	10		
	348,00	Sundries	Sum	1		
	349,00	Additional items deemed necessary to be installed by the Lightning Protection Specialist Contractor to comply with SANS 1063.	sum	1		
	350,00	Allow for the testing of the completed system and the issue of a SABS prescribed certificate	Sum	1		
	351,00	Lightning Protection System Installation Design: Produce an alternative Lightning Protection System by an Accredited Lightning Protection System Designers to BSEN 62303 and SANS standards.	sum	1		
	TOTAL BILL NO. 3.2 CARRIED TO SUMMARY					

MHLONTLO DISASTER MANAGEMENT CENTRE: DISASTER BUILDING SUMMARY

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 3.1 : ELECTRICAL INSTALLATION R

TOTAL BILL NO 3.2 : LIGHTNING PROTECTION SYSTEM INSTALLATION R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM R**

BILL NO 4.1: MULTI PURPOSE HALL - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
352,00	<u>DISTRIBUTION BOARDS</u> Install New Distribution Boards complete as per Drawings and Specifications:				
353,00	.01 Sub DB- D (+/-.... x mm) - Hall Supply Install	ea ea	1 1		
354,00	Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	1 1		
355,00	<u>WIRING</u> 600/1000 grade PVC insulated single core copper conductors drawn into conduit Red/Black/Yellow-Green:				
356,00	.01 10 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
357,00	.02 6 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
358,00	.03 4 mm ² PVC Supply Install	m m	10 10		
359,00	.04 2.5 mm ² PVC Supply Install	m m	1 000 1 000		
360,00	.05 1.5 mm ² PVC Supply Install	m m	1 500 1 500		
361,00	.06 4 mm ² BCEW Supply Install	m m	10 10		
362,00	.07 2.5 mm ² BCEW Supply Install	m m	1 000 1 000		
363,00	<u>LIGHTING SYSTEM</u> Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications				
364,00	.01 Type B10 (20W ROUND LED BULKHEAD) Supply Install	ea ea	4 4		
365,00	.02 Type B25 (20W SQUARE LED BULKHEAD) Supply Install	ea ea	12 12		
366,00	.03 Type B26 (80W INDUSTRIAL LED BULKHEAD) Supply Install	ea ea	10 10		
367,00	.04 Type D1 (23W RECESSED SQUARE ALUMINIUM DOWNLIGHT) Supply Install	ea ea	12 12		
368,00	.05 Type D2 (14W RECESSED ROUND DOWNLIGHT) Supply Install	ea ea	28 28		
369,00	.06 Type D4 (SURFACE MOUNTED UP DOWN LED LIGHT) Supply Install	ea ea	12 12		
	Carried forward				

BILL NO 4.1: MULTI PURPOSE HALL - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
370,00	.07 Type D5 (6W SURFACE MOUNTED LED WATER TIGHT UP LIGHT) Supply Install	ea ea	3 3		
371,00	.08 Type D8 (6W LED RECESSED LUMINAIRE) Supply Install	ea ea	4 4		
372,00	.09 Type F3 (1200mm DIFFUSED 40W LED SURFACE MOUNTED LIGHT) Supply Install	ea ea	5 5		
373,00	.10 Type F15 (1200mm 40W LED VAPOUR PROOF SURFACE MOUNTED LIGHT) Supply Install	ea ea	3 3		
374,00	.11 Stage Rotating Light (Remote controlled) Supply Install	ea ea	1 1		
374,00	.12 Type HB (150W SUSPENDED HIGH BAY) Supply Install	ea ea	16 16		
375,00	.13 Type EXIT (EMERGENCY EXIT LIGHT WITH LED LAMPS & Supply Install	ea ea	6 6		
376,00	<u>LIGHT SWITCHES</u> Light switch: Rocker type light switch with coverplate installed into a flush box measured elsewhere. Clipsal S2000 or equivalent.				
377,00	.01 16A, single-lever, one-way Supply Install	ea ea	6 6		
378,00	.02 16A, two-lever, one-way Supply Install	ea ea	4 4		
379,00	.03 16A, three-lever, one-way Supply Install	ea ea	2 2		
380,00	.04 16A, single-lever, two-way Supply Install	ea ea	2 2		
381,00	.05 16A intermediate switching Supply Install	ea ea	1 1		Rate Only Rate Only
382,00	.06 Ceiling mounted with PIR33, Ultrasonic and Light Level Sensor : Type Wattstopper DT-355. 230V Supply Install	ea ea	1 1		Rate Only Rate Only
383,00	Photo-electric switch:				
384,00	.01 National plug in type Supply Install	ea ea	1 1		Rate Only Rate Only
385,00	.02 National 16A unit in dummy bulkhead Supply Install	ea ea	2 2		
	Carried forward				

BILL NO 4.1: MULTI PURPOSE HALL - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
386,00	<u>POWER OUTLETS</u> Socket outlet: 3 pin switched socket outlets with cover plates installed in a flush steel box. Clipsal S2000 or equivalent.				
387,00	.01 16A, single SSO Supply Install	ea ea	6 6		
388,00	.02 16A, double SSO Supply Install	ea ea	20 20		
389,00	.05 16A, single SSO, two pin and USB Port Supply Install	ea ea	6 6		
390,00	.06 5A, un-switched socket outlet Supply Install	ea ea	68 68		
391,00	<u>ISOLATOR OUTLETS</u> Isolators:				
392,00	.01 20A 2 pole Supply Install	ea ea	4 4		
393,00	.02 20A 2 pole weatherproof, in ABB YORK BOX : S15 Supply Install	ea ea	2 2		
394,00	.03 30A 2 pole Supply Install	ea ea	3 3		
395,00	Supply and install connections from isolator to fixed appliances via heavy duty flexible conduit (sprague)	m	100		
396,00	Supply and install one stove point, complete with male plug	ea	1		
397,00	Supply and install complete 250L Electrical geyser	ea	2		
398,00	<u>CONDUITS AND ACCESSORIES</u>				
399,00	PVC conduit: PVC conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
400,00	.01 20mm Supply Install	ea ea	1 000 1 000		
401,00	.02 25mm Supply Install	ea ea	500 500		
	Carried forward				

BILL NO 4.1: MULTI PURPOSE HALL - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
402,00	Galvanized conduit: Galvanized conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
403,00	.01 20mm Supply Install	ea ea	100 100		
404,00	.02 25mm Supply Install	ea ea	50 50		
405,00	Conduit Boxes: Round box for 20mm conduit, back or side entry for 1, 2, 3 or 4-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
406,00	.01 Round PVC round box Supply Install	ea ea	500 500		
407,00	.02 Round Galvanized round box Supply Install	ea ea	10 10		
408,00	Steel Boxes: Galvanised steel boxes with 20mm knockouts as specified chased into brickwork.				
409,00	.01 100mm x 50mm x 50mm Supply Install	ea ea	17 17		
410,00	.02 100mm x 100mm x 50mm Supply Install	ea ea	32 32		
411,00	.03 3 x (100mm x 100mm x 50mm) Gang Horizontal Galvanised Wall Box with sub-division. Supply Install	ea ea	1 1		Rate Only Rate Only
412,00	<u>WIRING DUCT</u> Galvanised single compartment single cover wiring duct (±127 mm x 76 mm) with galvanised cover installed in roof space,bolted onto roof trusses or fixed to a wall (screwed) - supported every 1200 mm. Type 4 wiring duct. (P9000)				
413,00	.01 P2000, galvanised single compartment duct Supply Install	m m	70 70		
414,00	.02 Flat/Horizontal Elbow Supply Install	ea ea	8 8		
415,00	.03 Tee Raduised Crossover Supply Install	ea ea	1 1		
416,00	.04 Internal/External Elbow Supply Install	ea ea	2 2		
417,00	.05 End cap Supply Install	ea ea	6 6		
418,00	.06 Distribution Outlet Supply Install	ea ea	1 1		
	Carried forward				

BILL NO 4.1: MULTI PURPOSE HALL - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
419,00	CABLE LADDER				
420,00	Hot dipped galvanised steel, rust proof cable ladder compete with ladder, splices (will be minimised) bolts, washers and nuts, etc. The ladder side rail shall be 76mm high and cross rung 23mm x 45mm x 8mm x 1.6mm thick spaced at 375mm. The cable ladder shall be 6m lengths unless stated differently. Allow for fixing of the ladder to cantilever arms or suspension bracketeta at interval of 2000mm. Prices shall include for cutting of cable ladder to the required size.				
421,00	.01 Cable ladder 300mm wide (side rail minimum 2mm thick)	m	10		
	Supply	m	10		
	Install				
422,00	.02 90 degree horizontal bend	ea	1		
	Supply	ea	1		
	Install				
423,00	.03 Horizontal tee	ea	1		
	Supply	ea	1		
	Install				
424,00	.04 90 degree internal elbow	ea	2		
	Supply	ea	2		
	Install				
425,00	.05 4 Way cross over	ea	1		
	Supply	ea	1		
	Install				
426,00	Earthing				
	Earthing and bonding to SABS 0142 for each building	Sum	1		
427,00	Testing				
	Testing of the complete electrical installation in terms of SABS 0142 and provision of Certificates of Compliance for each building.	Sum	1		
428,00	Bonding of water mains and cables				
	Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded.				
	All external earth wires and cable armouring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	item	1		
425,00	Technical inspections to earthing				
426,00	(a) Check earthing and bonding of outlet points, equipment, cable and wireways, fixed appliances, water and gas pipes, etc.				
427,00	(b) Check installation and termination of protective conductor and earth electrodes(c) Test for earth continuity.				
	(c) Test for earth continuity.	sum	1		
428,00	SUNDRY ITEMS				
429,00	As installed drawings				
	Allow for the marking up of prints for the production of "as installed" records by the Engineer.	sum	1		
430,00	PROVISIONAL SUMS				
431,00	SOUND SYSTEM INSTALLATION				
	Allow for the supply & installation of an Access Control door ,at the discretion of the Engineer, and may be omitted in part or in full		1	R 20 000,00	R 20 000,00
432,00	.01 Allow for profit & attendance	%			
TOTAL BILL NO. 4.1 CARRIED TO SUMMARY					

BILL NO 4.2: MULTI PURPOSE HALL - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	433,00	<p>LIGHTNING PROTECTION INSTALLATION</p> <p>The Contractor shall price and make allowance for the complete Lightning Protection Installation to include the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and required guarantee of the system for 12 months</p> <p>The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 1014-1:7 Bonding Lightning Protection Systems to Structures. Where applicable all steel roof sheeting to the structure shall suitably earthed to the special earth systems.</p> <p>Grade "A" type earth electrodes (earth spikes of at least 1.5m in length) shall be driven into the ground just off the centre line of each building gable walls of each individula block or where required.</p> <p>In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exit 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>				
	434,00	A complete risk assessment on structures in accordance with these IEC 62305 Standards inconjunction with to BSEN 62305.	Sum	1		
	435,00	Bonding of all equipment to be on the same electrical potential as specified as per SANS 1014-1:2-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:	Sum	1		
	436,00	Soft excavation for earth conductor not exceeding 1m deep	m ³	20		
		CONDUITS AND ACCESSORIES				
	437,00	20mm diameter PVC in the cavity wall as indicated on the drawing				
	438,00	.01 20mm Supply Install	m m	30 30		
	Carried forward					

BILL NO 4.2: MULTI PURPOSE HALL - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward					
	439,00	Conduit Boxes: Round box conduit, back or side entry for 2-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
	440,00	20mm Supply Install	ea ea	8 8		
	441,00	Steel spacer, to clamp 20mm PVC conduit.				
	442,00	.01 20mm Supply Install	ea ea	64 64		
	443,00	Earth Electrode: SANS 1063 "A" Grade 16mm 16mm Ø earth electrode complete with heavy duty clamp, vertically driven at each down conductor.				
	444,00	.01 1200mm Supply Install	ea ea	8 8		
	445,00	.02 1500mm Supply Install	ea ea	1 1		rate only rate only
	446,00	Earth test point on ground: Concrete earth test pit with inspection lid, including SANS 1063 approved 1200 mm long, 16mm Ø earth electrode complete with heavy duty clamp.				
	447,00	.01 280 x 280 x 130mm Supply Install	ea ea	2 2		
	Carried forward					

BILL NO 4.2: MULTI PURPOSE HALL - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
		Brought forward				
	448,00	<u>BONDING OF THE COMPLETE INSTALLATION</u> Bonding of all equipment to be on the same electrical potential as specified as per SANS 10142-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:				
	449,00	Hot and cold water system - Bonded to each other and back to main earth bar in DB's.	sum	1		
	450,00	Water pumps-All metal parts must be bonded and back to main earth bar.	sum	1		
	451,00	8mm round aluminium conductor down from the roof to inspection boxes 500mm above concrete apron	m	80		
	452,00	50mm ² bare copper earth conductors from inspection box to the electrodes in the ground	m	15		
	453,00	Complete termination arrangement of the aluminium conductor to the roof sheetings as described in the document specifications.	No	8		
	454,00	Complete termination arrangement of the insulated copper conductor to the aluminium conductor	No	8		
	455,00	Complete termination arrangement of the bare copper conductor to the installed electrodes	No	8		
	456,00	Sundries	Sum	1		
	457,00	Additional items deemed necessary to be installed by the Lightning Protection Specialist Contractor to comply with SANS 1063.	sum	1		
	458,00	Allow for the testing of the completed system and the issue of a SABS prescribed certificate	Sum	1		
	TOTAL BILL NO. 4.2 CARRIED TO SUMMARY					

MHLONTLO DISASTER MANAGEMENT CENTRE: MULTI PURPOSE HALL SUMMARY

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 4.1 : ELECTRICAL INSTALLATION R

TOTAL BILL NO 4.2 : LIGHTNING PROTECTION SYSTEM INSTALLATION R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM R**

BILL NO 5.1: GUARD HOUSE 1 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
460,00	<u>DISTRIBUTION BOARDS</u> Install New Distribution Boards complete as per Drawings and Specifications:				
461,00	.01 Sub DB- E (+/-.... x mm) Supply Install	ea ea	1 1		
462,00	Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	1 1		
463,00	<u>WIRING</u> 600/1000 grade PVC insulated single core copper conductors drawn into conduit Red/Black/Yellow-Green:				
464,00	.01 10 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
465,00	.02 6 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
466,00	.03 4 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
467,00	.04 2.5 mm ² PVC Supply Install	m m	50 50		
468,00	.05 1.5 mm ² PVC Supply Install	m m	150 150		
469,00	.06 4 mm ² BCEW Supply Install	m m	1 1		Rate Only Rate Only
470,00	.07 2.5 mm ² BCEW Supply Install	m m	50 50		
471,00	<u>LIGHTING SYSTEM</u> Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications				
472,00	.01 Type B25 (20W SQUARE LED BULKHEAD) Supply Install	ea ea	1 1		
473,00	.02 Type B26 (80W INDUSTRIAL LED BULKHEAD) Supply Install	ea ea	4 4		
474,00	.03 Type F3 (1200mm DIFFUSED 40W LED SURFACE MOUNTED LIGHT) Supply Install	ea ea	1 1		
475,00	<u>LIGHT SWITCHES</u> Light switch: Rocker type light switch with coverplate installed into a flush box measured elsewhere. Clipsal S2000 or equivalent.				
476,00	.01 16A, single-lever, one-way Supply Install	ea ea	2 2		
	Carried forward				

BILL NO 5.1: GUARD HOUSE 1 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
477,00	Photo-electric switch:				
478,00	.01 National plug in type Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
479,00	.02 National 16A unit in dummy bulkhead Supply	ea	1		
	Install	ea	1		
480,00	<u>POWER OUTLETS</u>				
	Socket outlet: 3 pin switched socket outlets with cover plates installed in a flush steel box. Clipsal S2000 or equivalent.				
481,00	.01 16A, single SSO Supply	ea	1		
	Install	ea	1		
482,00	.02 16A, double SSO Supply	ea	2		
	Install	ea	2		
483,00	.03 16A, single SSO, two pin and USB Port Supply	ea	1		
	Install	ea	1		
484,00	.04 5A, un-switched socket outlet Supply	ea	1		
	Install	ea	1		
485,00	<u>CONDUITS AND ACCESSORIES</u>				
486,00	PVC conduit: PVC conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
487,00	.01 20mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
488,00	.02 25mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
484,00	Galvanized conduit: Galvanized conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
485,00	.01 20mm Supply	ea	10		
	Install	ea	10		
486,00	.02 25mm Supply	ea	3		
	Install	ea	3		
487,00	Conduit Boxes: Round box for 20mm conduit, back or side entry for 1, 2, 3 or 4-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
488,00	.01 Round PVC round box Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
489,00	.02 Round Galvanized round box Supply	ea	5		
	Install	ea	5		
	Carried forward				

BILL NO 5.1: GUARD HOUSE 1 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
490,00	Steel Boxes: Galvanised steel boxes with 20mm knockouts as specified chased into brickwork.				
491,00	.01 100mm x 50mm x 50mm Supply	ea	2		
	Install	ea	2		
492,00	.02 100mm x 100mm x 50mm Supply	ea	6		
	Install	ea	6		
493,00	.03 3 x (100mm x 100mm x 50mm) Gang Horizontal Galvanised Wall Box with sub-division. Supply	ea	1		
	Install	ea	1		Rate Only Rate Only
494,00	<u>POWERSKIRTING AND ACCESSORIES</u>				
495,00	Powerskirting: 165x55mm metal power skirting, 2 separate compartment mounted on the wall with duct cover including joint covers measured elsewhere.				
496,00	.01 Grey colour power skirting Supply	m	5		
	Install	m	5		
497,00	.02 End cap Supply	ea	2		
	Install	ea	2		
498,00	.03 Internal elbow Supply	ea	1		
	Install	ea	1		
499,00	.04 Cover joining clip Supply	ea	2		
	Install	ea	2		
500,00	Powerskirting outlets and plates:				
501,00	.01 16A SSO Supply	ea	3		
	Install	ea	3		
502,00	.02 16A dedicated SSO [Red/Blue/Black] Supply	ea	1		
	Install	ea	1		
499,00	.03 Universal twin cradle Supply	ea	2		
	Install	ea	2		
500,00	.04 Telephone Socket RJ11 Supply	ea	2		
	Install	ea	2		
501,00	.05 Data Socket RJ45 Supply	ea	1		
	Install	ea	1		
	Carried forward				

BILL NO 5.1: GUARD HOUSE 1 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
502,00	Access Control				
503,00	D10 industrial sliding gate motor, to drive maximum weight of 1000kg Coupled to a robust gearbox to provide an access automation system that is quick and powerful Intelligent speed control High duty cycle capability Smooth acceleration and deceleration Exceptionally easy system setup via LCD user interface Onboard CENTURION code-hopping multichannel receiver with selective add and delete Integrated ChronoGuard timer functionality Anti Theft Bracket 3 off each motor Nova V3 Remote with 3 Buttons - Black & Blue Supply Install	ea ea	1 1		
504,00	Earthing Earthing and bonding to SABS 0142 for each building	Sum	1		
505,00	Testing Testing of the complete electrical installation in terms of SABS 0142 and provision of Certificates of Compliance for each building.	Sum	1		
506,00	Bonding of water mains and cables Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded. All external earth wires and cable armoring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	item	1		
507,00	Technical inspections to earthing				
508,00	(a) Check earthing and bonding of outlet points, equipment, cable and wireways, fixed appliances, water and gas pipes, etc.				
509,00	(b) Check installation and termination of protective conductor and earth electrodes (c) Test for earth continuity. (c) Test for earth continuity.	sum	1		
510,00	SUNDRY ITEMS				
511,00	As installed drawings Allow for the marking up of prints for the production of "as installed" records by the Engineer.	sum	1		
TOTAL BILL NO. 5.1 CARRIED TO SUMMARY					

BILL NO 5.2: GUARD HOUSE 1 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	512,00	<p>LIGHTNING PROTECTION INSTALLATION</p> <p>The Contractor shall price and make allowance for the complete Lightning Protection Installation to include the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and required guarantee of the system for 12 months</p> <p>The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 1014-1:7 Bonding Lightning Protection Systems to Structures. Where applicable all steel roof sheeting to the structure shall suitably earthed to the special earth systems.</p> <p>Grade "A" type earth electrodes (earth spikes of at least 1.5m in length) shall be driven into the ground just off the centre line of each building gable walls of each individula block or where required.</p> <p>In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exit 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>				
	513,00	A complete risk assessment on structures in accordance with these IEC 62305 Standards inconjunction with to BSEN 62305.	Sum	1		
	514,00	Bonding of all equipment to be on the same electrical potential as specified as per SANS 1014-1:2-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:	Sum	1		
	515,00	Soft excavation for earth conductor not exceeding 1m deep	m ³	10		
		CONDUITS AND ACCESSORIES				
	516,00	20mm diameter PVC in the cavity wall as indicated on the drawing				
	517,00	.01 20mm Supply Install	m m	4 4		
	Carried forward					

BILL NO 5.2: GUARD HOUSE 1 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward					
	518,00	Conduit Boxes: Round box conduit, back or side entry for 2-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
	519,00	20mm Supply Install	ea ea	2 2		
	520,00	Steel spacer, to clamp 20mm PVC conduit.				
	521,00	.01 20mm Supply Install	ea ea	16 16		
	522,00	Earth Electrode: SANS 1063 "A" Grade 16mm 16mm Ø earth electrode complete with heavy duty clamp, vertically driven at each down conductor.				
	523,00	.01 1200mm Supply Install	ea ea	2 2		
	524,00	.02 1500mm Supply Install	ea ea	1 1		rate only rate only
	525,00	Earth test point on ground: Concrete earth test pit with inspection lid, including SANS 1063 approved 1200 mm long, 16mm Ø earth electrode complete with heavy duty clamp.				
	526,00	.01 280 x 280 x 130mm Supply Install	ea ea	1 1		
	Carried forward					

BILL NO 5.2: GUARD HOUSE 1 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	527,00	<u>BONDING OF THE COMPLETE INSTALLATION</u> Bonding of all equipment to be on the same electrical potential as specified as per SANS 10142-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:				
	528,00	Hot and cold water system - Bonded to each other and back to main earth bar in DB's.	sum	1		
	529,00	Water pumps-All metal parts must be bonded and back to main earth bar.	sum	1		
	530,00	8mm round aluminium conductor down from the roof to inspection boxes 500mm above concrete apron	m	10		
	531,00	50mm ² bare copper earth conductors from inspection box to the electrodes in the ground	m	4		
	532,00	Complete termination arrangement of the aluminium conductor to the roof sheetings as described in the document specifications.	No	2		
	533,00	Complete termination arrangement of the insulated copper conductor to the aluminium conductor	No	2		
	534,00	Complete termination arrangement of the bare copper conductor to the installed electrodes	No	2		
	535,00	Sundries	Sum	1		
	536,00	Additional items deemed necessary to be installed by the Lightning Protection Specialist Contractor to comply with SANS 1063.	sum	1		
	537,00	Allow for the testing of the completed system and the issue of a SABS prescribed certificate	Sum	1		
	TOTAL BILL NO. 5.2 CARRIED TO SUMMARY					

MHLONTLO DISASTER MANAGEMENT CENTRE: GUARD HOUSE 1 SUMMARY

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 5.1 : ELECTRICAL INSTALLATION R

TOTAL BILL NO 5.2 : LIGHTNING PROTECTION SYSTEM INSTALLATION R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM R**

BILL NO 6.1: GUARD HOUSE 2 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
539,00	<u>DISTRIBUTION BOARDS</u> Install New Distribution Boards complete as per Drawings and Specifications:				
540,00	.01 Sub DB- F (+/-.... x mm) Supply Install	ea ea	1 1		
541,00	Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	1 1		
542,00	<u>WIRING</u> 600/1000 grade PVC insulated single core copper conductors drawn into conduit Red/Black/Yellow-Green:				
543,00	.01 10 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
544,00	.02 6 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
545,00	.03 4 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
546,00	.04 2.5 mm ² PVC Supply Install	m m	50 50		
547,00	.05 1.5 mm ² PVC Supply Install	m m	150 150		
548,00	.06 4 mm ² BCEW Supply Install	m m	1 1		Rate Only Rate Only
549,00	.07 2.5 mm ² BCEW Supply Install	m m	50 50		
550,00	<u>LIGHTING SYSTEM</u> Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications				
551,00	.01 Type B25 (20W SQUARE LED BULKHEAD) Supply Install	ea ea	1 1		
552,00	.02 Type B26 (80W INDUSTRIAL LED BULKHEAD) Supply Install	ea ea	4 4		
553,00	.03 Type F3 (1200mm DIFFUSED 40W LED SURFACE MOUNTED LIGHT) Supply Install	ea ea	1 1		
554,00	<u>LIGHT SWITCHES</u> Light switch: Rocker type light switch with coverplate installed into a flush box measured elsewhere. Clipsal S2000 or equivalent.				
555,00	.01 16A, single-lever, one-way Supply Install	ea ea	2 2		
	Carried forward				

BILL NO 6.1: GUARD HOUSE 2 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
556,00	Photo-electric switch:				
557,00	.01 National plug in type Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
558,00	.02 National 16A unit in dummy bulkhead Supply	ea	1		
	Install	ea	1		
559,00	<u>POWER OUTLETS</u>				
	Socket outlet: 3 pin switched socket outlets with cover plates installed in a flush steel box. Clipsal S2000 or equivalent.				
560,00	.01 16A, single SSO Supply	ea	1		
	Install	ea	1		
561,00	.02 16A, double SSO Supply	ea	2		
	Install	ea	2		
562,00	.03 16A, single SSO, two pin and USB Port Supply	ea	1		
	Install	ea	1		
563,00	.04 5A, un-switched socket outlet Supply	ea	1		
	Install	ea	1		
564,00	<u>CONDUITS AND ACCESSORIES</u>				
565,00	PVC conduit: PVC conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
566,00	.01 20mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
567,00	.02 25mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
563,00	Galvanized conduit: Galvanized conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
564,00	.01 20mm Supply	ea	10		
	Install	ea	10		
565,00	.02 25mm Supply	ea	3		
	Install	ea	3		
566,00	Conduit Boxes: Round box for 20mm conduit, back or side entry for 1, 2, 3 or 4-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
567,00	.01 Round PVC round box Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
568,00	.02 Round Galvanized round box Supply	ea	5		
	Install	ea	5		
	Carried forward				

BILL NO 6.1: GUARD HOUSE 2 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
569,00	Steel Boxes: Galvanised steel boxes with 20mm knockouts as specified chased into brickwork.				
570,00	.01 100mm x 50mm x 50mm Supply	ea	2		
	Install	ea	2		
571,00	.02 100mm x 100mm x 50mm Supply	ea	6		
	Install	ea	6		
572,00	.03 3 x (100mm x 100mm x 50mm) Gang Horizontal Galvanised Wall Box with sub-division.	ea	1		
	Supply	ea	1		Rate Only
	Install				Rate Only
573,00	<u>POWERSKIRTING AND ACCESSORIES</u>				
574,00	Powerskirting: 165x55mm metal power skirting, 2 separate compartment mounted on the wall with duct cover including joint covers measured elsewhere.				
575,00	.01 Grey colour power skirting Supply	m	5		
	Install	m	5		
576,00	.02 End cap Supply	ea	2		
	Install	ea	2		
577,00	.03 Internal elbow Supply	ea	1		
	Install	ea	1		
578,00	.04 Cover joining clip Supply	ea	2		
	Install	ea	2		
579,00	Powerskirting outlets and plates:				
580,00	.01 16A SSO Supply	ea	3		
	Install	ea	3		
581,00	.02 16A dedicated SSO [Red/Blue/Black] Supply	ea	1		
	Install	ea	1		
578,00	.03 Universal twin cradle Supply	ea	2		
	Install	ea	2		
579,00	.04 Telephone Socket RJ11 Supply	ea	2		
	Install	ea	2		
580,00	.05 Data Socket RJ45 Supply	ea	1		
	Install	ea	1		
	Carried forward				

BILL NO 6.1: GUARD HOUSE 2 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
581,00	Access Control				
582,00	D10 industrial sliding gate motor, to drive maximum weight of 1000kg Coupled to a robust gearbox to provide an access automation system that is quick and powerful Intelligent speed control High duty cycle capability Smooth acceleration and deceleration Exceptionally easy system setup via LCD user interface Onboard CENTURION code-hopping multichannel receiver with selective add and delete Integrated ChronoGuard timer functionality Anti Theft Bracket 3 off each motor Nova V3 Remote with 3 Buttons - Black & Blue Supply Install	ea ea	1 1		
583,00	Earthing Earthing and bonding to SABS 0142 for each building	Sum	1		
584,00	Testing Testing of the complete electrical installation in terms of SABS 0142 and provision of Certificates of Compliance for each building.	Sum	1		
585,00	Bonding of water mains and cables Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded. All external earth wires and cable armoring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	item	1		
586,00	Technical inspections to earthing				
587,00	(a) Check earthing and bonding of outlet points, equipment, cable and wireways, fixed appliances, water and gas pipes, etc.				
588,00	(b) Check installation and termination of protective conductor and earth electrodes (c) Test for earth continuity. (c) Test for earth continuity.	sum	1		
589,00	SUNDRY ITEMS				
590,00	As installed drawings Allow for the marking up of prints for the production of "as installed" records by the Engineer.	sum	1		
TOTAL BILL NO. 6.1 CARRIED TO SUMMARY					

BILL NO 6.2: GUARD HOUSE 2 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	607,00	<p>LIGHTNING PROTECTION INSTALLATION</p> <p>The Contractor shall price and make allowance for the complete Lightning Protection Installation to include the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and required guarantee of the system for 12 months</p> <p>The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 1014-1:7 Bonding Lightning Protection Systems to Structures. Where applicable all steel roof sheeting to the structure shall suitably earthed to the special earth systems.</p> <p>Grade "A" type earth electrodes (earth spikes of at least 1.5m in length) shall be driven into the ground just off the centre line of each building gable walls of each individual block or where required.</p> <p>In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exit 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>				
	608,00	A complete risk assessment on structures in accordance with these IEC 62305 Standards in conjunction with to BSEN 62305.	Sum	1		
	609,00	Bonding of all equipment to be on the same electrical potential as specified as per SANS 1014-1:2-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:	Sum	1		
	610,00	Soft excavation for earth conductor not exceeding 1m deep	m ³	10		
		CONDUITS AND ACCESSORIES				
	611,00	20mm diameter PVC in the cavity wall as indicated on the drawing				
	612,00	.01 20mm Supply Install	m m	4 4		
	Carried forward					

BILL NO 6.2: GUARD HOUSE 2 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward					
	613,00	Conduit Boxes: Round box conduit, back or side entry for 2-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
	614,00	20mm Supply Install	ea ea	2 2		
	615,00	Steel spacer, to clamp 20mm PVC conduit.				
	616,00	.01 20mm Supply Install	ea ea	16 16		
	617,00	Earth Electrode: SANS 1063 "A" Grade 16mm 16mm Ø earth electrode complete with heavy duty clamp, vertically driven at each down conductor.				
	618,00	.01 1200mm Supply Install	ea ea	2 2		
	619,00	.02 1500mm Supply Install	ea ea	1 1		rate only rate only
	620,00	Earth test point on ground: Concrete earth test pit with inspection lid, including SANS 1063 approved 1200 mm long, 16mm Ø earth electrode complete with heavy duty clamp.				
	621,00	.01 280 x 280 x 130mm Supply Install	ea ea	1 1		
	Carried forward					

BILL NO 6.2: GUARD HOUSE 2 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
		Brought forward				
	622,00	<u>BONDING OF THE COMPLETE INSTALLATION</u> Bonding of all equipment to be on the same electrical potential as specified as per SANS 10142-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:				
	623,00	Hot and cold water system - Bonded to each other and back to main earth bar in DB's.	sum	1		
	624,00	Water pumps-All metal parts must be bonded and back to main earth bar.	sum	1		
	625,00	8mm round aluminium conductor down from the roof to inspection boxes 500mm above concrete apron	m	10		
	626,00	50mm ² bare copper earth conductors from inspection box to the electrodes in the ground	m	4		
	627,00	Complete termination arrangement of the aluminium conductor to the roof sheetings as described in the document specifications.	No	2		
	628,00	Complete termination arrangement of the insulated copper conductor to the aluminium conductor	No	2		
	629,00	Complete termination arrangement of the bare copper conductor to the installed electrodes	No	2		
	630,00	Sundries	Sum	1		
	631,00	Additional items deemed necessary to be installed by the Lightning Protection Specialist Contractor to comply with SANS 1063.	sum	1		
	632,00	Allow for the testing of the completed system and the issue of a SABS prescribed certificate	Sum	1		
	TOTAL BILL NO. 6.2 CARRIED TO SUMMARY					

MHLONTLO DISASTER MANAGEMENT CENTRE: GUARD HOUSE 2 SUMMARY

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 6.1 : ELECTRICAL INSTALLATION R

TOTAL BILL NO 6.2 : LIGHTNING PROTECTION SYSTEM INSTALLATION R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM R**

BILL NO 7.1: GUARD HOUSE 3 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
634,00	<u>DISTRIBUTION BOARDS</u> Install New Distribution Boards complete as per Drawings and Specifications:				
635,00	.01 Sub DB- G (+/-..... x mm) Supply Install	ea ea	1 1		
636,00	Weatherproof padlock (Keyed Alike) Supply and install A82 brass padlocks (Keyed alike) - PWD access Supply Install	ea ea	1 1		
637,00	<u>WIRING</u> 600/1000 grade PVC insulated single core copper conductors drawn into conduit Red/Black/Yellow-Green:				
638,00	.01 10 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
639,00	.02 6 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
640,00	.03 4 mm ² PVC Supply Install	m m	1 1		Rate Only Rate Only
641,00	.04 2.5 mm ² PVC Supply Install	m m	50 50		
642,00	.05 1.5 mm ² PVC Supply Install	m m	150 150		
643,00	.06 4 mm ² BCEW Supply Install	m m	1 1		Rate Only Rate Only
644,00	.07 2.5 mm ² BCEW Supply Install	m m	50 50		
645,00	<u>LIGHTING SYSTEM</u> Luminaires: Luminaires mounted on concrete or suspended ceilings, or on brickwork including lamps and fixing material. NOTE: See contract document for detailed technical specifications				
646,00	.01 Type B25 (20W SQUARE LED BULKHEAD) Supply Install	ea ea	1 1		
647,00	.02 Type B26 (80W INDUSTRIAL LED BULKHEAD) Supply Install	ea ea	4 4		
648,00	.03 Type F3 (1200mm DIFFUSED 40W LED SURFACE MOUNTED LIGHT) Supply Install	ea ea	1 1		
649,00	<u>LIGHT SWITCHES</u> Light switch: Rocker type light switch with coverplate installed into a flush box measured elsewhere. Clipsal S2000 or equivalent.				
650,00	.01 16A, single-lever, one-way Supply Install	ea ea	2 2		
	Carried forward				

BILL NO 7.1: GUARD HOUSE 3 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
651,00	Photo-electric switch:				
652,00	.01 National plug in type Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
653,00	.02 National 16A unit in dummy bulkhead Supply	ea	1		
	Install	ea	1		
654,00	<u>POWER OUTLETS</u>				
	Socket outlet: 3 pin switched socket outlets with cover plates installed in a flush steel box. Clipsal S2000 or equivalent.				
655,00	.01 16A, single SSO Supply	ea	1		
	Install	ea	1		
656,00	.02 16A, double SSO Supply	ea	2		
	Install	ea	2		
657,00	.03 16A, single SSO, two pin and USB Port Supply	ea	1		
	Install	ea	1		
658,00	.04 5A, un-switched socket outlet Supply	ea	1		
	Install	ea	1		
659,00	<u>CONDUITS AND ACCESSORIES</u>				
660,00	PVC conduit: PVC conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
661,00	.01 20mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
662,00	.02 25mm Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
658,00	Galvanized conduit: Galvanized conduit chased into brickwork, cast in concrete or fixed on trusses in ceiling void including cutting, bending, reaming, setting, joining, draw boxes and fixing material (average).				
659,00	.01 20mm Supply	ea	10		
	Install	ea	10		
660,00	.02 25mm Supply	ea	3		
	Install	ea	3		
661,00	Conduit Boxes: Round box for 20mm conduit, back or side entry for 1, 2, 3 or 4-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)				
662,00	.01 Round PVC round box Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
663,00	.02 Round Galvanized round box Supply	ea	5		
	Install	ea	5		
	Carried forward				

BILL NO 7.1: GUARD HOUSE 3 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT
	Brought forward				
664,00	Steel Boxes: Galvanised steel boxes with 20mm knockouts as specified chased into brickwork.				
665,00	.01 100mm x 50mm x 50mm Supply	ea	2		
	Install	ea	2		
666,00	.02 100mm x 100mm x 50mm Supply	ea	6		
	Install	ea	6		
667,00	.03 3 x (100mm x 100mm x 50mm) Gang Horizontal Galvanised Wall Box with sub-division. Supply	ea	1		Rate Only
	Install	ea	1		Rate Only
668,00	<u>POWERSKIRTING AND ACCESSORIES</u>				
669,00	Powerskirting: 165x55mm metal power skirting, 2 separate compartment mounted on the wall with duct cover including joint covers measured elsewhere.				
670,00	.01 Grey colour power skirting Supply	m	5		
	Install	m	5		
671,00	.02 End cap Supply	ea	2		
	Install	ea	2		
672,00	.03 Internal elbow Supply	ea	1		
	Install	ea	1		
673,00	.04 Cover joining clip Supply	ea	2		
	Install	ea	2		
674,00	Powerskirting outlets and plates:				
675,00	.01 16A SSO Supply	ea	3		
	Install	ea	3		
676,00	.02 16A dedicated SSO [Red/Blue/Black] Supply	ea	1		
	Install	ea	1		
673,00	.03 Universal twin cradle Supply	ea	2		
	Install	ea	2		
674,00	.04 Telephone Socket RJ11 Supply	ea	2		
	Install	ea	2		
675,00	.05 Data Socket RJ45 Supply	ea	1		
	Install	ea	1		
	Carried forward				

BILL NO 7.1: GUARD HOUSE 3 - ELECTRICAL INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	DESCRIPTION	UNIT	QUAN-TITY	RATE	AMOUNT
	Brought forward				
676,00	Access Control				
677,00	D10 industrial sliding gate motor, to drive maximum weight of 1000kg Coupled to a robust gearbox to provide an access automation system that is quick and powerful Intelligent speed control High duty cycle capability Smooth acceleration and deceleration Exceptionally easy system setup via LCD user interface Onboard CENTURION code-hopping multichannel receiver with selective add and delete Integrated ChronoGuard timer functionality Anti Theft Bracket 3 off each motor Nova V3 Remote with 3 Buttons - Black & Blue Supply Install	ea ea	1 1		
678,00	Earthing Earthing and bonding to SABS 0142 for each building	Sum	1		
679,00	Testing Testing of the complete electrical installation in terms of SABS 0142 and provision of Certificates of Compliance for each building.	Sum	1		
680,00	Bonding of water mains and cables Bond the proposed water main to the adjacent down conductor. All water pipes, hand basins, sinks, baths, gutters and rain water pipes shall be bonded. All external earth wires and cable armoring from the incoming and outgoing cables will be properly crimped into cable lugs and bolted to their respective earth bars.	item	1		
681,00	Technical inspections to earthing				
682,00	(a) Check earthing and bonding of outlet points, equipment, cable and wireways, fixed appliances, water and gas pipes, etc.				
683,00	(b) Check installation and termination of protective conductor and earth electrodes (c) Test for earth continuity. (c) Test for earth continuity.	sum	1		
684,00	SUNDRY ITEMS				
685,00	As installed drawings Allow for the marking up of prints for the production of "as installed" records by the Engineer.	sum	1		
TOTAL BILL NO. 7.1 CARRIED TO SUMMARY					

BILL NO 7.2: GUARD HOUSE 3 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	686,00	<p>LIGHTNING PROTECTION INSTALLATION</p> <p>The Contractor shall price and make allowance for the complete Lightning Protection Installation to include the required soil resistivity survey to be carried out on site, the issuing of the final design of the earthing system, the submitting of same approval, the supply, installation, testing, commissioning, issuing of a SABS approved earthing certificate and required guarantee of the system for 12 months</p> <p>The Contractor shall ensure that the general bonding of the buildings electrical installation is carried out to Clause 6.13 of SANS 1014-1:7 Bonding Lightning Protection Systems to Structures. Where applicable all steel roof sheeting to the structure shall suitably earthed to the special earth systems.</p> <p>Grade "A" type earth electrodes (earth spikes of at least 1.5m in length) shall be driven into the ground just off the centre line of each building gable walls of each individula block or where required.</p> <p>In each instance these earth spikes must be interconnected by means of approved earth spike clamps and 35mm² insulated copper earth conductor to a height of 500mm AGL, where it is joined by means of a Bi-metal lug to an 8mm round aluminium conductor which through a 25mm conduit exit 200mm below the roof covering where it is terminated and sealed off by means of silicon sealer.</p>				
	687,00	A complete risk assessment on structures in accordance with these IEC 62305 Standards inconjunction with to BSEN 62305.	Sum	1		
	688,00	Bonding of all equipment to be on the same electrical potential as specified as per SANS 1014-1:2-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:	Sum	1		
	689,00	Soft excavation for earth conductor not exceeding 1m deep	m ³	10		
		CONDUITS AND ACCESSORIES				
	690,00	20mm diameter PVC in the cavity wall as indicated on the drawing				
	691,00	.01 20mm Supply Install	m m	4 4		
	Carried forward					

BILL NO 7.2: GUARD HOUSE 3 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUAN- TITY	RATE	AMOUNT	
	Brought forward						
	692,00	Conduit Boxes: Round box conduit, back or side entry for 2-way chased into brickwork, cast into concrete or fixed in trusses including couplings bushescover plates and fixing materials (average rate)					
	693,00	20mm Supply Install	ea ea	2 2			
	694,00	Steel spacer, to clamp 20mm PVC conduit.					
	695,00	.01 20mm Supply Install	ea ea	16 16			
	696,00	Earth Electrode: SANS 1063 "A" Grade 16mm 16mm Ø earth electrode complete with heavy duty clamp, vertically driven at each down conductor.					
	697,00	.01 1200mm Supply Install	ea ea	2 2			
	698,00	.02 1500mm Supply Install	ea ea	1 1		rate only rate only	
	699,00	Earth test point on ground: Concrete earth test pit with inspection lid, including SANS 1063 approved 1200 mm long, 16mm Ø earth electrode complete with heavy duty clamp.					
	700,00	.01 280 x 280 x 130mm Supply Install	ea ea	1 1			
	Carried forward						

BILL NO 7.2: GUARD HOUSE 3 - LIGHTNING PROTECTION INSTALLATION

MHLONTLO DISASTER MANAGEMENT CENTRE

PAYMENT REFERS TO	ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
		Brought forward				
	701,00	<u>BONDING OF THE COMPLETE INSTALLATION</u> Bonding of all equipment to be on the same electrical potential as specified as per SANS 10142-1:2003. The bonding conducts must be installed and arranged that it cannot be tampered with. The following equipment must be bonded with an copper conductor:				
	702,00	Hot and cold water system - Bonded to each other and back to main earth bar in DB's.	sum	1		
	703,00	Water pumps-All metal parts must be bonded and back to main earth bar.	sum	1		
	704,00	8mm round aluminium conductor down from the roof to inspection boxes 500mm above concrete apron	m	10		
	705,00	50mm ² bare copper earth conductors from inspection box to the electrodes in the ground	m	4		
	706,00	Complete termination arrangement of the aluminium conductor to the roof sheetings as described in the document specifications.	No	2		
	707,00	Complete termination arrangement of the insulated copper conductor to the aluminium conductor	No	2		
	708,00	Complete termination arrangement of the bare copper conductor to the installed electrodes	No	2		
	709,00	Sundries	Sum	1		
	710,00	Additional items deemed necessary to be installed by the Lightning Protection Specialist Contractor to comply with SANS 1063.	sum	1		
	711,00	Allow for the testing of the completed system and the issue of a SABS prescribed certificate	Sum	1		
	TOTAL BILL NO. 7.2 CARRIED TO SUMMARY					

MHLONTLO DISASTER MANAGEMENT CENTRE: GUARD HOUSE 3 SUMMARY

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 7.1 : ELECTRICAL INSTALLATION R

TOTAL BILL NO 7.2 : LIGHTNING PROTECTION SYSTEM INSTALLATION R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM R**

MHLONTLO DISASTER MANAGEMENT CENTRE

TENDER NO.:

ELECTRICAL INSTALLATION

SUMMARY OF BILL OF QUANTITIES:

TOTAL BILL NO 1	: PRELIMINARY & GENERAL	R
TOTAL BILL NO 2	: CABLING AND PERIMETER	R
TOTAL BILL NO 3	: DISASTER MANAGEMENT BUILDING	R
TOTAL BILL NO 4	: MULTI PURPOSE BUILDING	R
TOTAL BILL NO 5	: GUARD HOUSE 1	R
TOTAL BILL NO 6	: GUARD HOUSE 2	R
TOTAL BILL NO 7	: GUARD HOUSE 3	R

**TOTAL OF BILL OF QUANTITIES: ELECTRICAL WORK CARRIED TO CALCULATION
OF TENDER SUM** R

MHLONTLO DISASTER MANAGEMENT CENTRE

TENDER NO.:

ELECTRICAL INSTALLATION

CALCULATION OF TENDER SUM

TOTAL OF BILL OF QUANTITIESR

TOTAL OF BILL OF QUANTITIES (Ex VAT)..... R

VALUE-ADDED TAX (VAT)

The Tenderer shall add 15% of the Total of Bill of Quantities above

for Value-Added Tax R

TENDER SUM CARRIED TO THE TENDER FORMR

SIGNED ON BEHALF OF TENDERER :

BENCHMARK DATA
 SYSTEM: WGS 84 Lc29 DS3128
 Survey based on Trigonometrical Beacon
 BM3 Y+12314.240 X+3449258.516 Z 993.944
 BM4 Y+12448.912 X+3449249.632 Z 991.869
 Benchmarks are 12mm iron pegs set and labelled in concrete

SITE AREA = 1.65 Hectares
FENCED AREA = 1.65 Hectares

SITE CO-ORDINATES

CODE	Y	X	Z
A	-43 497.32	3 474 551.22	
B	-43 656.43	3 474 600.56	
C	-43 816.44	3 474 665.98	
D	-43 912.44	3 474 732.70	

AREA = 1.65 Hectares

NOTE:
 EAST AND WEST ORIENTATION:
 Lighting / shading details for all window openings to follow.

TABLE 2: SCOPE OF WORKS

2A: DEMOLITION WORKS

NO.	BUILDING USAGE	AREA	QUANTITIES	TOTAL
-	-	-	-	-

2B: RENOVATION / REFURBISHMENT WORKS

NO.	BUILDING USAGE	AREA	SIZE
-	-	-	-

NO.	BUILDING USAGE	AREA	QUANTITIES	TOTAL
-	-	-	-	-

2C: NEW WORKS

NO.	BUILDING USAGE	UFFL	AREA
1	DISASTER MANAGEMENT		942m ²
2	SECURITY		14m ²
3	SECURITY		14m ²
4	Fencing (length) - 1.8M CLEAR VIEW Fence		

Rev no.	Description	Date
A	Main Building (Disaster Management Centre 1) position changed.	12.06.2020
B	Parking area reduced.	
C	Truck entrance road reduced.	
B	Multi Purposes Hall position revised.	22.06.2020
C	Multi Purposes Hall size revised.	02.07.2020

Note

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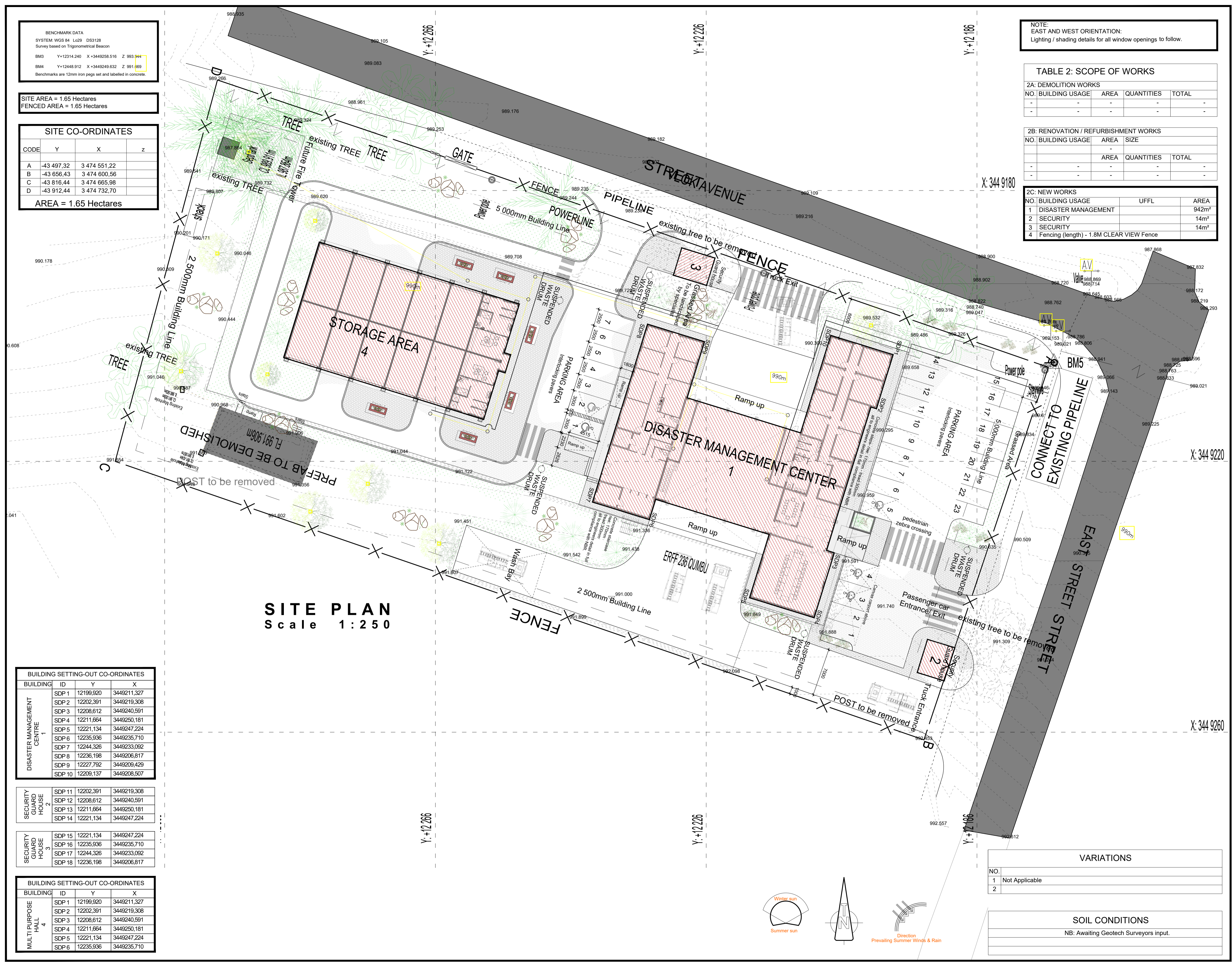
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Mhlotlto Disaster Management Centre

FOR TENDER

Revision no. **C** designed **T. Maseko**
 scale 1:250 drawn **A. Yantolo**
 date Monday, 02 March 2020 checked **T. Maseko**
 type number
 drawing number **MDM/100**



SITE PLAN
 Scale 1:250

BUILDING SETTING-OUT CO-ORDINATES

BUILDING	ID	Y	X
DISASTER MANAGEMENT CENTRE 1	SDP 1	12199,920	3449211,327
	SDP 2	12202,391	3449219,308
	SDP 3	12208,612	3449240,591
	SDP 4	12211,664	3449250,181
	SDP 5	12221,134	3449247,224
	SDP 6	12235,936	3449235,710
	SDP 7	12244,326	3449233,092
	SDP 8	12236,198	3449206,817
	SDP 9	12227,792	3449209,429
	SDP 10	12209,137	3449208,507

BUILDING SETTING-OUT CO-ORDINATES

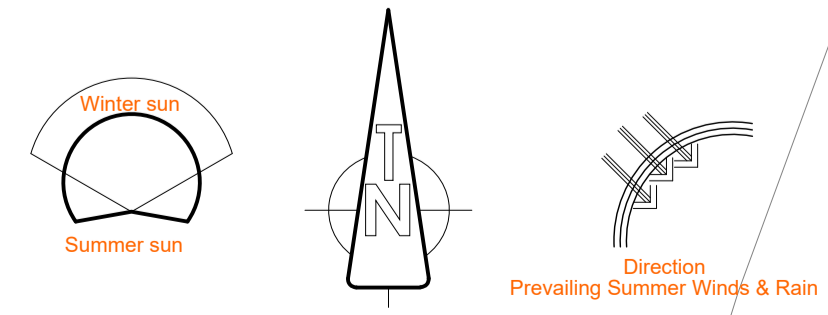
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SECURITY HOUSE 2	SDP 11	12202,391	3449219,308
	SDP 12	12208,612	3449240,591
	SDP 13	12211,664	3449250,181
	SDP 14	12221,134	3449247,224

BUILDING SETTING-OUT CO-ORDINATES

BUILDING	ID	Y	X
SECURITY HOUSE 3	SDP 15	12221,134	3449247,224
	SDP 16	12235,936	3449235,710
	SDP 17	12244,326	3449233,092
	SDP 18	12236,198	3449206,817

BUILDING SETTING-OUT CO-ORDINATES

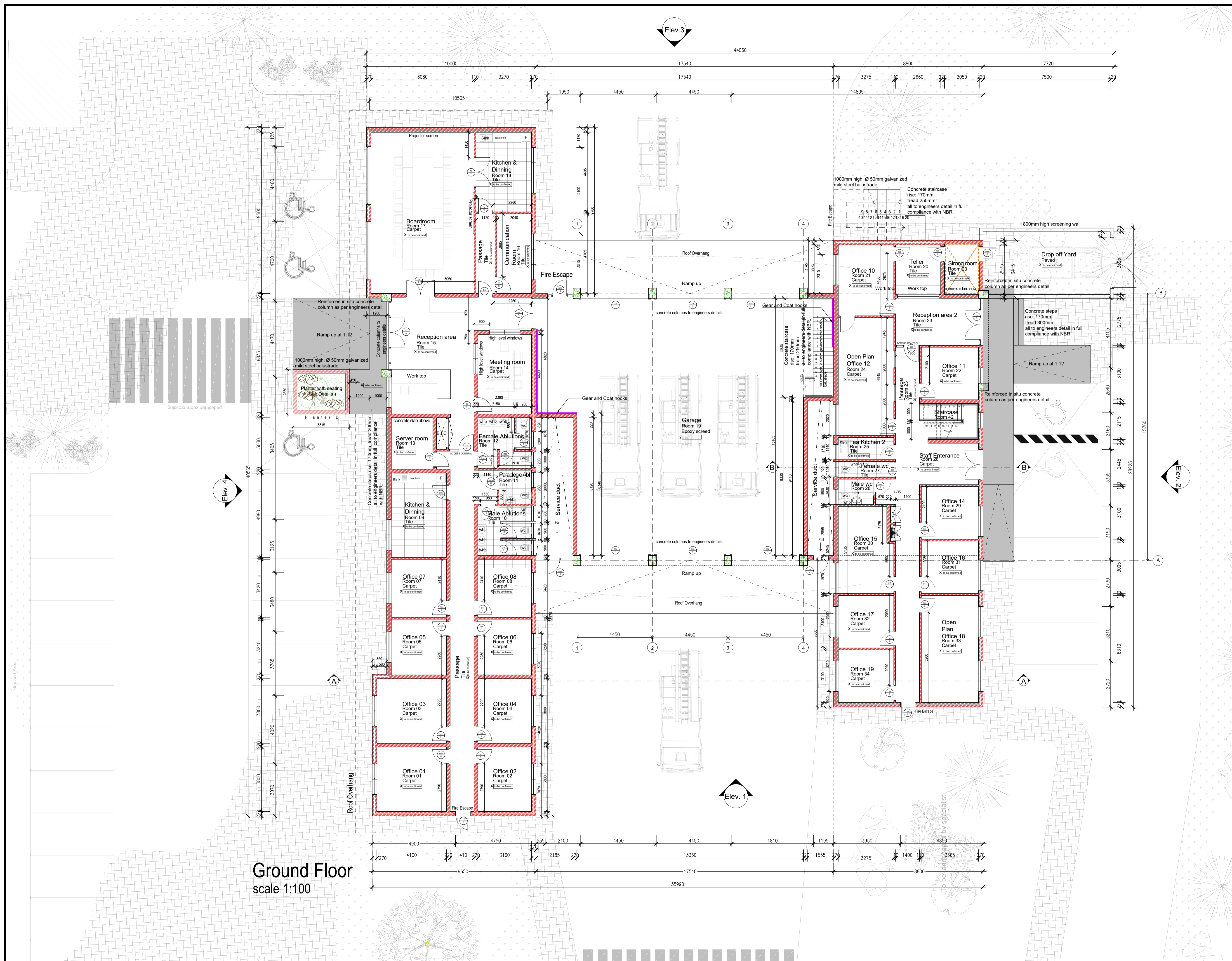
BUILDING	ID	Y	X
MULTI PURPOSE HALL 4	SDP 1	12199,920	3449211,327
	SDP 2	12202,391	3449219,308
	SDP 3	12208,612	3449240,591
	SDP 4	12211,664	3449250,181
	SDP 5	12221,134	3449247,224
	SDP 6	12235,936	3449235,710



VARIATIONS

NO.	Description
1	Not Applicable
2	

SOIL CONDITIONS
 NB: Awaiting Geotech Surveyors input.



Ground Floor
scale 1:100

Rev no.	Description	Date
A	Internal spaces Reconfigured 1. Server room relocated. 2. Tea Kitchen moved. 3. Strong room 1 Reduced and moved. 4. Strong room 2 relocated. 5. Teller area reconfigured. 6. New Staircase introduced. 7. New offices added.	27.07.2020
B	Internal spaces Reconfigured 1. Board room subdivided. 2. Add. of Kitchen and Dining 3. Add. of Communication Room 4. Reconfiguration of offices to open office.	18.08.2020

Note

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 drawing title
Ground Floor Plan

Revision no.	B	designed	T. Maseko
scale	1:100	drawn	T. Maseko
date	Monday, 02 March 2020	checked	T. Maseko
type number			
drawing number			

MDM/101

Rev no.	Description	Date
A	Staff Common area reduced	27.07.2020
B	Internal Spaces reconfigured	18.08.2020
C	Bed rooms reconfigured to Rest rooms	20.08.2020

Note

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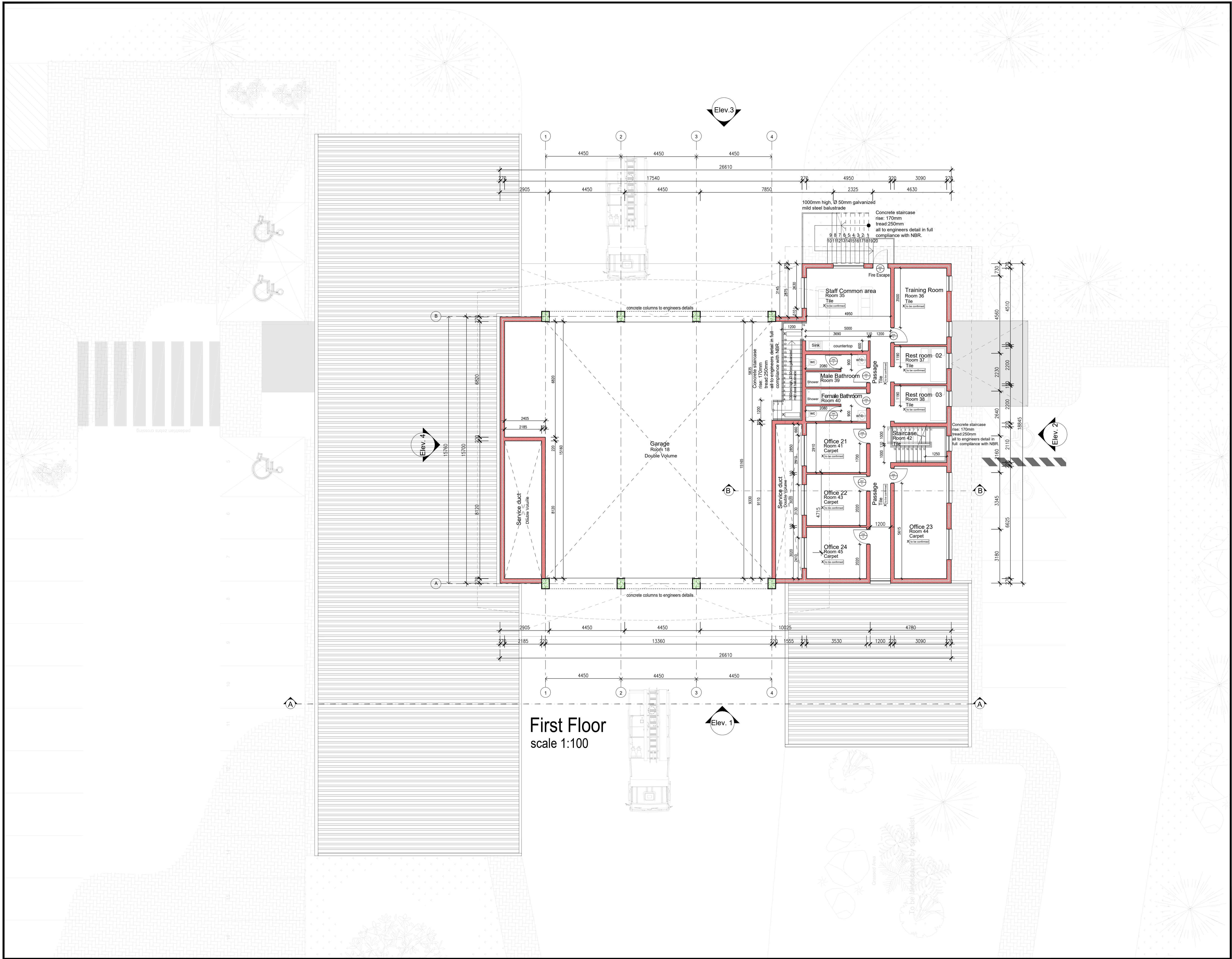
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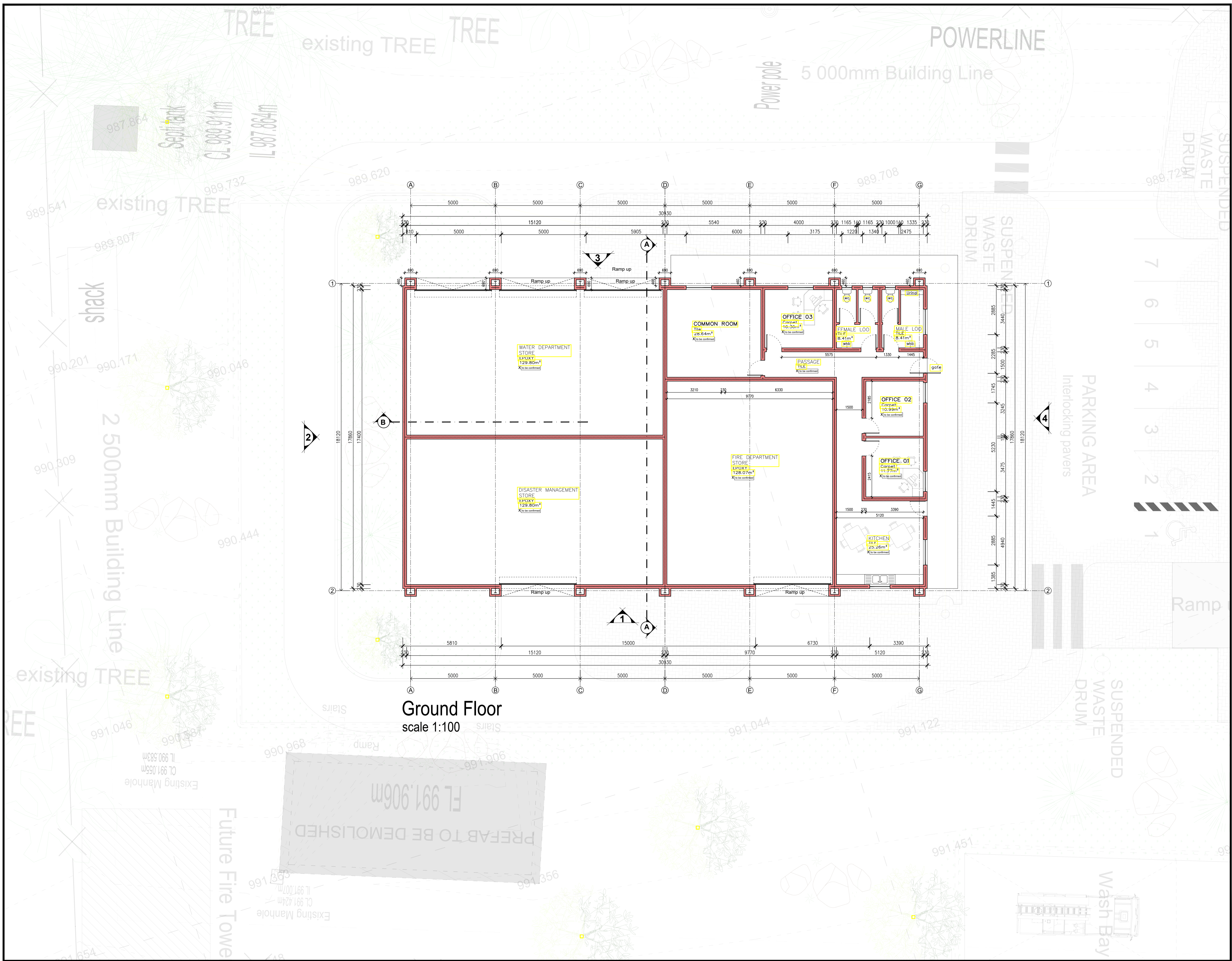
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First Floor Plan

Revision no.	C	designed	T. Maseko
scale	1:100	drawn	T. Maseko
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type number			
drawing number			



First Floor
 scale 1:100



Rev. No.	Comment	Date	Modified by
A	Building size reduced.	02.07.2020	
B	Building size reduced.	22.07.2020	
C	Building changed to store rooms	05.08.2020	
D	Building reconfigured, introducing offices and kitchen	18.08.2020	

Note

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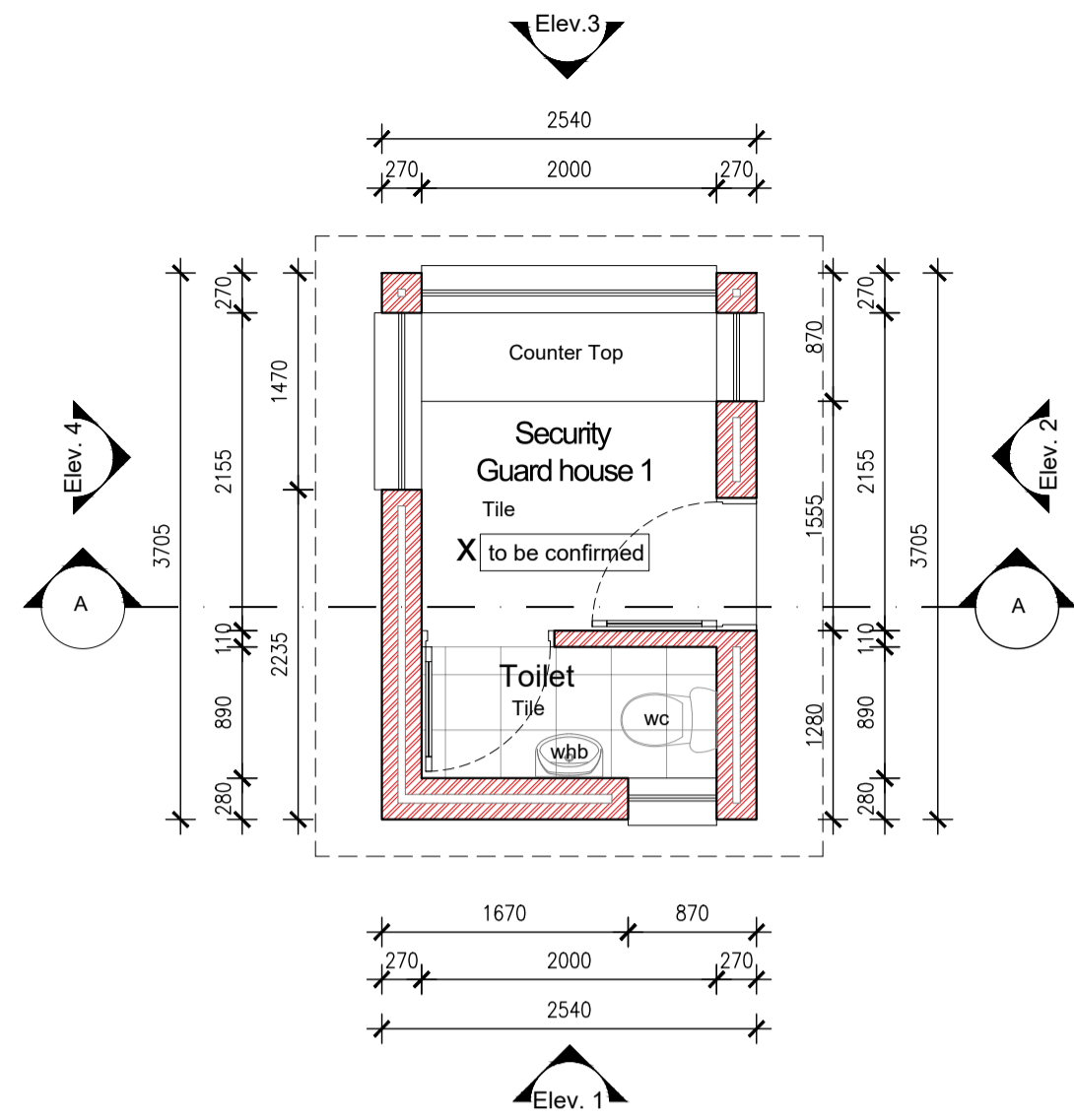
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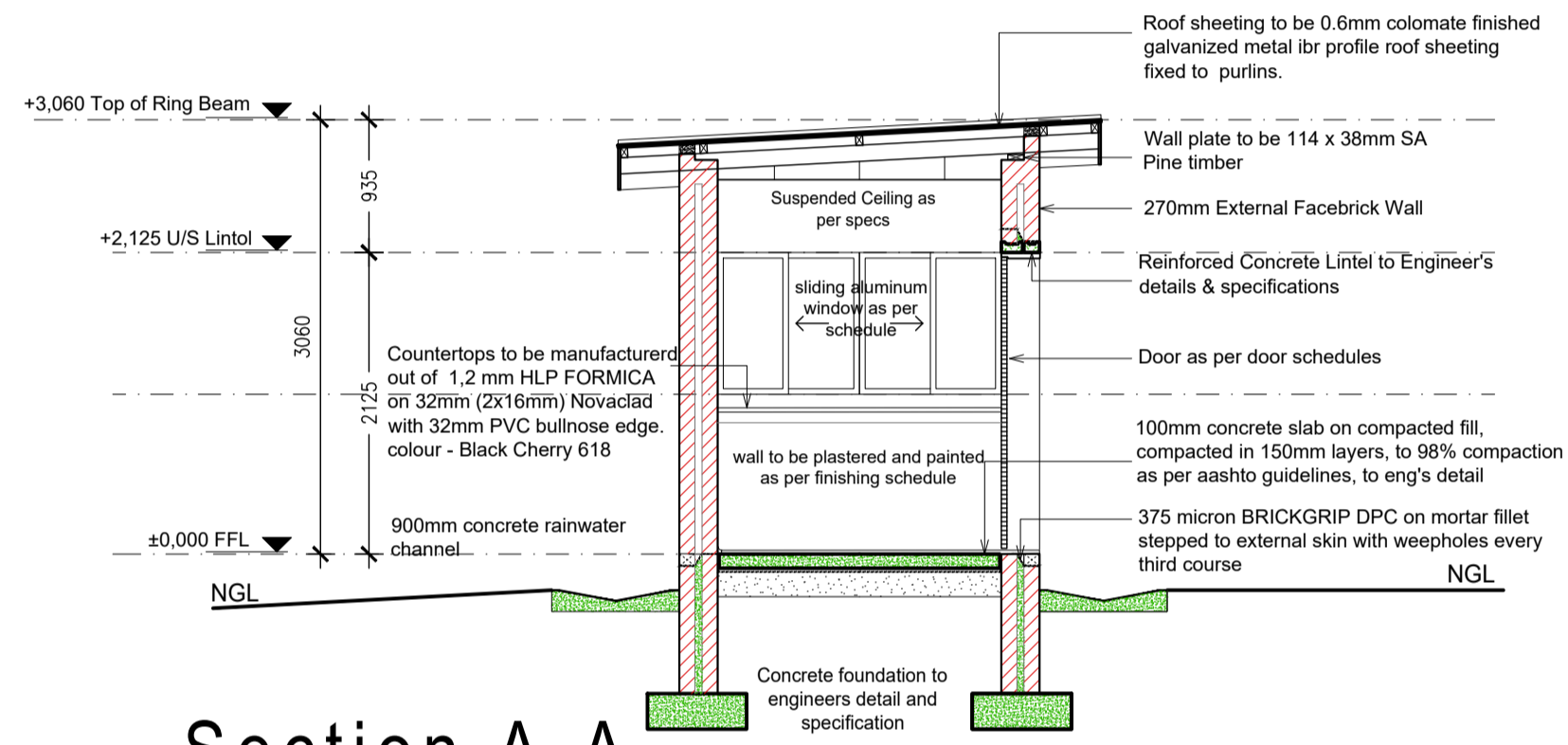
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date	Monday, 18 August 2020	checked	T. Maseko
type number			
drawing number			

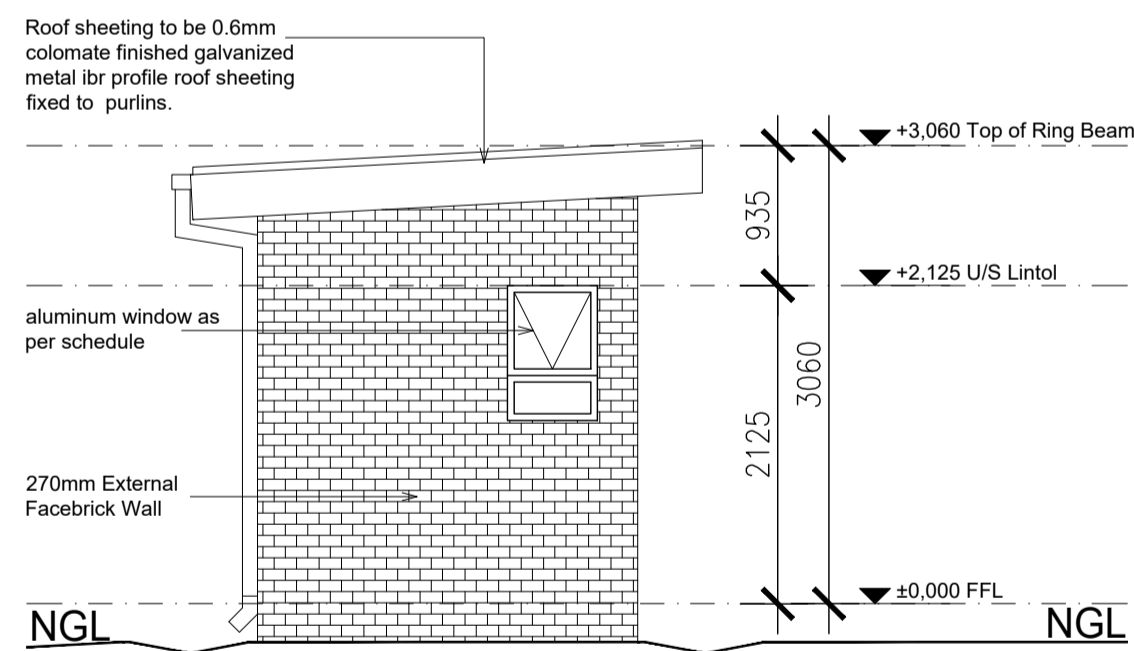
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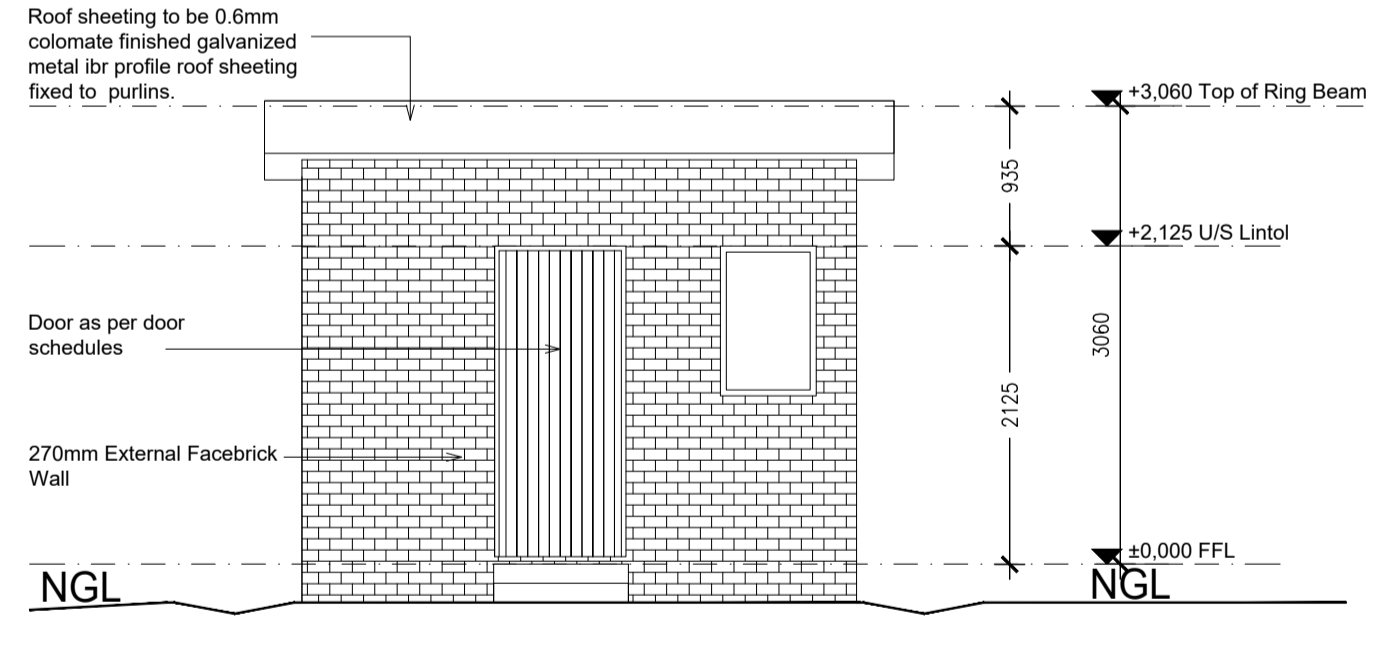
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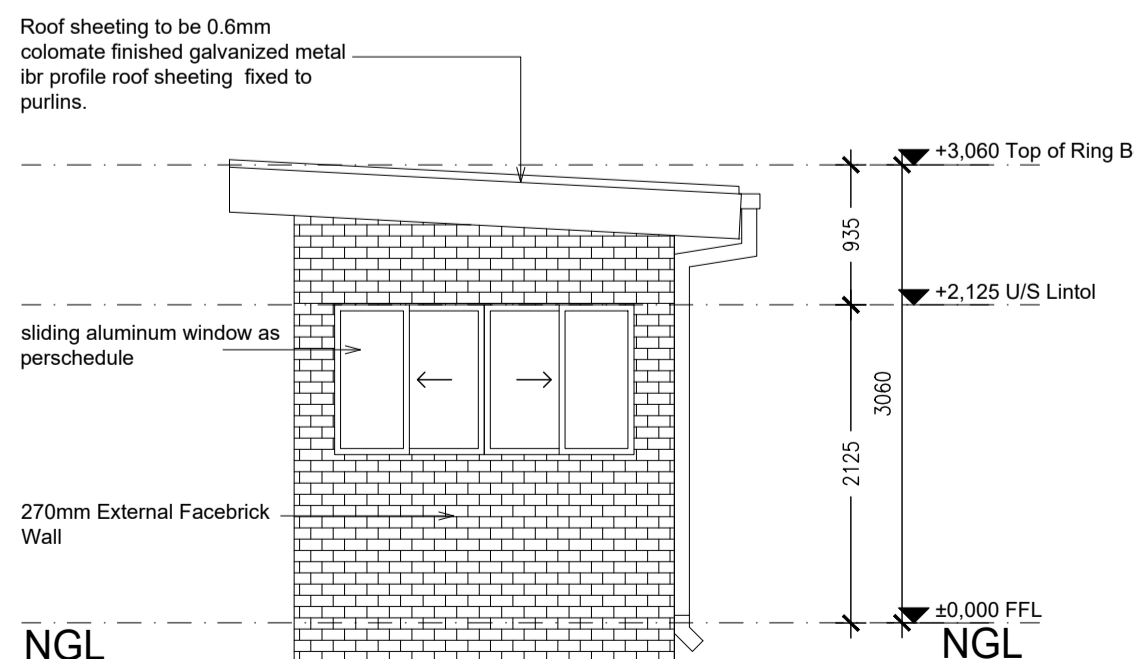
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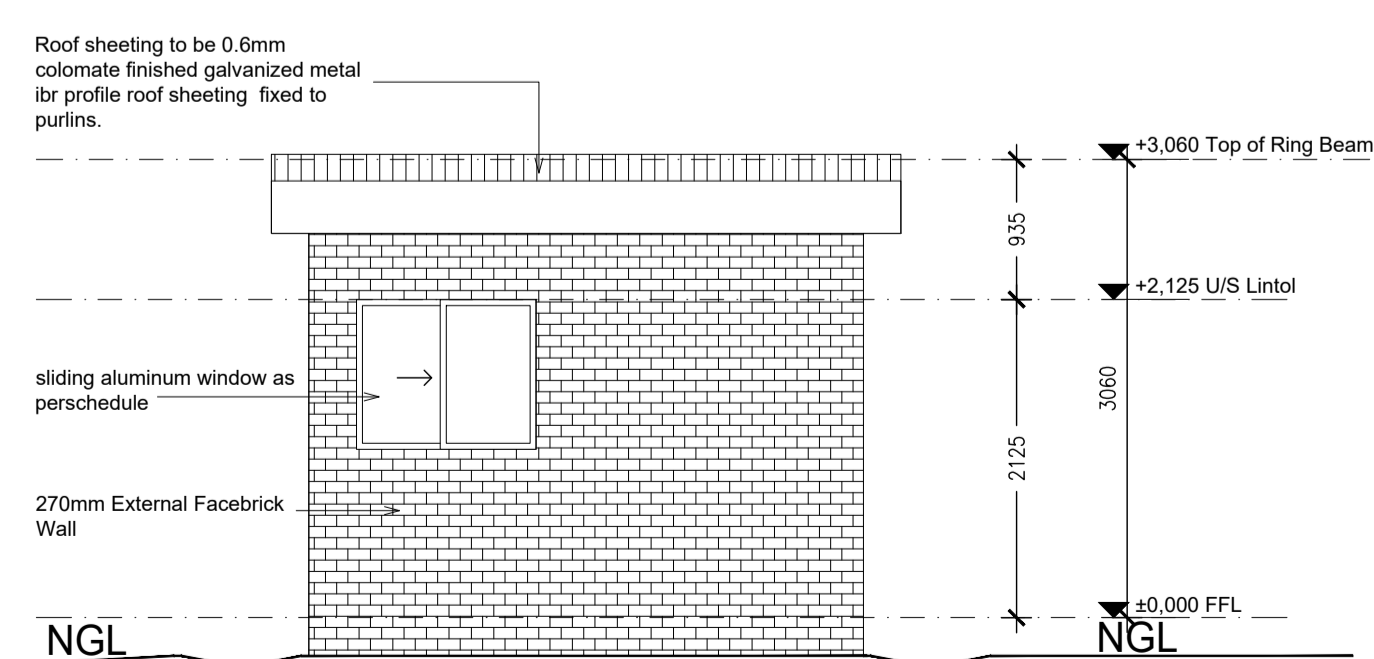
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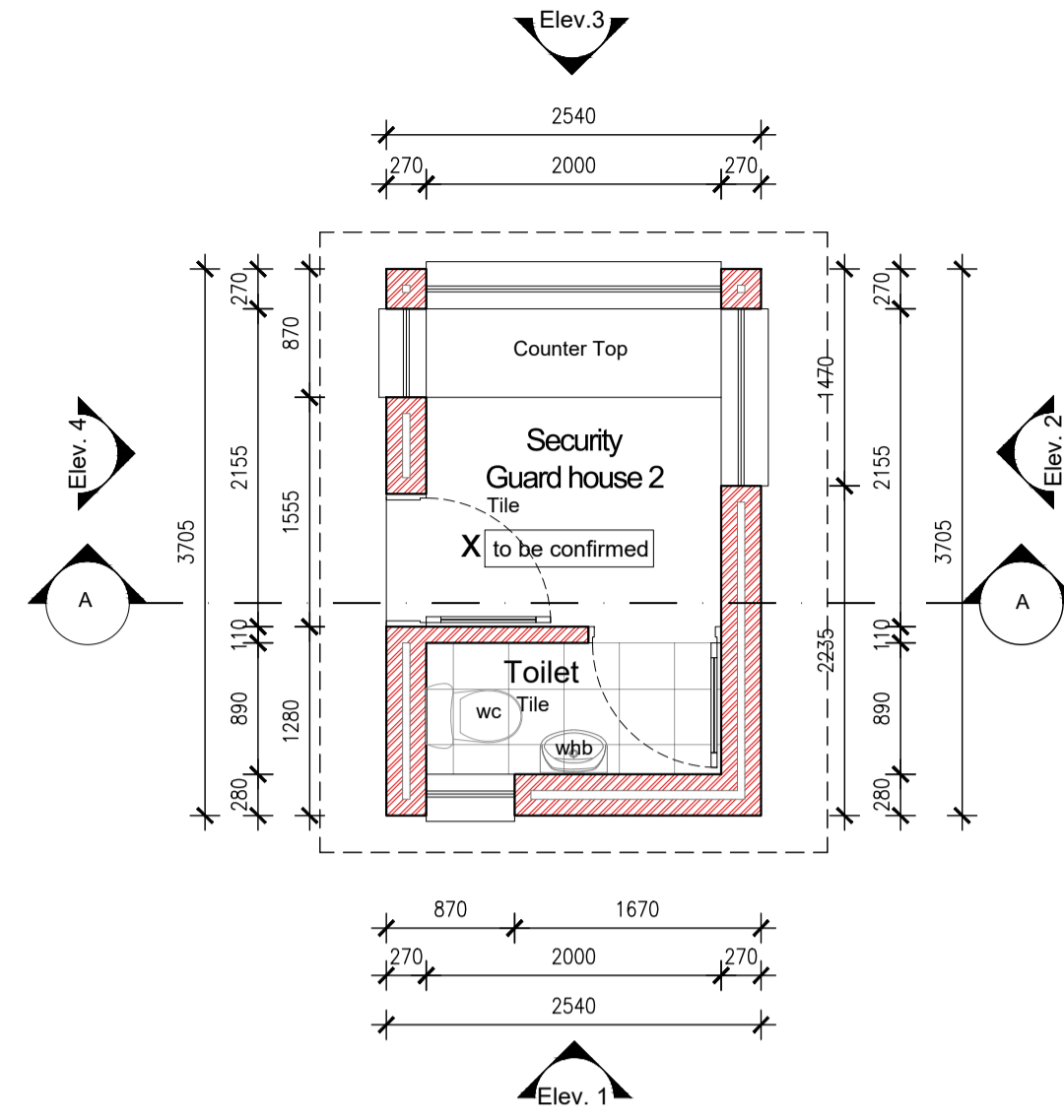
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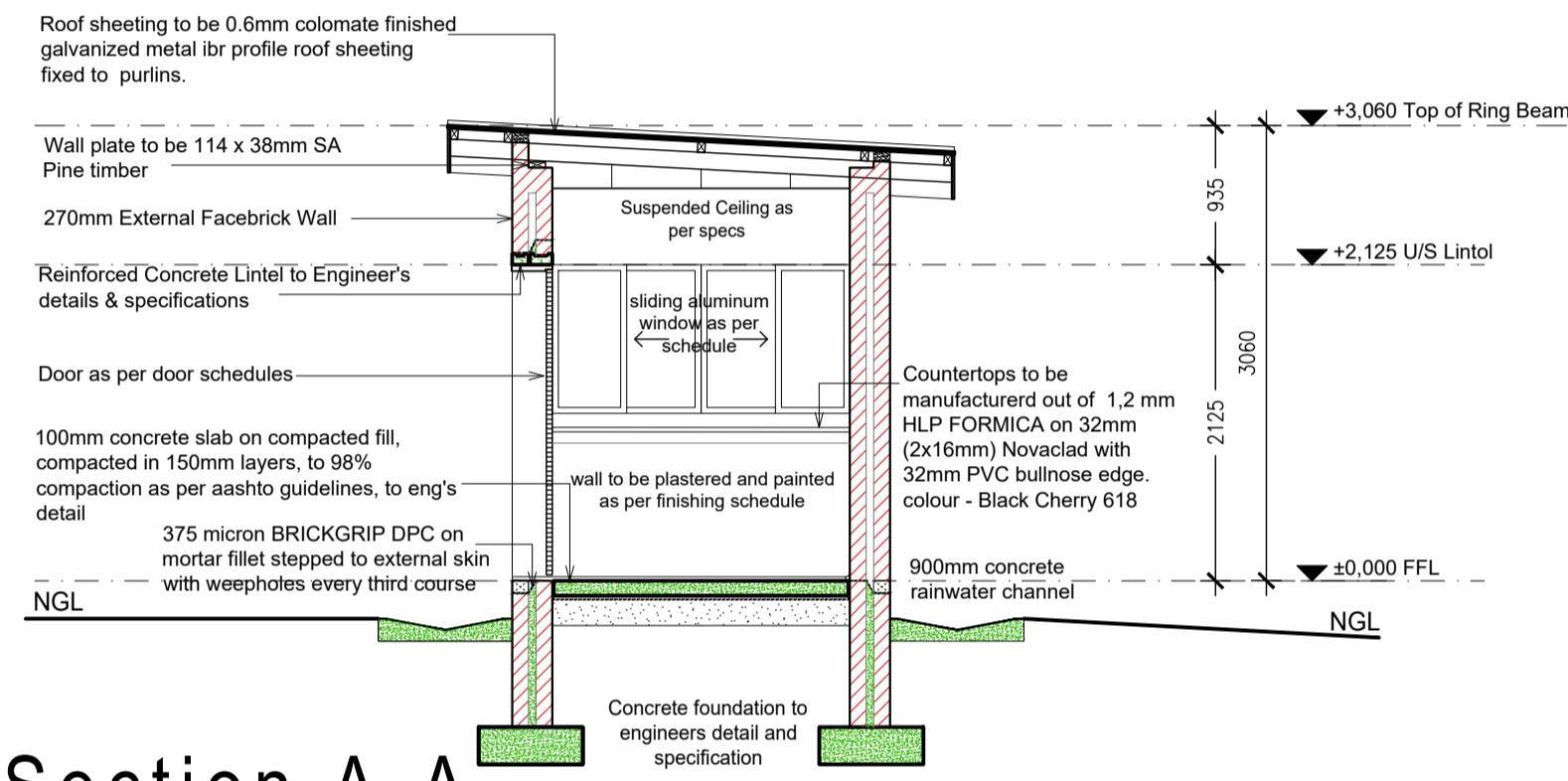
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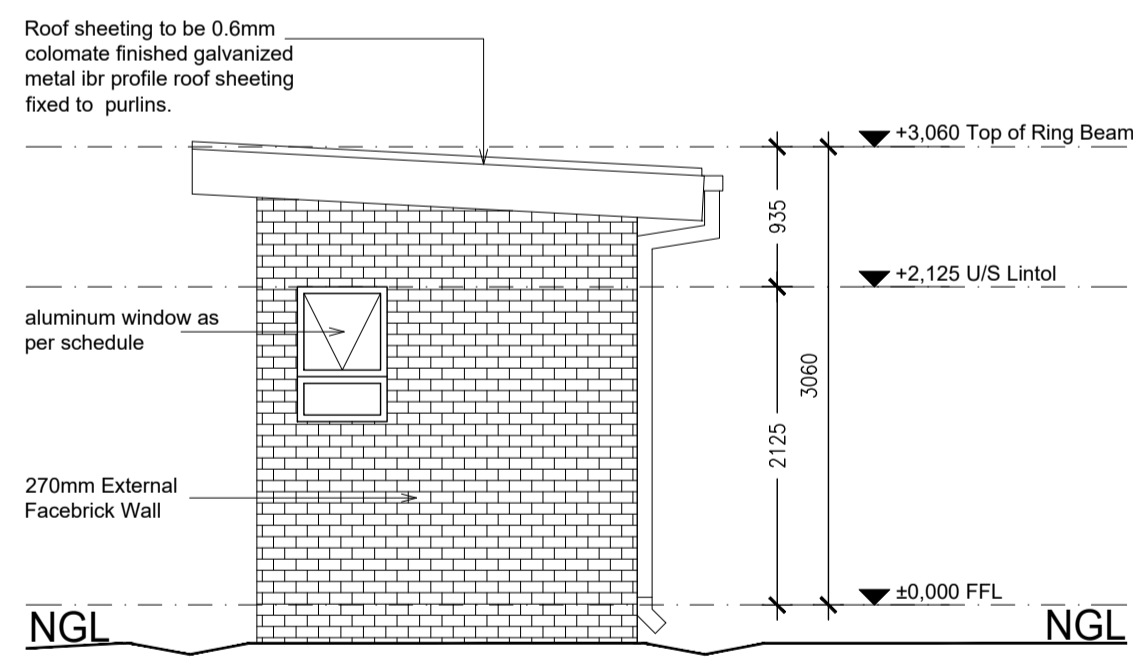
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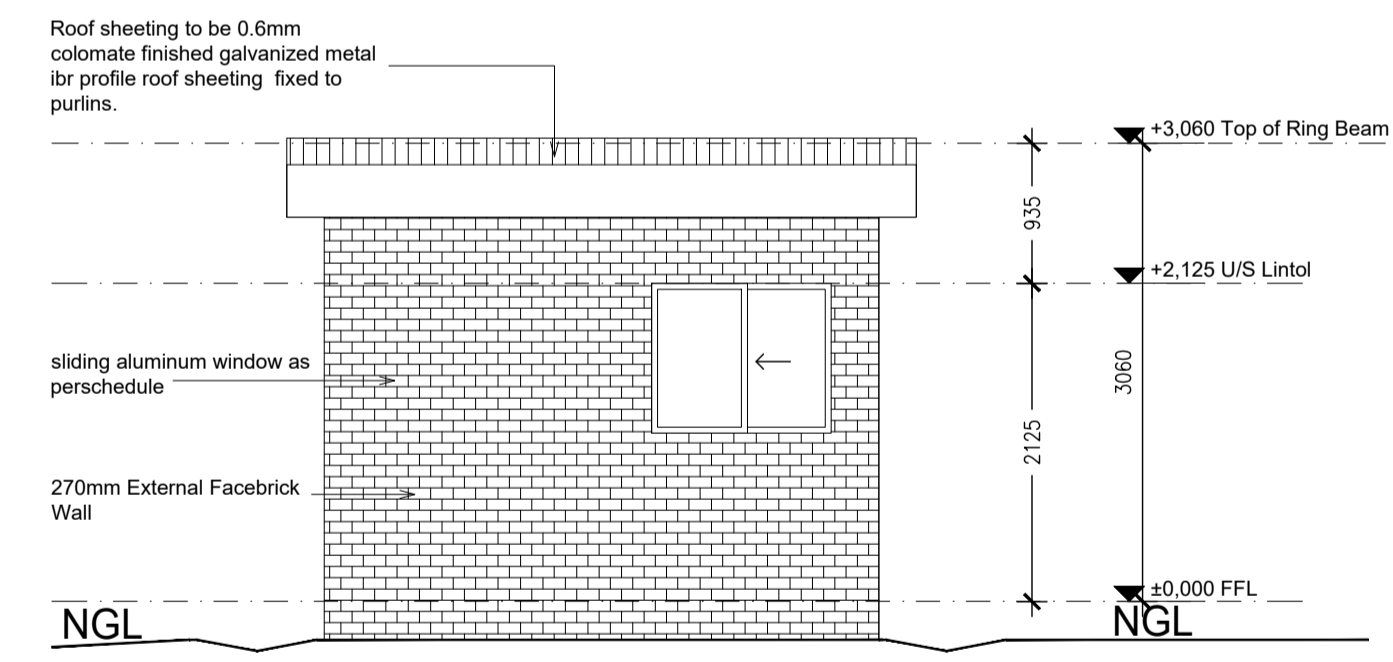
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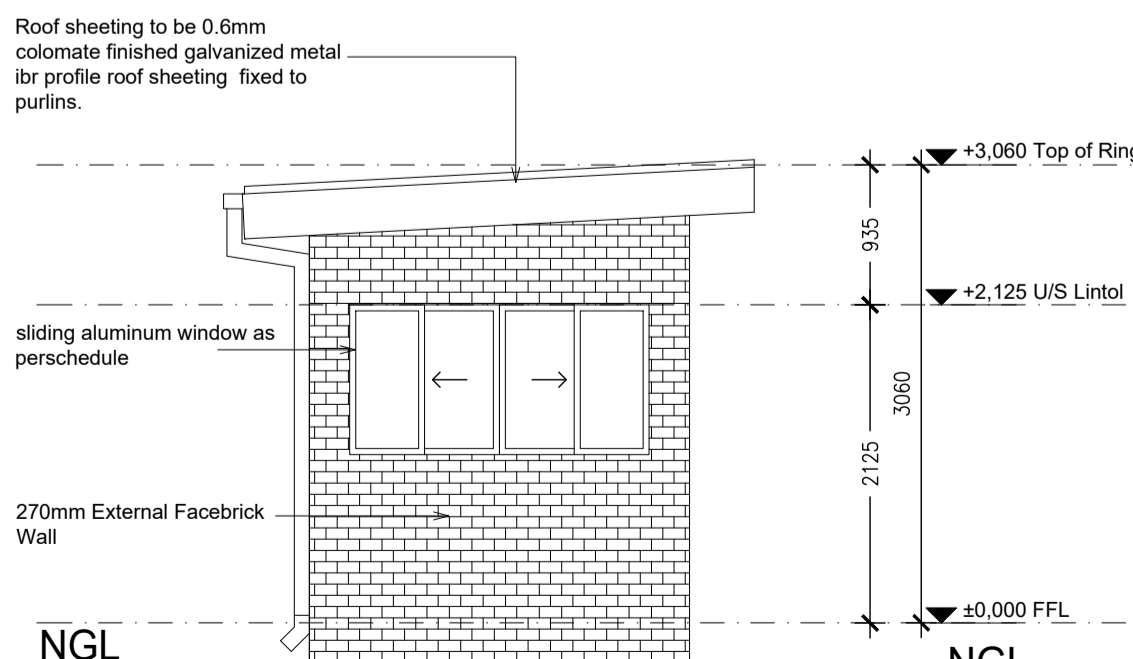
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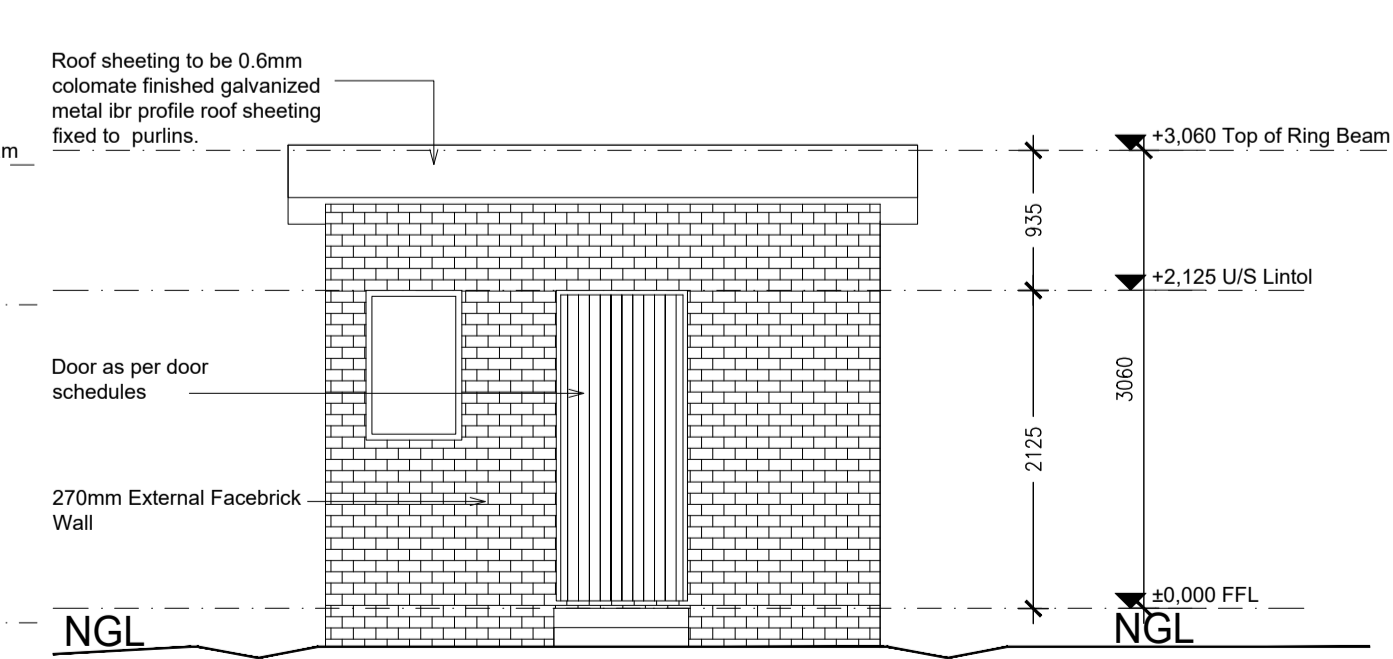
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ELEVATION - 2
Scale 1:50



ELEVATION - 3
Scale 1:50



ELEVATION - 4
Scale 1:50

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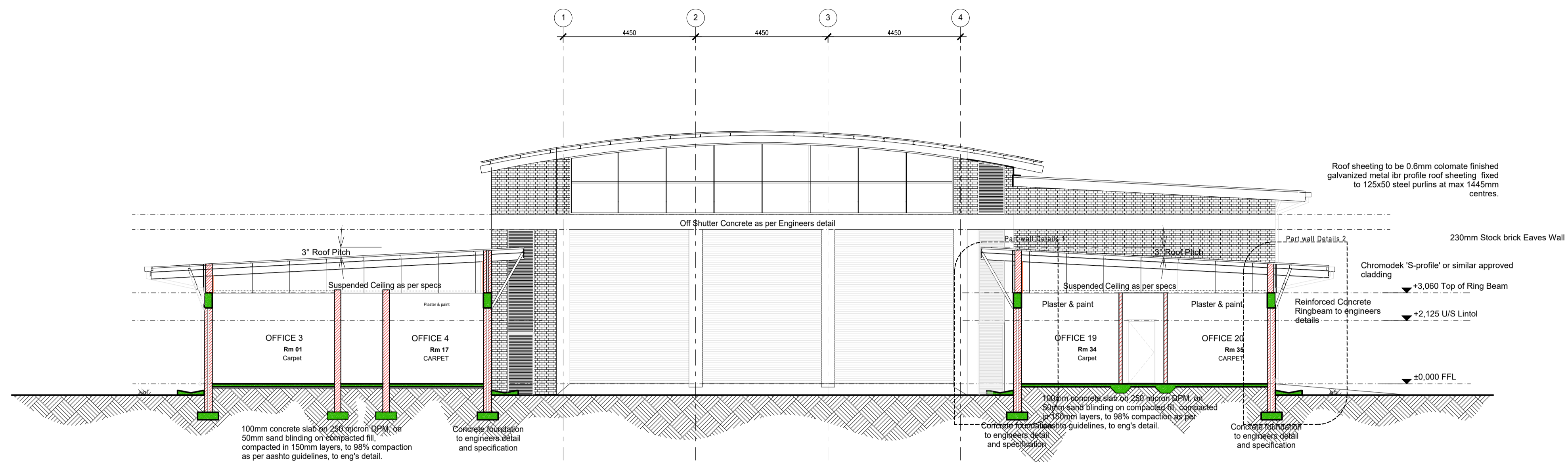
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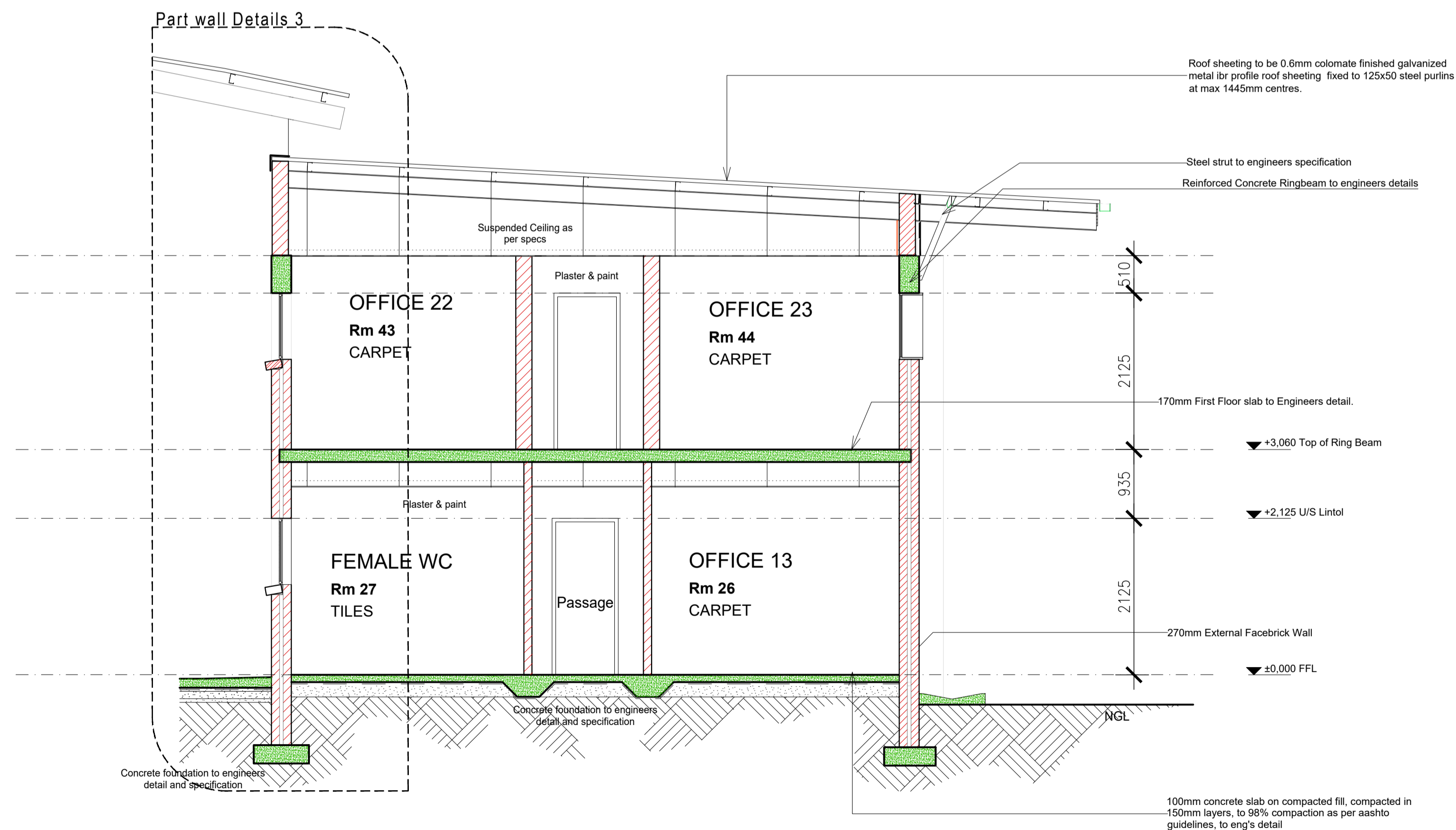
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Ground Floor Plan

Revision no.	designed
	T. Maseko
scale	drawn
1:100	T. Maseko
date	checked
Monday, 02 March 2020	T. Maseko
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drawing number	

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Section A-A
Scale 1 : 100



Section B-B
Scale 1 : 50

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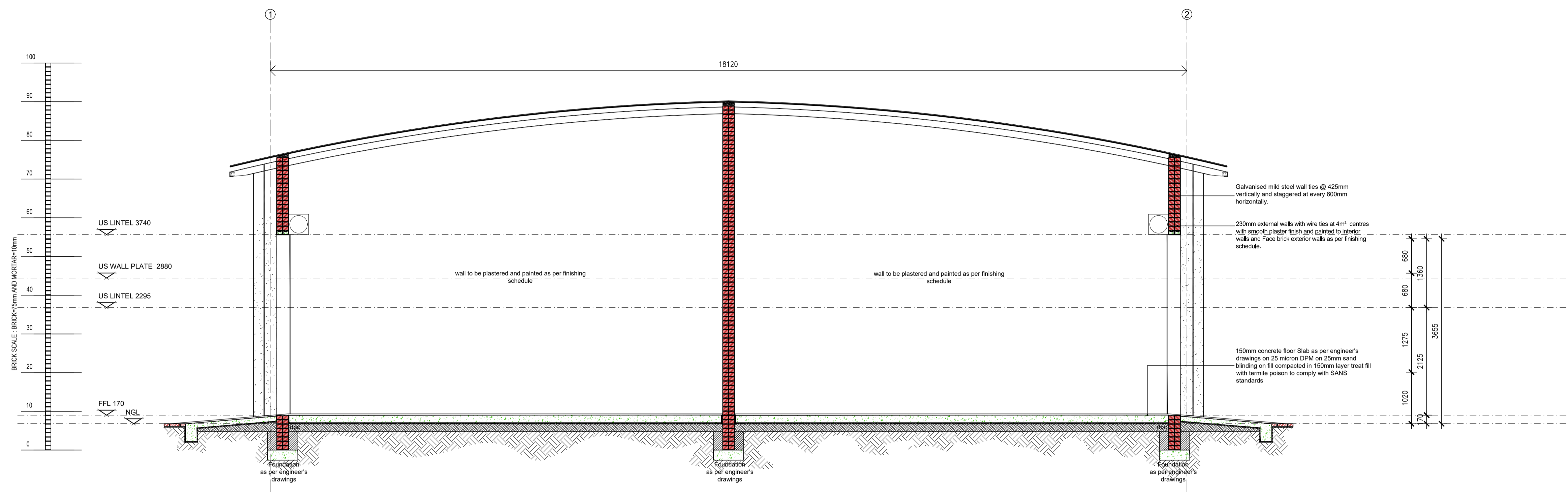
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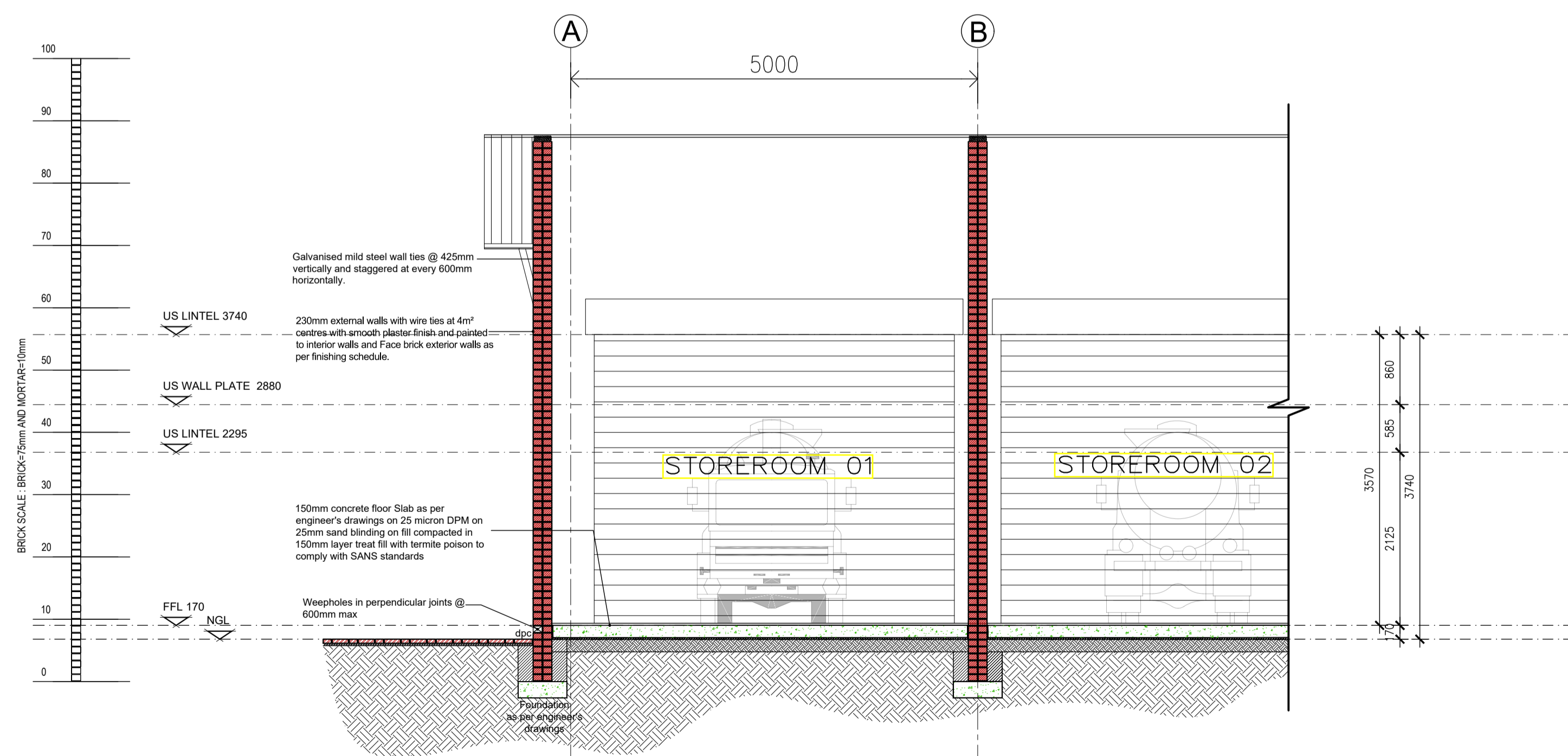
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A	Building size reduced.	02.07.2020	



SECTION A-A
scale 1:50



SECTION B

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drawing number	MDM/ 201

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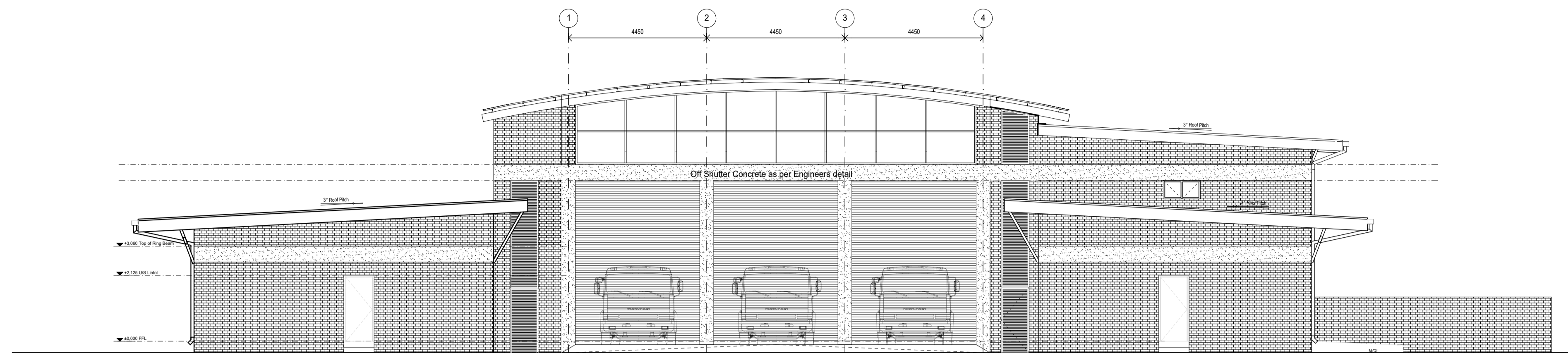
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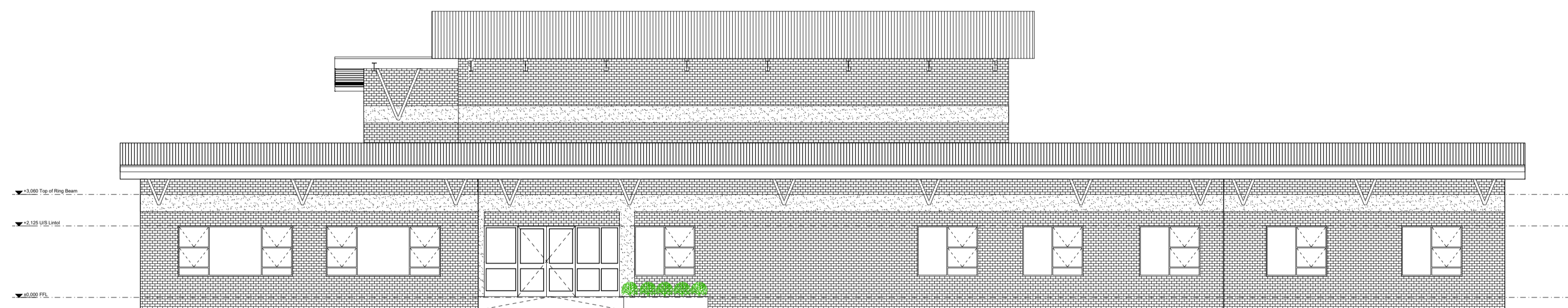
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date	Monday, 02 March 2020	checked	T. Maseko
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drawing number		MDM/ 202	

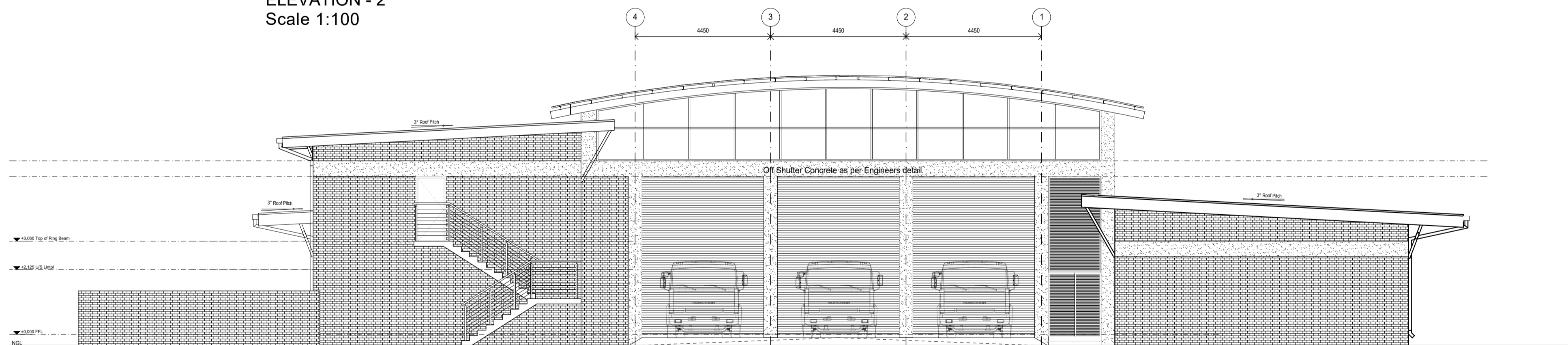
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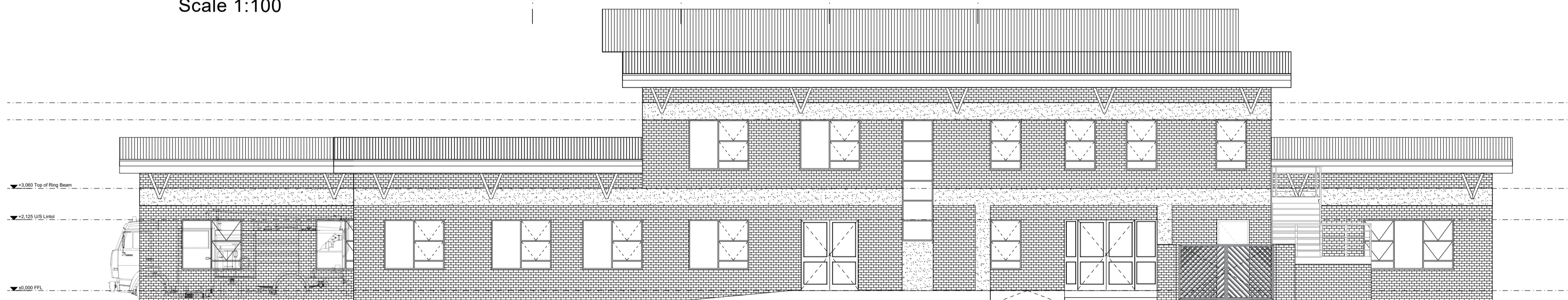
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ELEVATION - 2
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ELEVATION - 3
Scale 1:100



ELEVATION - 4
Scale 1:100

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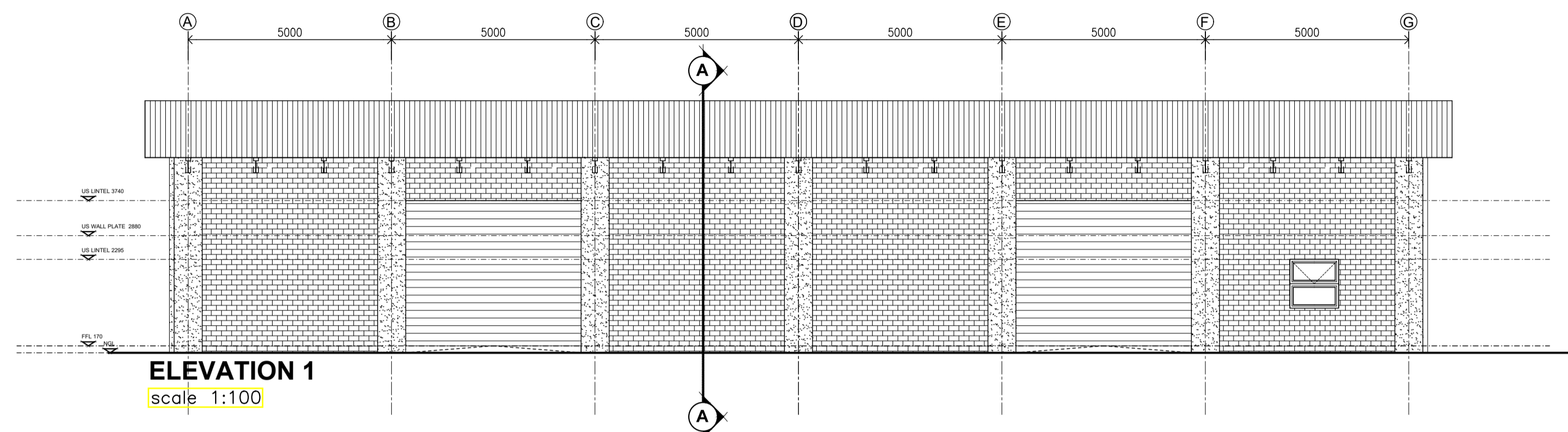
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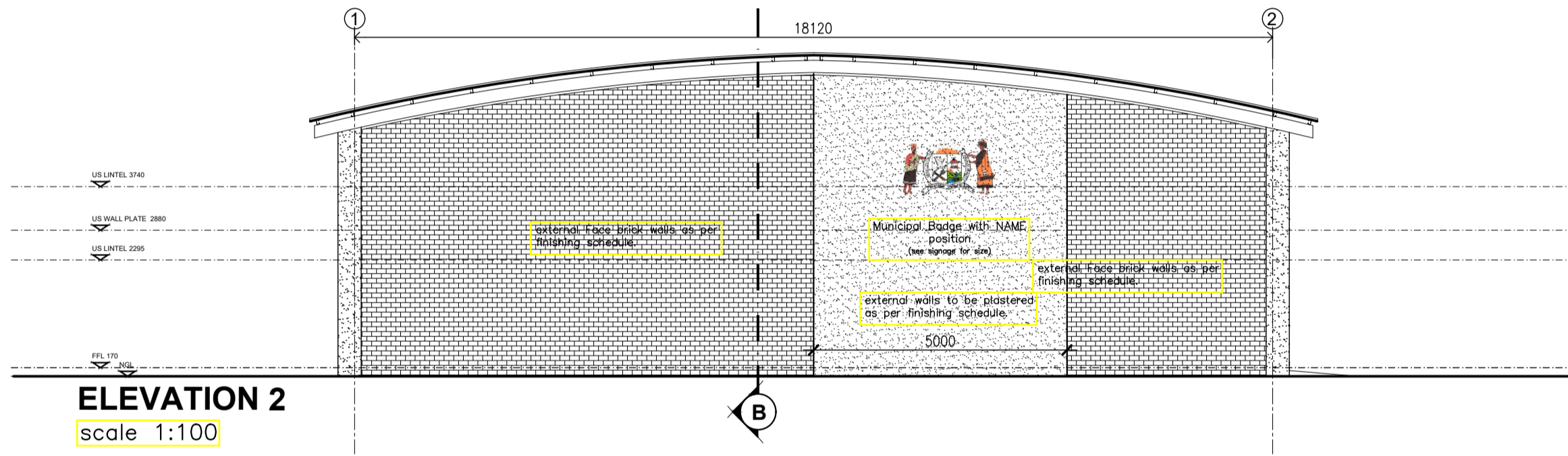
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date	checked	T. Maseko
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type number		
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MDM/ 300

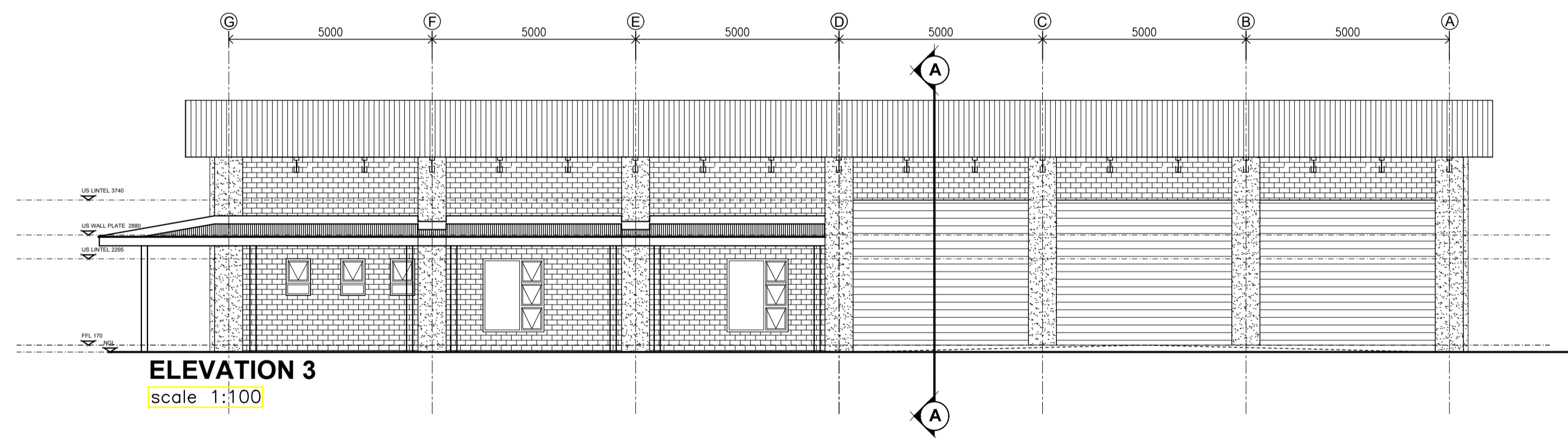
Rev. No.	Comment	Date	Modified by
A	Building size reduced.	02.07.2020	



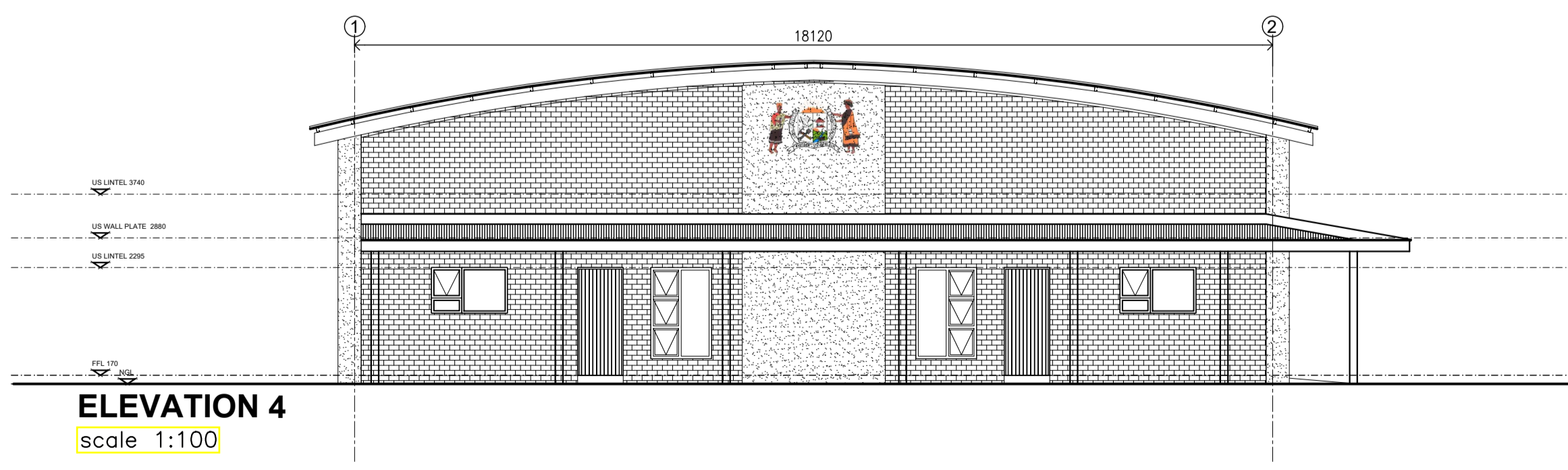
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ELEVATION 2
scale 1:100



ELEVATION 3
scale 1:100



ELEVATION 4
scale 1:100

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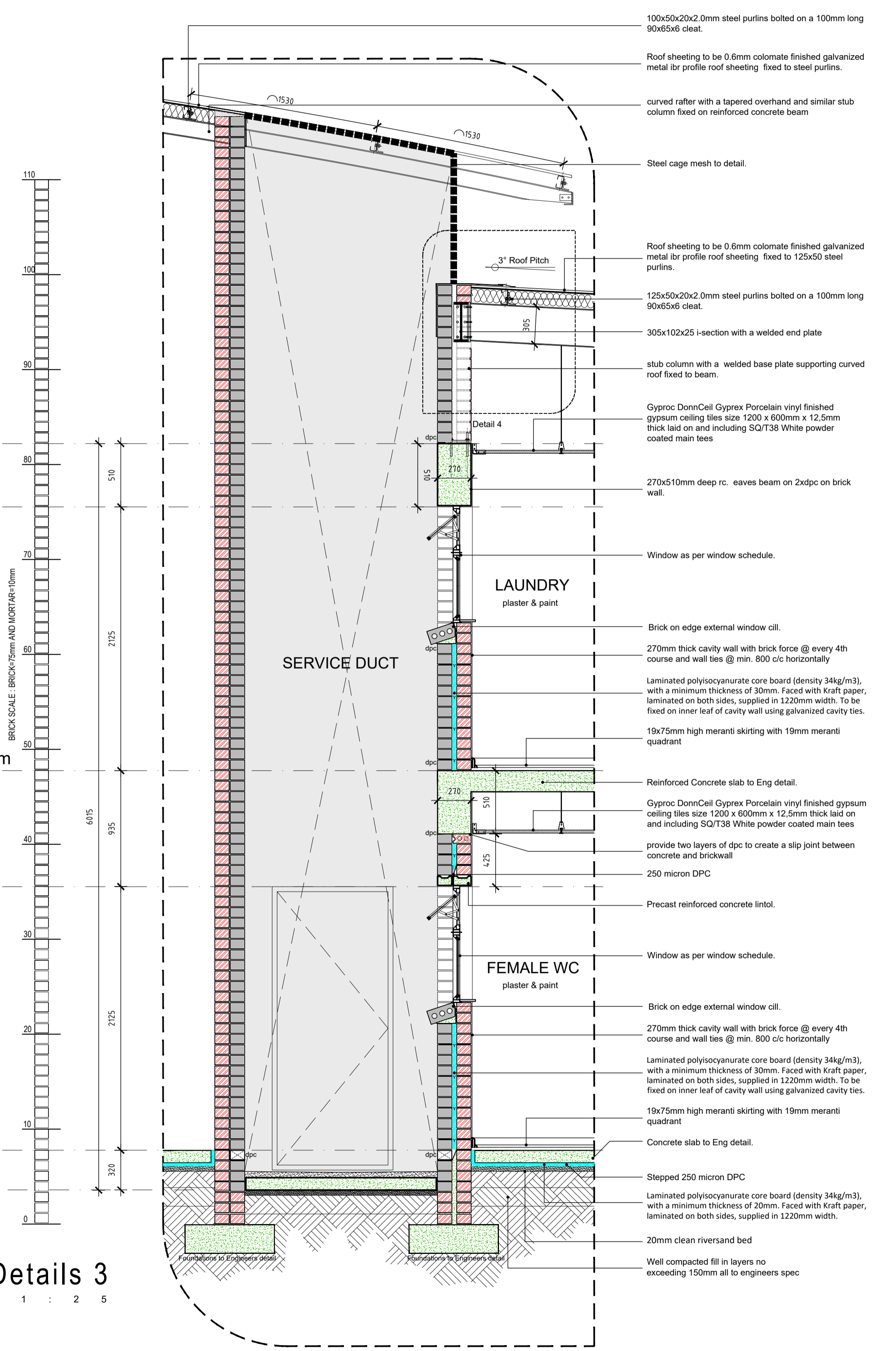
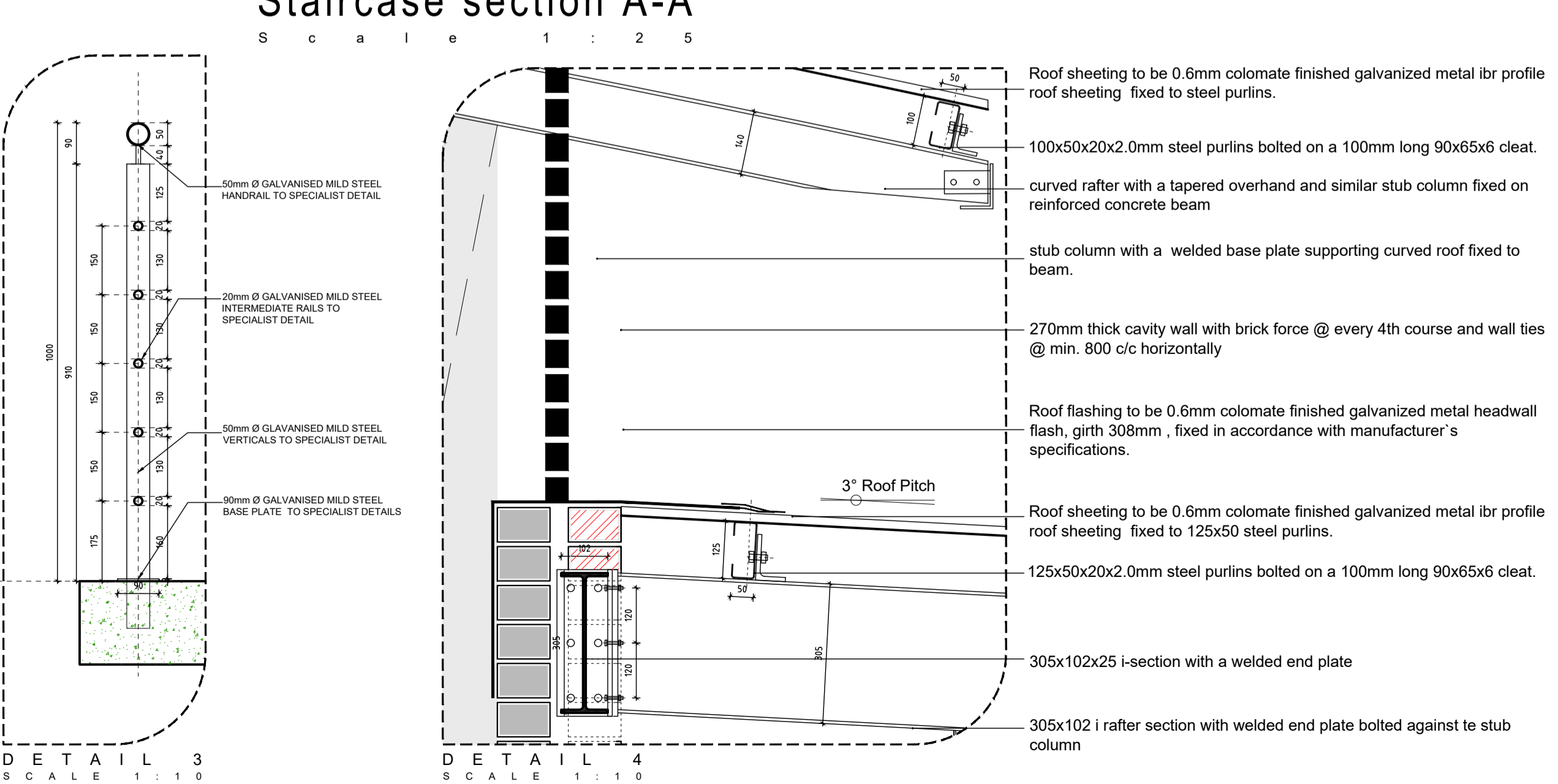
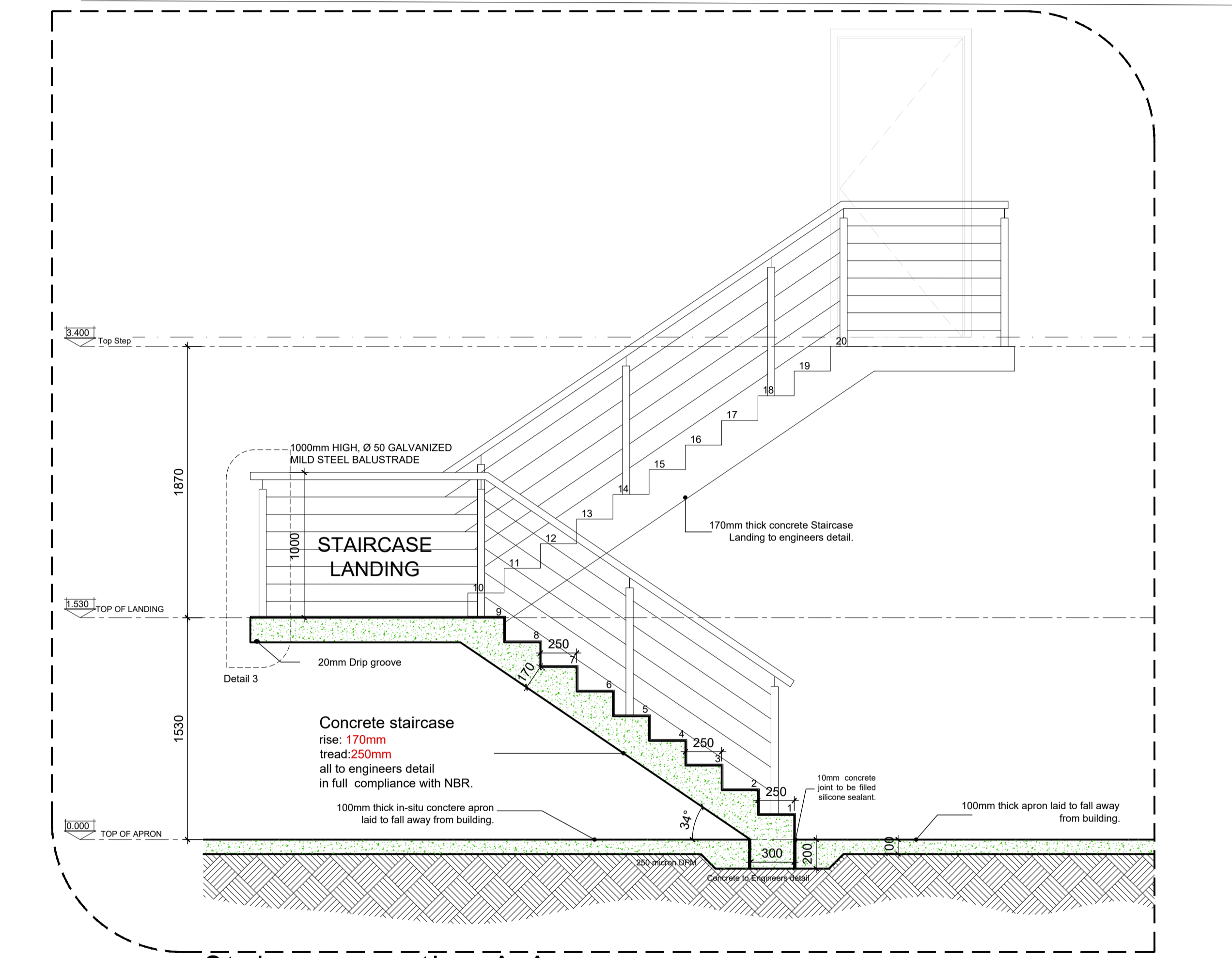
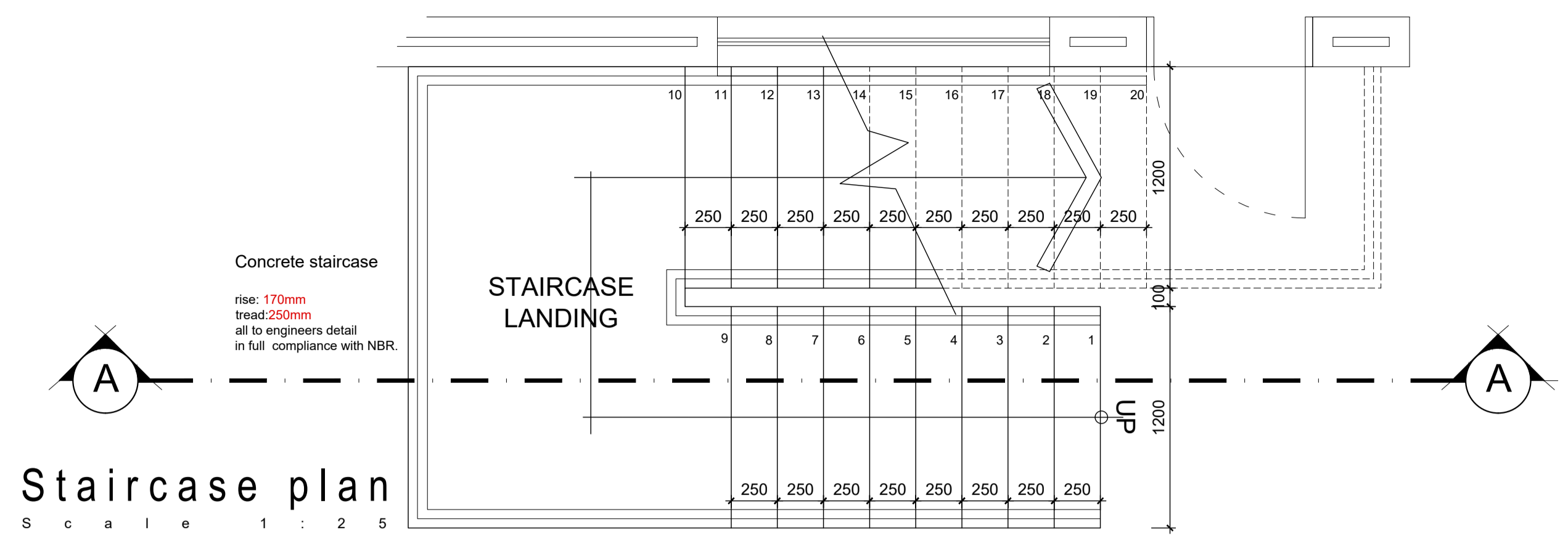
service
 Mhlontlo Disaster Management Centre

FOR TENDER

drawing title
Elevations

Revision no.	A	designed	T. Maseko
scale	1:100	drawn	T. Maseko
date	Monday, 02 March 2020	checked	T. Maseko
type number			
drawing number	MDM/ 301		

Rev. No.	Comment	Date	Modified by



▼ +3,060 Top of Ring Beam

▼ +2,125 U/S Lintel

▼ ±0,000 FFL

- 100x50x20x2.0mm steel purlins bolted on a 100mm long 90x65x6 cleat.
- Roof sheeting to be 0.6mm colomate finished galvanized metal ibr profile roof sheeting fixed to steel purlins.
- curved rafter with a tapered overhand and similar stub column fixed on reinforced concrete beam
- Steel cage mesh to detail.
- Roof sheeting to be 0.6mm colomate finished galvanized metal ibr profile roof sheeting fixed to 125x50 steel purlins.
- 125x50x20x2.0mm steel purlins bolted on a 100mm long 90x65x6 cleat.
- 305x102x25 i-section with a welded end plate
- stub column with a welded base plate supporting curved roof fixed to beam.
- Gyproc DonnCell Gyproc Porcelain vinyl finished gypsum ceiling tiles size 1200 x 600mm x 12.5mm thick laid on and including SQ/T38 White powder coated main tees
- 270x510mm deep rc. eaves beam on 2x dpc on brick wall.
- Window as per window schedule.
- Brick on edge external window cill.
- 270mm thick cavity wall with brick force @ every 4th course and wall ties @ min. 800 c/c horizontally
- Laminated polyisocyanurate core board (density 34kg/m³), with a minimum thickness of 30mm. Faced with Kraft paper, laminated on both sides, supplied in 1220mm width. To be fixed on inner leaf of cavity wall using galvanized cavity ties.
- 19x75mm high meranti skirting with 19mm meranti quadrant
- Reinforced Concrete slab to Eng detail.
- Gyproc DonnCell Gyproc Porcelain vinyl finished gypsum ceiling tiles size 1200 x 600mm x 12.5mm thick laid on and including SQ/T38 White powder coated main tees
- provide two layers of dpc to create a slip joint between concrete and brickwall
- 250 micron DPC
- Precast reinforced concrete lintol.
- Window as per window schedule.
- Brick on edge external window cill.
- 270mm thick cavity wall with brick force @ every 4th course and wall ties @ min. 800 c/c horizontally
- Laminated polyisocyanurate core board (density 34kg/m³), with a minimum thickness of 30mm. Faced with Kraft paper, laminated on both sides, supplied in 1220mm width. To be fixed on inner leaf of cavity wall using galvanized cavity ties.
- 19x75mm high meranti skirting with 19mm meranti quadrant
- Concrete slab to Eng detail.
- Stepped 250 micron DPC
- Laminated polyisocyanurate core board (density 34kg/m³), with a minimum thickness of 20mm. Faced with Kraft paper, laminated on both sides, supplied in 1220mm width.
- 20mm clean riversand bed
- Well compacted fill in layers no exceeding 150mm all to engineers spec

Note

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Mhlotlo Disaster Management Centre

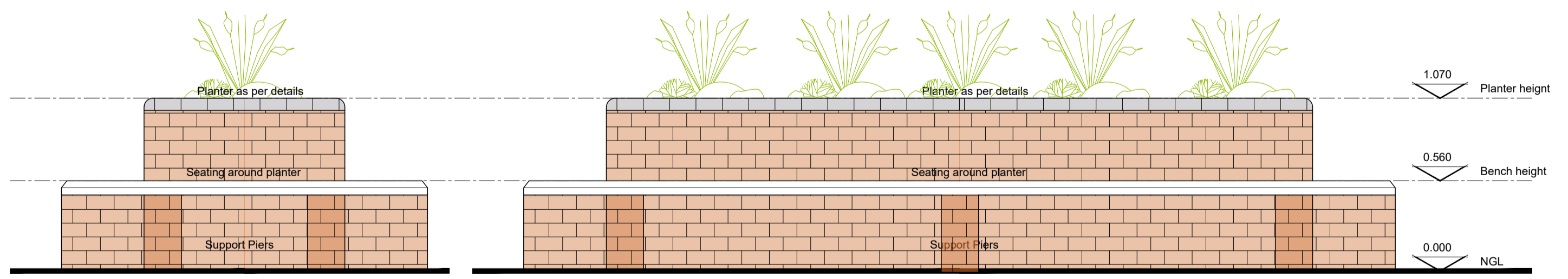
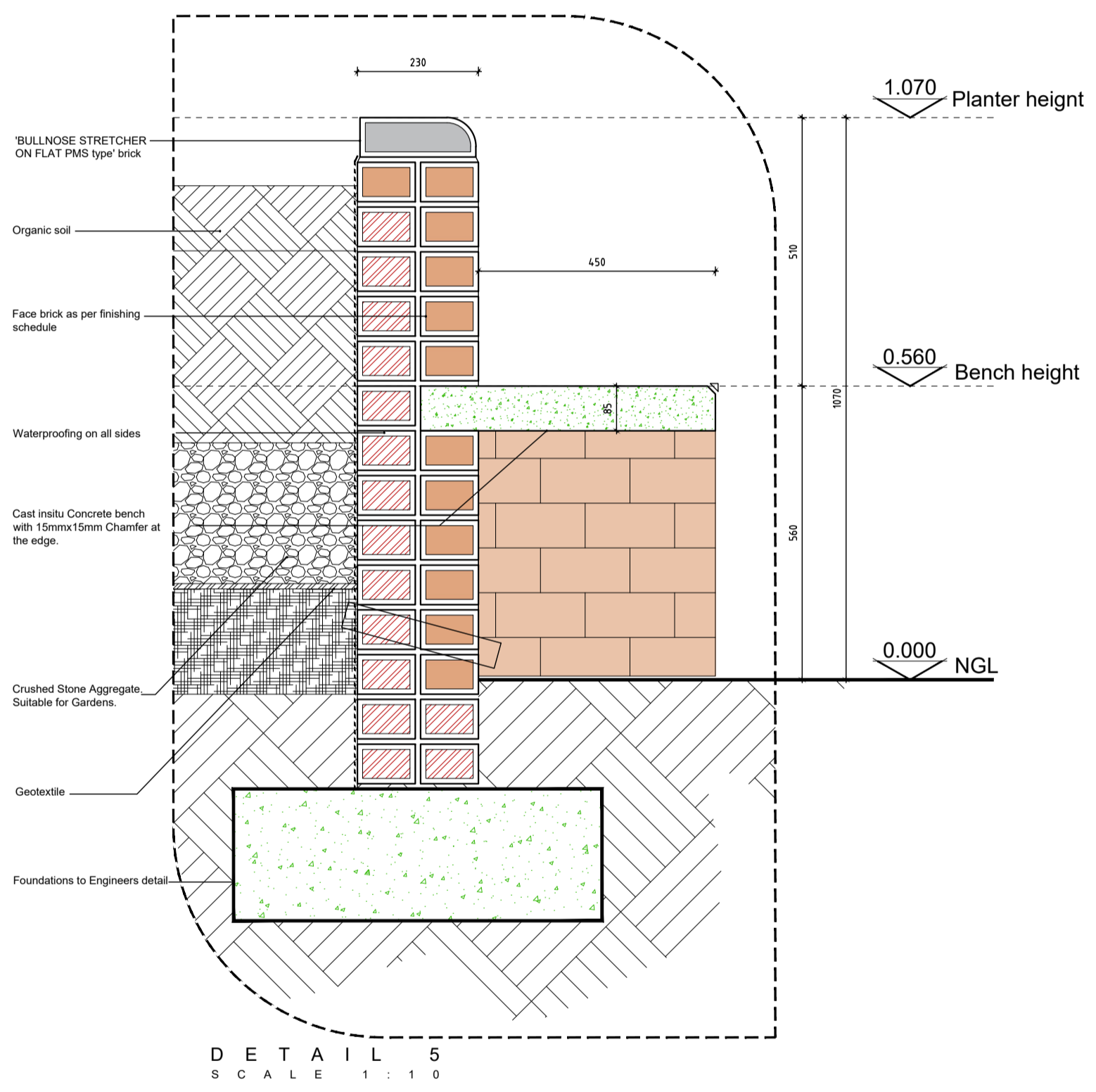
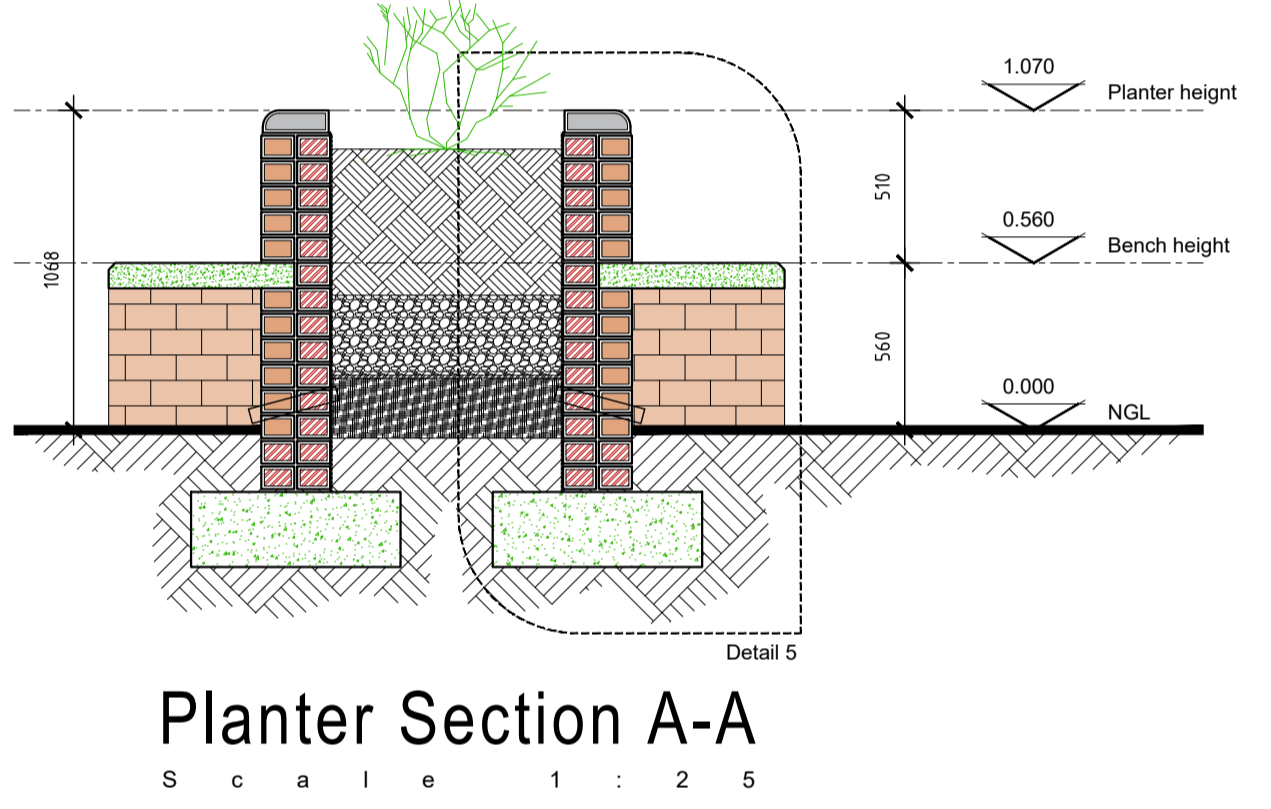
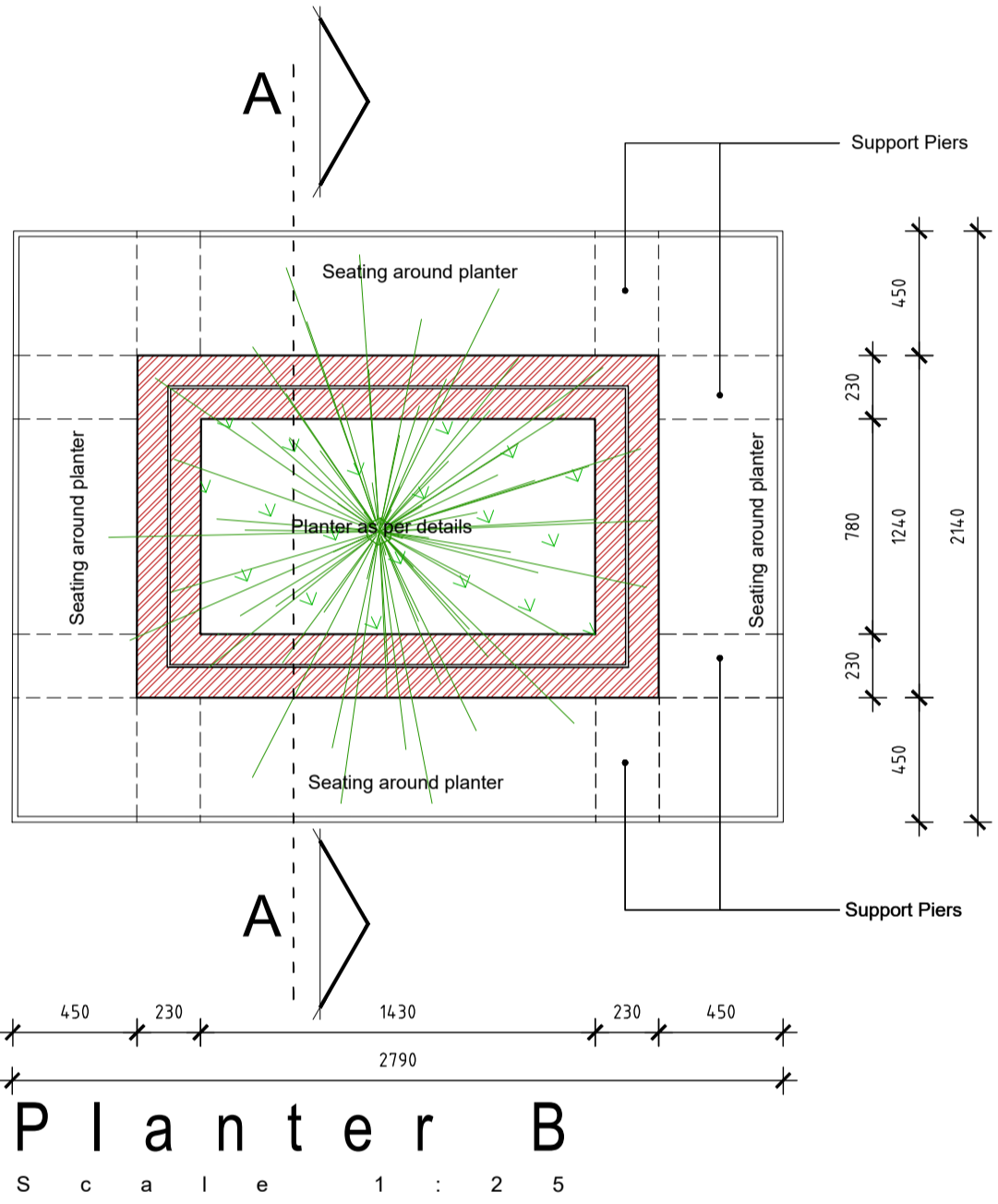
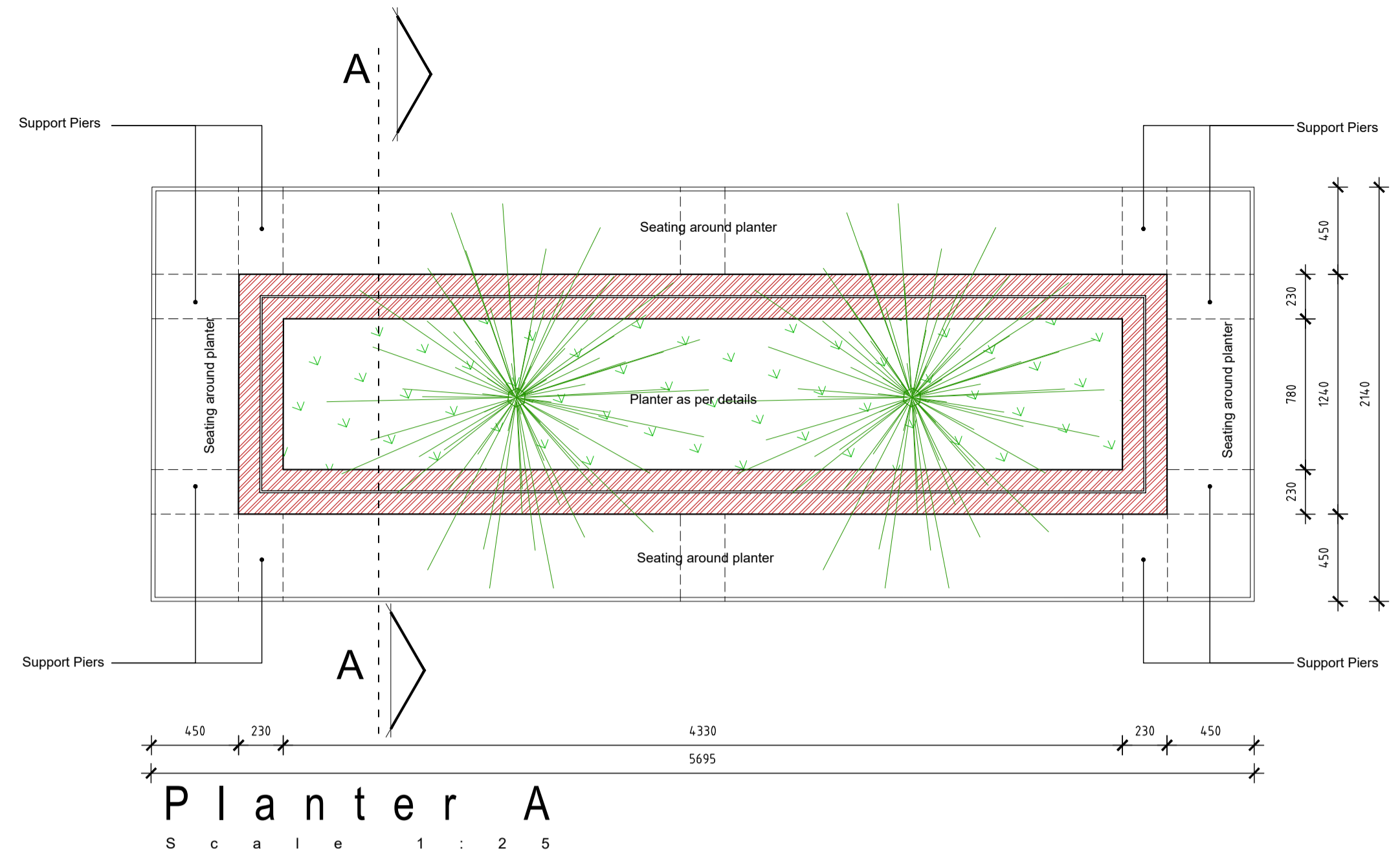
FOR TENDER

Drawing title
Part-wall Sections Details

Revision no.	designed	T. Maseko
scale	drawn	T. Maseko
1:25 and 1:5	checked	T. Maseko
date	Monday, 02 March 2020	
type number		
drawing number		

MDM/401

Rev. No.	Comment	Date	Modified by
Rev. -			



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East London E-mail: idcarc@mweb.co.za
5201

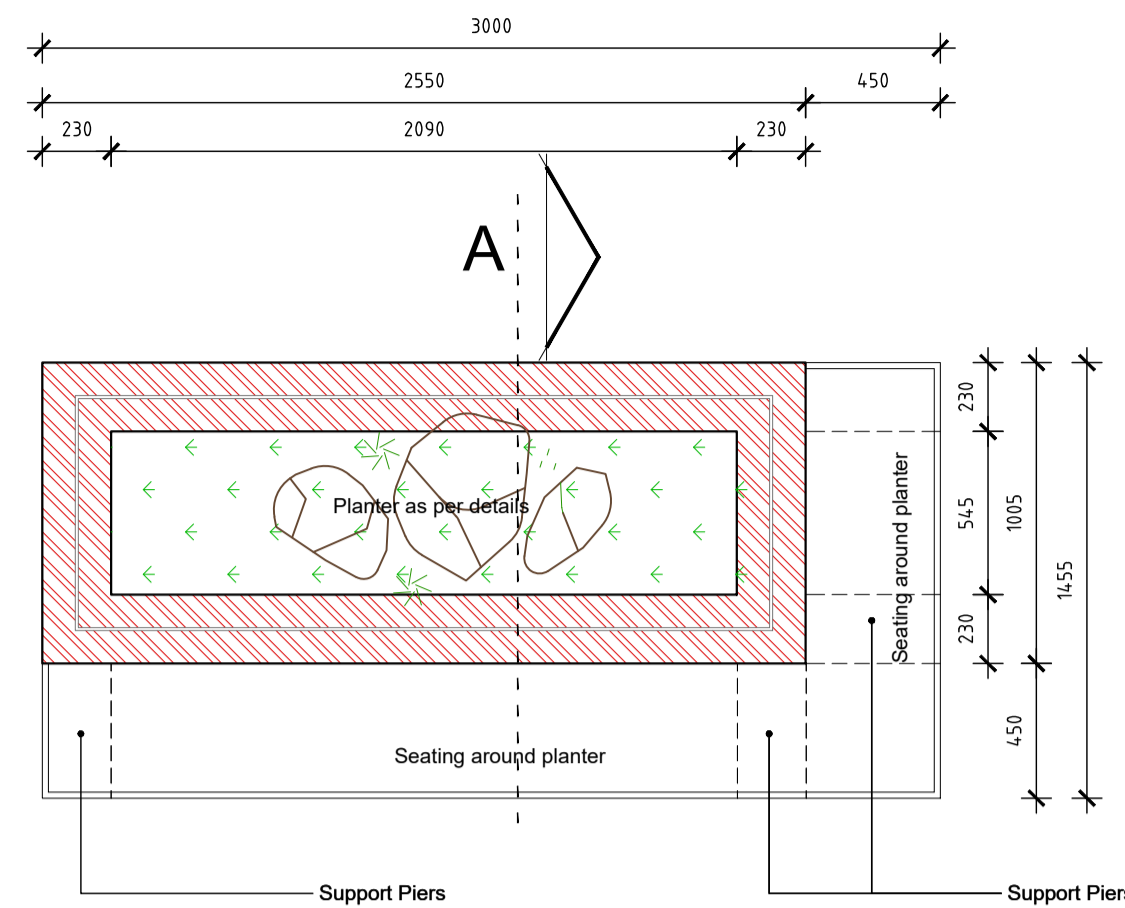
Mhlontlo Disaster Management Centre

FOR TENDER

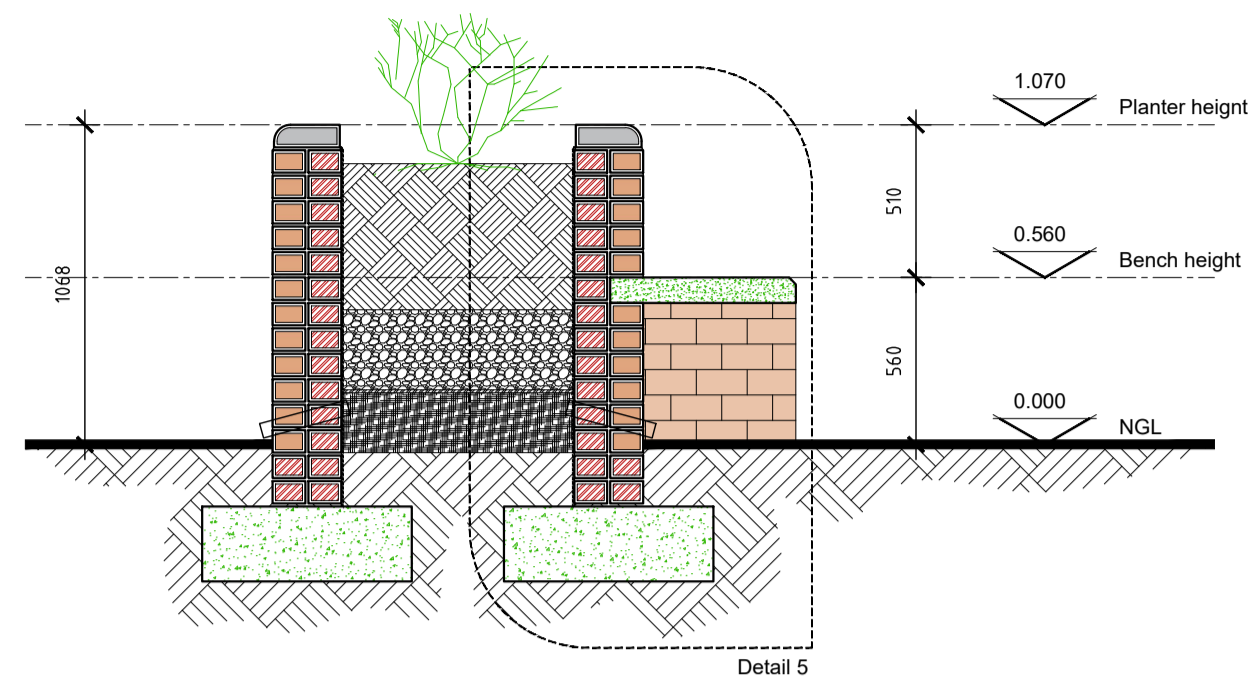
Drawing title
Part-wall Sections Details

Revision no.	designed	T. Maseko
scale	drawn	T. Maseko
date	checked	T. Maseko
Monday, 02 March 2020		
type number		
drawing number		

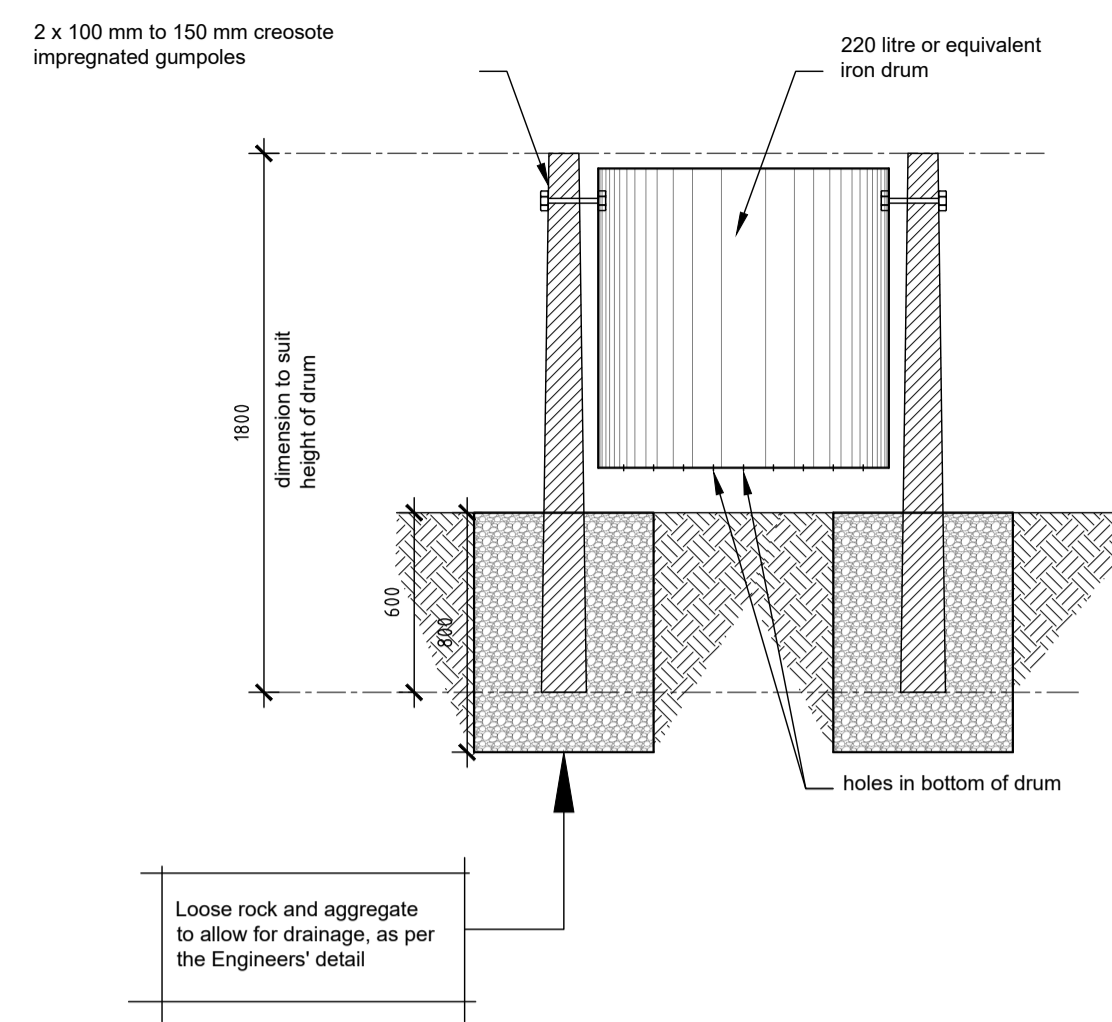
MDM/402



Planter C
Scale 1 : 2 5



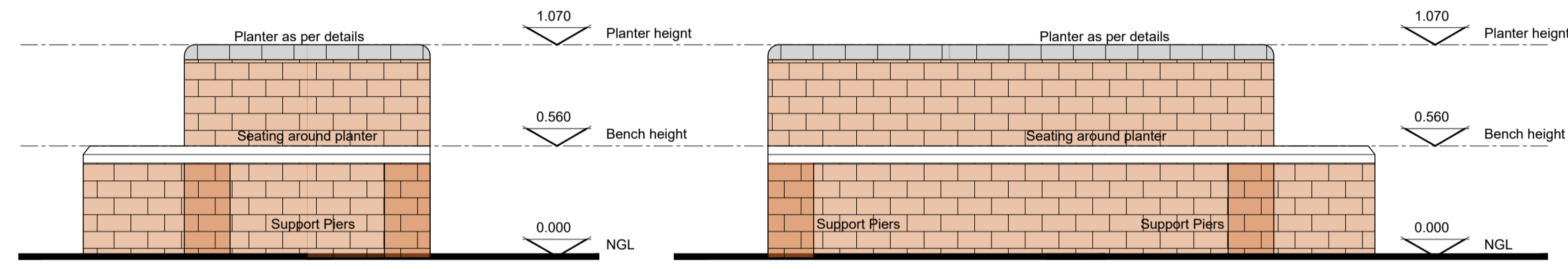
Planter Section A-A
Scale 1 : 2 5



SUSPENDED WASTE DRUM
Scale 1 : 2 5

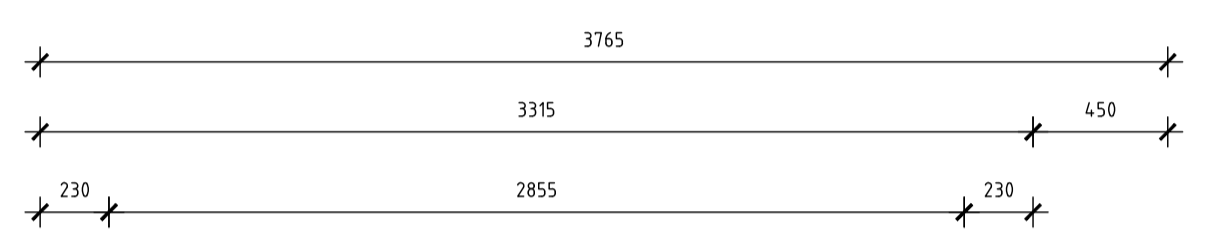
- NOTES:**
1. SUSPENDED WASTE DRUM TO MUNICIPAL SOLID WASTE SPECIFICATIONS
 2. POSTS TREATED WITH CREOSOTE AS DESCRIBED IN SABS CODE OF PRACTICE 05
 3. POSTS TO BE EACH 1.8m LONG AND PLANTED 600mm IN CLASS B CONCRETE BLOCK SIZE 600mm x 600mm x 800mm DEEP
 4. BOLT IS SHOULD ACT AS PIVOT FOR SUSPENSION AND EMPTYING OF WASTE
 5. THE DRUM SHOULD HAVE HOLES DRILLED IN THE BOTTOM TO DRAIN WATER AND DISCOURAGE THEFT FOR WATER COLLECTION PURPOSES
 6. HEIGHT OF POLES SUGGESTED AT 1.2m, THOUGH MAY BE VARIED TO ACCOMMODATE LARGER DRUM

NB : SITE PLAN FOR POSITIONING

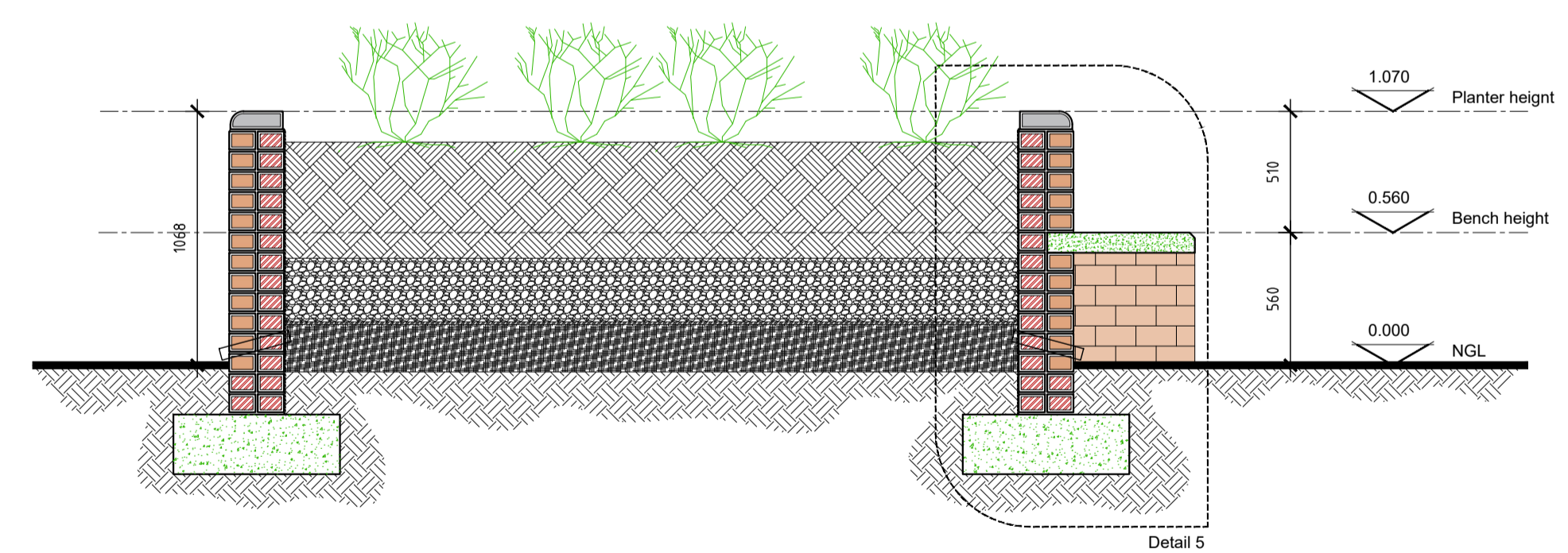


Planter C Elevation 1
Scale 1 : 2 5

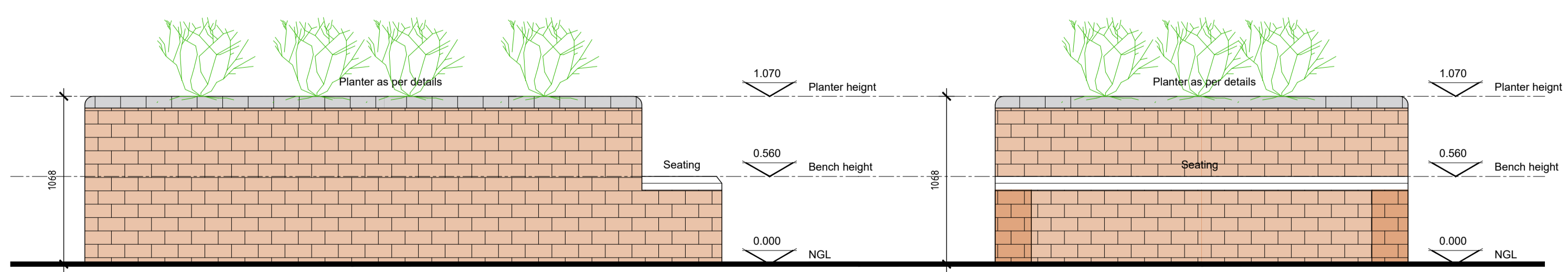
Planter C Elevation 2
Scale 1 : 2 5



Planter D
Scale 1 : 2 5

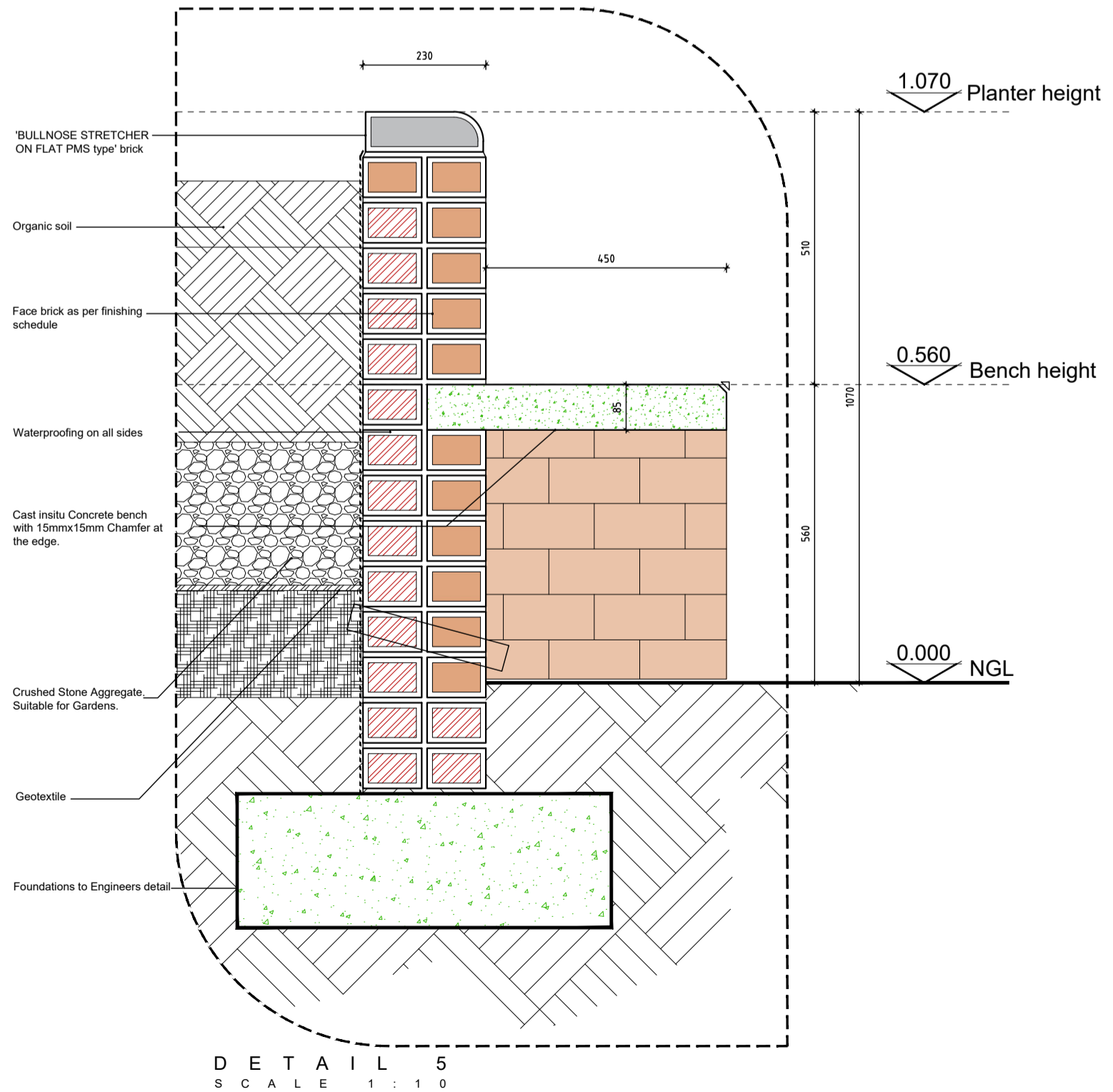


Planter Section A-A
Scale 1 : 2 5



Planter D Elevation 1
Scale 1 : 2 5

Planter D Elevation 2
Scale 1 : 2 5



DETAIL 5
SCALE 1 : 1 0

Rev. No.	Comment	Date	Modified by

Note

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Mhlontlo Disaster Management Centre

FOR TENDER

Drawing title
Part-wall Sections Details

Revision no.	designed	T. Maseko
scale	drawn	T. Maseko
date	checked	T. Maseko
Monday, 02 March 2020		

Drawing number
MDM/403

LEGEND

- WATER PIPELINE
- SEWER PIPELINE
- BENCHMARK
- TREES
- FENCING
- POWERLINE

CONTROL POINTS WGS 29

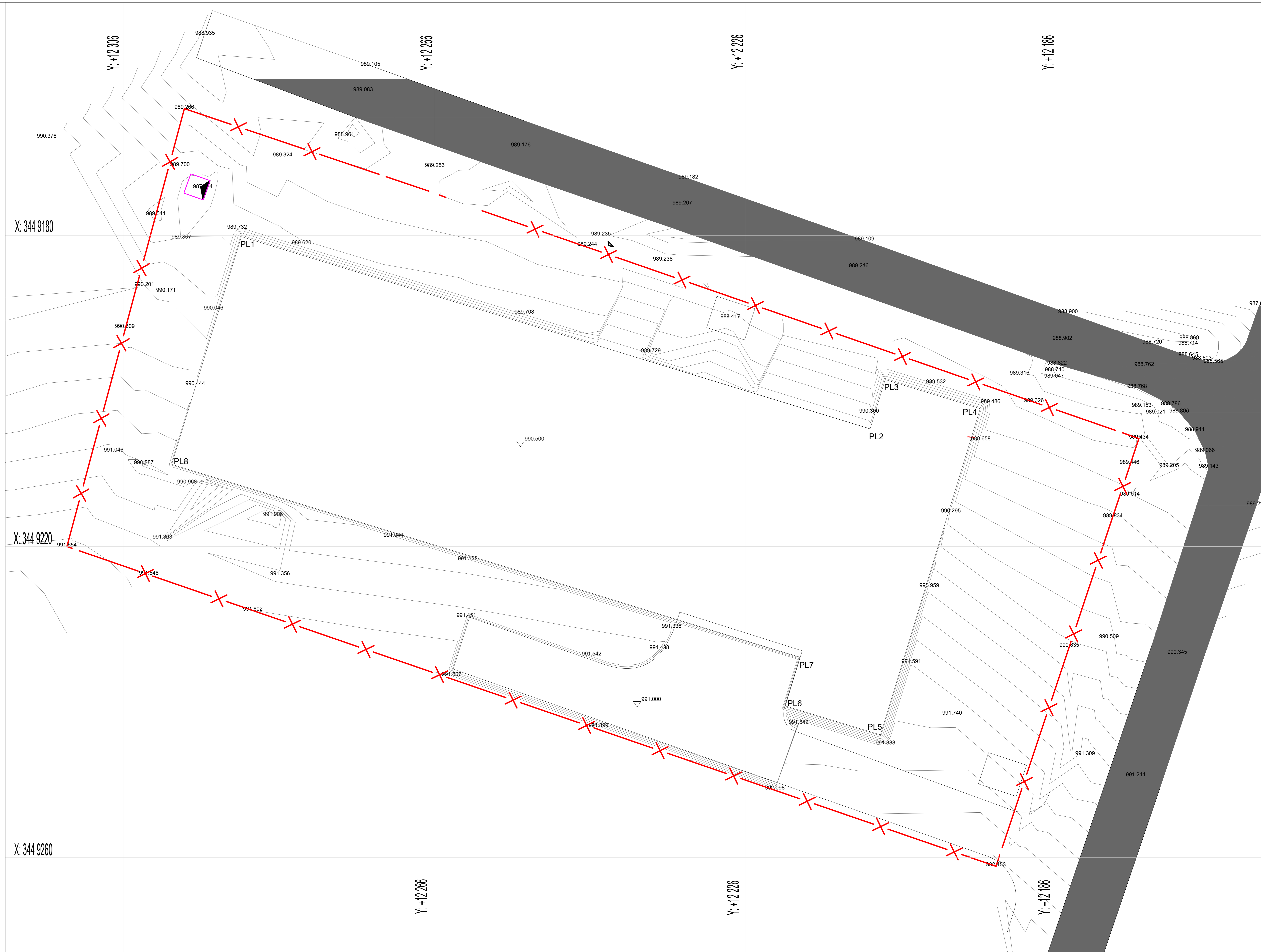
NAME	Y	X	Z
BMS	+12 174,587	3 449 205,443	989,166m

PLATFORM CO-ORDINATES

CODE	Y	X	Z
PL1	+12 290,465	3 449 187,306	990,564m
PL2	+12 211,783	3 449 212,242	990,564m
PL3	+12 211,218	3 449 207,183	990,564m
PL4	+12 198,010	3 449 210,961	990,564m
PL5	+12 210,587	3 449 251,024	990,564m
PL6	+12 222,796	3 449 247,848	990,564m
PL7	+12 220,838	3 449 241,511	990,564m
PL8	+12 299,549	3 449 217,159	990,564m

BUILDING SETTING-OUT CO-ORDINATES

BUILDING	ID	Y	X
DISASTER MANAGEMENT CENTRE 1	SDP 1	12 199,920	3 449 211,327
	SDP 2	12 202,391	3 449 219,308
	SDP 3	12 208,612	3 449 240,591
	SDP 4	12 211,664	3 449 250,181
	SDP 5	12 221,134	3 449 247,224
	SDP 6	12 235,936	3 449 235,710
	SDP 7	12 244,326	3 449 233,092
	SDP 8	12 236,198	3 449 206,817
	SDP 9	12 227,792	3 449 209,429
	SDP 10	12 209,137	3 449 208,507
SECURITY GUARD HOUSE 2	SDP 11	12 202,391	3 449 219,308
	SDP 12	12 208,612	3 449 240,591
	SDP 13	12 211,664	3 449 250,181
	SDP 14	12 221,134	3 449 247,224
SECURITY GUARD HOUSE 3	SDP 15	12 221,134	3 449 247,224
	SDP 16	12 235,936	3 449 235,710
	SDP 17	12 244,326	3 449 233,092
	SDP 18	12 236,198	3 449 206,817



REV.	DATE	DRAWN	DESCRIPTION	CHECKED	APPR'D
			ISSUE FOR TENDER		

SCALE:	AS SHOWN	DESIGNED:	MJ
DRAWN:	MJ	DISCIPLINE:	CIVIL
CHECKED:	LM	PROJECT LEADER:	M. MBANA
DRG. FILE NAME:		CLIENT:	ORTDM

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Fax. (043)748 3707

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Sidwadwa View
Mthatha, 5100
Tel. (047)495 0459
Fax. (047)537 0153

O R TAMBO DISTRICT MUNICIPALITY
QUMBU DISASTER RISK MANAGEMENT CENTER
TERRACES LAYOUT

SHEET NO. 1 OF 1

DRG No: BCE-ORTDM-QDRMC-01C

LEGEND

- WATER PIPELINE
- SEWER PIPELINE
- BENCHMARK
- TREES
- FENCING
- POWERLINE

CONTROL POINTS WGS 29

NAME	Y	X	Z
BMS	+12 174,587	3 449 205,443	989,168m

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PL4	+12 198,010	3 449 210,961	990,564m
PL5	+12 210,587	3 449 251,024	990,564m
PL6	+12 222,796	3 449 247,948	990,564m
PL7	+12 220,838	3 449 241,511	990,564m
PL8	+12 299,549	3 449 217,159	990,564m

BUILDING SETTING-OUT CO-ORDINATES

BUILDING	ID	Y	X
DISASTER MANAGEMENT CENTRE 1	SDP 1	12 199,920	3 449 211,327
	SDP 2	12 202,391	3 449 219,308
	SDP 3	12 208,612	3 449 240,591
	SDP 4	12 211,664	3 449 250,181
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REV.	DATE	DRAWN	DESCRIPTION	CHECKED	APPR'D
			ISSUE FOR TENDER		

SCALE:	AS SHOWN	DESIGNED:	MJ
DRAWN:	MJ	DISCIPLINE:	CIVIL
CHECKED:	LM	PROJECT LEADER:	M. MBANA
DRG. FILE NAME:		CLIENT:	ORTDM

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O R TAMBO DISTRICT MUNICIPALITY
QUMBU DISASTER RISK MANAGEMENT CENTER

WATER SUPPLY & SEWERAGE LAYOUT

SHEET NO. 1 OF 1

A1

DRG No: BCE-ORTDM-QDRMC-02c

REV.No:

LEGEND

- WATER PIPELINE
- SEWER PIPELINE
- BENCHMARK
- TREES
- FENCING
- POWERLINE

CONTROL POINTS WGS 29

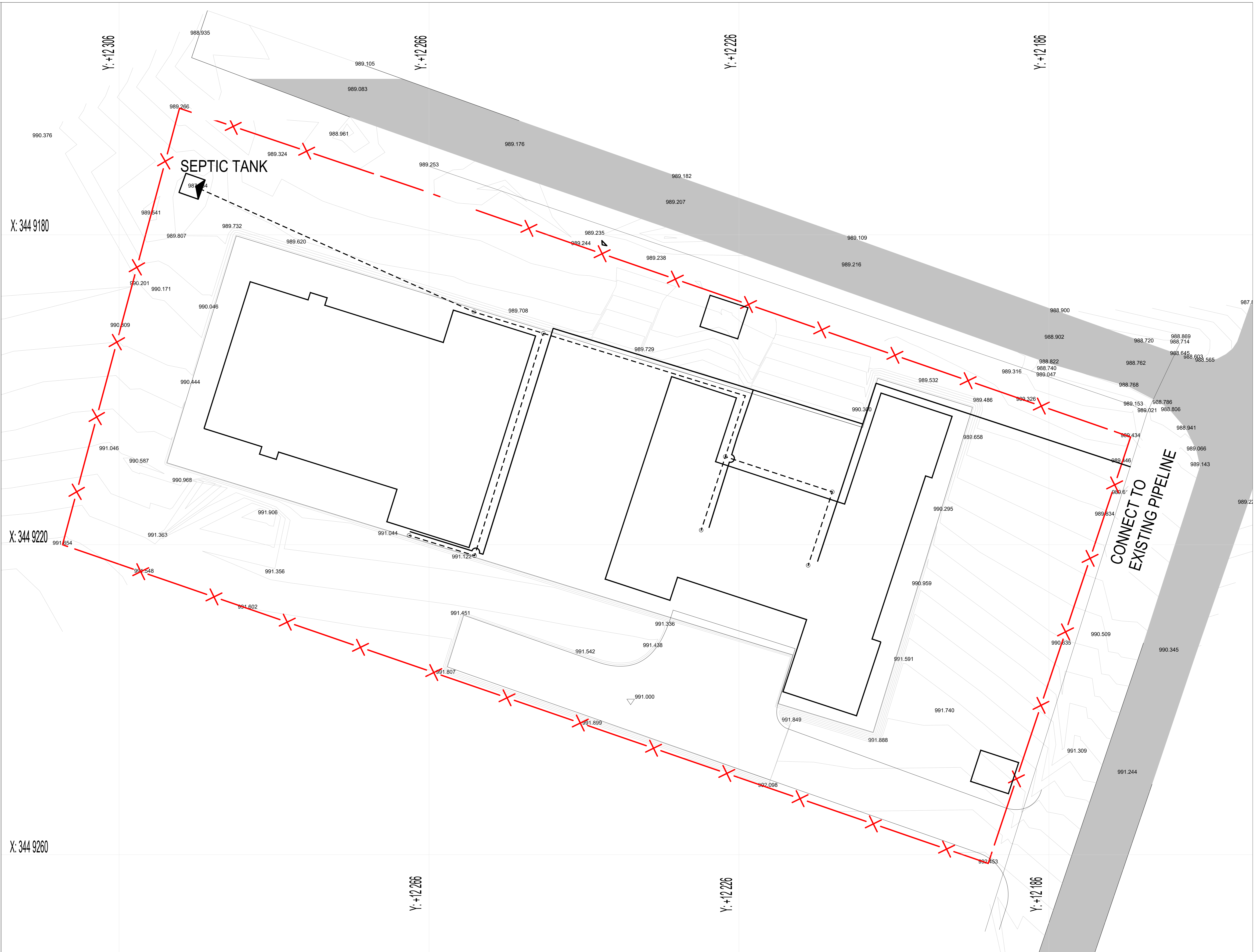
NAME	Y	X	Z
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PL8	+12 299,549	3 449 217,159	990,564m

BUILDING SETTING-OUT CO-ORDINATES

BUILDING	ID	Y	X
DISASTER MANAGEMENT CENTRE 1	SDP 1	12 199,920	3 449 211,327
	SDP 2	12 202,391	3 449 219,308
	SDP 3	12 208,612	3 449 240,591
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	SDP 16	12 235,936	3 449 235,710
	SDP 17	12 244,326	3 449 233,092
	SDP 18	12 236,198	3 449 206,817



REV.	DATE	DRAWN	DESCRIPTION	CHECKED	APPR'D
			ISSUE FOR TENDER		

SCALE:	AS SHOWN	DESIGNED:	MJ
DRAWN:	MJ	DISCIPLINE:	CIVIL
CHECKED:	LM	PROJECT LEADER:	M. MBANA
DRG. FILE NAME:		CLIENT:	ORTDM

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East London, 5241
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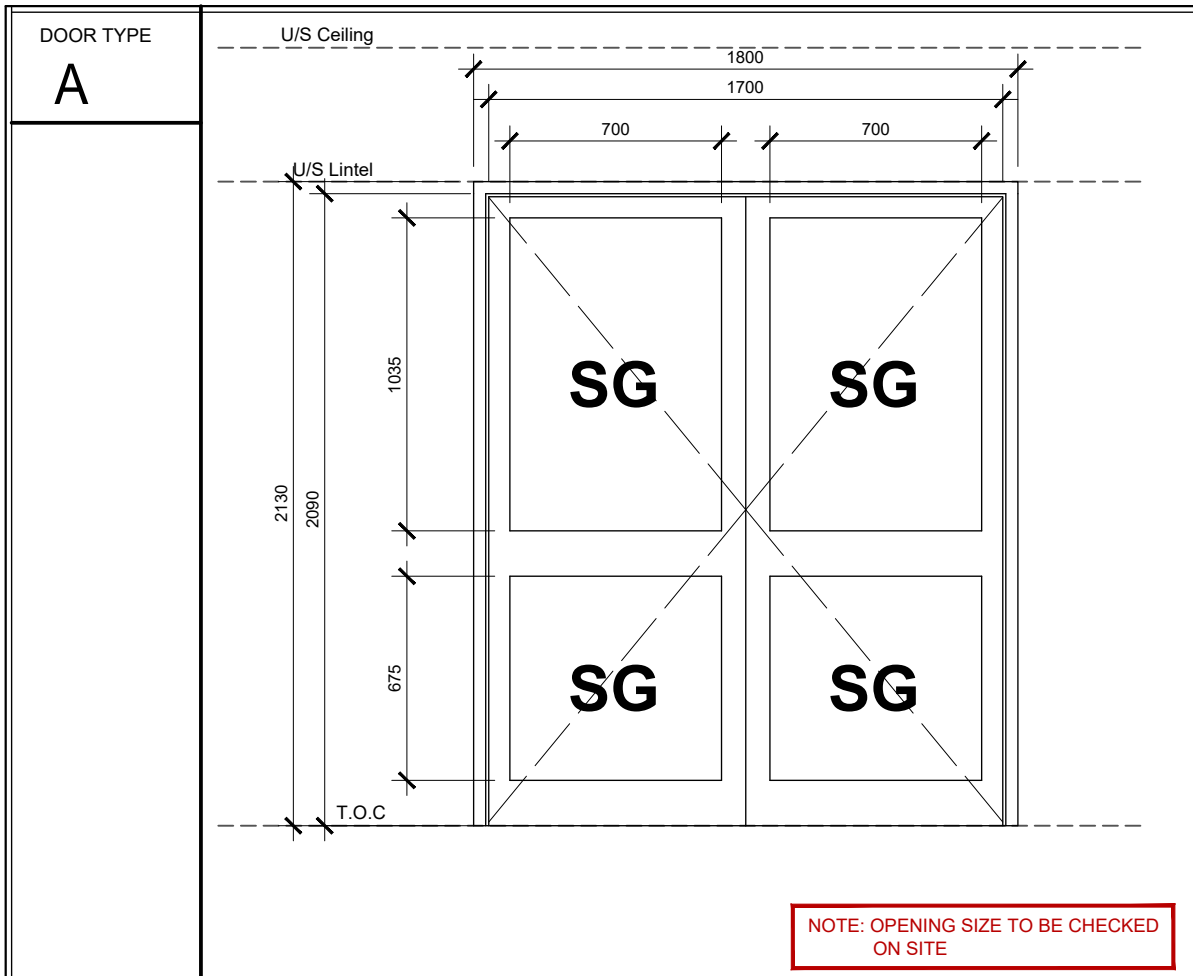
MTHATHA
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O R TAMBO DISTRICT MUNICIPALITY
QUMBU DISASTER RISK MANAGEMENT CENTER


WATER SUPPLY & SEWERAGE LAYOUT

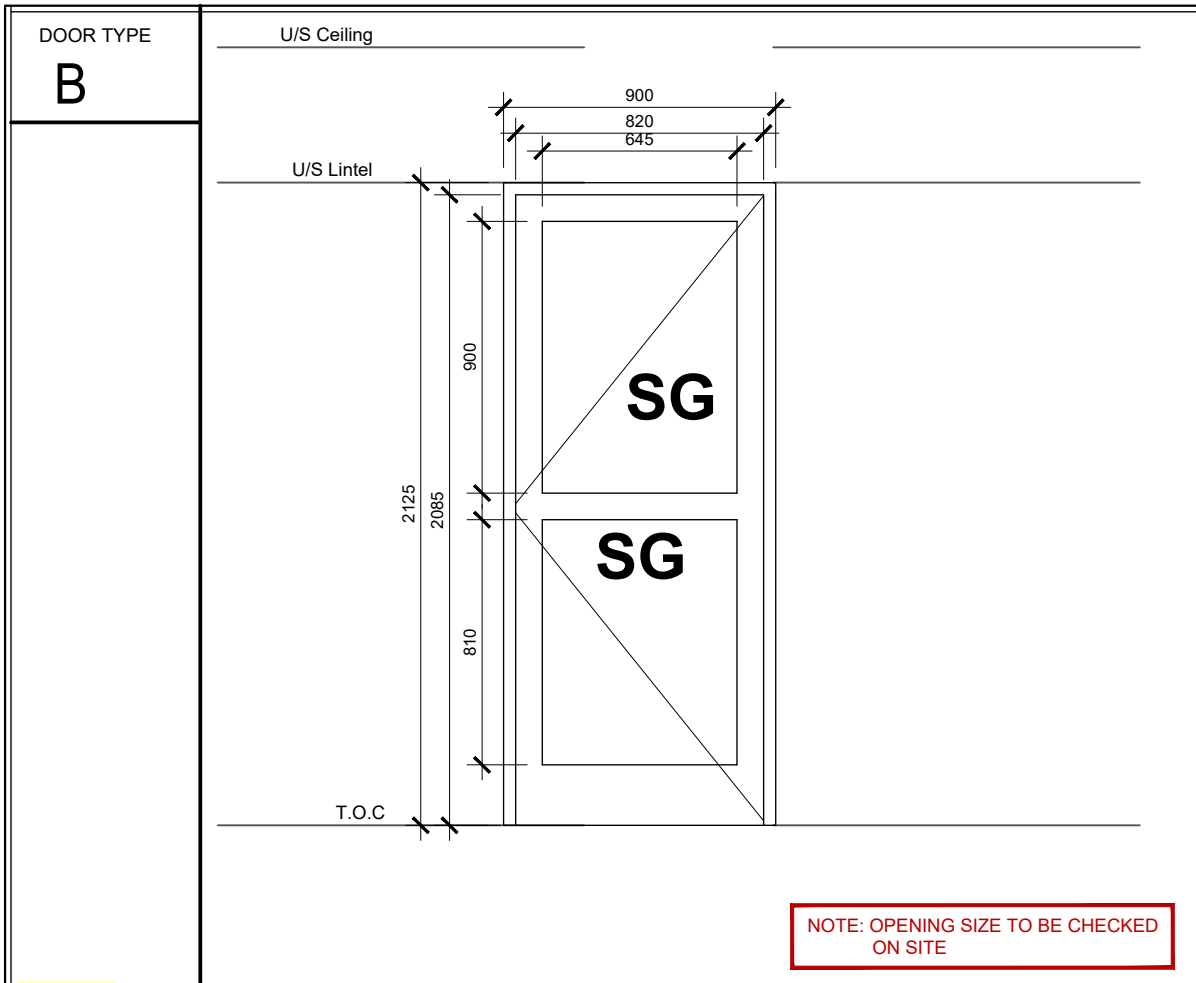
SHEET NO. 1 OF 1

DRG No: BCE-ORTDM-QDRMC-02c



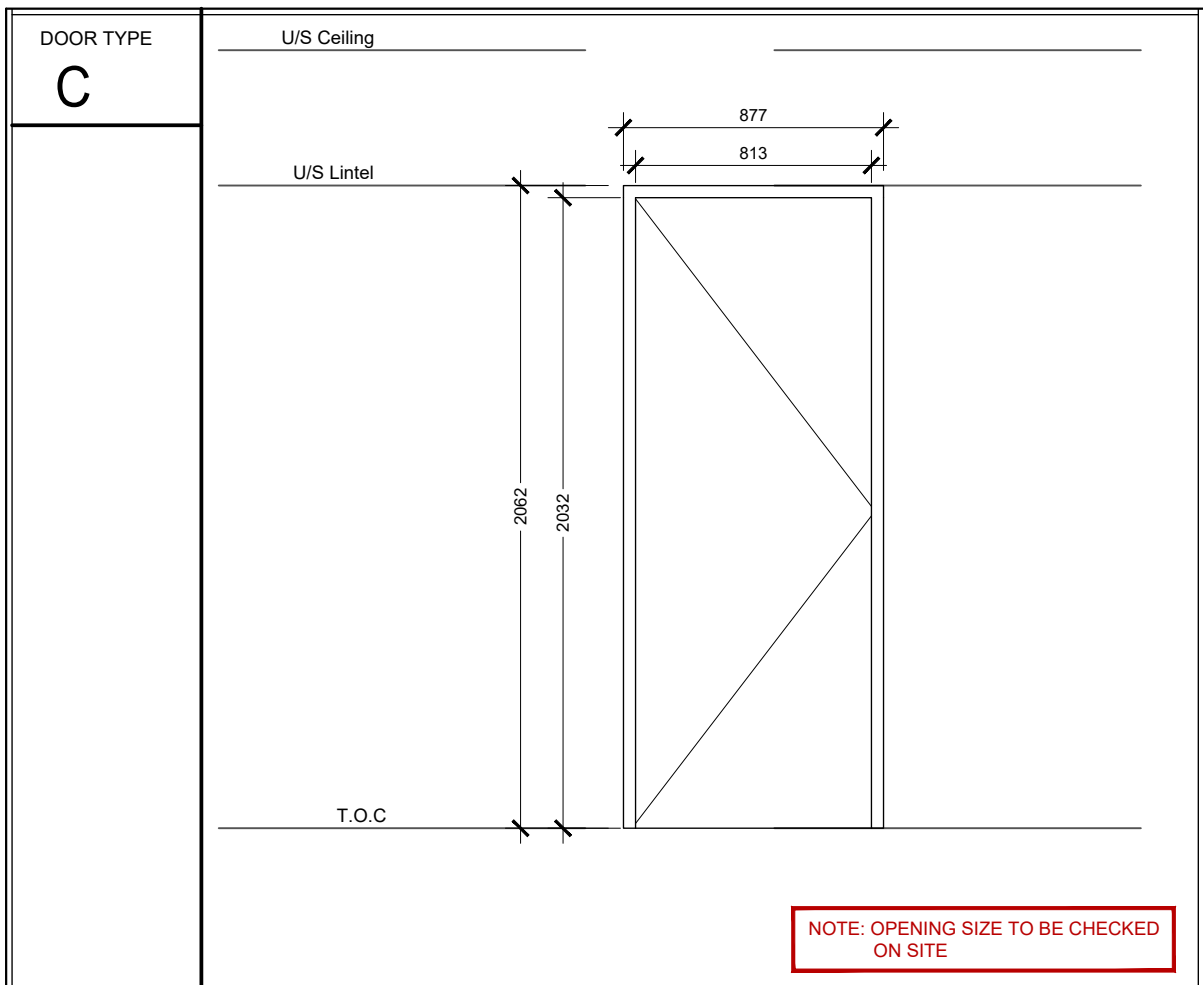
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DOOR TYPE :	Bronze aluminium to suit opening size: 1800mm (Wide) & 2130mm (High) Wall thickness 2mm
DOOR FINISH:	Bronze powder coated Aluminium
FRAME:	Bronze powder coated aluminium door frame 2mm thick
FRAME FINISH:	Bronze powder coated aluminium door frame
GLAZING:	700 X 1035mm & 700 X 675mm 6mm Clear Float Safety Glass
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	2

NOTE: Copyright and right of reproduction of this drawing or any portion thereof is reserved. Contractor to verify all levels, heights and dimensions on site and check same against drawing before putting any work in hand. Any discrepancies to be reported to the architect for clarification. Written dimensions take precedence over scaled dimensions. All work is to be carried out in strict accordance with local authorities' requirements, national building regulations and the relevant specifications and/or schedules as may be issued.	PROJECT: MALINDILO DEBRASTER MANAGEMENT CENTRE EASTERN CAPE	<table border="1"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> </tr> <tr> <td>DESIGNED T. MASEKO</td> <td></td> <td></td> </tr> <tr> <td>DRAWN J. SAVAGE</td> <td></td> <td></td> </tr> <tr> <td>VERIFIED B. ILORI</td> <td></td> <td></td> </tr> <tr> <td>VALIDATED</td> <td></td> <td></td> </tr> </table>	NAME	SIGNATURE	DATE	DESIGNED T. MASEKO			DRAWN J. SAVAGE			VERIFIED B. ILORI			VALIDATED			SHEET SIZE: A4 SCALE: 1:25 STATUS LEGEND: T	CLIENT:	ARCHITECTS:  IDC House 15 Belgrave Road Belgravia East London 5201 Tel : 043 743 0522 Fax : 043 743 0534 E-mail: info@idcarch.co.za E-mail: idc@idcmm.co.za
	NAME	SIGNATURE	DATE																	
	DESIGNED T. MASEKO																			
	DRAWN J. SAVAGE																			
VERIFIED B. ILORI																				
VALIDATED																				
FOR CONSTRUCTION		REVISIONS: 0 																		
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DRAWING #	STATUS	REVISION																		
MDM/800	TENDER	-																		



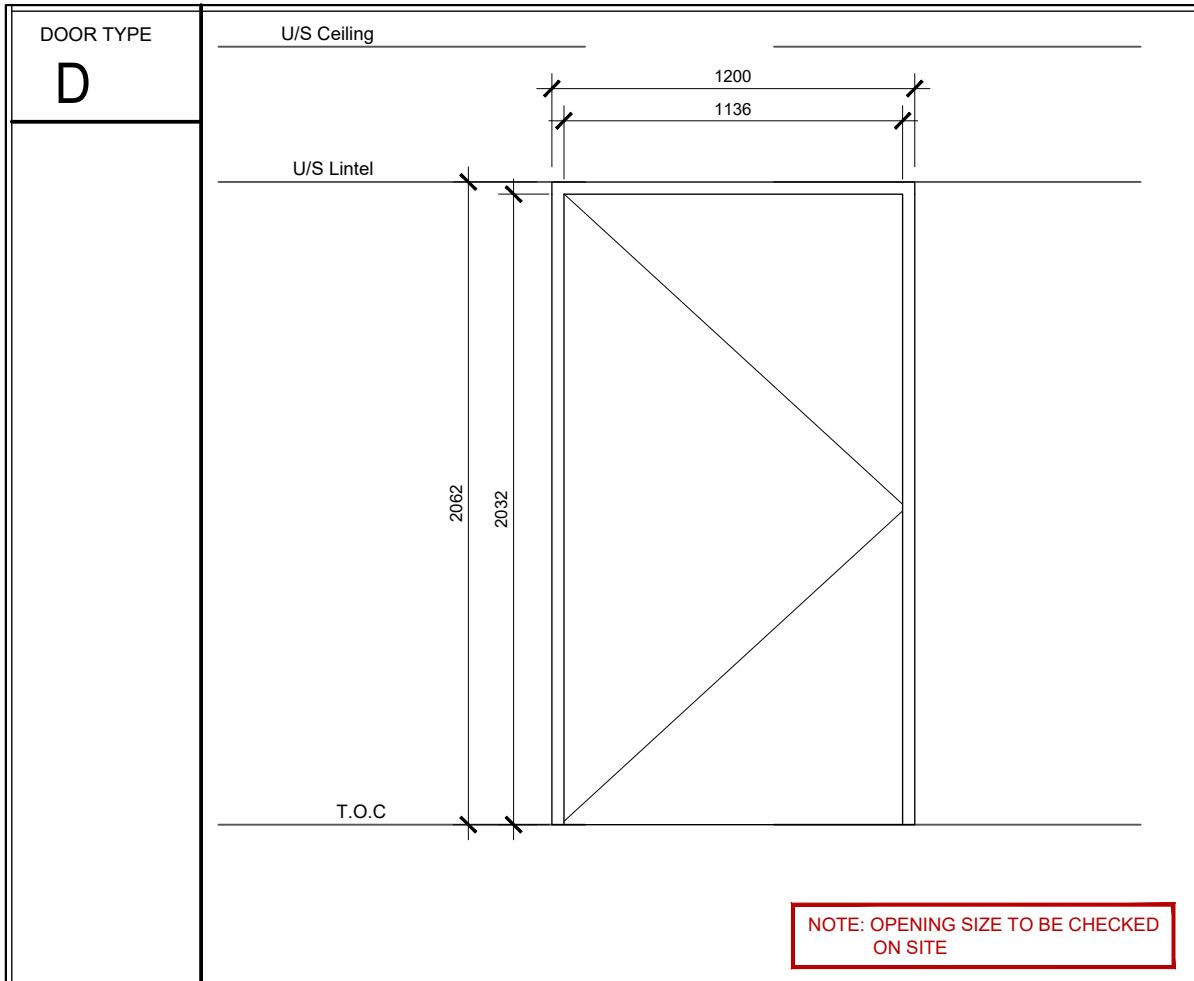
POSITION:	TO ALL FIRE ESCAPES AND GUARD HOUSES
DOOR TYPE :	Bronze aluminium to suit opening size: 900mm (Wide) & 2125mm (High) Wall thickness 2mm
DOOR FINISH:	Bronze powder coated Aluminium
FRAME:	Bronze powder coated aluminium door frame 2mm thick
FRAME FINISH:	Bronze powder coated aluminium door frame
GLAZING:	900 X 645mm & 810 X 645mm 6mm Clear Float Safety Glass
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	4

<p>NOTE:</p> <p>Copyright and right of reproduction of this drawing or any portion thereof is reserved.</p> <p>Contractor to verify all levels, heights and dimensions on site and check same against drawing before putting any work in hand. Any discrepancies to be reported to the architect for clarification.</p> <p>Written dimensions take precedence over scaled dimensions.</p> <p>All work is to be carried out in strict accordance with local authorities' requirements, national building regulations and the relevant specifications and/or schedules as may be issued.</p>	<p>PROJECT:</p> <p>WILDLIFE RESERVE MANAGEMENT CENTRE</p> <p>EASTERN CAPE</p> <p>FOR CONSTRUCTION</p> <p>DRAWING # MDM/801</p> <p>STATUS TENDER</p> <p>REVISION</p>	<table border="1"> <thead> <tr> <th>DESIGNED</th> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> <th>SHEET SIZE</th> </tr> </thead> <tbody> <tr> <td>T. MASEKO</td> <td>T. MASEKO</td> <td></td> <td></td> <td>A4</td> </tr> <tr> <td>J. SAVAGE</td> <td>J. SAVAGE</td> <td></td> <td></td> <td>SCALE: 1:25</td> </tr> <tr> <td>B. ILORI</td> <td>B. ILORI</td> <td></td> <td></td> <td>STATUS LEGEND: T</td> </tr> <tr> <td>VALIDATED</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>REVISIONS:</p> <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>.....</td> <td>.....</td> </tr> </tbody> </table>	DESIGNED	NAME	SIGNATURE	DATE	SHEET SIZE	T. MASEKO	T. MASEKO			A4	J. SAVAGE	J. SAVAGE			SCALE: 1:25	B. ILORI	B. ILORI			STATUS LEGEND: T	VALIDATED					NO	DATE	DESCRIPTION	0	<p>CLIENT:</p>	<p>ARCHITECTS:</p> <p>IDC Architects</p> <p><small>ESTABLISHED 1987 • PORT ELIZABETH • CAPE TOWN</small></p> <p>IDC House 15 Belgrave Road Belgrave East London 5201</p> <p>Tel : 043 743 0522 Fax : 043 743 0534 E-mail: info@idcarch.co.za E-mail: idcare@mwweb.co.za</p>
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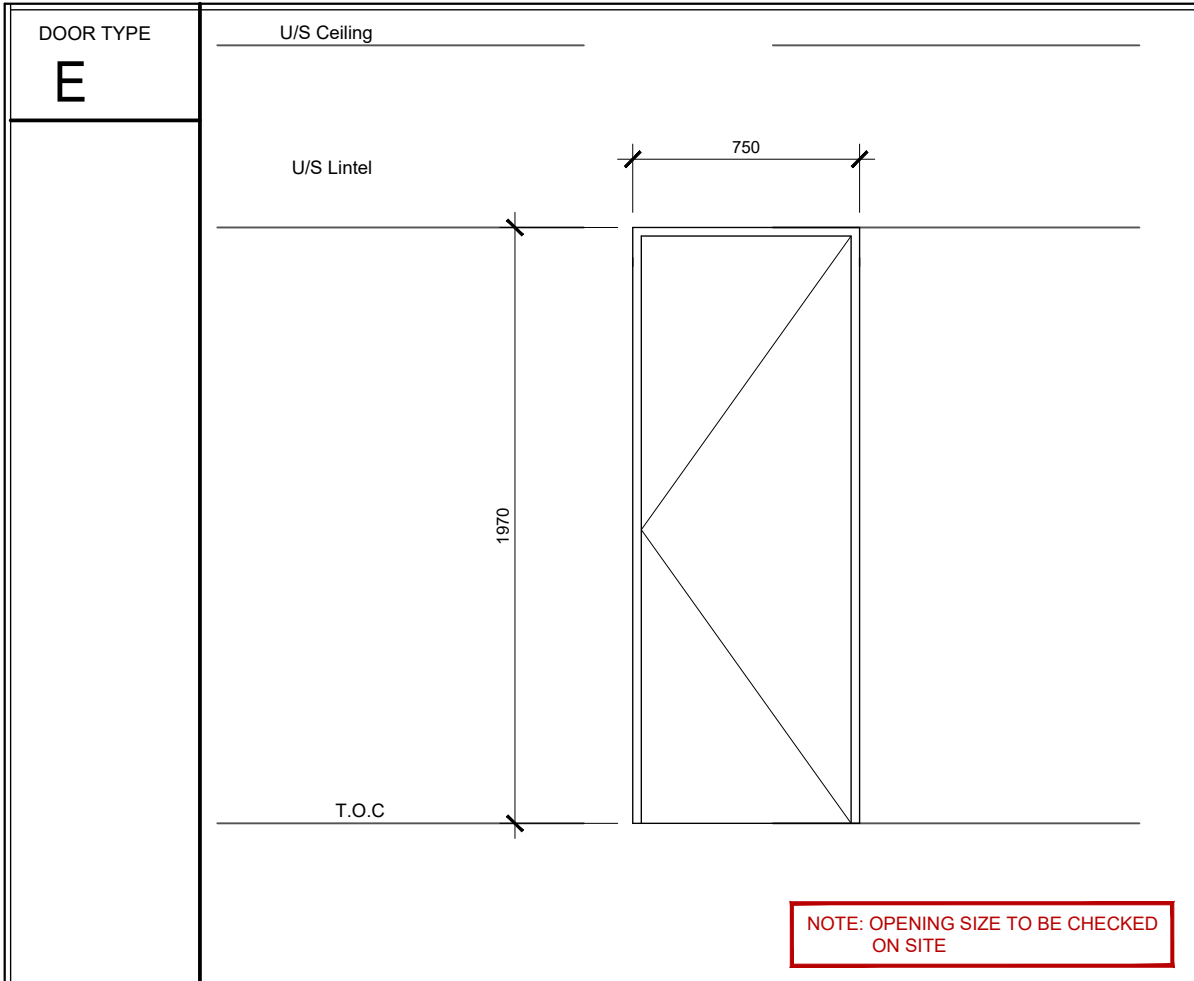
POSITION:	ALL INTERNAL OFFICE, ABLE BODIED ABLUTIONS AND TEA KITCHEN DOORS
DOOR TYPE :	813mm x 2032mm solid timber door
DOOR FINISH:	1 coat primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
FRAME:	1.2mm double rebated frames, to accommodate 813 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
GLAZING:	NONE
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	53

NOTE: Copyright and right of reproduction of this drawing or any portion thereof is reserved. Contractor to verify all levels, heights and dimensions on site and check same against drawing before putting any work in hand. Any discrepancies to be reported to the architect for clarification. Written dimensions take precedence over scaled dimensions. All work is to be carried out in strict accordance with local authorities' requirements, national building regulations and the relevant specifications and/or schedules as may be issued.	PROJECT: MILONTLO DISASTER MANAGEMENT CENTRE EASTERN CAPE	<table border="1"> <tr> <th>NAME</th> <th>SIGNATURE</th> <th>DATE</th> <th>SHEET SIZE</th> </tr> <tr> <td>DESIGNED T. MASEKO</td> <td></td> <td></td> <td>A4</td> </tr> <tr> <td>DRAWN J.SAVAGE</td> <td></td> <td></td> <td>SCALE: 1:25</td> </tr> <tr> <td>VERIFIED B. ILORI</td> <td></td> <td></td> <td>STATUS LEGEND: T</td> </tr> <tr> <td>VALIDATED</td> <td></td> <td></td> <td></td> </tr> </table>	NAME	SIGNATURE	DATE	SHEET SIZE	DESIGNED T. MASEKO			A4	DRAWN J.SAVAGE			SCALE: 1:25	VERIFIED B. ILORI			STATUS LEGEND: T	VALIDATED				CLIENT: 	ARCHITECTS: IDC House 15 Belgrave Road Belgravia East London 5201 Tel : 043 743 0522 Fax : 043 743 0534 E-mail: info@idcarch.co.za E-mail: idcare@mweb.co.za
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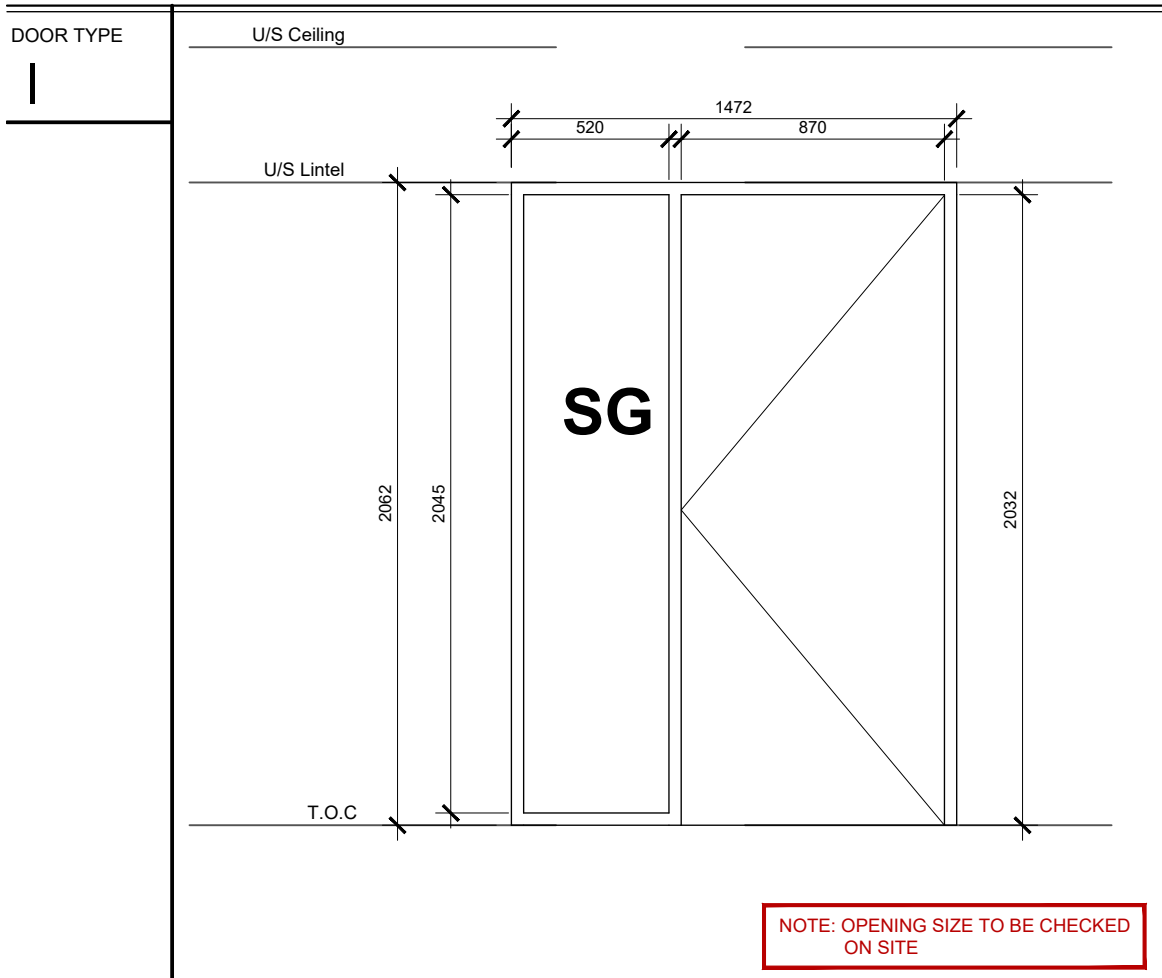
POSITION:	TO ALL DISABLED TOILETS
DOOR TYPE :	1136mm x 2032mm solid timber door
DOOR FINISH:	1 coat primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
FRAME:	1.2mm double rebated frames, to accommodate 813 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
GLAZING:	NONE
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	2

NOTE: <small>Copyright and right of reproduction of this drawing or any portion thereof is reserved. Contractor to verify all levels, heights and dimensions on site and check same against drawing before putting any work in hand. Any discrepancies to be reported to the architect for clarification. Written dimensions take precedence over scaled dimensions. All work is to be carried out in strict accordance with local authorities' requirements, national building regulations and the relevant specifications and/or schedules as may be issued.</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">PROJECT:</td> </tr> <tr> <td colspan="2">MILITARY DISASTER MANAGEMENT CENTRE</td> </tr> <tr> <td colspan="2">EASTERN CAPE</td> </tr> <tr> <td colspan="2" style="text-align: center; font-weight: bold; font-size: 1.2em;">FOR CONSTRUCTION</td> </tr> <tr> <td style="font-size: 0.8em;">DRAWING #</td> <td style="font-size: 0.8em;">STATUS REVISION</td> </tr> <tr> <td style="font-size: 0.8em;">MDM803</td> <td style="font-size: 0.8em;">TENDER -</td> </tr> </table>	PROJECT:		MILITARY DISASTER MANAGEMENT CENTRE		EASTERN CAPE		FOR CONSTRUCTION		DRAWING #	STATUS REVISION	MDM803	TENDER -	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="font-size: 0.7em;">DESIGNED</th> <th style="font-size: 0.7em;">NAME</th> <th style="font-size: 0.7em;">SIGNATURE</th> <th style="font-size: 0.7em;">DATE</th> <th style="font-size: 0.7em;">SHEET SIZE</th> </tr> <tr> <td style="font-size: 0.7em;">DRAWN</td> <td style="font-size: 0.7em;">T. MASEKO</td> <td></td> <td></td> <td style="font-size: 0.7em;">A4</td> </tr> <tr> <td style="font-size: 0.7em;">VERIFIED</td> <td style="font-size: 0.7em;">J. SAVAGE</td> <td></td> <td></td> <td style="font-size: 0.7em;">SCALE:</td> </tr> <tr> <td style="font-size: 0.7em;">VALIDATED</td> <td style="font-size: 0.7em;">B. ILORI</td> <td></td> <td></td> <td style="font-size: 0.7em;">1:25</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.7em;">STATUS Legend:</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td style="font-size: 0.7em;">T</td> </tr> <tr> <td colspan="5" style="font-size: 0.7em;">REVISIONS:</td> </tr> <tr> <td style="font-size: 0.7em;">0</td> <td style="font-size: 0.7em;">.....</td> <td style="font-size: 0.7em;">.....</td> <td></td> <td></td> </tr> </table>	DESIGNED	NAME	SIGNATURE	DATE	SHEET SIZE	DRAWN	T. MASEKO			A4	VERIFIED	J. SAVAGE			SCALE:	VALIDATED	B. ILORI			1:25					STATUS Legend:					T	REVISIONS:					0			CLIENT: 	ARCHITECTS: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">IDC Architects</div> <small>Partnership • Part Employees • Cape Town</small> IDC House 15 Belgrave Road Belgravia East London 5201 Tel : 043 743 0522 Fax : 043 743 0534 E-mail: info@idcarch.co.za E-mail: idc@idcarch.co.za
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POSITION:	TO ALL STRONGROOMS
DOOR TYPE :	Mutual Austen Safes DS1 - 6mm Record Room door with Z1 7-lever security key lock overall size 750 x 1970mm
DOOR FINISH:	1 coat Galvagrip primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
FRAME:	MANUFACTURER'S DETAILS
FRAME FINISH:	MANUFACTURER'S DETAILS
GLAZING:	NONE
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	2

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POSITION:	TO PASSAGES & RECEPTION
DOOR TYPE :	813mm x 2032mm solid timber door
DOOR FINISH:	1 coat primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
FRAME:	timber frame with fixed side light tied into brickwork with galvanized hoop irons every 3 coarses
FRAME FINISH:	1 coat primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
GLAZING:	2045 X 520mm 8mm Clear Float Safety Glass
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	2

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 Work is to be carried out in strict accordance with local authorities' requirements, national building regulations and the relevant specifications and/or schedules as may apply.

PROJECT: LIBRARIAN DISASTER MANAGEMENT CENTRE	
EASTERN CAPE	
FOR CONSTRUCTION	
DRAWING #	STATUS REVISION
MDM808	TENDER -

DESIGNED	NAME	SIGNATURE	DATE	SHEET SIZE
	T. MASEKO			A4
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VERIFIED	B. ILORI			1:25
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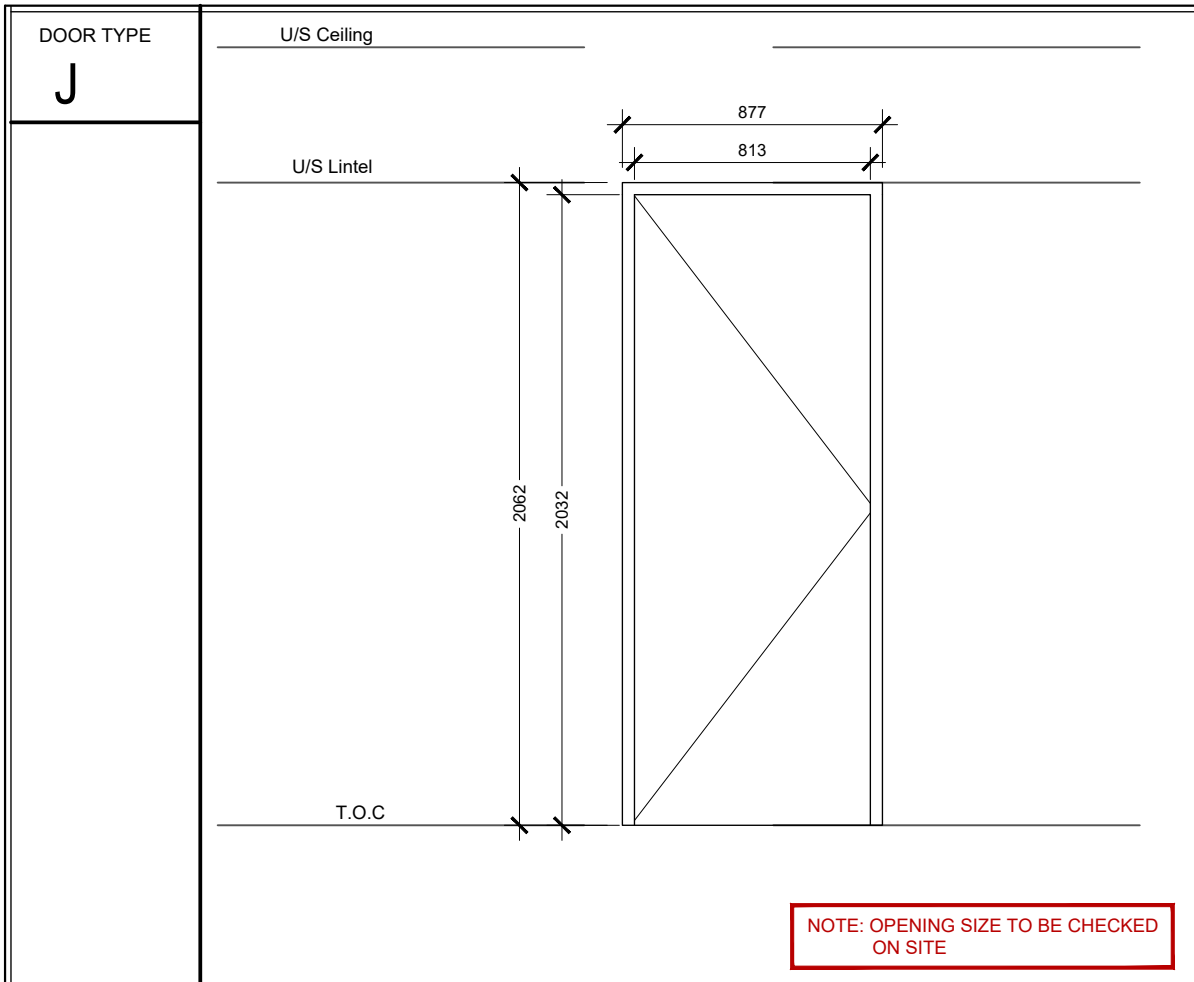
CLIENT:

ARCHITECTS:

IDC Architects
 Cape Town • Port Elizabeth • Cape Town

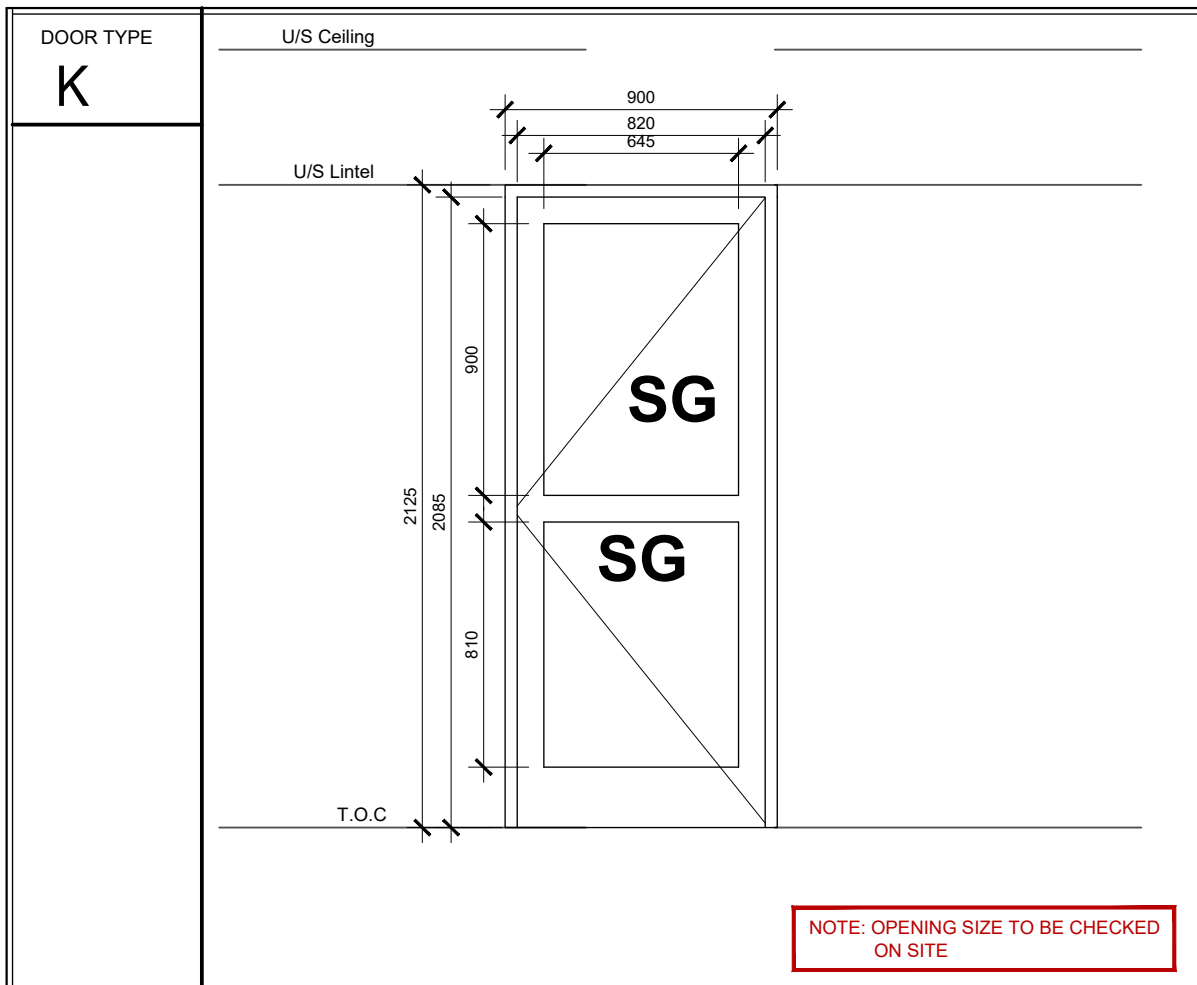
IDC House
 15 Belgrave Road
 Belgravia
 East London
 5201

Tel : 043 743 0522
 Fax : 043 743 0534
 E-mail: info@idcarch.co.za
 E-mail: idc@idcarch.co.za



POSITION:	Service Ducts
DOOR TYPE :	Galvanised Steel Transformer room door
DOOR FINISH:	1 coat Galvagrip primer 1 coat universal undercoat 2 coats plascon velvagio enamel All applied to manufacturers specification Colour: to architects specification
FRAME:	1.2mm double rebated frames, to accommodate 813 x 2032 door leaf
FRAME FINISH:	1 X coat Zinc Chromate primer 2 x coat approved enamel paint
GLAZING:	NONE
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	1

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POSITION:	HALL ENTRANCE
DOOR TYPE :	Bronze aluminium to suit opening size: 900mm (Wide) & 2125mm (High) Wall thickness 2mm
DOOR FINISH:	Bronze powder coated Aluminium
FRAME:	Bronze powder coated aluminium door frame 2mm thick
FRAME FINISH:	Bronze powder coated aluminium door frame
GLAZING:	900 X 645mm & 810 X 645mm 6mm Clear Float Safety Glass
IRONMONGERY:	As per ironmongery schedule
QUANTITY:	1

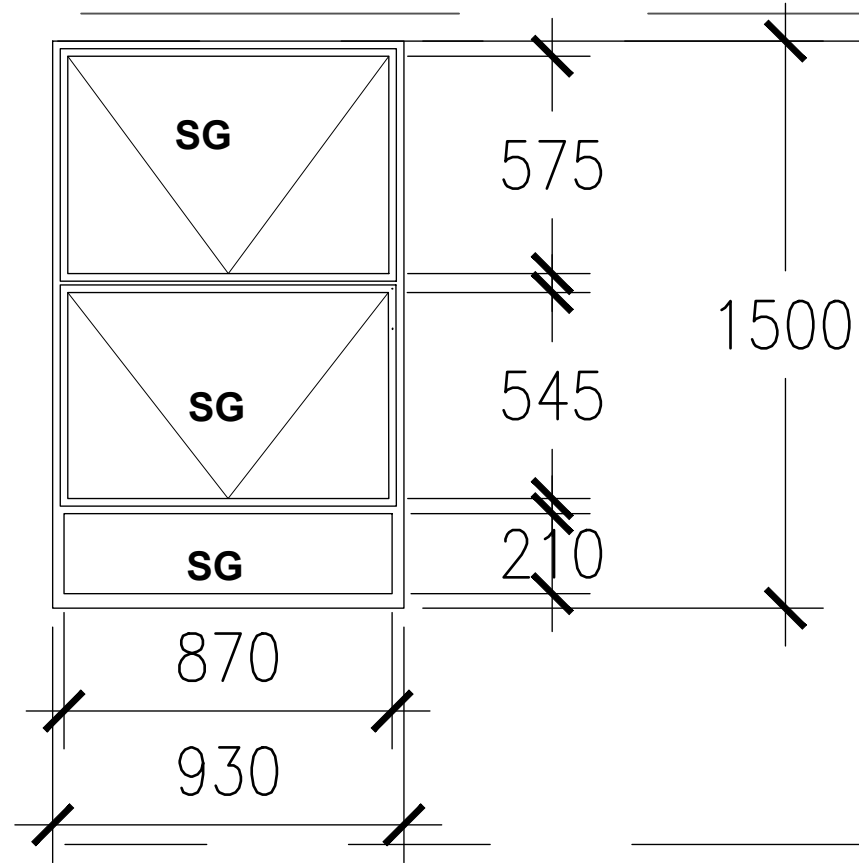
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E-mail: info@idcarch.co.za E-mail: idcarch@mmweb.co.za																																																																	

WINDOW TYPE

D

Window Schedule

NB: OPENING SECTIONS TO HAVE
BURGLAR BARS



NOTE: OPENING SIZE TO BE CHECKED
ON SITE PRIOR TO MANUFACTURING

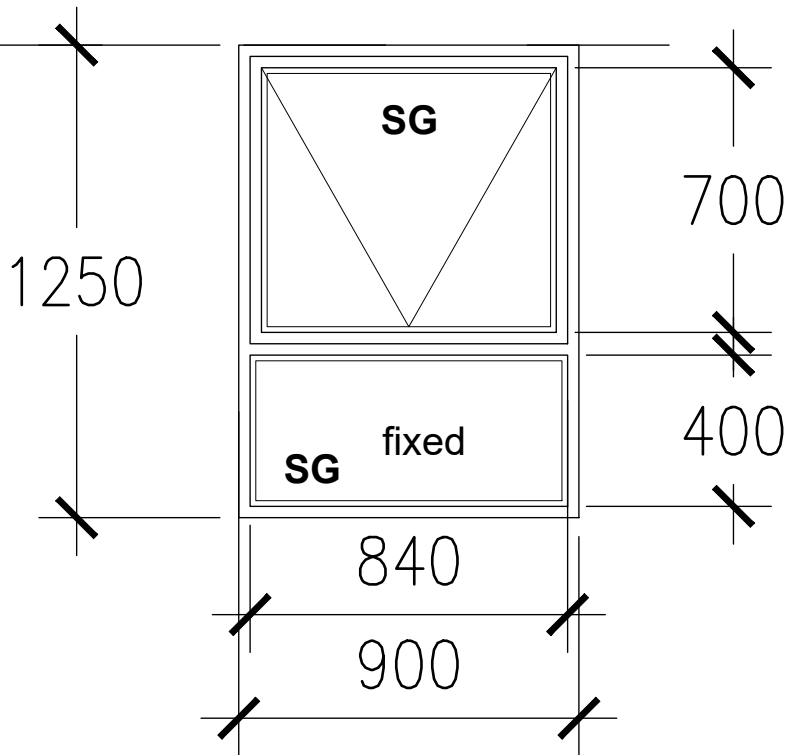
quantity		Total: 5
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
ironmongery	as supplied by manufacturer unless otherwise specified	
glazing	Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.	
finish	Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of no less than 10 years is to be provided against peeling and discolouration	
extras	20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.	

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WINDOW TYPE

G

NB: OPENING SECTIONS TO HAVE
BURGLAR BARS



NOTE: OPENING SIZE TO BE CHECKED
ON SITE PRIOR TO MANUFACTURING

Window Schedule

quantity		Total: 1
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
ironmongery	as supplied by manufacturer unless otherwise specified	
glazing	Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.	
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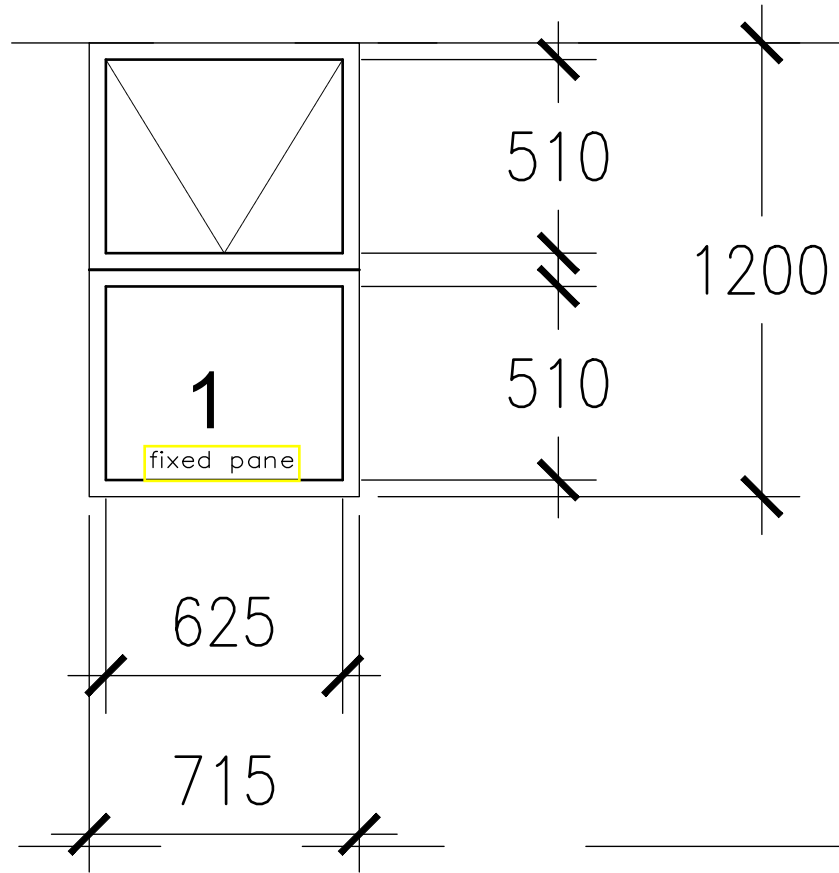
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WINDOW TYPE

H

NB: OPENING SECTIONS TO HAVE
BURGLAR BARS

Window Schedule



NOTE: OPENING SIZE TO BE CHECKED
ON SITE PRIOR TO MANUFACTURING

quantity		Total: 4
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
ironmongery	as supplied by manufacturer unless otherwise specified	
glazing	Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.	
finish	Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of no less than 10 years is to be provided against peeling and discolouration	
extras	20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.	

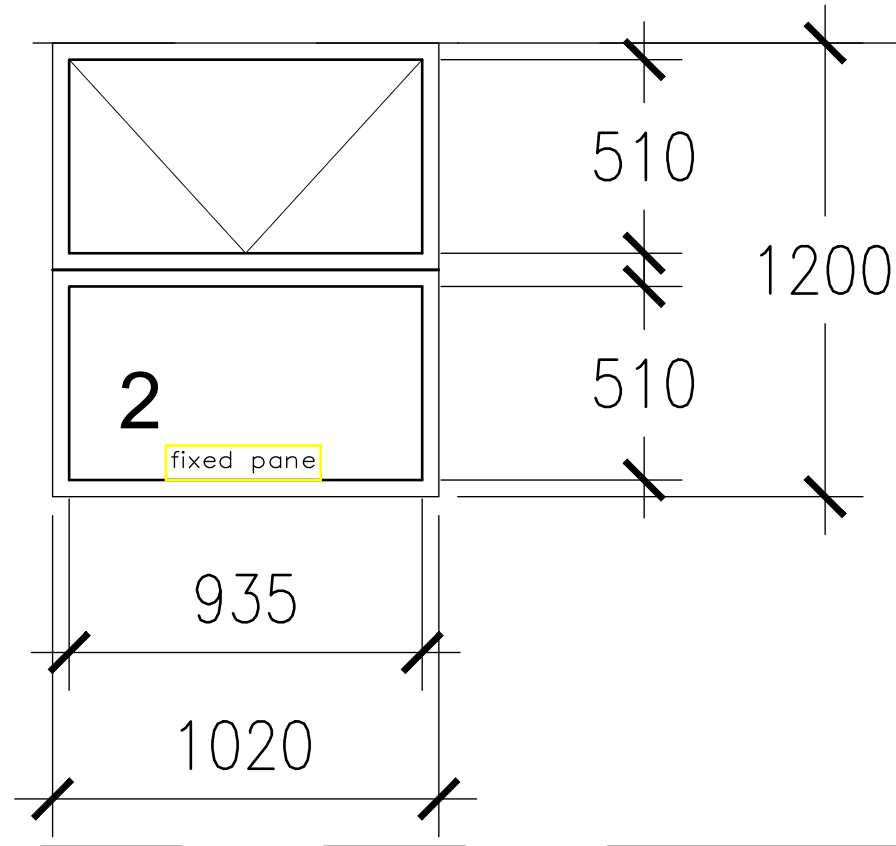
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<p>DRAWING #</p>	<p>STATUS</p>	<p>REVISION</p>																													
MDM/907	TENDER	-																													

WINDOW TYPE

1

Window Schedule

NB: OPENING SECTIONS TO HAVE BURGLAR BARS



NOTE: OPENING SIZE TO BE CHECKED ON SITE PRIOR TO MANUFACTURING

quantity		Total: 22
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
ironmongery	as supplied by manufacturer unless otherwise specified	
glazing	Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.	
finish	Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of no less than 10 years is to be provided against peeling and discolouration	
extras	20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.	

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PROJECT: **MHLONTLO DISASTER MANAGEMENT CENTRE**
 EASTERN CAPE
FOR TENDER
 DBE DRAWING NUMBER:
 DRAWING # MDM/908 STATUS TENDER REVISION -

NAME	SIGNATURE	DATE	SHEET SIZE
DESIGNED T. MASEKO			A3
DRAWN J.SAVAGE			NTS
VERIFIED B. ILORI			
VALIDATED			T

REVISIONS:	NO.	DATE	DESCRIPTION
0

CLIENT:	ARCHITECTS:

IDC Architects
 East London • Port Elizabeth • Cape Town

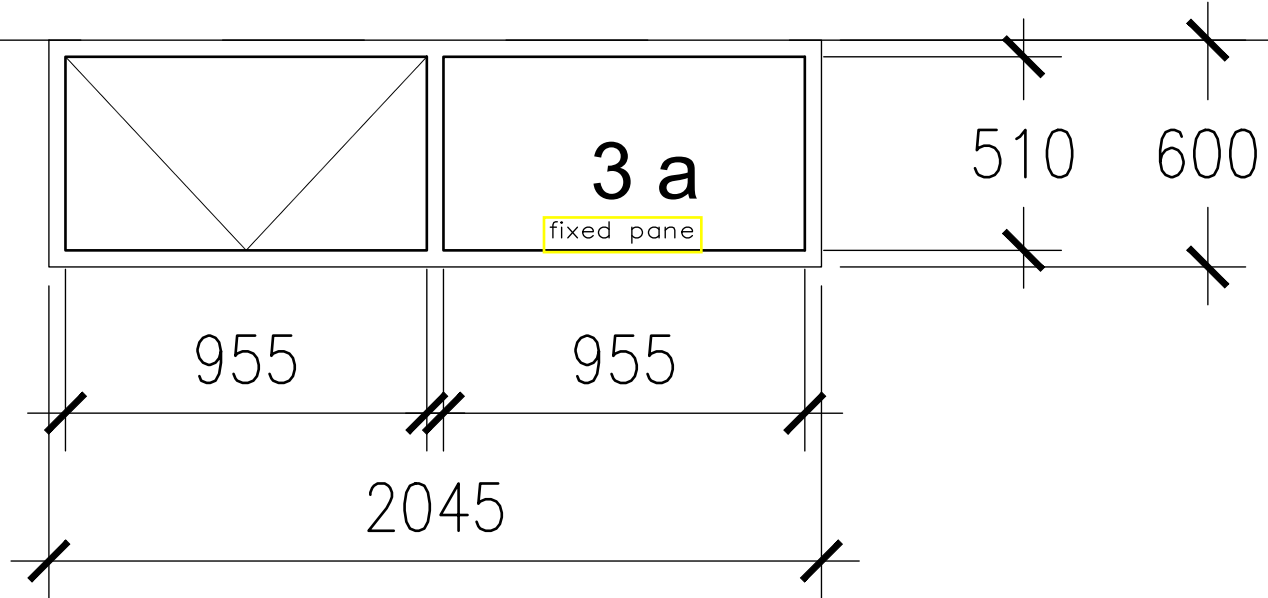
IDC House
 15 Belgrave Road
 Belgravia
 East London
 5201

Tel : 043 743 0522
 Fax : 043 743 0534
 E-mail: info@idcarch.co.za
 E-mail: idcaro@mweb.co.za

WINDOW TYPE

J

NB: OPENING SECTIONS TO HAVE BURGLAR BARS



Window Schedule

NOTE: OPENING SIZE TO BE CHECKED ON SITE PRIOR TO MANUFACTURING

quantity		Total:	2
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).		
ironmongery	as supplied by manufacturer unless otherwise specified		
glazing	Glass to be 6.5mm thick safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.		
finish	Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of no less than 10 years is to be provided against peeling and discolouration		
extras	20mmx4mm Bronze powder coated aluminium flat bar fixed to aluminium window frame spaced at not more than 120mm centres.		

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PROJECT: MILINTLO DISASTER MANAGEMENT CENTRE		
EASTERN CAPE		
FOR TENDER		
DBE DRAWING NUMBER:		
DRAWING #	STATUS	REVISION
MDM/009	TENDER	-

NAME	SIGNATURE	DATE	SHEET SIZE: A3
DESIGNED	T. MASEKO		SCALE: NTS
DRAWN	J.SAVAGE		STATUS LEGEND: T
VERIFIED	B. ILORI		
VALIDATED			

REVISIONS:	
NO	DESCRIPTION
0

CLIENT:

ARCHITECTS:

IDC Architects
JOHANNESBURG • PORT ELIZABETH • CAPE TOWN

IDC House
 15 Belgrave Road
 Belgravia
 East London
 5201

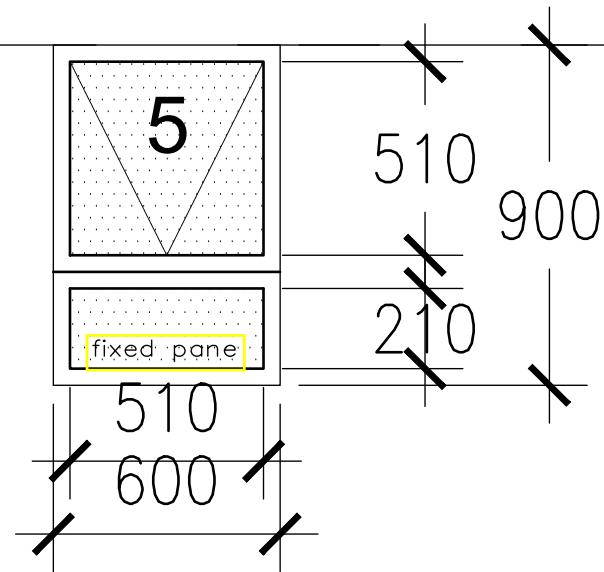
Tel : 043 743 0522
 Fax : 043 743 0534
 E-mail: info@idcarch.co.za
 E-mail: idcarch@jweb.co.za

WINDOW TYPE

M

Window Schedule

NB: OPENING SECTIONS TO HAVE
BURGLAR BARS



NOTE: OPENING SIZE TO BE CHECKED
ON SITE PRIOR TO MANUFACTURING

quantity		Total: 9
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
ironmongery	as supplied by manufacturer unless otherwise specified	
glazing	Glass to be 6.5mm thick obscure safety glass and to comply with SANS PART N - glazing and S.A.B.S 0137.	
finish	Bronze Powder coated aluminium by manufacturer - in conformance with SABS 1578 part 1 and 2 - a guarantee of no less than 10 years is to be provided against peeling and discolouration	
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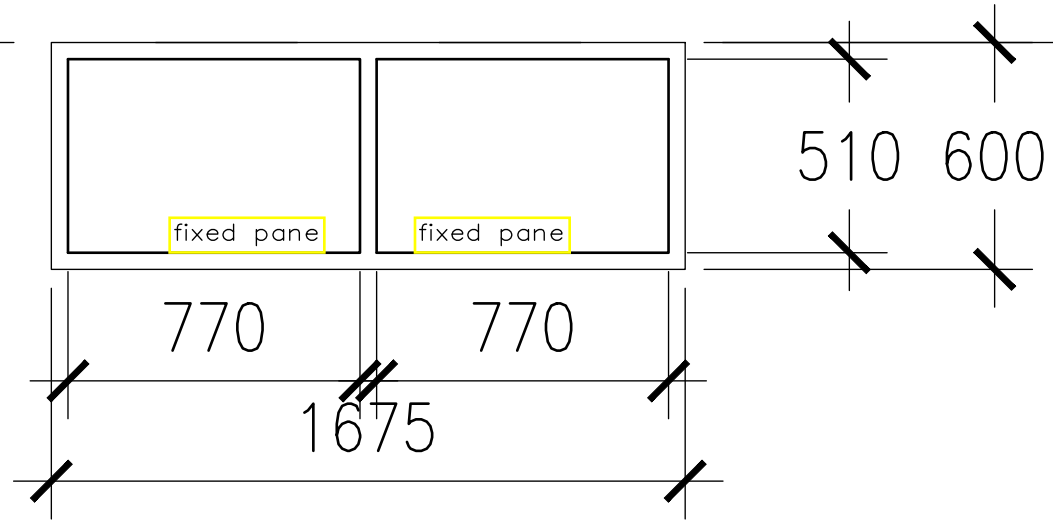
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WINDOW TYPE

0

Window Schedule

NB: OPENING SECTIONS TO HAVE
BURGLAR BARS



NOTE: OPENING SIZE TO BE CHECKED
ON SITE PRIOR TO MANUFACTURING

quantity		Total: 2
frame	Bronze powder coated aluminium frame. Stepped DPC must be built in to stop water penetration. The openings between the blades are glazed as shown on elevation and compliant with both SANS 10400-XA (energy performance) and SANS 613 (air and water filtration/penetration).	
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PROJECT:
MILONTLO DISASTER MANAGEMENT CENTRE
EASTERN CAPE

FOR TENDER

DBE DRAWING NUMBER:
DRAWING # MDM/914 STATUS TENDER REVISION .

DESIGNED	NAME	SIGNATURE	DATE	SHEET SIZE: A3
DESIGNED	T. MASEKO			SCALE: NTS
DRAWN	J.SAVAGE			STATUS LEGEND: T
VERIFIED	B. ILORI			
VALIDATED				

REVISIONS:	
0

CLIENT:

ARCHITECTS:

IDC Architects
East London • Port Elizabeth • Cape Town

IDC House
15 Belgrave Road
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Tel : 043 743 0522
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