



**GAUTENG PROVINCE**  
INFRASTRUCTURE DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA

**DID NUMBER: DID20/11/2022**

## **PROCUREMENT DOCUMENTS**

**FOR**

**SUPPLY AND INSTALLATION OF NEW MOVABLE  
CLASSROOM AND ABLUTION FACILITIES COMPLETE  
INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY,  
SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

**ISSUED BY:**

Gauteng Department of Infrastructure Development  
Private Bag X83  
Marshalltown, 2107  
Johannesburg

**DATE:**

**Nov-22**



# GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA

## PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (GAUTENG DEPARTMENT OF INFRASTRUCTURE)					
BID NUMBER:	DID20/11/2022	CLOSING DATE:	15-Dec-22	CLOSING TIME:	11:00 AM
DESCRIPTION	SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR				
THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).					

BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)

The Department of Infrastructure Development, Tender box, Corner House Building, Corner Commissioner & Sauer Street, Marshalltown  
The bid box is generally open 24 hours a day, 7 days a week.

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					
COIDA REGISTRATION NUMBER					
	TCS PIN:		OR	CSD No:	
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE [TICK APPLICABLE BOX]	Yes <input type="checkbox"/>			B-BBEE STATUS LEVEL SWORN AFFIDAVIT	Yes <input type="checkbox"/>
	No <input type="checkbox"/>				No <input type="checkbox"/>
IF YES, WHO WAS THE CERTIFICATE ISSUED BY?					
AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) AND NAME THE APPLICABLE IN THE TICK BOX	<input type="checkbox"/>	A SWORN AFFIDAVIT SIGNED BY THE COMMISSIONER OF OATH			
	<input type="checkbox"/>	A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)			
		NAME:			
[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?	Yes <input type="checkbox"/> No <input type="checkbox"/> [IF YES ENCLOSE PROOF]	ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	Yes <input type="checkbox"/> No <input type="checkbox"/> [IF YES ANSWER PART B:3 BELOW ]
SIGNATURE OF BIDDER	.....	DATE	
CAPACITY UNDER WHICH THIS BID IS SIGNED (Attach proof of authority to sign this bid; e.g. resolution of directors, etc.)			
TOTAL NUMBER OF ITEMS OFFERED		TOTAL BID PRICE (ALL INCLUSIVE)	
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO:		TECHNICAL INFORMATION MAY BE DIRECTED TO:	
DEPARTMENT/ PUBLIC ENTITY	Department of Infrastructure Development	CONTACT PERSON	Thokozani Dube
CONTACT PERSON	Siya Khumalo	TELEPHONE NUMBER	
TELEPHONE NUMBER	N/A	FACSIMILE NUMBER	
E-MAIL ADDRESS	<a href="mailto:siya.khumalo@gauteng.gov.za">siya.khumalo@gauteng.gov.za</a>	E-MAIL ADDRESS	<a href="mailto:thokoza.dube@gauteng.gov.za">thokoza.dube@gauteng.gov.za</a>

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	YES	<input type="checkbox"/>		NO	<input type="checkbox"/>
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	YES	<input type="checkbox"/>		NO	<input type="checkbox"/>
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	YES	<input type="checkbox"/>		NO	<input type="checkbox"/>
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	YES	<input type="checkbox"/>		NO	<input type="checkbox"/>
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	YES	<input type="checkbox"/>		NO	<input type="checkbox"/>
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

TERMS AND CONDITIONS FOR BIDDING	
<b>1. BID SUBMISSION:</b>	
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.	
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED–(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.	
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.	
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).	
<b>2. TAX COMPLIANCE REQUIREMENTS</b>	
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.	
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.	
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILED THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.	
2.4 BIDDERS SHOULD SUBMIT A TCS PIN TOGETHER WITH THE BID.	
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.	
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.	
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."	

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

SIGNATURE OF BIDDER: .....

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

DATE: .....



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

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 LAERSKOOL FLEUR**

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**INVITATION TO TENDER**

Short description of requirements:	SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR								
Tender number:	DID20/11/2022								
Tender documents available from: 18 Nov 2022	Will only be available on e-Tender publication portal of National Treasury or GPG e-tender portal  https://e-tender.treasury.gov.za or http://e-tenders.gauteng.gov.za								
Price of tender documents:	Bid documents must be downloaded and printed from the above mentioned e-Tender portals (GPG e-Tender or National Treasury e-Tender portal) at bidders cost.								
Closing date:	15-Dec-22								
Closing time:	11:00AM								
Address for submission of tenders:	Department of Infrastructure Development (GDID Tender Box) Corner House Building, Corner Commissioner and Pixley Ka Isaka Seme (Sauer Street) Marshalltown Johannesburg								
Evaluation Steps:	1) Pre-qualification criteria 2) Mandatory and Administration requirements 3) Functionality 4) Price and Preference								
Compulsory pre-bid meeting/site meeting:	<div>Details of the compulsory pre-bid meeting/site meeting is indicated below.</div> <div><b>N/B Tenderers that does not attend the compulsory pre-bid meeting/ site meeting will not be considered for evaluation.</b></div> <table><tr><td>Meeting address:</td><td>236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S 28°21'02"E</td></tr><tr><td>Date of meeting:</td><td>30-Nov-22</td></tr><tr><td>Time of meeting:</td><td>10:00am</td></tr></table>			Meeting address:	236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S 28°21'02"E	Date of meeting:	30-Nov-22	Time of meeting:	10:00am
Meeting address:	236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S 28°21'02"E								
Date of meeting:	30-Nov-22								
Time of meeting:	10:00am								
PRE-QUALIFICATION CRITERIA FOR PREFERENTIAL PROCUREMENT: the tenderers that fail to meet the stated prequalification will be disqualified	<div>Only those tenderers meeting the stipulated pre-qualification criteria stipulated below will be evaluated:</div> <div>Pre-qualification criteria applicable to this tender:</div> <div>Only tenderers who are EMEs or QSEs and have a B-BBEE status level contribution of 1 or 2 will be considered for evaluation. Therefore, bidders must submit a valid B-BBEE certificate issued by a SANAS Accredited Agency or a valid sworn affidavit with the bid document. NB! Sworn affidavits must be valid and signed by the deponent and attested to by a Commissioner of Oaths, a copy of a sworn affidavit will not be accepted and will result in disqualification. Valid sworn affidavits must be accompanied by audited / unaudited annual financial statements or management accounts or a letter from the accountant confirming the financial position for a period of 12 months (whichever applicable depending on the nature of the business) and must not be older than 18 months. (A trust, consortium or JV must submit a valid SANAS accredited consolidated B-BBEE certificate, No sworn affidavit will be accepted for a trust, consortium or JV).</div>								
MANDATORY / COMPULSORY ADMINISTRATIVE REQUIREMENTS (Failure to submit / meet or comply with the following requirements constitute automatically disqualification of tender offer)	<div>Only Tenderers having a Valid CIDB Grade 6GB or higher will be considered for Evaluation. (CIDB Certificates or CRS Numbers must be provided).</div> <div>Only tenderers who attended a compulsory site briefing session will be considered for evaluation (bidders must sign the site briefing attendance register)</div> <div>Submission of completed and signed Form of Offer and Acceptance.</div> <div>Submission of completed and signed SBD forms (SBD 1, SBD 3,1, SBD 4, SBD 6.1)</div> <div>Submission of completed and signed SBD 6.2 and compliant with stipulated local production and content: (failure to submit the fully completed and signed SBD 6.2 and Annexure C will lead to disqualification). Bidders must comply with the stipulated local content thresholds failing which will lead to disqualification. The industries, sectors and sub-sectors designated for local production with minimum local content thresholds, can be obtained / downloaded from the following DTI website, including Local Content Declaration Templates (Annex C, D and E): http://www.thedtic.gov.za/sectors-and-services-2/industrial-development/industrial-procurement/</div>								

	Item	Local Content Threshold
	Polyvinyl chloride (PVC) pipe	100%
	Electrical Cable Products	90%
	Steel products and components for construction	100%
	<b>Submission of valid COIDA certificates or Letter of Good Standing from a licensed compensation insurer</b>	
	<b>In case of a Joint Venture or Consortium, the joint venture or consortium must submit an agreement that must be signed by all parties thereto and must indicate the percentage revenue split between the parties.</b>	

#### ADMINISTRATIVE COMPLIANCE THAT WILL BE APPLICABLE TO THIS PROCUREMENT

Submission of the proof of registration with CSD (CSD registration number (MAAA number or CSD registration report)
Submission of a Tax Compliance Status PIN that will grant a third-party access to the bidder's Tax Compliance Status.
Submission of company registration documents (Founding Statement – CK1 or Certificate of Incorporation – CM1, etc).
Submission of copies of the Identity Document for members / directors / shareholders or owners

<b>Applicable Functionality Criteria:</b> Failure to meet the prescribed minimum functionality of 70 points will result in automatic disqualification	This tender will be evaluated against functionality and only tenderers that obtain the required minimum score indicated in the Tender documents will be further evaluated on price and preference.	
	<b>Bidders must obtain a minimum of 70 points to be considered for further evaluation (price and preference)</b> <b>Total Functionality: 100 points.</b>	
	<b>Functionality Criteria:</b>	
	<b>Functionality Criteria</b> Company Experience Key Staff	<b>Weighting Factor</b> 50 points 50 points

<b>Applicable PPPFA Price and Preference Point System:</b>	80/20
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<b>Work Packages Feasible for subcontracting after award:</b>	Site clearance, excavation, fencing, paving, road marking, electrical works, Mechanical works, etc.
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<b>Enquiries technical:</b>	Mr Thokozani Dube <a href="mailto:Thokozani.Dube@gauteng.gov.za">Thokozani.Dube@gauteng.gov.za</a>
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<b>Enquiries general:</b>	Siyabonga Khumalo <a href="mailto:siya.khumalo@gauteng.gov.za">siya.khumalo@gauteng.gov.za</a>
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<b>Last date for accepting queries is:</b>	<a href="#">7 days before closing date</a>
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#### **Note to tenderers:**

This tender is subject to JBCC edition 6.2, Special Conditions of Contract, Preferential Procurement Policy Framework Act no 5 of 2000 and its Regulations of 2017.



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER:** **DID20/11/2022**

**SERVICE:** **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

## **PART T1: TENDER PROCEDURES**

### **T1.1 Tender Notice and Invitation to Tender**

The Department of Infrastructure Development: Chief Directorate Health Infrastructure of the Gauteng Provincial Government invites tenders for the supply and installation of movable classroom and ablution facilities

It is estimated that proposers should have a CIDB contractor grading designation of 6GB or higher

Only tenderers who are EMEs or QSEs and have B-BBEE status level contribution of 1 will be considered for evaluation. Therefore, bidders must submit copy of a valid B-BBEE certificate issued by a SANAS Accredited Agency or a valid sworn affidavit with the bid document. NB! Sworn affidavit must be signed by deponent and attested by a Commissioner of Oath, a copy of sworn affidavit will not be accepted and will result in disqualification. Sworn affidavit must be accompanied by Annual financial statements that comply with companies act and must not be older than 18 months. (A consortium or JV must submit a valid SANAS accredited consolidated B-BBEE certificate, No sworn affidavit will be accepted for a trust, consortium or JV ).

The successful tenderer must ensure compliance with EPWP requirements during the construction period

The physical address for submission of tender documents is:

Gauteng Department of Infrastructure Development (Tender Box)  
 Ground Floor, Corner House Building  
 Corner Commissioner and Pixley ka Seme Street  
 Marshalltown  
 Johannesburg

Tender documents are only be available on GPG e-tender portal on: <http://e-tenders.gauteng.gov.za> OR National Treasury e-Tender Portal <https://etenders.treasury.gov.za/> . Therefore, bidders must download and print tender documents at their own cost.

Tender documents will be available on e-Tender portal from 18 November 2022. NB! The department does not issue excel BOQ to bidders. Therefore, any request for an excel BOQ will not be entertained

A compulsory clarification meeting with representatives of the Employer will take place at Learschool fleur on 30 November 2022 at 10:00AM (236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S 28°21'02"E)

The closing time and date for receipt of tenders is 11:00AM on the 15 December 2022.

Enquiries: Technical enquires: [thokozani.dube@gauteng.gov.za](mailto:thokozani.dube@gauteng.gov.za) and for General enquires: [siya.khumalo@gauteng.gov.za](mailto:siya.khumalo@gauteng.gov.za)

Telegraphic, telephonic, telex, facsimile, electronic and/or late tenders will not be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

**Tender**

**Part T1: Tender Procedures**

1

**T1.1**

**Tender Notice and Invitation**



**DID NUMBER: DID20/11/2022**

**SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

**Part T1.2 Tender Data**

The conditions of tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Construction Procurement of August 2019 and as amended from time to time. (See [www.cidb.org.za](http://www.cidb.org.za)).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard conditions of tender.

Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

**The additional conditions of tender are:**

**C.3.13.1** Tender offers will only be accepted if:

- a) the tenderer submits a valid Tax Compliance Status (TCS) PIN in the name of the tendering entity as issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations;
- b) the tenderer submits a letter of intent from either an insurance company duly registered in terms of the Short-Term Insurance Act of 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act of 1990 (Act 94 of 1990) undertaking to provide the Performance Bond without any alteration or amendment of the wording of the pro-forma indicated in Part T2.2 of this procurement document;
- c) the tenderer submits an original certificate as proof of his registration with the Construction Industry Development Board in an appropriate contractor grading designation;
- d) the tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of
- e) the tenderer has not:
  - i) abused the Employer's Supply Chain Management System; or
  - ii) failed to perform on any previous contract and has been given a written notice to this effect; and
- f) has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process and persons in the employ of the state are permitted to submit tenders or participate in the contract;
- g) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer;
- h) the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely.

The successful tenderer are encouraged to sub contract portion of the contract value to exempted micro enterprises (EME's) which are at BBBEE Level 1, in accordance with the Preferential Procurement Regulations, 2017, published on 20 January 2017 in terms of section 12 of the Preferential Procurement Policy Framework Act, 2000 (Act No.5 of 2000)

Clause number	Tender Data
C.1.1	The employer is the Gauteng Department of Infrastructure Development: Chief Directorate Education Infrastructure of the Gauteng Provincial Government
C.1.2	<p>The Tender Documents issued by the employer comprise the following documents:</p> <p><b>THE TENDER</b></p> <p><b>Part T1: Tendering procedures</b></p> <p>T1.1 - Tender notice and invitation to tender T1.2 - Tender data</p> <p><b>Part T2: Returnable documents</b></p> <p>T2.1 - List of returnable documents T2.2 - Returnable schedules</p> <p><b>THE CONTRACT</b></p> <p><b>Part C1: Agreements and Contract data</b></p> <p>C1.1 - Form of offer and acceptance C1.2 - Contract data C1.3 - Performance Bond</p>
	<p><b>Part C2: Pricing data</b></p> <p>C2.1 - Pricing Instructions C2.2 - Provisional Bills of Quantities</p> <p><b>Part C3: Scope of work</b></p> <p>C3.1 - Scope of Work</p> <p><b>Part C4: Site information</b></p> <p>C4.1 - Site Information</p> <p><b>ANNEXURES</b></p> <p>A - Occupational Health and Safety Specification B - Baseline Risk Assessment C - Tender drawings</p>
C.1.4	<p>The Employer's Agent is :</p> <p>Name: Address: Tel: Fax: E-mail:</p>
C.2.1	<p>Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for an 6GB or higher class of construction work and to coincide with the proposed tender advertisement, are eligible to have their tenders evaluated.</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> <li>every member of the joint venture is registered with the CIDB;</li> <li>the lead partner has a contractor grading designation in the 5GB class of construction work; or not lower than one level below the required grading designation in the class of works under consideration and possess the required recognition status</li> </ol>

	3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 6GB or higher class of construction work and to coincide with the proposed tender advertisement, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
C.2.2	<b>Compensation of Tendering</b> The tenderer accept that the Employer will not compensate the tenderer for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer satisfy requirements.
C.2.13.3	Parts of each tender offer communicated on paper shall be submitted as an original, and no copies stated in the tender data, with an English translation of any documentation in a language other than English. Hard copies of the Tender document must be submitted unless otherwise stated.
C.2.16	The tender offer validity period is <b>90 Days</b>
C.2.16.3	Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted.
C.2.18	The tenderer must submit to the Employer, names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
C.2.19	Access shall be provided during briefing for the inspections, tests and analysis.

C.2.20	<p>The tenderer is required to submit with his tender a letter of intent from either an insurance company duly registered in terms of the Short-Term Insurance Act of 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act of 1990 (Act 94 of 1990) undertaking to provide the Performance Bond without any alteration or amendment of the wording of the pro-forma indicated in Part T2.2 of this procurement document</p> <p>Performance bond and guarantees (7.5% of the offer inclusive of VAT) Guarantees required in engineering and construction contracts shall not substantially differ from the samples form provided in the contract. Such guarantees shall be fixed guarantee of 7.5% of the contract price and shall be stated in the contract data. Forms of Guarantees acceptable shall be: a. Guarantee issued by an insurance company duly registered in terms of the Insurance Act, 2017 or bank duly registered in terms of the Bank Act,1990: or b. A cash deposit paid in the name of the employer; or c. A payment reduction against the payment certificates. d. Combination of (a) to (c) Note: Performance Bond and Guarantees should be from a registered financial service provide</p> <p>Retention amount will be at 10% of every payment certificate to a maximum of 5% of the contract amount.</p>																				
C.2.23	<p>The tenderer is required to submit with his tender a valid Tax Clearance Certificate and/or a Tax Compliance Status (TCS) PIN in the name of the tendering entity as issued by the South African Revenue Services</p>																				
C.3.4	N/A																				
C.3.11	<p>The procedure for the evaluation of responsive tenders is <b>Method 2</b></p> <p><b><u>Method 2: Functionality, Price and Preference</u></b></p> <p>1) Score functionality, rejecting all tender offers that fail to score the minimum number of points for functionality stated in the Tender data.</p> <p>2) No tender must be regarded as an acceptable tender if it fails to achieve the minimum qualifying score of 70 points for functionality.</p> <p>3) Tenders that have achieved the minimum qualification score for functionality must be evaluated further in terms of the preference points system prescribed in paragraphs 4 and 5 below.</p> <p><b>The apportionment for the evaluation will be:</b></p> <table><tr><td>(a)</td><td>Financial offer</td><td></td><td>80</td></tr><tr><td>(b)</td><td>Preference</td><td></td><td>20</td></tr></table> <p>4 a) The following formula must be used to calculate the points for price in respect of tenders with a Rand value below R50 000 000 (all applicable taxes included):</p> $P_s = 80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$ <p>Where</p> <p><math>P_s</math> = Points scored for comparative financial offer of the submission under consideration</p> <p><math>P_t</math> = Comparative financial offer of the submission under consideration</p> <p><math>P_{min}</math> = Comparative financial offer of lowest acceptable submission</p>	(a)	Financial offer		80	(b)	Preference		20												
(a)	Financial offer		80																		
(b)	Preference		20																		
	<p>The B-BBEE preference point scoring system will be based on the B-BBEE contributor level as determined from submitted valid B-BBEE certificate or valid Sworn Affidavit</p> <p>4b) Points must be awarded to a tender for attaining the B-BBEE status level of contributor in accordance with the table below:</p> <table><tr><th>B-BBEE status level of contributor</th><th>Number of points</th></tr><tr><td>1</td><td>20</td></tr><tr><td>2</td><td>18</td></tr><tr><td>3</td><td>14</td></tr><tr><td>4</td><td>12</td></tr><tr><td>5</td><td>8</td></tr><tr><td>6</td><td>6</td></tr><tr><td>7</td><td>4</td></tr><tr><td>8</td><td>2</td></tr><tr><td>Non-compliant contributor</td><td>0</td></tr></table> <p>4c) A maximum of 20 points may be allocated in accordance with subparagraph 4b)</p>	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
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																				



C.3.11.3	The functionality criteria and maximum score in respect of each of the criteria are as follows:		
	<b>Functionality Criteria</b>  <b>1. COMPANY EXPERIENCE</b>  <u>Demonstrated experience of tendering entity with respect to relevant projects</u>  <u>Demonstrate a proven capacity and capability to complete works of similar nature (Supply, delivery and installation of modular / mobile classroom).</u> <u>(proof of completion certificate should be on the letter head of the client)</u>  <b>Breakdown of points</b>  5 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 5 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms  4 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 4 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms  3 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 3 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms  2 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 2 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms  1 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 1 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms  No completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the project with no corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	<b>Points allocation for sub criteria</b>  50 points  40 points  30 points  20 points  10 points  0 points	<b>Weighting Factor:</b>  50 points
	<b>Note: Submission of completion certificate without corresponding appointment letter / PO or submission of appointment letter/ PO without corresponding completion certificate will not be considered for scoring purposes. Points will be forfeited.</b>		

	<p><b>2. KEY STAFF</b></p> <p>Key staff (assigned personnel) in relation to the scope of work. Attach CV's, copies of qualifications or professional registration (PR). (The department will verify whether the memberships of the submitted professionals are active, inactive memberships will not be accepted)</p> <p><b>Key Staff refers to the following: Any Key staff who does not meet or comply with the stated requirements will score zero point</b></p> <ul style="list-style-type: none"> <li>• 1 Civil/Structural Engineer: Professionally Registered as Engineer with ECSA and must have at-least 5 years' experience</li> <li>• 1 Professionally registered Health and Safety Officer – Certified Registration with the South African Council for the Project and Construction Management Profession (SACPCMP) with at-least 5 years' experience as a health and safety officer</li> <li>• 1 Qualified Electrician with a wireman licence and must have at least 5 years experience</li> <li>• 1 Qualified Plumber registered with Publumber Industry Registration Board (PIRB) and must have at least 5 years experience</li> </ul> <p><b>Note: The team must include a Civil / Structural Engineer, Health &amp; Safety Officer, Qualified Electrician and Qualified Plumber. The team will be deemed incomplete if all the four-key staff are not included. Therefore, the bidder will forfeit all points on key staff. Candidate registration of civil / structural engineer will not be considered for evaluation</b></p>	<p>20 points</p> <p>10 points</p> <p>10 points</p> <p>10 points</p>	<p>50</p>
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	<table><tr><td><b>Total Functionality Points</b></td><td><b>100 Points</b></td></tr><tr><td><b>Minimum Functionality Threshold</b></td><td><b>70 Points</b></td></tr><tr><td colspan="2"></td></tr></table>	<b>Total Functionality Points</b>	<b>100 Points</b>	<b>Minimum Functionality Threshold</b>	<b>70 Points</b>						
<b>Total Functionality Points</b>	<b>100 Points</b>										
<b>Minimum Functionality Threshold</b>	<b>70 Points</b>										
	Further to the above, the following objective criteria will be applied to this tender:										
C.3.13	<p>Tender offers will only be accepted if:</p> <p>Accept the tender offer, if in the opinion of the employer, it does not present any unacceptable commercial risk and only if the tenderer:</p> <ul style="list-style-type: none"><li>a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,</li><li>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,</li><li>c) has the legal capacity to enter into the contract,</li><li>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,</li><li>e) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.</li></ul>										
C.3.17	The number of paper copies of the signed contract to be provided by the employer is one										
	<p>Submission of completed and signed SBD6.2 and compliant with stipulated local production and content: (failure to submit the fully completed and signed SBD 6.2 and Annexure C will lead to disqualification). Bidders must comply with the stipulated local content thresholds failing which will lead to disqualification. The industries, sectors and sub-sectors designated for local production with minimum local content thresholds, can be obtained / downloaded from the following DTI website, including Local Content Declaration Templates (Annex C, D and E): <a href="http://www.thedtic.gov.za/sectors-and-services-2/industrial-development/industrial-procurement/">http://www.thedtic.gov.za/sectors-and-services-2/industrial-development/industrial-procurement/</a></p> <table><tr><th>Item</th><th>Local Content Threshold</th></tr><tr><td>Polyvinyl chloride (PVC) pipe</td><td>100%</td></tr><tr><td>Electrical Cable Products</td><td>90%</td></tr><tr><td>Steel products and components for construction</td><td>100%</td></tr><tr><td colspan="2"></td></tr></table>	Item	Local Content Threshold	Polyvinyl chloride (PVC) pipe	100%	Electrical Cable Products	90%	Steel products and components for construction	100%		
Item	Local Content Threshold										
Polyvinyl chloride (PVC) pipe	100%										
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Steel products and components for construction	100%										



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## **Part T2.1 List of Returnable Documents**

### **1 Returnable Schedules required for tender evaluation purposes (Mandatories)**

The tenderer must complete the following returnable schedules as relevant:

- Invitation to bid (SBD 1)
- Pricing Schedule – Firm Prices (SBD 3.1)
- Declaration of interest (SBD 4)
- Preference Points Claim Form (SBD 6.1)
- Declaration certificate for local production and content (SBD 6.2) and annexure C  
 Submission of a valid B-BBEE certificate issued by a SANAS Accredited Agency or valid sworn affidavit with the bid document. (A consortium or JV must submit a original valid SANAS accredited consolidated B-BBEE certificate, No sworn affidavit will be accepted for JV / Consortium).
- Submission of signed Joint Venture / Consortia agreement in case of Joint Venture / Consortium
- Only tenderers having a valid CIDB grade **6GB** Or higher will be considered for evaluation (CIDB certificate or
- Annual Financial Statement for Sworn Affidavit
- Submission of completed and signed form of offer and acceptance
- Submission of valid COIDA certificates ( Letter of good standing )

### **2 Other documents required for tender evaluation purposes**

The tenderer must complete the following returnable documents

- Proof of Registration with CSD (CSD suppliers' reference (MM number) the CSD report will include the MM number)
- Submission of a Tax Compliance Status PIN that will grant a third-party access to the bidder's Tax Compliance
- Company registration documents (founding statement -CK, Certificate of incorporation CM1, etc)
- Copies of Identity documents for members / directors / shareholders or owners

### **3 Returnable forms / schedules that will be used for tender evaluation purposes and be incorporated into the contract**

The tenderer must complete the following returnable forms / schedules:

- Compulsory Enterprise Questionnaire
- Record of Addenda to tender documents
- Proposed amendments and qualifications
- Certificate of Authority for Joint Ventures/Consortia
- Schedule of Proposed Subcontractors
- Schedule of Exempted Micro Enterprises (EME's) and qualifying small business enterprises (QSE's)

- Schedule of recently completed and current contracts
- List all current contracts not complete at the time
- Schedule of Plant and Equipment
- Evaluation Schedule: Tenderer's Experience
- Evaluation Schedule: Experience of Key Staff
- Tender Evaluation Schedule
- Tax Compliance Status PIN for Tenders
- Proof of Registration with the CIDB
- Form of Intent to Provide a Performance Bond
- Schedule of Materials Offered
- Air Conditioning Material and Equipment Schedule
- Schedule for Imported Materials and Equipment
- Particulars of Electrical Contractor
- Particulars of Specialist Contractors
- Electrical / Mechanical / Security material and equipment schedules

**4 C1.1 Form of Offer and Acceptance**

**5 C1.2 Contract Data (Part two)**

**6 C1.3 Performance Bond**

**7 C2.2 Provisional Bills of Quantities**

**8 C3.1 Scope of Work**



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**1 Returnable forms schedules required for tender evaluation purposes**

**Compulsory Enterprise Questionnaire**

The following particulars must be furnished. In the case of a joint venture, **separate** enterprise questionnaires in respect of each partner must be completed and submitted.

**Section 1: Name of enterprise** .....

**Section 2: VAT registration number, if any** .....

**Section 3: CIDB registration number, if any** .....

**Section 4: Particulars of sole proprietors and partners in partnerships**

Name*	Identity number*	Personal income tax number*

\* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners

**Section 5: Particulars of companies and close corporations**

Company registration number .....

Close corporation number .....

Tax reference number .....

**Section 6: Record in the service of the state**

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last **twelve (12) months** in the service of any of the following:

- |                          |   |                          |  |
|--------------------------|---|--------------------------|--|
| <input type="checkbox"/> | a member of any municipal council                                     | <input type="checkbox"/> | an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| <input type="checkbox"/> | a member of any provincial legislature                                |                          |  |
| <input type="checkbox"/> | a member of the National Assembly or the National Council of Province |                          |  |

☐

a member of the board of directors of  
any municipal entity

☐

a member of an accounting  
authority of any national or  
provincial public entity

☐

an official of any municipality or  
municipal entity

☐

an employee of Parliament or a  
provincial legislature

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

\* Insert separate pages if necessary

#### Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent of a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently or has been within the last 12 months been in the service of any of the following:

☐

a member of any municipal council

☐

an employee of any provincial  
department, national or provincial  
public entity or constitutional  
institution within the meaning of the  
Public Finance Management Act,  
1999 (Act 1 of 1999)

☐

a member of any provincial  
legislature

☐

a member of the National Assembly  
or the National Council of Province

☐

a member of the board of directors of  
any municipal entity

☐

a member of an accounting authority  
of any national or provincial public  
entity

☐

an official of any municipality or  
municipal entity

☐

an employee of Parliament or a  
provincial legislature

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

\* Insert separate pages if necessary

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:

- i) authorizes the employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act, 2004 (Act 12 of 2004);
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

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

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

Enterprise name \_\_\_\_\_





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 CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT  
 LAERSKOOL FLEUR**

### **Record of Addenda to Tender Documents**

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

\* Attach additional pages if more space is required

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

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

Enterprise name \_\_\_\_\_





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### **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/Mrs.....  
 ....., 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.

<b>NAME OF FIRM</b>	<b>ADDRESS</b>	<b>DULY AUTHORISED SIGNATORY</b>
Lead partner  CIDB registration number: .....		Signature ..... Name ..... Designation .....
  CIDB registration number: .....		Signature ..... Name ..... Designation .....
  CIDB registration number: .....		Signature ..... Name ..... Designation .....
  CIDB registration number: .....		Signature ..... Name ..... Designation .....



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### **Schedule of Proposed Subcontractors**

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

If we are awarded a contract we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments.

<b>Name and address of proposed Subcontractor</b>	<b>Description of Work to be executed by the Subcontractor</b>	<b>Previous experience with the Subcontractor</b>

\* attach additional pages if more space is required

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Enterprise name \_\_\_\_\_



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### Schedule of Recently Completed and Current Contracts

List not more than seven contracts completed in the last ten years

Contract title		Employer (name) Place (town)	Reference person		Contract Amount (R million)	Contract Period (months)	Date of Completion*
			Name	Tel			
1							
2							
3							
4							
5							
6							
7							

\*Completed means that a certificate has been issued in terms of a contract by the employer, signifying that the whole of the construction works have reached a state of readiness for occupation or use for the purposes intended, although some minor work may be outstanding

List all current contracts not complete at the time

Contract title		Employer (name) Place (town)	Reference person		Contract Amount (R million)	Contract Period (months)	Date of Commence-ment	Date of Completion*
			Name	Tel				
1								
2								
3								
4								
5								
6								
7								
9								
10								

\*Date when defects liability period commenced (period after completion)

Signed \_\_\_\_\_

Date \_\_\_\_\_

Name \_\_\_\_\_

Position \_\_\_\_\_

Enterprise name \_\_\_\_\_



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### **Schedule for EPWP Projection Spreadsheet**

1. Daily rate payable for unskilled labour: as per EPWP municipal rate of the area.
2. Daily rate payable for semi-skilled labour: as per the contractor's rate.
3. Daily rate payable for skilled labour: as per the contractor's rate.
4. The trades below are identified as labour intensive and the employment yield.

Item	Trade	Trade Value	Employment Yield
1			
2			
3			
4			
5			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
<b>Total :</b>			

Attach additional pages if more space is required

The number of total labourers should be 40% of the total labour of the contract as stipulated in the contract.  
 Any amendments made to the above list post tender is to be approved by the employer



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### **Schedule of Plant and Equipment**

The following are lists of major items of relevant equipment that I / we presently own or lease and will have available for this contract or will acquire or hire for this contract if my / our tender is accepted.

(a) Details of major equipment that is owned by and immediately available for this contract.

Quantity (owned or leased)	Description, size, capacity, etc

\* Attach additional pages if more space is required



(b) Details of major equipment that will be hired or acquired for this contract if my / our Tender is acceptable.

Quantity (hired)	Description, size, capacity, etc

\* Attach additional pages if more space is required

Signed \_\_\_\_\_

Name \_\_\_\_\_

Enterprise name \_\_\_\_\_



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### Evaluation Schedule: Tenderer's Experience

The experience of the tenderer or joint venture partners in the case of an unincorporated joint venture or consortium as apposed to the key staff members / experts in similar projects or similar areas and conditions in relation to the scope of work over the last five years will be evaluated.

Tenderers should very briefly describe his or her experience in this regard and attach a minimum of five completion certificates to this schedule.

The description should be put in tabular form with the following headings:

[illegible]

Functionality Criteria – Tender Rating Matrix		Sub-Criteria Points Allocation	Maximum Points
Company work experience	Demonstrate a proven capacity and capability to complete works of similar nature (Supply, delivery and installation of modular / mobile classroom). (proof of completion certificate should be on the letter head of the client)		50 points
	5 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 5 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	50 Points	
	4 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 4 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	40 Points	
	3 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 3 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	30 Points	
	2 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 2 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	20 Points	
	1 completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with 1 corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	10 Points	
	No completion certificates or final completion certificates relevant to the type of the contract indicating the completion of the projects with no corresponding appointment letters or Purchase orders (POs) on client's letter head of similar projects in Supply, delivery and installation of modular / mobile classrooms	0 Points	

Signed \_\_\_\_\_

Name \_\_\_\_\_

Enterprise name \_\_\_\_\_



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**Evaluation Schedule: Qualification and Experience of Key Staff**

<b>Key Staff Registrations, Qualification &amp; Experience</b>	<b><u>Key Staff Registrations, Qualification: 40 Points</u></b>	<b>50 points</b>
	Key Staff refers to the following: Any Key staff who does not meet or comply with the stated requirements will score zero point	
	• 1 Civil/Structural Engineer: Professionally Registered as Engineer with ECSA and must have at-least 5 years' experience (20 points)	
	• 1 Professionally registered Health and Safety Officer – Certified Registration with the South African Council for the Project and Construction Management Profession (SACPCMP) with at-least 5 years' experience as a health and safety officer (10 points)	
	• 1 Qualified Electrician with a wireman licence and must have at least 5 years experience (10 points)	
	• 1 Qualified Plumber registered with Plumber Industry Registration Board (PIRB) and must have at least 5 years experience (10 points)	
	Note: The team must include a Civil / Structural Engineer, Health & Safety Officer, Qualified Electrician and Qualified Plumber. The team will be deemed incomplete if all the four-key staff are not included. Therefore, the bidder will forfeit all points on key staff. Candidate registration of civil / structural engineer will not be considered for evaluation	

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this schedule are within my personal knowledge and are to the best of my belief both true and correct.

Signed \_\_\_\_\_

Name \_\_\_\_\_

Enterprise name \_\_\_\_\_



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER**            **DID20/11/2022**

**SERVICE:**                **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

### **Certificate of Attendance at Clarification Meeting**

This is to certify that

..... (Enterprise name)

of

.....

..... (address)

was represented by the person(s) named below at the compulsory meeting held for all Tenderers at .....

..... (location)

On ..... (date), starting at ..... hrs

I have made myself familiar with all site conditions likely to influence the work and all aspects that could influence either the cost or the construction of the service.

I further certify that I am satisfied with the description of the work and explanations given at the meeting and that

I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Particulars of person(s) attending the meeting

Name .....

Capacity .....

Name .....

Capacity .....

Attendance of the above person(s) at the meeting is confirmed by the Project Manager, namely

Name .....

Capacity .....





**DID NUMBER**      **DID20/11/2022**

**SERVICE:**            **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

### **Tax Compliance Status PIN for Tenders**

The tenderer is to affix to this page:

A Tax Compliance Status PIN that will grant a third-party access to the bidder's Tax Compliance Status. ☐

**Note:**

No contract will be awarded to bidder whose tax matters are not in order.



**DID NUMBER**            **DID20/11/2022**

**SERVICE:**                **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

**Proof of Registration with the CIDB**

The tenderer is to affix to this page:

CIDB Certificates or CRS Numbers must be provided

**Notes:**

- 1            The Department will verify the validity of the certificate on the CIDB's website.
2.           No contract will be awarded to bidder whose CIDB status is not in order





**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER**      **DID20/11/2022**

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Returnable Schedules that will be used for tender evaluation purposes and be incorporated into the contract

### Particulars of Electrical Contractor

Name of Electrical Contractor .....

Address .....

.....

Electrical Contractor registration number at the Electrical Contracting Board of S.A .....

Signed .....

Name .....

Enterprise name .....



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER**            **DID20/11/2022**

**SERVICE:**                **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION  
 FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF  
 ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

### **Particulars of Specialist Contractors**

Name of Specialist Contractor .....

Address .....

.....

Signed \_\_\_\_\_

Name \_\_\_\_\_

Enterprise name \_\_\_\_\_



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER**      **DID20/11/2022**

**SERVICE:**      **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

**Electrical / Mechanical / Security Material and Equipment Schedules**

Item	Material	Make or Trade Name	Country of Origin
1	Distribution Boards		
2	Circuit breakers 1P, 2P, 3P		
3	On load isolators without trips		
4	Contactors 1P, 2P, 3P		
5	Earth leakage relays 1 & 3 phase		
6	Voltmeter		
7	Maximum demand ammeter		
8	Daylight sensitive switch		
9	Time switch		
10	Conduit		
11	Conduit boxes		
12	Power skirting		
13	Surface switches		
14	16A flush socket outlets		
15	16A surface socket outlets		
16	Lamps		
	Fluorescent Lamps		
	MB Lamps		
	HPS Lamps		
17	PVCA cable		
18	Cable trays		
19	Luminaires		
	Type A		
	Type B		
	Type C		
	Type D		
	Type E		

**Note:** Only one manufacturer's name to be inserted for each item



**GAUTENG PROVINCE**  
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 REPUBLIC OF SOUTH AFRICA

**DID NUMBER**      **DID20/11/2022**

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**Schedule for Imported Materials and Equipment**

Item	Material / Equipment	Rand (R) excluding Vat	Exchange Rate
1			
2			
3			
4			
5			
6			

Attach additional pages if more space is required

The tenderer shall list imported items, materials and / or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only. Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Project Manager within three (3) weeks of the starting date. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc shall be allowed.

These net amounts will be adjusted as follows:

**FORMULA FOR ADJUSTING IMPORTED MATERIAL / EQUIPMENT TO CURRENCY**

The net amount to be added to or deducted from the contract sum:

$$A = \frac{V (Z - 1)}{Y}$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item (material or equipment)

Y = official exchange rate at the closing date of tender submission

Z = official exchange rate on the date of payment

Signed \_\_\_\_\_

Name \_\_\_\_\_

Enterprise name \_\_\_\_\_

## PRICING SCHEDULE – FIRM PRICES (PURCHASES)

**NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED**

**IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT**

Name of bidder.....	Bid number.....
Closing Time : 11:00AM	Closing date: .....

OFFER TO BE VALID FOR 90 DAYS FROM THE CLOSING DATE OF BID.

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY ** (ALL APPLICABLE TAXES INCLUDED)
-------------	----------	-------------	---

-	Required by:		.....
-	At:		.....
			.....
-	Brand and model		.....
-	Country of origin		.....
-	Does the offer comply with the specification(s)?		*YES/NO
-	If not to specification, indicate deviation(s)		.....
-	Period required for delivery		.....
			*Delivery: Firm/not firm
-	Delivery basis		.....

**Note:** All delivery costs must be included in the bid price, for delivery at the prescribed destination

\*\* "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

## BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

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

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

### 2. BIDDER'S DECLARATION

2.1. Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest<sup>1</sup> in the enterprise, employed by the state?

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

Full Name	Identity Number	Name of State institution

<sup>1</sup> the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2. Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

**YES/NO**

2.2.1 If so, furnish particulars:

.....

2.3. Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

-----

2.3.1 If so, furnish particulars:

.....

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

### **3. DECLARATION**

3.1. I have read and I understand the contents of this disclosure;

3.2. I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

3.3. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.

3.4. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

3.5. 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.

---

<sup>2</sup> Joint Venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

3.6. There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

3.7. 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.

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

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

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder



## SBD 6.1

### PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

**NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.**

#### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value below R50 000 000 (all applicable taxes included).

1.2

1.3 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
<b>Total points for Price and B-BBEE must not exceed</b>	<b>100</b>

1.5 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

#### 2. DEFINITIONS

(a) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;

(b) **"B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

(c) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or tenders;

(d) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);

(e) **"EME"** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

(f) **"functionality"** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.

(g) **"prices"** includes all applicable taxes less all unconditional discounts;

(h) “proof of B-BBEE status level of contributor” means:

- 1) B-BBEE Status level certificate issued by an authorized body or person;
- 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
- 3) Any other requirement prescribed in terms of the B-BBEE Act;

(i) “QSE” means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;

(j) “rand value” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

### 3. POINTS AWARDED FOR PRICE

#### 3.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

80/20

$P_s = 80$

$80 \left( 1 - \frac{P_t - P_{min}}{P_{min}} \right)$

Where

$P_s$  = Points scored for price of bid under consideration

$P_t$  = Price of bid under consideration

$P_{min}$  = Price of lowest acceptable bid

### 4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

4.1 In terms of Regulation 6 (2) and 7 (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:

B-BBEE Status Level of Contributor	Number of points (80/20 system)
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-compliant contributor	0

### 5. BID DECLARATION

5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

### 6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

6.1 B-BBEE Status Level of Contributor: = .....(maximum of 20 points)  
.....

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

**7. SUB-CONTRACTING**

7.1 Will any portion of the contract be sub-contracted?  
(Tick applicable box)

YES		NO	
-----	--	----	--

7.1.1 If yes, indicate:

i) What percentage of the contract will be subcontracted.....%

ii) The name of the sub-contractor(s).....

.....

.....

.....

.....

iii) The B-BBEE status level of the sub-contractor.....

iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

YES		NO	
-----	--	----	--

v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME	QSE
Black people	√	√
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
<b>OR</b>		
Any EME		
Any QSE		

**8. DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:.....

8.2 VAT registration number:.....

8.3 Company registration number:.....

**8.4 TYPE OF COMPANY/ FIRM**

- ☐ Partnership/Joint Venture / Consortium
- ☐ One person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[Tick applicable box]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

.....  
.....  
.....

**8.6 COMPANY CLASSIFICATION**

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[Tick applicable box]

8.7 Total number of years the company/firm has been in business:.....

8.8

I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution.

WITNESSES

- 1. ....
- 2. ....

.....  
SIGNATURE(S) OF BIDDERS(S)

DATE:

## DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

### 1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such tenders with the specific bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the bid as indicated in paragraph 4.1 below.

**The SABS approved technical specification number SATS 1286:2011 is accessible on [http://www.thedti.gov.za/industrial development/ip.jsp](http://www.thedti.gov.za/industrial%20development/ip.jsp) at no cost.**

- 1.6. A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation;
2. **The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Polyvinyl chloride (PVC) pipe	100%
Electrical Cable Products	90%
Steel products and components for construction	100%

3. Does any portion of the goods or services offered have any imported content?  
(Tick applicable box)

YES		NO	
-----	--	----	--

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the bid.

The relevant rates of exchange information is accessible on [www.reservebank.co.za](http://www.reservebank.co.za)

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

<b>Currency</b>	<b>Rates of exchange</b>
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

**LOCAL CONTENT DECLARATION**  
**(REFER TO ANNEX B OF SATS 1286:2011)**

**LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)**

**IN RESPECT OF BID NO. ....**

**ISSUED BY:** (Procurement Authority / Name of Institution):  
.....

NB

1           The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.

2           Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on <http://www.thdti.gov.za/industrialdevelopment/ip.jsp>. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below. Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, ..... (full names),

do hereby declare, in my capacity as .....

of .....(name of bidder entity),  
the following:

(a)       The facts contained herein are within my own personal knowledge.

(b)       I have satisfied myself that:

the goods/services/works to be delivered in terms of the above-specified bid  
(i) comply with the minimum local content requirements as specified in the bid,  
and as measured in terms of SATS 1286:2011; and

(c)       The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:



Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

**If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above.**

**The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.**

(d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

<b>SIGNATURE:</b> _____	<b>DATE:</b> _____
<b>WITNESS No. 1</b> _____	<b>DATE:</b> _____
<b>WITNESS No. 2</b> _____	<b>DATE:</b> _____

## Annex C

## Local Content Declaration - Summary Schedule

(C1) Tender No.  
 (C2) Tender description:  
 (C3) Designated product(s)  
 (C4) Tender Authority:  
 (C5) Tendering Entity name:  
 (C6) Tender Exchange Rate:  
 (C7) Specified local content %

Gauteng Department of Infrastructure Development

 USD  EU  GBP 

**Note:** VAT to be excluded from all calculations

## Calculation of local content

Tender item no's	List of items	Tender price each (excl VAT)	Exempted imported value per unit	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
				(C10-C11)		(C12-C13)	C14/C12
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)

## Tender summary

Tender Qty	Total tender value	Total exempted imported content	Total Imported content
	(C10xC16)	Annex D D18	Annex D
(C16)	(C17)	(C18)	(C19)

(C20) Total tender value

(C21) Total Exempt imported content

(C22) Total Tender value net of exempt imported content (C20-C21)

(C23) Total Imported content

(C24) Total local content (C22-C23)

(C25) Average local content % of tender (C24/C22)

Signature of tenderer from Annex B

 signature \_\_\_\_\_  
 Date: \_\_\_\_\_

## Annex D

### Imported Content Declaration - Supporting Schedule to Annex C

(D1)	Tender No.		<b>Note:</b> VAT to be excluded from all calculations
(D2)	Tender description:		
(D3)	Designated Products:		
(D4)	Tender Authority:	eng Department of Infrastructure Develop	
(D5)	Tendering Entity name:		
(D6)	Tender Exchange Rate:	<div>USD</div> <div>EU</div> <div>GBP</div>	

### A. Exempted imported content

A. Exempted imported content				Calculation of imported content						Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
						(D11xD12)			(D13+D14+D15)		(D16xD17)
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value											

(D19) Total exempt imported value

**This total must correspond with  
Annex C - C 21**

### B. Imported directly by the Tenderer

<b>B. Imported directly by the Tenderer</b>				<b>Calculation of imported content</b>						<b>Summary</b>	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D24xD25)	(D27)	(D28)	(D26+D27+D28)	(D30)	(D29x D30) (D31)
										(D32) Total imported value by tenderer	

(D32) Total imported value by tenderer

**C. Imported by a 3rd party and supplied to the Tenderer**

[illegible]

(D45) Total imported value by 3rd party

#### D. Other foreign currency payments

D. Other foreign currency payments			Calculation of foreign currency payments		Summary of payments
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments
					(D49xD50)
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)

(D52) Total of foreign currency payments declared by tenderer and/or 3rd party

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

This total must correspond with  
Annex C - C23

Signature of tenderer from Annex B

Date: \_\_\_\_\_

## Annex E

## Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	Gauteng Department of Infrastructure Development
(E5)	Tendering Entity name:	

**Note:** VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	(E9) Total local products (Goods, Services and Works)		

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C -  
C24



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER: DID20/11/2022**

**SERVICE: SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

## **Part C1.1 Form of Offer and Acceptance**

### **Offer**

The employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of **SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FEUR.**

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

By the representative of the tenderer, deemed to be duly authorized, signing this part of 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) ..... Date .....

Name(s) ..... .....

Capacity ..... .....

**for the tenderer** ..... .....

Name and .....  
 signature

of witness ..... Date .....

## 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 C1: Agreements and Contract Data, (which includes this agreement)
- Part C2: Pricing Data
- Part C3: Scope of Work
- Part C4: Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as 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.

The tenderer shall within one week after receiving a letter of intent to award, including the schedule of deviations (if any), contact the employer's contracts manager (whose details are given in the letter of intent) 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. Failure to fulfill 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 copy of the original document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s) ..... Date .....

Name(s) ..... .....

Capacity ..... .....

### for the

**employer** Gauteng Department of Infrastructure Development  
17th Floor  
Corner House Building  
Corner Commissioner and Sauer Streets  
Marshalltown  
Johannesburg

Name and .....  
signature  
of witness .....

Date .....

## 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 become 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.
- 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 ..... |
|   | Details ..... |
|   | .....         |
| 5 | Subject ..... |
|   | Details ..... |
|   | .....         |

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

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



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER: DID20/11/2022**

**SERVICE: SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

## Part C1.2 Contract Data

The National Treasury Government Procurement General Conditions of Contract will be applicable to all bids, contracts and orders for sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property.

The Conditions and Special Conditions of Contract for construction work are clauses 1 to 30 of the JBCC Series 2000 Principal Building Agreement (Edition 6.2 of May 2018) published by the Joint Building Contracts Committee with additions, deletions and alterations (SCC) as indicated in the Contract Data. Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057-3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312003;)

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

Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies.

**The additions, deletions and alterations to the JBCC Principal Agreement are:**

Clause	Additions, deletions and alterations
1.1	<p>Replace the following definitions in <b>DEFINITIONS AND INTERPRETATIONS</b> with the following wording:</p> <p><b>AGREEMENT</b> means the completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and JBCC® contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representatives of the parties</p> <p><b>BILLS OF QUANTITIES</b> means the document drawn up in accordance with the Pricing Instructions contained in the Pricing Data.</p> <p><b>CONSTRUCTION PERIOD</b> means the period commencing on the date of possession of the site by the contractor and ending on the date of practical completion.</p>



	<p><b>CONTRACT DOCUMENTS</b> means the Agreement and all documents referenced therein.</p> <p><b>CONTRACT DRAWINGS</b> means the drawings listed in the Scope of Work.</p> <p><b>CONTRACT SUM</b> means the total of prices in the Form of Offer and Acceptance.</p> <p><b>SCHEDULE</b> means the variables listed in the Contract Data.</p> <p><b>INTEREST</b> means 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), calculated as simple interest, in respect of debts owing to the State, and will be the 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), calculated as simple interest, in respect of debts owing by the State</p> <p><b>PRINCIPAL AGENT</b> means the person or entity appointed by the employer and named in the contract data for organs of state and other public sector bodies. 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 the employer's representative as named in the contract data for organs of state and other public sector bodies</p>
3.3	<p>Amend 3.3 to read as follows:</p> <p>This agreement shall come into force on the date as stated on the Form of Offer and Acceptance and continue to be of force and effect until the end of the latent defects liability period [22.0] notwithstanding termination [29.0] or the certification of final completion [21.0] and final payment [25.0]</p>
6.7	<p>Add the following as 6.7:</p> <p>In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent. The employer shall sign all documents in relation to clauses 4.2, 14.1.2, 14.1.4, 14.4.1, 14.6, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12 and 28.4</p>
9.0	<p>9.2.7: Add the following to the end of the first sentence: ".... due to no fault of the contractor"</p>
10.0	<p>Add the following as 10.1.5.1:</p> <p><b>High Risk Insurance</b></p> <p>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 sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply</p> <p><b>10.1.5.1.1 Damage to the works</b></p> <p>The contractor shall, from the date of possession of the site 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</p> <p>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</p> <p><b>10.1.5.1.2 Injury to persons or loss of or damage to property.</b></p> <p>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</p> <p>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 property, 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</p>

10.1.5.1.3	It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the date of possession of the site, but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so
10.1.5.1.4	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 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. 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
11.0	Amend 11.10 to read as follows: There shall be no lien or right of retention held by any contractor in respect of the works executed on site
12.1.5	Amend 12.1.5 to read as follows: Give possession of the site to the contractor within ten (10) working days of the contractor complying with the terms of 12.2.22
12.2.2	Not applicable
12.2.22	Add the following as 12.2.22: Within fifteen (15) working days of the date of the agreement submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)
19.5	Delete the words "subject to the contractor's lien or right of continuing possession of the works where this has not been waived"
21.13	Add the following as 21.13: The ninety (90) calendar days defects liability period for the works [21.1] is replaced with a period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements
25.7.5	Not applicable
25.10	Delete the words "and/or compensatory interest"
25.14.2	Not applicable
27.1.5	Not applicable
29.1.3	Add the following after 29.1.3: or where ...
29.1.4	The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa
29.1.5	The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract

**The additions to the JBCC Principal Agreement are:**

Clause	Additions
A1	<p><b>A1.0 Labour intensive component of the works</b></p> <p><b>A1.1 Payment of labour-intensive component of the works.</b></p> <p>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.</p> <p><b>A1.2 Applicable labour laws</b></p> <p>The Ministerial Determination, Special Public Works Programme, 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.</p> <p><b>1 Introduction</b></p> <p>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.</p>

A1	<p>1.2 In this document –</p> <p>(a) “department” means any department of the State, implementing agent or contractor;</p> <p>(b) “employer” means any department, implementing agency or contractor that hires workers to work in elementary occupations on a SPWP;</p> <p>(c) “worker” means any person working in an elementary occupation on a SPWP;</p> <p>(d) “elementary occupation” means any occupation involving unskilled or semi-skilled work;</p> <p>(e) “management” means any person employed by a department or implementing agency to administer or execute an SPWP;</p> <p>(f) “task” means a fixed quantity of work;</p> <p>(g) “task-based work” means work in which a worker is paid a fixed rate for performing a task;</p> <p>(h) “task-rated worker” means a worker paid on the basis of the number of tasks completed</p> <p>(i) “time-rated worker” means a worker paid on the basis of the length of time worked.</p> <p><b>2 Terms of Work</b></p> <p>2.1 Workers on a SPWP are employed on a temporary basis.</p> <p>2.2 A worker may NOT be employed for longer than 24 months in any five-year cycle on a SPWP.</p> <p>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.</p> <p><b>3 Normal Hours of Work</b></p> <p>3.1 An employer may not set tasks or hours of work that require a worker to work–</p> <p>(a) more than forty hours in any week;</p> <p>(b) on more than five days in any week; and</p> <p>(c) for more than eight hours on any day.</p> <p>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.</p> <p>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.</p> <p><b>4 Meal Breaks</b></p> <p>4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.</p> <p>4.2 An employer and worker may agree on longer meal breaks.</p>
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A1	<p>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.</p> <p>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.</p> <p><b>5 Special Conditions for Security Guards</b></p> <p>5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.</p> <p>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.</p> <p><b>6 Daily Rest Period</b></p> <p>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.</p> <p><b>7 Weekly Rest Period</b></p> <p>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").</p> <p><b>8 Work on Sundays and Public Holidays</b></p> <p>8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.</p> <p>8.2 Work on Sundays is paid at the ordinary rate of pay.</p> <p>8.3 A task-rated worker who works on a public holiday must be paid –</p> <ul style="list-style-type: none"> <li>(a) the worker's daily task rate, if the worker works for less than four hours;</li> <li>(b) double the worker's daily task rate, if the worker works for more than four hours.</li> </ul> <p>8.4 A time-rated worker who works on a public holiday must be paid –</p> <ul style="list-style-type: none"> <li>(a) the worker's daily rate of pay, if the worker works for less than four hours on the public holiday;</li> <li>(b) double the worker's daily rate of pay, if the worker works for more than four hours on the public holiday</li> </ul> <p><b>9 Sick Leave</b></p> <p>9.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.</p>
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A1	<p>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.</p> <p>9.3 A worker may accumulate a maximum of twelve days' sick leave in a year.</p> <p>9.4 Accumulated sick-leave may not be transferred from one contract to another contract.</p> <p>9.5 An employer must pay a task-rated worker the worker's daily task rate for a day's sick leave.</p> <p>9.6 An employer must pay a time-rated worker the worker's daily rate of pay for a day's sick leave.</p> <p>9.7 An employer must pay a worker sick pay on the worker's usual payday.</p> <p>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 –</p> <p>(a) absent from work for more than two consecutive days; or</p> <p>(b) absent from work on more than two occasions in any eight-week period.</p> <p>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.</p> <p>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.</p> <p><b>10 Maternity Leave</b></p> <p>10.1 A worker may take up to four consecutive months' unpaid maternity leave.</p> <p>10.2 A worker is not entitled to any payment or employment-related benefits during maternity leave.</p> <p>10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.</p> <p>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.</p> <p>10.5 A worker may begin maternity leave –</p> <p>(a) four weeks before the expected date of birth; or</p> <p>(b) on an earlier date –</p> <p>(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</p> <p>(ii) if agreed to between employer and worker; or</p> <p>(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.</p>
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A1	<p>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.</p> <p>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.</p> <p><b>11 Family responsibility leave</b></p> <p>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 -</p> <ul style="list-style-type: none"> <li>(a) when the employee's child is born;</li> <li>(b) when the employee's child is sick;</li> <li>(c) in the event of a death of – <ul style="list-style-type: none"> <li>(i) the employee's spouse or life partner;</li> <li>(ii) employee's parent, adoptive parent, grandparent, child, adopted child, grandchild or sibling.</li> </ul> </li> </ul> <p><b>12 Statement of Conditions</b></p> <p>12.1 An employer must give a worker a statement containing the following details at the start of employment –</p> <ul style="list-style-type: none"> <li>(a) the employer's name and address and the name of the SPWP;</li> <li>(b) the tasks or job that the worker is to perform; and</li> <li>(c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;</li> <li>(d) the worker's rate of pay and how this is to be calculated;</li> <li>(e) the training that the worker will receive during the SPWP.</li> </ul> <p>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.</p> <p>12.3 An employer must supply each worker with a copy of these conditions of employment.</p> <p><b>13 Keeping records</b></p> <p>13.1 Every employer must keep a written record of at least the following –</p> <ul style="list-style-type: none"> <li>(a) the worker's name and position;</li> <li>(b) in the case of a task-rated worker, the number of tasks completed by the worker;</li> <li>(c) in the case of a time-rated worker, the time worked by the worker;</li> <li>(d) payments made to each worker.</li> </ul> <p>13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.</p>
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A1	<p><b>14 Payment</b></p> <p>14.1 The period within which payments are made is within 30 calendar days after the receipt of the agree invoice/claim by the department.</p> <p>14.2 A task-rated worker will only be paid for tasks that have been completed.</p> <p>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.</p> <p>14.4 A time-rated worker will be paid at the end of each month.</p> <p>14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.</p> <p>14.6 Payment in cash or by cheque must take place –</p> <ul style="list-style-type: none"> <li>(a) at the workplace or at a place agreed to by the worker;</li> <li>(b) during the worker's working hours or within fifteen minutes of the start or finish of work;</li> <li>(c) in a sealed envelope which becomes the property of the worker.</li> </ul> <p>14.7 An employer must give a worker the following information in writing –</p> <ul style="list-style-type: none"> <li>(a) the period for which payment is made;</li> <li>(b) the numbers of tasks completed or hours worked;</li> <li>(c) the worker's earnings;</li> <li>(d) any money deducted from the payment;</li> <li>(e) the actual amount paid to the worker.</li> </ul> <p>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.</p> <p>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.</p> <p><b>15 Deductions</b></p> <p>15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of a law.</p> <p>15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.</p> <p>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.</p> <p>15.4 An employer may not require or allow a worker to –</p> <ul style="list-style-type: none"> <li>(a) repay any payment except an overpayment previously made by the employer by mistake;</li> </ul>
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	<p>(b) state that the worker received a greater amount of money than the employer actually paid to the worker; or</p> <p>(c) pay the employer or any other person for having been employed.</p> <p><b>16 Health and Safety</b></p> <p>16.1 Employers must take all reasonable steps to ensure that the working environment is healthy and safe.</p> <p>16.2 A worker must –</p> <p>(a) work in a way that does not endanger his/her health and safety or that of any other person;</p> <p>(b) obey any health and safety instruction;</p> <p>(c) obey all health and safety rules of the SPWP;</p> <p>(d) use any personal protective equipment or clothing issued by the employer;</p> <p>(e) report any accident, near-miss incident or dangerous behaviour by another person to their employer or manager.</p> <p><b>17 Compensation for Injuries and Diseases</b></p> <p>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.</p> <p>17.2 A worker must report any work-related injury or occupational disease to their employer or manager.</p> <p>17.3 The employer must report the accident or disease to the Compensation Commissioner.</p> <p>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.</p> <p><b>18 Termination</b></p> <p>18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.</p> <p>18.2 A worker will not receive severance pay on termination.</p> <p>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.</p> <p>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.</p> <p>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.</p>
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A1	<p><b>19 Certificate of Service</b></p> <p>(a) the worker's full name;</p> <p>(b) the name and address of the employer;</p> <p>(c) the SPWP on which the worker worked;</p> <p>(d) the work performed by the worker;</p> <p>(e) any training received by the worker as part of the SPWP;</p> <p>(f) the period for which the worker worked on the SPWP;</p> <p>(g) any other information agreed on by the employer and worker.</p>
A2	<p><b>A2.0 Expanded Public Works Programme</b></p> <p>A2.1 The Contractor will be required to employ staff which satisfy the EPWP requirements as per the Guidelines for the implementation</p>
A3	<p><b>A3.0 Mandatory Training</b></p> <p>A3.1 The Contractor will be required to provide training to sub-contractors. An allowance for this has been made in the final summary of the bills of quantities, which will be treated as a budgetary allowance which the Contractor can use for training and which may be deducted in part or in whole from the project should it not be used.</p>

## Part 1: Contract Data Completed by the Employer

	<p><b>Clause Item and data</b></p> <p><b>Contracting and other parties</b></p> <p>1.1 The Employer is the Gauteng Department of Infrastructure Development</p> <p><b>The address of the Employer is:</b> .....</p> <p>Telephone:</p> <p>Facsimile:</p> <p>Physical Address:      17th Floor Corner House                                         Cnr Commissioner &amp; Sauer                                         Streets, Marshalltown</p> <p>Code:                      2107</p> <p>Postal Address:        Private Bag X83                                         Marshalltown</p> <p>Code:                      2107</p> <p>1.2 <b>The Principal Agent is:</b></p> <p>Telephone:</p> <p>Facsimile:</p> <p>Physical Address:</p> <p>Code:</p> <p>Postal Address:</p> <p>Code:</p> <p>1.3 <b>Agent (1) is:</b> .....</p> <p>Agent's Service: .....</p> <p>Telephone: .....</p> <p>Facsimile: .....</p> <p>Physical Address: .....</p> <p>Code: .....</p> <p>Postal Address: .....</p> <p>Code: .....</p>
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1.4	<b>Agent (2) is:</b> ..... Agent's Service: ..... Telephone: ..... Facsimile: ..... Physical Address: ..... ..... ..... ..... Code: ..... Postal Address: ..... ..... Code: .....
1.5	<b>Agent (3) is:</b> ..... Agent's Service: ..... Telephone: ..... Facsimile: ..... Physical Address: ..... ..... ..... ..... Code: ..... Postal Address: ..... ..... Code: .....
1.6	<b>Agent (4) is:</b> ..... Agent's Service: ..... Telephone: ..... Facsimile: ..... Physical Address: ..... ..... ..... ..... Code: ..... Postal Address: ..... ..... Code: .....

1.7	<b>Agent (5) is:</b> ..... Agent's Service: ..... Telephone: ..... Facsimile: ..... Physical Address: ..... ..... ..... Code: ..... Postal Address: ..... ..... Code: .....
	<b>Contract Details</b>
1.7	The Works comprises supply and installation of movable classroom and ablution facilities complete including siteworks and connection of electricity, sewer, water supply at Fleur Primary School
1.8	The Site is Fleur Primary School in Lyttleton Manor in Centurion
1.9	The Works or installations to be undertaken by direct contractors comprises N/A
1.10	The Employer is Gauteng Department of Infrastructure Development
1.11	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
1.12	Lateral support insurance is to be effected by the contractor: N/A
1.13	Payment will be made for materials and goods:.....
1.14	Extended defects liability period will apply to the following elements: N/A
1.15	Possession of the site is to be given within ten (10) working days of the contractor complying with the terms of 12.1.5
1.16	The period for the commencement of the works after the contractor takes possession of the site is ten (10) working days <b>Intended dates for completion</b> <b>For the works as a whole:</b> The date for practical completion is 6 months from site handover The penalty per calendar day is 5,75 Cent per R100 of the contract value

	<p>The date for practical completion and the penalty per calendar day is as follows:</p> <p>Refer to drawing indicating Sectional Completion and Part C: Scope of Work for detailed descriptions of Sections.</p> <table><tr><th>Section</th><th>Start date</th><th>End date</th><th>Penalty</th></tr><tr><td>Section 1</td><td>N/A</td><td>N/A</td><td>TBA</td></tr><tr><td>Section 2a</td><td>N/A</td><td>N/A</td><td>TBA</td></tr><tr><td>Section 2b</td><td>N/A</td><td>N/A</td><td>TBA</td></tr><tr><td>Section 3</td><td>N/A</td><td>N/A</td><td>TBA</td></tr><tr><td>Section 4</td><td>N/A</td><td>N/A</td><td>TBA</td></tr></table>	Section	Start date	End date	Penalty	Section 1	N/A	N/A	TBA	Section 2a	N/A	N/A	TBA	Section 2b	N/A	N/A	TBA	Section 3	N/A	N/A	TBA	Section 4	N/A	N/A	TBA
Section	Start date	End date	Penalty																						
Section 1	N/A	N/A	TBA																						
Section 2a	N/A	N/A	TBA																						
Section 2b	N/A	N/A	TBA																						
Section 3	N/A	N/A	TBA																						
Section 4	N/A	N/A	TBA																						
1.2	<p>The law applicable to the agreement shall be that of the Republic of South Africa</p> <p><b>Insurances</b></p>																								
10.1; 10.2	<p><b>Contract insurance is to be effected by the contractor.</b></p> <p>Contract works insurance is to be effected by the contractor for a sum not less than the contract sum plus 10% with a deductible amount of R10 000-00.</p> <p>Supplementary insurance is required. Such insurance shall comprise a Coupon Policy for Special Risks issued by the South African Special Risk Insurance Association.</p> <p>SASRIA Insurance will be effected by the contractor to the contract sum + 10%</p>																								
10.1.3	<p>Public liability insurance to be effected by the contractor for an amount of R 5,000,000.00 with a deductible amount of R 10,000.00</p>																								
10.1.4	<p>Support insurance to be effected by the contractor for the sum of not applicable</p>																								
11.10, 19.5 and 25.14.2	<p>A waiver of the contractor's lien or right of continuing possession is required.</p>																								
3.7	<p>2 copies of the construction document are to be supplied to the contractor free of charge.</p>																								
3.4	<p>JBCC Engineering General Conditions are not to be included in the contract document.</p>																								
26.9.4	<p>The contract value is to be adjusted using CPAP indices. The base month for the application of CPAP is the month of the closing of the tender and the following alternative indices are applicable: N/A</p>																								
11.2.2	<p>The employer will not provide advanced payments against an advanced payment guarantee.</p>																								
11.1.2	<p>The construction guarantee is to be a fixed guarantee in an amount of 5% of the contract sum and payment reduction</p>																								
30.0	<p>Dispute resolution shall be by adjudication</p>																								

## Part 2: Contract Data completed by the Contractor

Clause	Item and data
1.2	<p>The name of the Contractor is: .....</p> <p>Telephone: .....</p> <p>Facsimile: .....</p> <p>Physical Address: .....</p> <p>.....</p> <p>.....</p> <p>Code: .....</p> <p>Postal Address: .....</p> <p>.....</p> <p>Code: .....</p>



# GAUTENG PROVINCE

INFRASTRUCTURE DEVELOPMENT  
REPUBLIC OF SOUTH AFRICA

**DID NUMBER:** DID20/11/2022

**SERVICE:** SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR

## C1.3 GUARANTEE FOR CONSTRUCTION

Gauteng Province Department of Infrastructure Development  
Private Bag X83  
Marshalltown  
2107

Date:

Sir,

### GUARANTEE FOR CONSTRUCTION

Bid number	Project Code
<b>GUARANTOR DETAILS AND DEFINITIONS</b>	
"Guarantor" means:	<input type="text"/>
Physical Address:	<input type="text"/>
Guarantor's signatory 1:	Capacity <input type="text"/>
Guarantor's signatory 2:	Capacity <input type="text"/>
"Employer" means:	Gauteng Province Department of Infrastructure Development
"Contractor" means:	<input type="text"/>
"Principal Agent" means:	<input type="text"/>
"Works" means:	<input type="text"/>
"Site" means:	<input type="text"/>
Name of Signatory	<input type="text"/>
"Contract" means:	The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.
"Contract Sum" means:	The accepted amount inclusive of tax of: <b>ZAR</b> <input type="text"/>



Amount in Words:

"Guaranteed Sum" means: The maximum aggregate amount of: **10%** **ZAR** \_\_\_\_\_  
*Of Contract Sum*

Amount in Words:

Security for Construction

(Insert variable or fixed)

"Expiry Date" means:

**AGREEMENT DETAILS**

Sections

Total number / not applicable

Last section

Principal Agent Issues:

JBCC® format Interim Payment Certificates, the Final Payment Certificate, the Certificate of Practical Completion and the Certificate of Final Completion

**1.0 GUARANTEE FOR CONSTRUCTION (Variable)**

- 1.1 Where a Guarantee for Construction (Variable) in terms of the Agreement has been selected this clause 1.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the diminishing amounts of the Guaranteed Sum as follows:---

**GUARANTOR'S LIABILITY**

- 1.1.1 Maximum Guaranteed Sum (not exceeding 10.0% of the contract sum) in the amount of:

**PERIOD OF LIABILITY**

From and including the date of issue of this Guarantee for Construction and up to and including the date of issue of the interim payment certificate certifying in excess of 50% of the contract sum.

**ZAR**

Amount in words

- 1.1.2 Reducing to the Guaranteed Sum (not exceeding 6.0 % of the contract sum) in the amount of:

From and including the day after the date of the aforesaid interim payment certificate and up to and including the date of issue of the only Certificate of Practical Completion or last Certificate of Practical Completion where there are sections.

**ZAR**

Amount in words

- 1.1.3 Reducing to the Guaranteed Sum (not exceeding 4.0% of the contract sum) in the amount of:

From and including the day after the date of the applicable Certificate of Practical Completion and up to and including the date of issue of the only Certificate of Final Completion or the last Certificate of Final Completion where there are sections.

**ZAR**

Amount in words

- 1.1.4 Reducing to the Guaranteed Sum (not exceeding 2.0% of the contract sum) in the amount of:

ZAR	
-----	--

From and including the day after the date of the applicable Certificate of Final Completion and up to and including the date of issue of the Final Payment Certificate where payment is due to the Contractor, whereafter this Guarantee for Construction shall expire. Where the Final Payment Certificate reflects payment due to the Employer this Guarantee for Construction shall expire upon payment of the full amount certified.

Amount in words

- 1.2 The Guarantor's liability limits set out in 1.1.1 to 1.1.4 shall apply in respect of any claim received by the Guarantor during the Security validity

## 2.0 GUARANTEE FOR CONSTRUCTION (Fixed)

- 2.1 Where a Guarantee for Construction (Fixed) in terms of the Agreement has been selected this clause 2.0 and 3.0 to 13.0 shall apply. The Guarantor's liability shall be limited to the amount of the Guaranteed Sum as follows:---

### GUARANTOR'S LIABILITY

Maximum Guaranteed Sum (not exceeding 5.0% of the contract sum) in the amount of:

### PERIOD OF LIABILITY

From and including the date of issue of this Guarantee for Construction and up to and including the date of the only Certificate of Practical Completion or the last Certificate of Practical Completion where there are sections, whereafter this Guarantee for Construction shall expire.

ZAR	
-----	--

Amount in words

- 3.0 The GUARANTOR acknowledges that;

- 3.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;

- 3.2 its obligation under the Performance Guarantee is restricted to the payment of money.

- 3.3 Reference to a recovery statement or an Interim or Final Payment Certificate, or a Certificate(s) of Practical or Final Completion shall mean such certificate issued by the Principal Agent.

- 4.0 Subject to the Guarantor's maximum liability referred to in clauses 1.0 or 2.0, the Guarantor undertakes to pay the Employer the sum certified on receipt of the documents identified in 4.1 to 4.3:---

- 4.1 A copy of a first written demand notice issued by the Employer to the Contractor stating that payment of a sum certified by the Principal Agent in an interim or Final Payment Certificate has not been made in terms of the Agreement and failing such Payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2.

- 4.2 A first written demand notice issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) calendar days has elapsed since the issue of the first written demand notice in terms of 4.1 and that the sum certified has not been paid to date. The Employer herewith calls up this Guarantee for Construction and demands payment of the sum certified from the Guarantor.

- 4.3 A copy of the applicable payment advice which entitles the Employer to receive payment in terms of the Agreement of the sum certified in 4.0.

- 5.0 Subject to the Guarantor's maximum liability referred to in 1.0 or 2.0, the Guarantor undertakes to pay the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand notice from the Employer to the Guarantor at the Guarantor's physical address calling up this Guarantee for Construction stating that:---

- 5.1 The Agreement has been terminated due to the Contractor's default and that the Security for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the notice of termination; or

- 5.2 A provisional sequestration or liquidation court order has been granted against the Contractor and that the Guarantee for Construction is called up in terms of 5.0. The demand notice shall enclose a copy of the court order.

- 6.0 The aggregate amount of payment to be made by the Guarantor in terms of 4.0 and 5.0 shall not exceed the Guarantor's maximum liability in terms of 1.0 or 2.0.
- 7.0 Where the Guarantor is a registered insurer and has made payment in terms of 5.0, the Employer shall within one hundred and eighty (180) calendar days of receipt of payment submit an expense account to the Guarantor showing how all monies received in terms of the Guarantee for Construction have been expended, or will be expended, and shall refund to the Guarantor any surplus amount. All monies refunded to the Guarantor in terms of this Guarantee for Construction shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date of payment by the Guarantor to the Employer until the date of refund.
- 8.0 Payment by the Guarantor in terms of 4.0 or 5.0 shall be made within seven (7) calendar days upon receipt of the first written demand notice to the Guarantor.
- 9.0 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer deems fit and the Guarantor shall not have the right to claim his release from this Guarantee for Construction on account of any conduct alleged to be prejudicial to the Guarantor.

10.0 The Guarantor chooses the physical address stated above for all transactions in relation to this security.

11.0 This Guarantee for Construction is neither negotiable nor transferable and shall expire in terms of either 1.1.4 or 2.1, or on payment in full of the Guaranteed Sum or on the Security expiry date, whichever is the earlier, where after no claims will be considered by the Guarantor. The original Guarantee for Construction form shall be returned to the Guarantor after it has expired.

12.0 This Guarantee for Construction, with the required demand notices in terms of 4.0 or 5.0, shall be regarded as a liquid document for the purpose of obtaining a court order.

13.0 Where this Guarantee for Construction is issued in the Republic of South Africa the Guarantor hereby consents to the jurisdiction of a court in the area where the project is located.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

Guarantor's seal or stamp:



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

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 ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND  
 CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT  
 LAERSKOOL FLEUR**

## **C1.4 Adjudicator's Appointment**

This agreement is made on the . . . . . day of . . . . . between:

. . . . . (name of company / organisation)

of . . . . .

. . . . . (address) and

. . . . . (name of company / organisation)

of . . . . .

. . . . . (address)

(the Parties) and . . . . . (name)

of . . . . .

. . . . . (address)

(the Adjudicator).

Disputes or differences may arise/have arisen\* between the Parties under a Contract dated . . . . .  
 and known as. . . . .

and these disputes or differences shall be/have been\* referred to adjudication in accordance with the  
 JBCC 2000 Adjudication Rules, (hereinafter called "the Procedure") and the Adjudicator may be or  
 has been requested to act.

*\* Delete as necessary*

### **IT IS NOW AGREED as follows:**

- 1 The rights and obligations of the Adjudicator and the Parties shall be as set out in the JBCC 2000 Adjudication Rules.
- 2 The Adjudicator hereby accepts the appointment and agrees to conduct the adjudication in accordance with the JBCC 2000 Adjudication Rules..
- 3 The Parties bind themselves jointly and severally to pay the Adjudicator's fees and expenses as set out in the Contract Data.
- 4 The Parties and the Adjudicator shall at all times maintain the confidentiality of the adjudication and shall endeavour to ensure that anyone acting on their behalf or through them will do likewise, save with the consent of the other Parties which consent shall not be unreasonably refused.

- 5 The Adjudicator shall inform the Parties if he intends to destroy the documents which have been sent to him in relation to the adjudication and he shall retain documents for a further period at the request of either Party.

SIGNED by	SIGNED by	SIGNED by
Name:	Name:	Name:
Id:	Id:	Id:
who warrants that he / she is	who warrants that he / she is	who warrants that he / she is
duly authorised to sign for and	duly authorised to sign for and	duly authorised to sign for and
on behalf of the first Party in	on behalf of the first Party in	on behalf of the first Party in
the presence of the Adjudicator	the presence of the Adjudicator	the presence of the Adjudicator
in the presence of	in the presence of	in the presence of
 Witness:	 Witness:	 Witness:
Name:	Name:	Name:
Address:	Address:	Address:
 Date:	 Date:	 Date:

### Contract Data

- 1 The Adjudicator shall be paid at the hourly rate of R. . . . . in respect of all time spent upon, or in connection with, the adjudication including time spent traveling.
- 2 The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restricted to:
  - (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs.
  - (b) Telegrams, telex, faxes, and telephone calls.
  - (c) Postage and similar delivery charges.
  - (d) Travelling, hotel expenses and other similar disbursements.
  - (e) Room charges.
  - (f) Charges for legal or technical advice obtained in accordance with the Procedure.

- 3 The Adjudicator shall be paid an appointment fee of R . . . . . This fee shall become payable in equal amounts by each Party within 14 days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties.
- 4 The Adjudicator is/is not\* currently registered for VAT.
- 5 Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice.
- 6 All payments, other than the appointment fee (item 3) shall become due 7 days after receipt of invoice, thereafter interest shall be payable at 5% per annum above the Reserve Bank base rate for every day the amount remains outstanding.



# GAUTENG PROVINCE

## INFRASTRUCTURE DEVELOPMENT

### REPUBLIC OF SOUTH AFRICA

**DID NUMBER:** DID20/11/2022

**SERVICE:** **SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR**

## Part C2.1 Pricing Instructions

- 1 The Bill of Quantities has been drawn up in accordance with the Model Bill of Quantities based on the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Seventh Edition), 2015. Where applicable the:
  - a) Civil Engineering work has been drawn up in accordance with the provisions of the latest edition of SANS 1200 Standardised Specifications for Civil Engineering Works.
  - b) Mechanical Work has been drawn up in accordance with the provisions of the Model Bill of Quantities for Mechanical Work, published by the South African Association of Quantity Surveyors (2015).
  - c) Electrical Work has been drawn up in accordance with the provisions of the Model Bill of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors (2015).
- 2 The agreement is based on the JBCC Principal Agreement (version 6.1). The additions, deletions and alterations to the JBCC PBA as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bill of Quantities are recited.
- 3 It will be assumed that prices included in the Bill of Quantities, unless otherwise stated in the Scope of Work, are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published before the closing date for tenders. (Refer to [www.stanza.org.za](http://www.stanza.org.za) or [www.iso.org](http://www.iso.org) for information on standards).
- 4 The drawings listed in the Scope of Works used for the setting up of this Bill of Quantities are kept by the Project Manager and can be viewed at any time during office hours up until the completion of the works.
- 5 Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
- 6 Where any item is not relevant to this specific contract, such item is marked **not applicable**.

- 7 The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bill of Quantities .
- 8 The Bill of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bill of Quantities, is at the Contractor's risk.
- 9 The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.
- 10 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 9 but taking into account the revised period for completing the works.
- 11 The amount or the items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bill of Quantities:
  - a) an amount which is not to be varied, namely Fixed
  - b) an amount which is to be varied in proportion to the contract value, namely Value Related; and
  - c) an amount which is to be varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related.
- 12 Where no provision is made in the Bill of Quantities to indicate which of the three categories in 11 apply or where no selection is made, the adjustments shall be based on the following breakdown:
  - a) 10 percent is Fixed;
  - b) 15 percent is Value Related
  - c) 75 percent is Time Related
- 13 The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.
- 14 Those parts of the contract to be constructed using labour intensive methods have been marked in the Bill of Quantities with the letters LI in a separate column filled in against every item so designated. The works, or parts of the works so designated are to be constructed using labour intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the Scope of Work, is a variation to the contract. The items marked with the letters LI are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Work
- 15 Payment for items which are designated to be constructed labour intensively (either in this schedule or in the Scope of Work) will not be made unless they are constructed using labour intensive methods. Any unauthorised use of plant to carry out work which was to be done labour intensively will not be condoned and any works so constructed will not be certified for payment



## **BILLS OF QUANTITIES**

Item No	Quantity	Rate	Amount R
<b><u>SECTION NO.1</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>PRELIMINARIES AND GENERAL</u></b>			
<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described			
The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b>			
The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b> , amended as hereinafter described			
The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause			
The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only			
Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"			
Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents			
<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>			
<b><u>Interpretation (A1-A7)</u></b>			
1	Clause 1.0 - Definitions and interpretation	Item	
<b>Carried Forward</b>			R
Section No. 1 PRELIMINARIES Preliminaries			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
2	Clause 2.0 - <b>Law</b> , regulations and <b>notices</b>	Item		
3	Clause 3.0 - Offer and acceptance F:..... V:..... T:.....	Item		
4	Clause 4.0 - Cession and assignment F:..... V:..... T:.....	Item		
5	Clause 5.0 - Documents F:..... V:..... T:.....			
6	Clause 6.0 - <b>Employer's agents</b> F:..... V:..... T:.....			
7	Clause 7.0 - Design responsibility F:..... V:..... T:.....	Item		
	<b><u>Insurances and securities (A8-A11)</u></b>			
8	Clause 8.0 - <b>Works</b> risk F:..... V:..... T:.....	Item		
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		
10	Clause 10.0 - Insurances F:..... V:..... T:.....	Item		
11	Clause 11.0 - <b>Securities</b>			
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>Execution (A12 - A17)</u></b>			
12	<p>Clause 12.0 - Obligations of the <b>parties</b></p> <p>F:..... V:..... T:.....</p>	Item		
13	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	Item		
14	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	Item		
15	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	Item		
16	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</li> <li>2. Allow the use of personnel welfare facilities, where provided</li> <li>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</li> <li>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</li> </ol>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
	F:..... V:..... T:.....	Item		
17	<b>Clause 17.0 - Contract instructions</b>  <b>Site instructions</b>  Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b>  F:..... V:..... T:.....			
	<b><u>Completion (A18 - A24)</u></b>			
18	Clause 18.0 - Interim completion	N/A		
19	<b>Clause 19.0 - Practical completion</b>  F:..... V:..... T:.....	Item		
20	Clause 20.0 - Completion in <b>sections</b>			
21	Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b>			
22	Clause 22.0 - <b>Latent defects</b> liability period  F:..... V:..... T:.....	Item		
23	Clause 23.0 - Revision of the date for <b>practical completion</b>  <b>Substitution of materials and goods</b>  The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 & 2]  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
24	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b><u>Payment (A25 - A27)</u></b></p>	Item		
25	<p>Clause 25.0 - Payment</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	Item		
26	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p><b>Fluctuations in costs</b></p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the <b>contractor</b> [26.9.5]</p>			
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p> <p><b><u>Suspension and termination (A28 - A29)</u></b></p>	Item		
28	<p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item		
29	<p>Clause 29.0 - Termination</p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
	F:..... V:..... T:.....	Item		
	<b><u>Dispute resolution (A30)</u></b>			
30	Clause 30.0 - Dispute resolution			
	F:..... V:..... T:.....	Item		
31	<b><u>Agreement</u></b>			
	The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>			
	F:..... V:..... T:.....	Item		
32	<b><u>Contract data</u></b>			
	F:..... V:..... T:.....	Item		
	<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>			
	<b><u>Definitions and interpretation (B1)</u></b>			
33	Clause 1.1 - Definitions			
	F:..... V:..... T:.....	Item		
34	Clause 1.2 - Interpretation			
	F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
35	Clause 2.1 - Checking of documents			
	F:..... V:..... T:.....	Item		
36	Clause 2.2 - Provisional <b>bills of quantities</b>			
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
	F:..... V:..... T:.....	Item		
37	Clause 2.3 - Availability of <b>construction information</b>			
	F:..... V:..... T:.....	Item		
38	Clause 2.4 - Ordering of <b>materials and goods</b>			
	F:..... V:..... T:.....	Item		
	<b><u>Previous work and adjoining properties (B3)</u></b>			
39	Clause 3.1 - Previous work - dimensional accuracy			
	F:..... V:..... T:.....	Item		
40	Clause 3.2 - Previous work - <b>defects</b>			
	F:..... V:..... T:.....	Item		
41	Clause 3.3 - Inspection of adjoining properties			
	F:..... V:..... T:.....	Item		
	<b><u>The site (B4)</u></b>			
42	Clause 4.1 - Handover of <b>site</b> in stages			
	F:..... V:..... T:.....	Item		
43	Clause 4.2 - Enclosure of the <b>works</b>	Item		
44	Clause 4.3 - Geotechnical and other investigations			
	F:..... V:..... T:.....	Item		
45	Clause 4.4 - Encroachments			
	F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			



**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
46	Clause 4.5 - Existing premises occupied  F:..... V:..... T:.....	Item		
47	Clause 4.6 - Services - known  F:..... V:..... T:.....	Item		
	<b><u>Management of contract (B5)</u></b>			
48	Clause 5.1 - Management of the <b>works</b>  F:..... V:..... T:.....	Item		
49	Clause 5.2 - Progress meetings  F:..... V:..... T:.....	Item		
50	Clause 5.3 - Technical meetings  F:..... V:..... T:.....	Item		
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>			
51	Clause 6.1 - Samples of materials  F:..... V:..... T:.....	Item		
52	Clause 6.2 - Workmanship samples  F:..... V:..... T:.....	Item		
53	Clause 6.3 - Shop drawings  F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
54	<p>Clause 6.4 - Compliance with manufacturer's instructions</p> <p>F:..... V:..... T:.....</p> <p><b><u>Deposits and fees (B7)</u></b></p>	Item		
55	<p>Clause 7.1 - Deposits and fees</p> <p>F:..... V:..... T:.....</p> <p><b><u>Temporary services (B8)</u></b></p>	Item		
56	<p>Clause 8.1 - Water</p> <p>F:..... V:..... T:.....</p>	Item		
57	<p>Clause 8.2 - Electricity</p> <p>F:..... V:..... T:.....</p>	Item		
58	<p>Clause 8.3 - Ablution and welfare facilities</p> <p>F:..... V:..... T:.....</p>	Item		
59	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><b><u>Prime cost amounts (B9)</u></b></p>	Item		
60	<p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p>			
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
	<b><u>Attendance on subcontractors (B10)</u></b>			
61	Clause 10.1 - General attendance			
	<b><u>User note</u></b>			
	<i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i>			
	F:..... V:..... T:.....	Item		
62	Clause 10.2 - Special attendance			
63	Clause 11.1 - Protection of the <b>works</b>			
	F:..... V:..... T:.....	Item		
64	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b>			
	F:..... V:..... T:.....	Item		
65	Clause 11.3 - Security of the <b>works</b>			
	F:..... V:..... T:.....	Item		
66	Clause 11.4 - Notice before covering work			
	F:..... V:..... T:.....	Item		
67	Clause 11.5 - Disturbance			
68	Clause 11.6 - Environmental disturbance			
69	Clause 11.7 - <b>Works</b> cleaning and clearing			
	F:..... V:..... T:.....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Preliminaries			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward		R
70	<p>Clause 11.8 - Vermin</p> <p>F:..... V:..... T:.....</p>	Item
71	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>	Item
72	<p>Clause 11.10 - Tenant installations</p> <p>F:..... V:..... T:.....</p>	Item
73	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>	Item
<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>		
74	<p><b>Site instructions</b></p> <p><b>Contract Instructions</b> issued on <b>site</b> are to be recorded in triplicate in a <b>site</b> instruction book which is to be maintained on site by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item
Carried Forward		R
<p>Section No. 1 PRELIMINARIES Preliminaries</p>		

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
75	<p><b>Warranties for material and workmanship</b></p> <p>Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the firm supplying the materials and/or doing the work and shall deliver same to the <b>principal agent</b> on the <b>final completion</b> of the <b>contract</b>. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of <b>final completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by <b>defects</b> in the construction of the building in which case the responsibility for replacement shall rest entirely with the <b>contractor</b></p> <p>F:.....V:.....T:.....</p>			
		Item		
76	<p><b>Co-operation of contractor for cost management</b></p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The <b>principal agent</b> undertakes to make available to the <b>contractor</b> all <b>budgetary allowances</b> and cost assessments/reports to enable the proper procedure to be implemented and the <b>contractor</b> shall attend all cost plan review and cost management meetings. The <b>contractor</b> undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F:.....V:.....T:.....</p>			
		Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
77	<p><b>Propping of floors below</b></p> <p>The <b>contractor</b> is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item		
78	<p><b>Testing of windows for watertightness</b></p> <p>Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the <b>principal agent</b>, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means</p> <p>F:..... V:..... T:.....</p>	Item		
79	<p><b>Testing of flat roof waterproofing for watertightness</b></p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the <b>principal agent</b>, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R
	<p><b><u>HIV/AIDS AWARENESS</u></b></p> <p>It is required of the Contractor to thoroughly study the HIV/AIDS Specification (C3.5) together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items 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.</p> <p>The <b>Contractor</b> must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the <b>Principal Agent</b>, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clauses to the contrary, reserve the right to delay issuing any progress <b>payment certificate</b> until the <b>Contractor</b> provides satisfactory proof of compliance. The <b>Contractor</b> shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.</p>		
80	<p><b>AWARENESS CHAMPION</b></p> <p>Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>		R
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>		

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
81	<p><b>AWARENESS WORKSHOPS</b></p> <p>Selection and appointment of a competent Service Provider approved by the <b>principal agent</b>, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multimedia techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p>	Item		
82	<p><b>POSTERS, BOOKLETS, VIDEOS, ETC.</b></p> <p>Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the <b>construction period</b>, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p>	Item		
83	<p><b>ACCESS TO CONDOMS</b></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 <b>construction period</b>, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p>	Item		
	<b>Carried Forward</b>		R	
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>			



**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R
84	<p><b>MONITORING</b></p> <p>Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> 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>F:..... V:..... T:.....</p> <p><b><u>SOCIO-ECONOMIC DELIVERABLES</u></b></p>	Item	
85	<p>It is required that the contractor shall adhere to all Socio-Economic Deliverables as set out in the C3.4</p> <p>Provision for pricing of all the main contractor's costs as stipulated in the deliverables is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>F:..... V:..... T:.....</p> <p><b><u>EMPLOYMENT OF SMME SUB-CONTRACTORS AS A CONDITION OF TENDER</u></b></p>	Item	
86	<p>It is required that the contractor shall sub-contract 30% of the contract value (Excluding VAT, Escalation, Contingencies, HT equipment provisions and Socio-Economic provisions) of the contract including labour and material to EME's and QSE's</p> <p>Provision for pricing of all the main contractor's costs as stipulated is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>		R
	<p>Section No. 1 PRELIMINARIES Preliminaries</p>		

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

<p style="text-align: center;"><b>Brought Forward</b></p> <p><b><u>OCCUPATIONAL HEALTH AND SAFETY ACT</u></b></p> <p>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)</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification and Bills of Quantities herein attached. Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities (See Bill No.2)</p> <p>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.</p> <p>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.</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 1 PRELIMINARIES Preliminaries</p>		R	

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

## Brought Forward

R

## **ENVIRONMENTAL HEALTH AND SAFETY**

87 The contractor shall comply with all the requirements set  
out in the Environmental Health and Safety Specification

It is required of the contractor to thoroughly study the Enviromental Health and Safety Specification.

The contractor must take note that compliance with the Environmental Health and Safety is compulsory.

Provision for pricing of the Environmental Health and Safety 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.

F:..... V:..... T:.....

Item

**Carried Forward**

R

Section No. 1  
PRELIMINARIES  
Preliminaries

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward		R
<b><u>SUMMARY OF CATEGORIES</u></b>		
Category: Fixed	R	
Category: Value	R	
Category: Time	R	
Carried Forward to Summary of Section No. 1		R
Section No. 1 PRELIMINARIES Preliminaries		

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 1</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>OCCUPATIONAL HEALTH AND SAFETY</u></b>			
	<b><u>PERSONAL PROTECTIVE CLOTHING</u></b>			
	<b><u>Supply of all items of Personal Protective Clothing/Equipment &amp; ensure use thereof for full compliance</u></b>			
88	Steel toe capped safety boots	No	100	
89	Appropriate protective clothing	No	100	
90	Gloves	No	100	
91	Colour coded hardhats [Blue for labourer, Red for First Aider, Green for SHE Reps and White for Supervisors and Managers]	No	100	
92	Ear protection (earplugs etc)	No	100	
93	Eye protection appropriate to task performed	No	100	
94	Induction tags/cards	No	100	
95	Dust mask where possible	No	100	
96	Luminous high visibility safety vests	No	100	
97	Provision of First Aid Boxes	No	4	
98	Any other: Contractor to specify : ..... ..... .....		Item	
	<b><u>Supply and provision of Equipment for working at Heights &amp; ensure use thereof for full compliance</u></b>			
99	Fall protection equipment (Safety Harness)		Item	
	<b>Carried Forward</b>			
	Section No. 1 PRELIMINARIES Occupational Health and Safety		R	

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
100	Double lanyard harness)	Item		
101	Fall protection plan	Item		
102	Scaffolding access ladders	Item		
103	Portable Ladders	Item		
104	Any other: Contractor to specify : ..... ..... .....	Item		
	<b><u>Barricading</u></b>			
105	Supply & install, including removal upon completion to ensure full compliance to legislation	Item		
106	Rigid type barricading	Item		
107	Temporary fence barricading along perimeter of excavated area	Item		
108	Appropriate equipment/tools for excavation.	Item		
109	Any other: Contractor to specify : ..... ..... .....	Item		
	<b><u>Related Training</u></b>			
110	Induction Training	Item		
111	First Aid Training	Item		
112	Health and Safety Representative training	Item		
113	Emergency Rescue training	Item		
114	Hazard Identification Training	Item		
115	Training of Personnel working at heights	Item		
116	Scaffolding Assembly and Inspection	Item		
117	Plant safety regulations	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Occupational Health and Safety			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>		R	
118	Any other: Contractor to specify : ..... ..... .....	Item		
	<b><u>Audits</u></b>			
119	Internal Audits	Item		
	<b><u>Investigations of Fatalities/LTI/Medicals/First Aid/Injuries/Diseases/Near Misses</u></b>			
120	Provide reporting of incidents	Item		
121	Steering Committee representation by 16.1	Item		
122	Investigations of accidents/incidents	Item		
123	Medical treatments	Item		
	<b><u>Monthly Statistical Reports</u></b>			
	<u>Provide:</u>			
124	Incident reports	Item		
125	Status on incident reports	Item		
126	Status on audit reports	Item		
127	Monthly statistical reports	Item		
	<b><u>SHE File</u></b>			
	<u>Recording &amp; availability of SHE File/Site</u>			
128	Compile SHE file	Item		
129	Ongoing maintenance of SHE file	Item		
130	Auditing of sub-contractors	Item		
131	Any other: Contractor to specify : ..... ..... .....	Item		
	<b>Carried Forward</b>		R	
	Section No. 1 PRELIMINARIES Occupational Health and Safety			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

<b>Brought Forward</b>		R
<b><u>Transport</u></b>		
132	Transportation of employees in compliance with the Transportation of employees procedure for the duration of the contract (6 Months)	Item
<b><u>Compliance</u></b>		
133	Full Compliance with latest revision of OHS act.	Item
134	Full compliance with latest revision of Construction regulations & any other regulations to the work to be performed. To ensure that all the other regulations are complied with for example facility regulation, hazardous chemical substance regulations etc.	Item
135	Provision of all signage in terms of latest revision legislation	Item
<b><u>Human Resources</u></b>		
136	Appointment of Construction Safety Officer (Full time) for the duration of the contract (6 Months)	Item
137	Appointment of Construction Safety Officer Representative for the duration of the contract (6 Months)	Item
138	Any other: Contractor to specify : ..... ..... .....	Item
All quantities are estimated and will be re-measured on completion		
Note: GDID will impose penalties to the value of R10 000 per event on contractors who fail to ensure full-compliance with the Occupational Health and Safety Regulations .		
<b>Carried Forward to Summary of Section No. 1</b>		R
Section No. 1		
PRELIMINARIES		
Occupational Health and Safety		



## Section No. 1

**Bill  
No**

**Page  
No**

23

**Amount  
R**

R

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**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>EARTHWORKS</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Nature of ground</u></b>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
	The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".			
	The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock".			
	Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.			
	A soils investigation has been carried out on site by the engineer and the report is available on request.			
	Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Subterranean water</u></b>			
	No subterranean water is expected			
	<b>Carried Forward</b>		R	
	Section No. 2 BUILDING EARTHWORKS			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

<b>Brought Forward</b>	R
<p><b><u>Excavation for working space in rock</u></b></p> <p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation for working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><b><u>Filling</u></b></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p> <p><b><u>Testing</u></b></p> <p><i>Prices for filling are to include for all necessary density tests in accordance with SANS 1200D</i></p> <p>-----</p>	
<b>Carried Forward</b>	R
<p>Section No. 2 BUILDING EARTHWORKS</p>	

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

<b>Brought Forward</b>			<b>R</b>
<b><u>SITE CLEARANCE ETC</u></b>			
<b><u>EXCAVATIONS</u></b>			
<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Reduced levels under floors.	m <sup>3</sup>	259
2	Trenches	m <sup>3</sup>	161
<b><u>Extra over all excavations for carting away</u></b>			
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor (LI)	m <sup>3</sup>	161
<b><u>Risk of collapse of excavations</u></b>			
4	Sides of trench and hole excavations not exceeding 1,5m deep (LI)	m <sup>2</sup>	1,179
<b><u>Keeping excavations free of water</u></b>			
5	Keeping excavations free of all water other than subterranean water		Item
<b><u>FILLING ETC</u></b>			
<b><u>Earth filling of G7 material supplied by the contractor in layers of 150mm thick compacted to 95% Mod AASHTO density</u></b>			
6	Under floors, steps, pavings, etc.	m <sup>3</sup>	259
<b><u>Compaction of surfaces</u></b>			
7	Compaction of ground surface under strip footings and bases, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density (LI)	m <sup>2</sup>	402
8	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density (LI)	m <sup>2</sup>	1,725
<b>Carried Forward</b>			<b>R</b>
Section No. 2 BUILDING EARTHWORKS			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
<b><u>SOIL POISONING</u></b>			
<b><u>Soil insecticide in accordance with SANS 5859</u></b>			
9	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m²	1,725
10	To bottom and sides of trenches etc	m²	402
<b><u>Prescribed density tests on filling</u></b>			
11	Modified AASHTO Density test	No	21
<p style="text-align: right;"><b>Carried Forward to Summary of Section No. 2</b></p> <p>Section No. 2 BUILDING EARTHWORKS</p>			R

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>CPAP ADJUSTMENT</u></b>			
	Unless otherwise stated all the following items shall be deemed to fall into Work Group 110 for Contract Price Adjustment Provisions			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Cost of tests			
	The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)			
	Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	<b>Carried Forward</b>			
	Section No. 2 BUILDING CONCRETE, FORMWORK AND REINFORCEMENT		R	

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	<b>Brought Forward</b>			R
	Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described			
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design purposes. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"			
	-----			
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b><u>15MPa/19mm concrete</u></b>			
12	Surface blinding under footings and bases	m <sup>3</sup>	20	
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
	<b><u>25MPa/19mm concrete</u></b>			
13	Ground beams	m <sup>3</sup>	161	
14	Surface beds on waterproofing	m <sup>3</sup>	173	
	<b><u>TEST CUBES</u></b>			
15	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	60	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>			
16	Surface beds, slabs, etc	m <sup>2</sup>	1,725	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY I)</u></b>			
	<b>Carried Forward</b>			R
	Section No. 2 BUILDING CONCRETE, FORMWORK AND REINFORCEMENT			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	Brought Forward			R
	<b><u>Smooth formwork to soffits</u></b>			
17	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	711	
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<b><u>Saw cut joints</u></b>			
18	3 x 30mm Saw cut joints in top of concrete (SJ)	m	210	
	<b><u>REINFORCEMENT</u></b>			
	<b><u>Mild steel reinforcement to structural concrete work</u></b>			
19	10mm Diameter bars	t	5.70	
	<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
20	16mm Diameter bars	t	7.66	
	<b><u>Fabric reinforcement</u></b>			
21	Type 245 fabric reinforcement in surface beds	m <sup>2</sup>	1,725	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
BUILDING				
CONCRETE, FORMWORK AND REINFORCEMENT				



Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs</p> <p>-----</p> <p><b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 250 micron green waterproof sheeting sealed at laps with pressure sensitive tape</u></b></p>			
22	Under surface beds	m²	3,306	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 BUILDING WATERPROOFING			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>MODULAR/MOBILE BUILDINGS</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	-----			
	<b><u>MODULAR BUILDINGS</u></b>			
	<b><u>Supply and install movable classrooms, ablutions and guardhouse including delivery to site, erection and connection to temporary water supply, sewer and storm water services. All in accordance with the Contract drawings and specifications.</u></b>			
23	Principal's Office (M01), unit size 8.88 x 6.94m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	1	
24	Multipurpose Classroom (M02), unit size 8.88 x 6.94m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	1	
25	Classroom (M03), unit size 8.88 x 6.94m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	19	
26	Ablution Unit (M05A), unit size 6.11 x 3.21m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	2	
27	Ablution Unit (M05B), unit size 9.11 x 3.21m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	2	
28	Guard House (M04), unit size 3.56 x 2.33m wide with and including an eaves overhang of 350mm and 1500mm from the external face of the external wall.	No	1	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	BUILDING			
	MODULAR/MOBILE BUILDINGS			

## Section No. 2

**Bill  
No**

1	EARTHWORKS
2	CONCRETE, FORMWORK AND REINFORCEMENT
3	WATERPROOFING
4	MODULAR/MOBILE BUILDINGS

**Page  
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**Amount  
R**

**Carried to Final Summary**

R

Section No. 2  
BUILDING

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO 1</u></b>			
	<b><u>BULK EARTHWORKS</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	Unless otherwise described, the preambles and full descriptions of the items in the preceeding Bills are to apply equally to this Bill			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	For additional preambles see "SABS 1200" as issued.			
	<b><u>Nature of ground</u></b>			
	A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured			
	<b><u>Carting away of excavated material</u></b>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<b><u>SITE CLEARANCE ETC</u></b>			
	<b><u>Site Clearance</u></b>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m <sup>2</sup>	6,710	
2	Stripping average 100mm thick layer of top soil and stockpiling on site	m <sup>2</sup>	6,710	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS BULK EARTHWORKS			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Brought Forward			R
<b><u>EARTHWORKS (BULK EXCAVATION, FILLING ETC)</u></b>			
<b><u>Open face excavation in earth over sloping site</u></b>			
3	Open face excavation	m <sup>3</sup> 311	
<b><u>Extra over bulk excavation in earth for excavation in</u></b>			
4	Soft rock	m <sup>3</sup> 31	
5	Hard rock excavations	m <sup>3</sup> 16	
<b><u>Extra over bulk excavations in earth for breaking up and removing</u></b>			
6	Brickwork	m <sup>3</sup> 1	
7	Unreinforced concrete	m <sup>3</sup> 1	
8	Reinforced concrete	m <sup>3</sup> 1	
<b><u>Extra over all excavations for carting away, including free-haul up to 1,0km</u></b>			
9	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor including freehaul distance up to 1,0km	m <sup>3</sup> 311	
<b><u>Keeping excavations free of water</u></b>			
10	Keeping excavations free of water other than subterranean water	Item	
<b><u>FILLING ETC</u></b>			
<b><u>Earth filling of G6 material supplied by the contractor in layers of 150mm thick compacted to 97% Mod AASHTO density</u></b>			
11	Over site	m <sup>3</sup> 971	
<b><u>Prescribed density tests on filling</u></b>			
12	"Modified AASHTO Density" test	No 10	
13	"Field Density" test including "Optimum Moisture Content" (four readings per test)	No 1	
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
EXTERNAL WORKS			
BULK EARTHWORKS			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO 2</u></b>			
	<b><u>RETAINING STRUCTURES</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
14	Trenches	m <sup>3</sup>	33	
	<b><u>Risk of collapse of excavations</u></b>			
15	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	94	
	<b><u>Selected earth filling obtained from stock piles on site, including haulage not exceeding 500m from perimeter of stock piles (subbase gravel material)</u></b>			
16	Behind retaining wall compacted to 93% Mod AASHTO density	m <sup>3</sup>	47	
	<b><u>30MPa/19mm reinforced concrete</u></b>			
17	Strip footings	m <sup>3</sup>	18	
	<b><u>Test blocks</u></b>			
18	Making and testing 150 x 150 x 150mm concrete strength test cube	No	3	
	<b><u>Loffelstein precast concrete interlocking planter blocks finished smooth on exposed surfaces</u></b>			
19	Type 500 interlocking planter block retaining structure with stepped face and curves as required to suit slopes laid with horizontal bed joints to 70° slope including backfilling with earth obtained from the excavations and filling the blocks with garden soil lightly tamped as the work proceeds	m <sup>2</sup>	156	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS RETAINING WALLS			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
20	"Bidim U34" or similar approved geofabric filter blanket wrapped around 300 x 300mm stone encasing with 150mm side and end laps, including stitching	m <sup>2</sup>	156
<b><u>HDPe slotted flexible drainage pipes DN160 or similar approved</u></b>			
21	160mm Pipes laid in stone encasing (encasing elsewhere)	m	104
Carried Forward to Summary of Section No. 3			R
Section No. 3 EXTERNAL WORKS RETAINING WALLS			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>SEWER RETICULATION</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>PE100 HDPE pipes</u></b>			
	<b><u>Supply, lay, joint and backfill complete with couplings, compression fittings (Tees and Elbows)</u></b>			
22	110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, including bedding, backfilling and compaction and disposal of surplus material	m	1	
23	110mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep, including bedding, backfilling and compaction and disposal of surplus material	m	142	
24	160mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep, including bedding, backfilling and compaction and disposal of surplus material	m	1	
25	160mm Pipes laid in and including trenches exceeding 2m and not exceeding 3m deep, including bedding, backfilling and compaction and disposal of surplus material	m	135	
	<b><u>Extra over HDPE pressure pipes for solvent welded pressure fittings</u></b>			
26	110mm End cap	No	2	
27	110mm Bend	No	3	
28	160mm End cap	No	2	
29	160mm Bend	No	2	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS SEWER RETICULATION			



**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	Brought Forward			R
30	160 x 110mm Reducer	No	2	
	<b><u>uPVC Gulleys</u></b>			
31	110mm Dished gulley not exceeding 750mm deep	No	1	
	<b><u>MANHOLES</u></b>			
	<b><u>Precast concrete circular inspection chamber 1,050mm internal diameter, with 150mm precast concrete reducer slab over bottom portion, including concrete benching, step irons, etc, with Type 4 Cast iron concrete cover and frame (cover and frame measured elsewhere). Refer to engineers drawing GDETS20S006-01-CIV-SWR-104</u></b>			
32	Manhole exceeding 1m and not exceeding 1.5m deep	No	1	
33	Manhole exceeding 1,5m and not exceeding 2,0m deep	No	4	
34	Manhole exceeding 2,0m and not exceeding 2,5m deep	No	9	
	<b><u>Cast iron covers etc</u></b>			
35	Type 2A heavy duty manhole cover and frame	No	14	
	<b><u>Sundries</u></b>			
36	Unreinforced concrete encasing to 110mm horizontal pipe	m	8	
37	Unreinforced concrete encasing to 160mm horizontal pipe	m	5	
38	Unreinforced concrete encasing to 110mm vertical bend	No	8	
39	Unreinforced concrete encasing to 160mm vertical bend	No	5	
40	Excavate in earth to expose existing inspection chamber	m <sup>3</sup>	1	
41	Cutting into side of existing inspection chamber for and connecting 160mm diameter pipe including inserting 160mm diameter channel junction and making good concrete benching	No	1	
42	Testing soil drainage pipe system		Item	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
EXTERNAL WORKS				
SEWER RETICULATION				

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>WATER RETICULATION</u></b>			
	<b><u>MEDIUM-PRESSURE PIPELINES</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>Class 12 HDPE pipes:</u></b>			
	<b><u>Supply, lay, joint and backfill complete with couplings, compression fittings (Tees and Elbows)</u></b>			
43	32mm Pipes laid in and including trenches not exceeding 1m deep, including bedding, backfilling and compaction and disposal of surplus material	m	162	
44	25mm Pipes laid in and including trenches not exceeding 1m deep, including bedding, backfilling and compaction and disposal of surplus material	m	132	
	<b><u>Extra over HDPE pressure pipes for solvent welded pressure fittings</u></b>			
45	25mm Bend	No	6	
46	25 mm End cap	No	1.00	
47	32mm Bend	No	2	
48	32mm x 25mm Reducer	No	2	
49	32 mm End cap	No	2.00	
	<b><u>Sundries</u></b>			
50	Excavation in earth to expose existing water main pipeline not exceeding 2m deep for new connection including backfilling, compaction, etc	m <sup>3</sup>	1	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS WATER RETICULATION			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
51	Unreinforced concrete class 20MPa/19mm in thrust blocks at bends, tees, etc including necessary excavations, formwork, etc	m <sup>3</sup>	1
52	Unreinforced concrete class 20MPa/19mm encasing to horizontal pipes	m <sup>3</sup>	1
53	Precast concrete marker block	No	2
54	Carefully cutting into existing 110mm diameter uPVC Municipal water main pipe, remove short length of pipe, prepare ends of existing pipe to receive new fitting and supply and install new 110mm tee for connection to new supply line	No	1
55	Testing water and fire water pipe systems	Item	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
EXTERNAL WORKS			
WATER RETICULATION			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>STORMWATER RETICULATION</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>STORMWATER CHANNELS</u></b>			
	<b><u>Excavation:</u></b>			
56	Excavation not exceeding 2m deep for channels and cart away	m <sup>3</sup>	13	
57	Trimming and grading of verges	m <sup>2</sup>	64	
	<b><u>Compaction of surfaces</u></b>			
58	Compaction of ground surface including scarifying, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m <sup>2</sup>	107	
59	One layer of 250 micron waterproof sheeting sealed at laps with pressure sensitive tape	m <sup>2</sup>	107	
60	Reinforced concrete class 25MPa/19mm in bottoms and sides of channels	m <sup>3</sup>	27	
61	Finishing top surfaces of concrete smooth with a wood float	m <sup>2</sup>	107	
62	Rough formwork to outsides of channel walls and floor	m <sup>2</sup>	107	
63	Smooth formwork to insides of channel walls	m <sup>2</sup>	107	
64	Box out 350 x 350mm opening through 150mm thick floor for outlet to junction box below	No	10	
65	Welded mesh reinforcement Ref 617 in floors and walls	m <sup>2</sup>	213	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS STORMWATER RETICULATION			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
<b><u>Stormwater outlet etc. (gratings elsewhere measured) (refer to engineers drawing GDETS20S006-CIV-SWT-102)</u></b>			
66	Stormwater Outlet structure complete	No	10
<b><u>Gratings, covers, etc</u></b>			
67	Cast iron dished grating and frame	No	10
<b><u>Sundries</u></b>			
68	Excavate in earth to expose existitng junction box	m³	1
69	Cut into side of existing junction box and form new connection with 450mm concrete stormwater pipe including sealing and making good	No	1
70	0 m up to 1,5 m	m³	13
<b><u>TESTING</u></b>			
71	Test stormwater drainage system to the satisfaction of the Representative/Agent and the Local Authority including providing all necessary testing apparatus, water, etc		Item
72	"Modified AASHTO Density" test	No	3
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3 EXTERNAL WORKS STORMWATER RETICULATION			

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>PAVING AND PARKING</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>EARTHWORKS (ROADS, SUBGRADE)</u></b>			
	<b><u>Open face excavation in earth over sloping site</u></b>			
73	Open face excavation to form platform under parking areas etc and depositing excavated material over site including haulage not exceeding 1km from perimeter of excavations	m³	660	
	<b><u>Extra over all excavations for carting away:</u></b>			
74	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m³	330	
	<b><u>LAYER WORKS</u></b>			
	<b><u>Construct gravel base G6 material 150mm thick and compact to 95% mod AASHTO maximum density with material from commercial sources.</u></b>			
75	Construct the base with material from commercial sources	m³	330.00	
	<b><u>Construct gravel sub base G7 material 150mm thick and compact to 95% mod AASHTO maximum density with material from commercial sources.</u></b>			
76	Construct the sub base with material from commercial sources	m³	330.00	
	<b>Carried Forward</b>			
	Section No. 3 EXTERNAL WORKS PAVING		R	

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	Brought Forward			R
	<b><u>Compaction of surfaces</u></b>			
77	Compaction of ground surface under paving etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m <sup>2</sup>	2,200	
	<b><u>Prescribed density tests on filling:</u></b>			
78	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	5	
	<b><u>One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':</u></b>			
79	Under pavings	m <sup>2</sup>	2,200	
	<b><u>"Approved" weed killer mixed with water and applied at a rate of 100grams/m2</u></b>			
80	Under paving etc	m <sup>2</sup>	2,200	
	<b><u>SEGMENTED PAVING</u></b>			
	<b><u>60mm standard grey double zig zag interlocking roadstone paving on 25mm thick cement/riversand bed with sand and cement mixture swept into joints and hosed down</u></b>			
81	Paving to walkways and parking to falls	m <sup>2</sup>	2,200.00	
82	Extra for circular cutting not exceeding 2m radius.	m	42	
	<b><u>KERBING</u></b>			
	<b><u>150 x 300mm Half-battered concrete kerb (SABS 927 Fig. 3) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:</u></b>			
83	Figure 3 Kerbing	m	570.00	
84	Figure 3 barrier kerb circular on plan	m	42.00	
	<b>Carried Forward</b>			R
	Section No. 3 EXTERNAL WORKS PAVING			

SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
<b><u>SCHEDULED ITEMS FOR PERMANENT ROAD SIGNS</u></b>			
<b><u>ROAD MARKINGS</u></b>			
<u>Prepare and paint one coat approved white, red or yellow 1.25mm thick thermoplastic, reflective road marking paint with Class 1 reflective beads within the paint on precast concrete pavers surface as per "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1091-1975:</u>			
85	100mm Wide broken or continuous lines. Code: RM1.	m	50
86	Single direction white arrow	No	4
87	Paraplegic sign	No	1
<b><u>ROAD SIGNS</u></b>			
<u>Class 1 retro-reflective road sign complying with the requirements of "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1519, including galvanised steel support post 76mm diameter x 3mm thick x 2500mm long above finished ground level and minimum 600mm from road edge (to edge of sign) including all necessary excavation, backfilling, etc. including setting post in 25Mpa concrete base size 600mm diameter x 900mm minimum thickness:</u>			
88	600mm Diameter 'STOP' sign. Code: R1.	No	1
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
EXTERNAL WORKS			
PAVING			



**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>FENCING</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>MESH FENCING</u></b>			
	<b><u>All tubular posts, stays, standards, frames, etc. to be painted with one coat primer and two finishing coats of aluminium paint</u></b>			
89	a) Clear and grub vegetation to a width adequate for the erection of the fencing and leveling of ground	m	339	
90	b) Security fencing 1.8m high with a 450mm wide 45 degree overhang to one side formed by 50 x 50 x 2.5mm welded mesh secured with 2mm galvanised binding wire to and including 4 strands of straining wire. It shall be mechanically strained between straining and/or gate and corner posts at 45m centers with one end passing through holes and securely tied to the post and the other end securely tied to eyebolts bolted onto post. Each strand shall be tied at maximum 3m centers to steel standard (intermediate) posts with and including two rows of flat wrap razor security wire in 450mm diameter at overhang, and 700mm diameter at ground level, loops shall be fixed at each intersection with barbed straining wire including 2mm galvanised binding wire.	m	339	
91	c) Inclined stay 2.4m long with one end bolted to post and the other end with sole plate in 15 Mpa concrete base (included) size 0.3m x 0.3m x 0.4m including any necessary excavation, formwork, etc.	No	113	
92	d) Straining post 2.4m high with 450mm 45 degree overhang including cap and other end with soleplate in 15 Mpa concrete base (included) size 0.3m x 0.3m x 0.6m including any necessary excavation, formwork, etc.	No	113	
	<b>Carried Forward</b>			
	Section No. 3 EXTERNAL WORKS FENCING		R	

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward		R
93	e) Corner or gate post 2.4m high with 450mm 45 degree overhang including cap and other end with soleplate in 15 Mpa concrete base (included) size 0.3m x 0.3m x 0.6m including any necessary excavation, formwork, etc.	No 2
Carried Forward to Summary of Section No. 3		R
Section No. 3 EXTERNAL WORKS FENCING		

## Section No. 3

**Bill  
No**

## 1 BULK EARTHWORKS

## 2 | RETAINING WALLS

### 3 SEWER RETICULATION

## 4 WATER RETICULATION

## 5 STORMWATER RETICULATION

6 | PAVING

7	FENCING
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**Page  
No**

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**Amount  
R**

**Carried to Final Summary**

R

### Section No. 3

### EXTERNAL WORKS

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 4</u></b>			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	<b><u>PREAMBLES</u></b>			
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities			
	<b><u>LOW VOLTAGE CABLE</u></b>			
	<u>Refer to Drawing (ST-0300-01-A)</u>			
1	95mm <sup>2</sup> , 4 core PVC/SWA/PVC copper cable	m	350	
2	50mm <sup>2</sup> BCEW	m	350	
3	10mm <sup>2</sup> , 4 core PVC/SWA/PVC copper cable	m	560	
4	6mm <sup>2</sup> BCEW	m	560	
5	Decommision existing supply to care taker house, put cable in safe storage for re-use during construction of main school. Rate should include cost of exposing the cable, recoiling and backfilling the exposed trench	m	194	
	<b><u>TRENCH</u></b>			
	<u>All prices below includes the excavation of trenches and holes, separating of stones and soil, rocks etc, levelling of trench beds, refill compacting and reparation of all surfaces to the original finish (800mm deep x 600mm wide)</u>			
6	Excavating in Earth	m	840	
7	Excavating in Soft Rock	m	150	
8	Excavating in Hard Rock	m	50	
9	Backfill and compact 600mm deep and 400mm wide	m	760	
10	Danger Warning Tape	m	760	
	<b>Carried Forward</b>			
	Section No. 4 ELECTRICAL INSTALLATION Electrical Installation		R	

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

	<b>Brought Forward</b>			R
	<b>KIOSK + PLINTH</b>			
11	As per SLD			SUM
	<b>Junction Boxes</b>			
12	600mm x 600mm draw box surface IP 65 complete with switch gear	No	17	
	<b>MCCB( Supply to kiosk)</b>			
13	175-225A, 15 kA triple pole	No	1	
14	Temporal power to construction site			SUM
	<b>INTERCOM SYSTEM</b>			
	<u>Upgrade the existing analogue intercom system. The system must have the ability to provide selective calling (one or two way communication with no Push To Talk) to a particular speaker. It must also be able to cluster speakers for the purposes of broadcasting / paging to a selected number / group of speakers / all the speakers. System must be noiseless with no feedback. Call initiation must only be possible from the main control unit.</u>			
	<u>Supply and install</u>			
15	90 Way Intercom Controller Master Station. Must support or drive a minimum of 90 speakers	No	1	
16	High quality, wall mount, indoor, intercom module complete with Speaker (10W) & microphone. The microphone must be very sensitive, able to clearly pick audio in a class environment when activated with no feedback	No	22	
17	Outdoor Intercom module complete with Horn Speaker (5-30W) & microphone. (IP66)	No	5	
18	Program Preset Timer for optional School Bell System (hardware unit with lcd display, running bell control software)	No	1	
19	Paging console with Gooseneck microphone	m	1	
20	400mm x 300mm x 200mm draw box surface IP 65	m	11	
	<b>Carried Forward</b>			R
	Section No. 4 ELECTRICAL INSTALLATION Electrical Installation			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

Brought Forward			R
21	4 core comms cable	m	1,800
22	20 core comms cable.	m	300
23	25mm galvanized conduiting and accessories	m	220
24	110mm ø flexible sleeve	m	400
25	32mm ø flexible sleeve	m	100
26	600 x 600 x 800mm manholes with cast iron cover.	No	12
<b><u>Testing and Commissioning</u></b>			
27	Testing and Commissioning of Installation		SUM
28	Manuals, Documentation, AS Builts		SUM
29	Labelling of Equipment		SUM
30	Training of Personnel	No	4
<b>Carried to Final Summary</b>			R
Section No. 4 ELECTRICAL INSTALLATION Electrical Installation			

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

Item No		Quantity	Rate	Amount R
<b><u>SECTION NO. 5</u></b>				
<b><u>MECHANICAL INSTALLATION</u></b>				
<b><u>PREAMBLES</u></b>				
Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities				
<u>Design, manufacture, works testing, supply and deliver to site, moving into position, erection, connecting up, site testing, witness testing, providing to insurance inspectors, demonstrating to the Employer, commissioning and maintenance of the complete mechanical systems and equipment as shown on the drawings.</u>				
<b><u>HEATING, VENTILATION &amp; AIR CONDITIONING ( HVAC)</u></b>				
<b><u>Whirley Birds</u></b>				
Fire rated turbine ventilator Dia 300mm galvanised material complete with penetration and water proofing				
1	Supply	No	20	
2	Install	No	20	
<b><u>FIRE PROTECTION</u></b>				
<b><u>Hydrants</u></b>				
3	80mm HDPE Class 12 Pipes	m	100	
4	75mm Hydrant Tees	No	2	
5	80mm Right Hand Vandal Proof Hydrants complete with standpipes tees to make a complete installation	No	2	
6	Allow for trenching, sand and backfilling of trenches			SUM
<b>Carried Forward</b>				R
Section No. 5 MECHANICAL INSTALLATION Mechanical Installation				

**SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION  
FACILITIES AT FLEUR PRIMARY SCHOOL**

	Brought Forward			R
	<b><u>Hand Held Fire Extinguishers</u></b>			
7	4.5kg of Dry Chemical Powder fire extinguishers c/w red fire extinguisher cabinet cover.	No	20	
8	890mm Heigh x 590mm Width x 285mm Depth Fire Extinguishers Cabinet.	No	10	
9	5.0kg CO2 Fire Extinguisher c/w with chevron backing plate	No	1	
	<b><u>Fire Signage</u></b>			
	<u>Photoluminescent signs on Steel Frame, SABS Approved</u>			
10	Ext signs F4 190 x 578	No	20	
11	Exit signage	No	20	
12	Escape Route Sign	No	5	
13	Emergency Assembly Point	No	1	
	<b><u>COLD WATER SUPPLY</u></b>			
	<u>Note: Prices shall include Supply and Installation</u>			
	<b><u>Half hard drawn copper pipes Class 2 in accordance with SABS 460 with capillary type soldered joints made in accordance with manufactures written instructions, coupling in running light.</u></b>			
14	28mm dia. pipe	m	40	
15	22mm dia. pipe	m	60	
16	15mm dia. pipe	m	80	
	<b><u>Extra over 28mm dia. pipe capillary soldered fittings.</u></b>			
17	28mm dia. tee	No	20	
18	28 x 22 x 28mm dia. tee	No	20	
19	28 x 15 x 28mm dia. tee	No	20	
	<b>Carried Forward</b>			R
	Section No. 5 MECHANICAL INSTALLATION Mechanical Installation			



## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

[illegible]

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

	Brought Forward		R	
	<u>uPVC Pipes and fittings with butt welded joints, electro weld sockets and bracketing, all as necessary, as per uPVC - Pipes and fittings for Sanitary Drainage Installations and in accordance with the details, specifications and recommendations for uPVC Applications.</u>			
36	50 mm Pipes PVC	m	90	
37	110 mm Pipes PV	m	50	
38	50 mm Pipes uPVC	m	40	
39	110 mm Pipes uPVC	m	50	
40	110 mm Reducer to 50mm	No	10	
41	50 mm 45° Bend	No	15	
42	110 mm 45° Bends	No	26	
43	50 mm 90° Bends	No	30	
44	110 mm 90° Bends	No	15	
45	50 mm Y-branch fitting	No	10	
46	110 mm Y-branch fitting	No	8	
47	50 mm Double Y-branch fitting	No	6	
48	110 mm Double Y-branch fitting	No	6	
49	50 mm T-branch fitting	No	5	
50	110 mm T-branch fitting	No	6	
51	110 mm (90°) Access pipe with round screwed cover	No	10	
52	50 mm (90°) Access pipe with round screwed cover	No	12	
53	110 mm Complete stop end with screwed end	No	29	
54	110 mm Expansion socket with anchor	No	34	
55	110 mm Two way air relief vent	No	30	
	Carried to Final Summary			R
	Section No. 5 MECHANICAL INSTALLATION Mechanical Installation			

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

[illegible]

## SUPPLY AND INSTALLATION OF MOVABLE CLASSROOM AND ABLUTION FACILITIES AT FLEUR PRIMARY SCHOOL

SUMMARY OF SECTION NO. 2: BUILDING WORK			Page No	Amount R
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TOTAL CARRIED TO FORM OF TENDER			R	



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER:** DID20/11/2022

**SERVICE:** SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT LAERSKOOL FLEUR

## Part C3.1 Scope of Work

### 1 DESCRIPTION OF THE WORKS

#### 1,1 Employer's objectives

- To provide education infrastructure for the benefit of the community
- To provide short term employment to local communities during the construction period in line with government policies
- The employer's objectives are to deliver public infrastructure using labour intensive methods accordance with EPWP Guidelines of 2015 and Ministerial Determination.

#### 1,2 Overview of the works

The works comprises supply and installation of movable classroom and ablution facilities complete including siteworks and connection of electricity, sewer, water supply at Fleur Primary School

#### 1,3 Extent of the works

The extent of the works shall comply with the Employer's specific brief as follows:

Supply and installation of movable classroom and ablution facilities complete including siteworks and connection of electricity, sewer, water supply at Fleur Primary School

#### 1,4 Location of the works

236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S 28°21'02"E

No building work or foundations to violate servitudes if any on site. All building structures to be erected not beyond the building line restrictions.

#### 1,5 Temporary works

Temporary works to be in accordance with the site requirements for the contractor's establishment camp with temporary sewer, water and electrical connections. All in accordance with the approval from the Local Authorities.

## 2 ENGINEERING

### 2.1 Design services

*responsibilities for design and related documentation:*

Works designed by, per design stage:

Concept, feasibility and overall process .....	Employer
Basic engineering and detail layouts to tender stage .....	Employer
Final design to approval for construction stage .....	Employer
Temporary works .....	Contractor
Preparation of as-built drawings .....	Employer

### 2.2 Employer's design

The employer is responsible for the design of the permanent works unless otherwise stated. The contractor is responsible for the design of the temporary works and their compatibility with the permanent works

### 2.3 Design brief

The Contractor shall supply all details necessary to assist the project manager in the compilation of the as built drawings

As-built drawings to indicate the following information:

- Construction breaks and the extent of individual concrete pours
- Routing of and junctions in all services
- Salient features for the operation and maintenance of services

and to be submitted to the following employer's required format and manner:

- A paper copy complete with approval signatures of the agent/agents bound into the operating instruction manuals
- Tiff format scanned versions of the approved paper copy
- Electronic version of approved drawings on CD in either Caddie.drw or Autocad.dwg formats

## 2,4 Drawings

The following drawings are applicable to the contract:

### **No.     Drawing number**

<b>1,00 Architectural</b>	TBA
<b>2,00 Structural and Civil</b>	TBA
<b>3,00 Electrical</b>	TBA
<b>4,00 Mechanical</b>	TBA

## 2,5 Design procedures

The design is done by the client who takes the responsibility and contractor involved at construction only.

## 3 PROCUREMENT

### 3,1 Preferential procurement deliverables

Where the contractor claims a preference in the Preferencing Schedule for subcontracting work to CIDB registered contractors having specified CIDB contractor grading designations, the contractor shall deliver deliverable C1, Provide business opportunities for targeted enterprise, in accordance with the requirements of the CIDB Specification for Social and Economic Deliverables in Construction Works Contracts (SSED) (see [www.cidb.org.za](http://www.cidb.org.za)) and the following associated specification data associated with SANS 1914-1 which shall have precedence in the interpretation of any ambiguity or inconsistency:

2,7	The employer's representative is the Principal Agent identified in the Contract Data
2,17	<p>A targeted enterprise is a CIDB registered contractor who has a contractor grading designation of 1, 2, 3 or 4.</p> <p>The targeting strategy is A.</p> <p>The contract participation goal is as proposed in the Preferencing Schedule for which a preference was granted.</p> <p>The contract participation goal may only be achieved by subcontracting work to one or more targeted enterprises to perform commercially useful functions in the performance of the contract.</p> <p>The targeted enterprise declaration and letters of undertaking are to be submitted <b>within three (3) months</b> of the commencement of the contract.</p>

### 3,2 Provide employment and skills development opportunities to targeted labour

The contractor shall deliver Deliverable B1, provide employment and skills development opportunities The contractor shall deliver Deliverable B1, provide employment and skills development opportunities to targeted labour, in accordance with the requirements of the CIDB Specification for Social and Economic Deliverables in Construction Works Contracts (SSED) (see [www.cidb.org.za](http://www.cidb.org.za)) and the following associated specification data, which shall have precedence in the interpretation of any ambiguity or inconsistency:

4.3.1.1	<p>The following activities are to be carried out by temporarily employed local workers:</p> <ul style="list-style-type: none"> <li>• earthworks activities which are to be performed by hand, namely. Trench excavation, compaction of backfilling to trenches in areas not subject to traffic, clearing and grubbing, shaping, loading, haul, off-loading, spreading, compaction and grassing</li> <li>• stone pitching and rubble masonry</li> <li>• manufactured elements</li> <li>• .....</li> </ul>
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4.3.2.1.2	<p>The rate of pay is R200 per day. The same rate shall be paid during training, and in the event training occurs far from the site, a stipend to cover additional costs over and above the rate shall be paid to the trainees.</p> <p>10.4.1 The rate set should take into account wages paid for comparable unskilled work in the local area per sector, if necessary.</p> <p>10.4.2 The rate should be an appropriate wage to offer an incentive for work, to reward effort provided and to ensure a reasonable quality of work. It should not be more than the average local rate to ensure people are not recruited away from other employment and jobs with longer-term prospects.</p> <p>10.4.3 Men, women, disabled persons and the aged must receive the same pay for work of equal value)</p> <p>The specification data associated with SANS 1921-5 is as follows:</p> <p><b>Essential data</b></p> <p><b>Variations</b></p> <p>Prior approval to be obtained from GDID before works proceed</p> <p>.....</p>
	<p><b>Additional clauses</b></p> <p>.....</p> <p>state additional requirements and identify other activities to be performed by hand, as required</p>

The Schedule which is to be attached to payment claims in terms of clause 4.3.2.2.8 of SSED is as shown in figure 1.

### 3.3 Participation goals

#### 3.3.1

1. The successful tenderer are encouraged to subcontract to local exempted micro enterprises (EME's) and/or qualifying small business enterprises (QSE's) in accordance with the Preferential Procurement Regulations, 2017.
2. If organ of state applies subcontracting as contemplated in subregulation
  - a) an EME or QSE;
  - b) an EME or QSE which is at least 51% owned by black people;
  - c) an EME or QSE which is at least 51% owned by black people who are youth;
  - d) an EME or QSE which is at least 51% owned by black people who are women;
  - e) an EME or QSE which is at least 51% owned by black people with disabilities;
  - f) an EME or QSE which is at least 51% owned by black people living in rural or underdeveloped areas or townships;
  - g) a cooperative which is at least 51% owned by black people;
  - h) an EME or QSE which is at least 51% owned by black people who are military veterans; or
  - i) more than one of the categories referred to in paragraph (a) to (h)
5. the organ of state must make available the list of all suppliers registered on a database approved by the National Treasury to provide the required goods or services in respect of the applicable designated groups mentioned in subregulation (2) from which the tenderer must select a supplier.



**3.3.2** Employ a maximum of 40% of the total labour requirement of the contract from the local community.

The salaries of the 40% labour from the community is to the contractor's account and no funds from the EPWP allowables will be used for salaries.

**3.3.3** The total labour requirements of the contract should be in the following proportions:

- a minimum of 55% to women;
- a minimum of 55% to youth who are between the ages of 18 and 35 years of age; and
- a minimum of 2% to persons with disabilities.

EPWP budget will be managed in conjunction with EPWP personnel from the employer.

**3.4 Social and economic deliverables**

The contractor shall deliver the following deliverables as described in the CIDB Specification for Social and Economic Deliverables in Construction Works Contracts (SSED) and the following associated specification data:

- 1) Deliverable .....
- 2) Deliverable .....

The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies

The associated Specification Data is as follows:

Deliverable .....	
Clause	Specification data
Variations: 1)..... 2)..... Additional clauses: 1).....	

Deliverable .....	
Clause	Specification data
Variations: 1)..... 2)..... Additional clauses: 1).....	

## 4 CONSTRUCTION

### 4.1 Works specification

The works specifications that are applicable to the works are marked with a cross hereunder in the relevant box(es). The specifications are obtainable on request from the Employer.

#### Architectural, Structural and Civil

<input checked="" type="checkbox"/>	General Specification for Material and Methods to be used for Building Contracts	GP/ASC
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#### Electrical

<input checked="" type="checkbox"/>	Standard quality specifications for Intercom Systems	GP/E1/1
<input checked="" type="checkbox"/>	Standard quality specifications for Public Address Systems	GP/E1/2
<input checked="" type="checkbox"/>	Standard quality specifications for Silent Call Systems	GP/E1/3
<input checked="" type="checkbox"/>	Standard quality specifications for Access Control Systems	GP/E2/1
<input checked="" type="checkbox"/>	Standard quality specifications for Intruder Alarm Systems	GP/E2/2
<input checked="" type="checkbox"/>	Standard quality specifications for Fire Detection Systems	GP/E2/3
<input checked="" type="checkbox"/>	Standard quality specifications for Standby Generators	GP/E4/1
<input checked="" type="checkbox"/>	Standard quality specifications for UPS Systems	GP/E4/2
<input checked="" type="checkbox"/>	Standard quality specifications for Solar Power Systems	GP/E4/3
<input checked="" type="checkbox"/>	Standard quality specifications for General Installations	GP/E5/1
<input checked="" type="checkbox"/>	Standard quality specifications for Material and Equipment	GP/E5/2

#### Mechanical

<input checked="" type="checkbox"/>	Standard quality specifications for Heating Installations	GP/M2
<input checked="" type="checkbox"/>	Standard quality specifications for Steam and Condensate Reticulation	GP/M4
<input checked="" type="checkbox"/>	Standard quality specifications for Medical Gas and Vacuum Systems	GP/M5
<input checked="" type="checkbox"/>	Standard quality specifications for Air Conditioning Installations	GP/M6
<input checked="" type="checkbox"/>	Standard quality specifications for Refrigeration Services	GP/M7

#### 4.1.1 Applicable standards

The contractor shall ensure that all building regulations and standards are applied.

#### 4.1.2 Applicable SANS 2001 standards

The Contractor shall ensure that a master installation electrician is required to oversee and certify any electrical work to the works - refer SANS 101412 - 1.

#### 4.1.3 Applicable national and international standards

#### 4.1.4 Particular / generic specifications

- 1 Standard General Specification for materials and installation Rev GP / ASC Rev 0
- 2 Standard Quality Specification for general Electrical Installations
- 3 Quality Specification for Electrical Materials and Equipment
- 4 Standard Specifications for Communications, security and specialized power supply systems
- 5 Standard Quality Specifications for Mechanical Equipment

Architects specification

Structural Engineer specification

Civil Engineer specification

Electrical Engineer specification

Mechanical Engineer specification

Fire Specialist specification

ICT Specialist specification

Health Technologies specification

Health and Safety specification

#### **4.1.5 Certification by recognised bodies**

#### **4.1.6 Agrément certificates**

### **4.2 Plant, equipment and materials**

#### **4.2.1 Plant, equipment and materials supplied by the employer**

The contractor shall provide all plant, equipment, materials, scaffolding, formwork, tools and the like necessary for the execution of the works

#### **4.2.2 Materials, samples and shop drawings**

##### ***Samples of materials***

The contractor shall furnish samples of materials and specimens of finishes as may be called for by the supervisor the supervisor for his approval.

##### ***Workmanship samples***

The supervisor may instruct the contractor to furnish samples of workmanship for his approval. Where the supervisor requires an assembly of various elements of the building or installation which is not incorporated in the works, the contractor shall arrange such an assembly at the employer's expense and the contract value shall be adjusted accordingly.

##### ***Shop drawings***

Only shop drawings and samples submitted for approval by the contractor shall be considered by the supervisor. The supervisor's approval of shop drawings or samples shall be limited to checking for general conformity with design and specification and shall not alter the design responsibilities in terms of the agreement. Where shop drawings are called for:

The contractor shall:

- Prepare, or ensure that a subcontractor, manufacturer, supplier or distributor prepares shop drawings at their own expense
- Submit sufficient copies of shop drawings to the supervisor for approval.
- Allow the supervisor reasonable time to approve shop drawings.
- Keep a record of all shop drawings submitted to the supervisor.
- Ensure that shop drawings conform to the dimensions of built work.
- Submit sufficient copies of the approved shop drawings to the supervisor for his use and for use on the works
- Ensure that work is not executed from shop drawings that have not been approved by the supervisor

The supervisor shall:

- Check the shop drawings submitted by the contractor timeously.
- Advise the contractor where shop drawings are approved or are to be resubmitted.

**4.2.3 Instruction manuals and guarantees**

The contractor shall hand over to the project manager any operating and instruction manuals, data, product guarantees or instructions required by the project manager or provided by the manufacturers, suppliers or subcontractors

Operating and instruction manuals are to be submitted to the following employer's required format and manner:

- One (1) master manual which contains all original certificates
- Three (3) copies of the master manual

**4.2.4 Training staff of the employer**

The contractor shall train all relevant staff of the employer in the safe operating procedures of the starting up, maintaining and shutting down of equipment supplied, all to the approval of the project manager.

**4.2.5 As-built drawings**

The contractor shall hand over all as-built drawings as a part of the O&M Manual to the project manager

As-built drawings are to be submitted to the employer in the required format and manner as detailed in the Standard Specification for Documentation

**4.3 Existing services****4.3.1 Known services**

No known services.

**4.3.2 Dimensional accuracy**

The contractor shall within **four (4) weeks** of the access date check the existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the supervisor of any inaccuracy.

**4.3.3 Treatment of existing services**

Any existing services encountered during the execution of the works such as underground cables, pipes or sewers should be notified to the project manager and the contractor is to suspend all affected work in the immediate vicinity until instruction to terminate, divert, continue to be used either temporarily or permanently has been given by the project manager.

**4.3.4 Use of detection equipment for the location of underground services****4.3.5 Damage to services**

Any damages to existing services and structures will be for the account of the contractor. The contractor will be responsible to protect services, known and unknown, and exercise extra caution when working in close proximity to services.

**4.3.6 Reinstatement of services and structures damaged during construction**

Any damages to existing services and structures will be for the account of the contractor. The contractor to ensure services and structures damages during construction are repaired to reinstated the services and structures to their original position.

#### **4.4 Site establishment**

##### **4.4.1 Services and facilities provided by the employer**

All new services to be connected to existing services

##### **Water and electricity**

The employer does not warrant that any water or electricity supply that may exist is adequate for the proper execution of the works. Where such supply is inadequate, the contractor shall provide an adequate supply at his own expense.

##### ***Service - Water***

The contractor shall make and upon completion remove all the necessary temporary plumbing connections to the employer's water supply at designated points and make use of water free of charge for construction purposes only.

##### ***Service - Electricity***

The contractor shall make and upon completion remove all the necessary temporary installation to the employer's electrical supply at designated points and make use of electricity free of charge for construction purposes only.

##### **Ablution facilities**

The employer shall permit the contractor usage of the existing ablution facilities. The contractor shall maintain such facilities in a thoroughly clean and tidy condition and make good any damage thereto at his own expense.

##### **4.4.2 Facilities provided by the contractor**

Office space will be made available for the contractor, this office to be kept clean and tidy at all times

##### **Offices**

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the project manager and supervisor, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, table and eight chairs. The office shall be kept clean and fit for use at all times.

##### **Sheds**

The contractor shall provide, maintain and remove on completion of the works sheds for the proper storage of materials and for use by the contractor's workers

##### **Water and electricity**

The employer does not warrant that any water or electricity supply that may exist is adequate for the proper execution of the works. Where such supply is inadequate, the contractor shall provide an adequate supply at his own expense.

##### ***Service - Water***

The contractor is to provide and remove and make good upon completion all the necessary temporary plumbing connections and purchase water from the local authority for the works at his own cost.

The contractor shall make and upon completion remove all the necessary temporary plumbing connections and water meters to the employer's water supply at designated points and be responsible for costs associated with all water consumption.

##### ***Service - Electricity***

The contractor is to provide and remove and make good upon completion all the necessary temporary electrical connections and installations and purchase electricity from the local authority for the works at his own cost.

The contractor shall make and upon completion remove all the necessary installation and meters to the employer's electrical supply at designated points and be responsible for costs associated with all electricity consumption.

#### **Ablution facilities**

The contractor is to provide, erect where directed, and remove on completion of the works, ablution facilities and shall maintain such facilities in a thoroughly clean and tidy condition.

#### **Telecommunication facilities**

The contractor shall provide the following telecommunication facilities and shall be entitled to recover usage costs from the users thereof:

- Telephone
- Facsimile
- E-mail

#### **Security of the works**

The contractor shall take all appropriate measures for general security of the works.

#### **Compliance with manufacturer's instructions**

The contractor shall take delivery of, handle, store, use, apply and fix all products in strict accordance with the manufacturer's instructions.

#### **Protection / isolation of existing / sectionally occupied works**

The contractor shall provide all temporary measures to protect / isolate the existing and / or sections of the occupied works and remove such measures on completion.

#### **Vehicles and equipment**

Parking for vehicles will be arranged with the facility manager.

#### **Advertising rights**

*No advertising rights allowed*

#### **Notice boards**

The contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board, size 2,44m wide and 2,89m high, according to the standard drawing available from the employer, 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 lettering is to be 50mm and 100mm "sans serif" in ivory white on the blue background and in 100mm "sans serif" in navy blue on the ivory white background. The inscription, in one language only, which must bear the approval of the project manager. No other names or notice boards may be erected without the written approval of the project manager.

Sketch drawings of all proposed names or notice boards must be submitted to the project manager for approval, before being prepared and erected on site. These sketch drawings must not only show the full content of the proposed names or notice boards, but also the position and locality in which the boards will be erected.

**Notice before covering work**

The contractor shall give adequate notice to the project manager whenever any work or material which is subject to inspection or remeasurement is to be covered or concealed in any way. In default of such a notice being received timeously by the project manager such work shall be exposed and later made good at the contractor's expense.

**4,5 Site usage**

Only for the purpose of the contract.

**4,6 Permits and way leaves**

*All works to be done on decanting facilities*

**4,7 Inspection of adjoining properties**

Not Applicable to this contract.

Where instructed by the project manager, levels and photographs shall be taken by the contractor and the cost thereof shall be for the employer's account. Certified copies shall be lodged with the project manager.

**4,8 Water for construction purposes**

Water will be supplied from existing water reticulation outside the site.

**4,9 Survey control and setting out of the works**

Contractor to set out all work before construction.

**5 MANAGEMENT****5,1 Management of the works****5.1.1 Applicable SANS 1921 standards**

Refer to SANS 1921-1:2003 for specific guidance.

**5.1.2 Particular / generic specifications**

Departmental specification as indicated will apply.

**5.1.3 Planning and programming**

Project execution program to be supplied to ensure completion of the works in six (6) months. The contractor shall be responsible for the planning and programming of the works in sufficient detail as to represent the units of work to enable the project manager to assess the progress of the works.

The contractor shall:

- Program the works
- Coordinate subcontractors' and employer's direct contractors programme with his own
- Implement and modify the programme should any significant deviation take place
- Provide copies of the programme and its supporting documents with all updates to the project manager and subcontractors where relevant

**5.1.4 Sequence of the works**

All works to be done as per the contractor's programme.

**5.1.5 Software application for programming**

Microsoft Projects.

**5.1.6 Methods and procedures**

- *Site to be clean at all times as it is in an new clinic*
- *All works to be done in co-operation with the staff*
- *Site records to be kept at all time regarding staff and equipment*
- *Working hours to be agreed with the clinic staff*
- *Dust to be kept at a minimum*
- *All scaffolding and temporary works to be safe at all times*
- *All removing of old materials to be done with the service elevator*
- *All works to be maintained in good order until final hand over*
- *care of the works; plant and materials;*
- *establishing and removing equipment from the site;*
- *samples and mock ups;*
- *progress photographs;*
- *maintenance until completion;*
- *plant codification (configuration management);*
- *training of operators;*
- *materials storage facilities and samples for tests and inspections to be provided;*
- *etc.*

**5.1.7 Quality plans and control**

All works to be compliant to the standard departmental quality specifications.

**5.1.8 Environment**

Care to be taken that to minimize the dust nuisance, noise levels, pollution of streams, and inconvenience to, or interference with the public or others arising out of the execution of the works

**5.1.9 Accommodation of traffic on public roads occupied by the contractor**

Not applicable.

**5.1.10 Other contractors on site**

No other contractors will be allowed on site.

**5.1.11 Testing, completion, commissioning, correction of defects and maintenance**

*All works will be tested and certified before:*

- *use of the works before completion has been certified;*
- *handover / beneficial occupation;*
- *precommissioning and commissioning of the works or part thereof, before and after completion;*
- *certifying completion;*
- *start-up; operation of the works ; special arrangements associated with operating plant and machinery, etc.;*
- *training and technology transfer;*
- *take over;*
- *operational maintenance (if any), after completion;*
- *work which contractors may carry out after completion has been certified (in addition to correcting defects); and*
- *arranging access for correction of defects*



### **Testing of plant and equipment**

The contractor shall provide all necessary test apparatus including ladders, scaffolding, tools, lighting, etc as may be necessary for inspection, examining and testing materials, workmanship and performance of any plant or equipment intended for the works..

The contractor shall carry out preliminary tests on plant and equipment. The results of these preliminary tests shall be forwarded to the project manager.

Where the contractor fails to carry out preliminary tests the project manager may engage others to execute the tests. Any expense or loss incurred by the employer resulting from such engagement may be recovered in terms of the contract.

### **Maintenance**

The contractor shall execute maintenance for the following services from completion until the defects date. Maintenance shall include for the replacement or repair of all components and include for stationary, replacement parts, lubrication, cleaning material, etc.

#### **Preventative maintenance**

The contractor shall:

- Visit the installation at least once per month.
- Make all necessary adjustments for the correct operation of the plant.
- Maintain all lubrication levels.
- Clean all relevant machinery / equipment and affected plant rooms.
- Record all work performed in a logbook.

#### **Scheduled services**

The contractor shall:

- Perform all scheduled services in accordance with the operating and maintenance manuals.
- Complete all maintenance schedules.
- Clean all relevant machinery / equipment and affected plant rooms.
- Record all services in a logbook.

#### **Break downs**

The contractor shall:

- Attend to all call outs with due diligence.
- Make good any defects due to inferior material and/or workmanship.
- Clean all relevant machinery / equipment and affected plant rooms.
- Record all work performed in a logbook.

#### **Vandalism**

The contractor shall:

- Attend to all call outs with due diligence.
- Prove vandalised breakages.
- Submit a price for repairs to the agent.
- Effect repairs on receipt of instruction.
- Clean all relevant machinery / equipment and affected plant rooms.
- Record all work performed in a logbook.

## Administration

The contractor shall:

- Submit all relevant contact details to the maintenance site foreman including the start and end dates of the maintenance period.
- Supply a triplicate record type logbook for the installation to be kept in the office of the foreman
- Report to the foreman when visiting the site.
- Sign off all logbook records with the foreman or his duly appointed representative.
- Not shut down any part of the plant or installation without the approval of the institution management
- Convene three quarterly site meetings for the purpose of performance tracking. This meeting is to be attended by the site foreman, the employer's maintenance inspector and the agent.
- Complete a site meeting record in the logbook, which must be signed by the foreman and the agent
- Submit a monthly invoice with copies of the monthly site inspection record, any service records and all relevant schedules

### 5.1.12 Recording of weather

The contractor shall erect an effective rainfall gauge on the site and record daily rainfall figures in a book. Such book shall be handed to the project manager at site meetings. Any rainfall which is considered to justify a compensation event is to be made known to the project manager within one (1) week of occurrence.

### 5.1.13 Format of communications

All instructions shall be via the site instruction book. Communication via e-mail is acceptable.

### 5.1.14 Key personnel

Contractor to indicate key personnel on site. The departmental project manager will be the liason officer for GDID.

### 5.1.15 Management meetings

Meeting will be arranged at the site handover.

#### Site meetings and procedures

The project manager and the contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the project manager require their attendance at such meetings.

The indicative duties of the *project manager*, *supervisor* and *employer* are as indicated in

#### Annexure A.

The contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contract working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

### 5.1.16 Forms for contract administration

### 5.1.17 Electronic payments

Payment to the contractor will be done as per the departmental financial systems.

### 5.1.18 Daily records

Site diary to be kept by the contractor.

**5.1.19 Bonds and guarantees**

Bonds and guarantees will be kept with contract administration and on producing the completion certificate this will be released.

**5.1.20 Payment certificates**

Before the employer's agent issues any certificate that includes any payment in respect of work done or goods supplied by any subcontractor, the contractor is to furnish reasonable proof of payments to subcontractors. These shall be made available at all reasonable times to all persons concerned with the contract. A monthly report on job creation should be submitted together with claims signed off by contractor, construction project manager and contractor liaison officer

**5.1.21 Permits**

No permits required.

**5.1.22 Proof of compliance with the law**

Certificate of compliance to be issued on all electrical works.

**5.1.23 Insurance provided by the employer**

The department does not provide any insurance.

**5.2 Health and safety****5.2.1 Health and safety requirements****5.2.2 Protection of the public**

The contractor shall provide, erect, alter as necessary, maintain, remove and make good on completion of the works, suitable hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways as necessary for the enclosure of the works or portions thereof for protection of the public, employees of the contractor and others, all to the satisfaction of the project manager.

The contractor is referred to the various sections described in clause 1.2 hereof and is to allow for suitable hoardings, safety screens, fences, barricades and such like as necessary for the enclosure of each section for protection of the public and scholars, and remove and make good on completion of each section.

**5.2.3 Barricades and lighting**

Contractor to ensure all works are properly barricaded to prevent any public entrance to the site

**5.2.4 Traffic control on roads**

*Not applicable in this contract*

**5.2.5 Measures against disease and epidemics**

*Not applicable in this contract*

**5.2.6 Aids awareness**

The Contractor as an obligation of the contract is required to promote HIV / AIDS awareness in accordance with requirements of SANS 1921-6.

**5,3 Annexes**

<i>Annexure A</i>	Site Specific Health and Safety Specification
<i>Annexure B</i>	EPWP Training monthly summary sheet
<i>Annexure C</i>	EPWP Daily site attendance register
	EPWP Beneficiary information
<i>Annexure D</i>	Calculation of penalties



# FLEUR PRIMARY SCHOOL

## OCCUPATIONAL HEALTH & SAFETY SPECIFICATION

### DECANTING SITE

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## 1. PREAMBLE

In terms of Construction Regulation 5(1) of 2014 of the Occupational Health and Safety Act, (Act 85 of 1993), Department of Infrastructure Development, hereinafter referred to as 'the Department' as the Client, is responsible to prepare health and safety specifications for the intended Laerskool Fleur School Refurbishment and Rehabilitation project and provide the Principal Contractor who is making a bid or appointed to perform construction work for The Department with the same.

The Department's further duties are as described in the Occupational Health and Safety Act, (Act 85 of 1993), and the regulations made there-under. The Principal Contractor shall be responsible for the health and safety policy for the site in terms of Section 7 of the Act and in line with Construction Regulation 5 as well as the health and safety plan for the project.

This 'Health and Safety Specification' document is governed by the "Occupational Health and Safety Act, (Act No. 85 of 1993), hereinafter referred to as 'the Act'. Notwithstanding this, cognizance should be taken of the fact that no single Act or its set of Regulations can be read in isolation. Furthermore, although the definition of health and safety specifications stipulates 'a documented specification of all health and safety requirements pertaining to associated works on a construction site, so as to ensure the health and safety of persons', it is required that the entire scope of the Labour legislation, including the Basic Conditions of Employment Act be considered as part of the legal compliance system. With reference to this specification document, this requirement is limited to all health and safety issues pertaining to the site of the project as referred to here-in.

Due to the scope and the nature of the intended construction work, every construction activity will be different, and circumstances and conditions may change even daily. Therefore, due caution is to be taken by the Principal Contractor when drafting the health and safety plan based on these health and safety specifications. Prior to drafting the health and safety plan, and in consideration of the information contained here-in, the contractor shall set up a risk assessment program to identify and determine the scope and details of any risk associated with any hazard at the construction site, in order to identify the steps needed to be taken to remove, reduce or control such hazard. This risk assessment and the steps identified will be the basis or point of departure for the health and safety plan. The health and safety plan shall include applicable methods statements, e.g. for demolition work, detailing the key activities to be performed in order to reduce as far as practicable, the hazards identified in the risk assessment.

The Department intends to do Laerskool Fleur School Refurbishment and Rehabilitations at Laerskool Fleur School. In this, a high premium is to be placed on the health and safety of the most valuable assets of the Department. These are its personnel, the personnel of its stakeholders and the physical assets of which it is the custodian and may also include the public as well.

The responsibilities the Department and relevant stakeholders have towards its employees and other people present on the site are captured further in this specification document. These responsibilities stem from both moral, civil and a variety of legal obligations. The Principal Contractor is to take due cognisance of the above statement.

Every effort has been made to ensure that this specification document is accurate and adequate in all respects. Should it, however, contain any errors or omissions they may not be considered as grounds for claims under the contract for additional reimbursement or extension of time, or relieve the Principal Contractor from his responsibilities and accountability in respect of the project to which this specification document pertains. Any such inaccuracies, inconsistencies and/or inadequacies must immediately be brought to the attention of the Department.

## 2. DESCRIPTION OF THE WORKS

Department of Infrastructure Development's Laerskool Fleur School Temporary Relocation (Decanting Site) project entails the following:

- Temporary Relocation of Block B learners and Demolition of the block;
- Construction of New Decanting Site at the Sports field with Mobile Units as per the approved Architectural SDP;
- Construction of Civil Earthworks and Associated Services i.e. Stormwater, Sewer, Water and Pavement; and
- Rehabilitation of the Surrounding Area to the Decanting Site.

## 3. SCOPE OF HEALTH & SAFETY SPECIFICATION DOCUMENT

These specifications should be read in conjunction with the Act, the Construction Regulations 2014, and all other regulations and safety standards which are in force or come into force during the effective duration of the project. The stipulations in this specification, as well as those contained in all other documentation pertaining to the project, including contract documentation and technical specifications shall not be interpreted, in any way whatsoever, to countermand or nullify any stipulation of the Act, regulations and safety standards which are promulgated under, or incorporated into the Act.

The Department is obligated to implement measures to ensure the health and safety of all people and properties affected under its custodianship or contractual commitments and is further obligated to monitor that these measures are structured and applied according to the requirements of these health and safety specifications.

The purpose of this specification document is to provide the relevant Principal Contractor with any information other than the standard conditions pertaining to construction sites which might affect the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; and to protect persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work during the carrying out of construction work for the Department . The Principal Contractor is to be briefed on the significant health and safety aspects of the project and to be provided with information and requirements on inter alia:

- Safety considerations affecting the site of the project and its environment.
- Health and safety aspects of the associated structures and equipment.
- Submissions on health and safety matters required from the Principal Contractor; and
- The Principal Contractor's health and safety plan

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#### 4. DEFINITIONS

**“Purpose of the Act”** – To provide for the health and safety of persons at work and the health and safety of persons in connection with the use of plant and machinery; the protection of persons other than persons at work against hazards to health and safety arising out of or in connection with the activities of persons at work; to establish an advisory council for occupational health and safety; and to provide for matters connected therewith.

**“Health and Safety Specification”** – means a document that includes information required under the construction regulation and obtained from the clients and designers during the early planning and design stage for a specific project on a specific site for use by the contractors when preparing their tenders or bids to clients.

**“Health and Safety Plan”** – means a document which is site specific and includes all identified hazards, safe work procedures to mitigate, reduce and control the hazards identified in a project.

**“Agent”** – means any person who acts as a representative for a client.

**“The Department”** – means Department of Infrastructure Development.

**“Construction Health and Safety Agent (SACPCMP)”** – The person or entity appointed by the client through the Agent and who has a full authority and obligation to act on the client’s behalf in terms of the construction regulations;

**“Construction Work”** is defined as any work in connection with –

- (a) the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure;
- (b) the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system or any similar civil engineering structure; or the moving of earth, clearing of land, the making of an excavation, piling or any similar civil engineering structure or type of work.

**“Contractor”** – means an employer, as defined in Section 1 of the Act, who performs construction work and includes Principal Contractors;

**“Construction work permit”** means a document issued in terms of regulation 3;

**"Design"** in relation to any structure, includes drawings, calculations, design details and specifications;

**"Designer" means-**

- (a) a competent person who-
  - (i) prepares a design;
  - (ii) checks and approves a design;
  - (iii) arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
  - (iv) designs temporary work, including its components;
- (b) an architect or engineer contributing to, or having overall responsibility for a design;
- (c) a building services engineer designing details for fixed plant;
- (d) a surveyor specifying articles or drawing up specifications;
- (e) a contractor carrying out design work as part of a design and building project; or
- (f) an interior designer, shop-fitter or landscape architect;

**"Demolition work"** means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual labour, machinery, or the use of explosives;

**"Accident"** – means unplanned occurrence that happens due to the unsafe condition and may cause injury to a person, damage to the property, material, plant, equipment and the environment;

**"Hazard"** – means anything including work activities and practices with the potential to cause harm;

**"Risk"** – means the likelihood that harm will occur and the subsequent consequences.

**"Risk assessment"** – means a process to determine any risk associated with any hazard at a construction site in order to identify the steps needed to be taken to mitigate, reduce or control such hazards.

**"Health and safety file"** – means a file, or other record in permanent form, containing the information required as contemplated in the regulations;

## 5. RESPONSIBILITIES

### 5.1 THE DESIGNER

The designer of a structure must comply with CR 6 during the design stage and in particular ensure that cognizance is taken of ergonomic design principles in order to minimize ergonomic related hazards in all phases of the life cycle of the structure.

### 5.2 THE DEPARTMENT

- (a) The Department or its appointed Agent on its behalf will appoint each Principal Contractor for this project in writing for assuming the role of Principal Contractor as intended by the Construction Regulations.
- (b) The Department or its appointed Agent on its behalf shall discuss and negotiate with the Principal Contractor the contents of the health and safety plan of both Principal Contractor and Contractor for approval.
- (c) The Department or its appointed Agent on its behalf will take reasonable steps to ensure that the health and safety plan of both the Principal Contractor and Contractor is implemented and maintained. The steps taken will include periodic audits at intervals of at least once every month.
- (d) The Department or its appointed Agent on its behalf, will prevent the Principal Contractor and/or the Contractor from commencing or continuing with construction work should the Principal Contractor and/or the Contractor at any stage in the execution of the works be found to:
  - have failed to have complied with any of the administrative measures required by the Construction Regulations 2014 in preparation for the construction project or any physical preparations necessary in terms of the Act;
  - have failed to implement or maintain their health and safety plan;
  - have executed construction work which is not in accordance with their health and safety plan; or
  - act in any way which may pose a threat to the health and safety of any person(s) present on the site of the works or in its vicinity, irrespective of him/them being employed or legitimately on the site of the works or in its vicinity.

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### 5.3 PRINCIPAL CONTRACTOR

- (a) The Principal Contractor shall accept the appointment under the terms and Conditions of Contract. The Principal Contractor shall sign and agree to those terms and conditions and shall, before commencing work, notify the Department of Labour of the intended construction work. Annexure 2 of the Construction Regulations contains a “Notification of Construction Work” form. The Principal Contractor shall submit the notification in writing prior to commencement of work and inform the Department or its Agent accordingly.
- (b) The Principal Contractor shall ensure that he is fully conversant with the requirements of this Specification and all relevant health and safety legislation.
- (c) The Principal Contractor will in no manner or means be absolved from the responsibility to comply with all applicable sections of the Act, the Construction Regulations or any Regulations proclaimed under the Act or which may perceivable be applicable to this contract.
- (d) The Principal Contractor shall provide and demonstrate to the Department or its appointed Agent a suitable and sufficiently documented health and safety plan based on this specification, the Act and the Construction Regulations 2014, which shall be applied from the date of commencement of and for the duration of execution of the works. This plan shall, as appendices, include the health and safety plans of all sub-contractors for which he has to take responsibility in terms of this contract.
- (e) The Principal Contractor shall provide proof of his registration and good standing with the Compensation Fund or with a licensed compensation insurer prior to commencement with the works.
- (f) The potential Principal Contractor shall, in submitting his tender, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations. (See Annexure A: Bill of Quantities for Health and Safety)
- (g) The Principal Contractor shall consistently demonstrate his competence and the adequacy of his resources to perform the duties imposed on the Principal Contractor in terms of this Specification, the Act and the Construction Regulations.
- (h) The Principal Contractor shall ensure that a copy of his health and safety plan is available on site and is presented upon request to the Department, an Inspector, employee or sub-contractor.
- (i) The Principal Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the provisions of this specification, the Act and the Construction Regulations 2014, is opened and kept on site and made available to the Department or Inspector upon request. Upon completion of the works, the Principal Contractor shall hand over a consolidated health and safety file to the Department.

- (j) The Principal Contractor shall, throughout execution of the contract, ensure that all conditions imposed on his sub-contractors in terms of the Act and the Construction Regulations are complied with as if they were the Principal Contractor.
- (k) The Principal Contractor shall from time to time evaluate the relevance of the health and safety plan and revise the same as required, following which revised plan shall be submitted to the Department for approval.

#### **5.4 CONTRACTOR**

The Contractor must demonstrate to the Principal Contractor that he has the necessary competencies and resources to perform the construction work safely.

### **6. GENERAL OCCUPATIONAL HEALTH AND SAFETY PROVISIONS**

#### **6.1 HEALTH AND SAFETY PLAN**

A health and safety plan must be developed, implemented, maintained and kept up to date during the construction project.

The Principal Contractor should prepare a health and safety plan that includes

- Project information;
- The Department requirements for health and safety management on the project; as specified in this health and safety specification

The health and safety plan should include the following information:

- Details of the Client, that is the person commissioning the construction work, for example their name, representative and contact detail, details of the Principal Contractor;
- Details of the construction project, the address of the workplace, anticipated start and end date and a brief description of the type of construction work that the health and safety plan will cover;
- Details on how subcontractors will be managed and monitored, including how the Principal Contractor intends to implement and ensure compliance with the health and safety plan such as checking on the performance of subcontractors and how non-compliance will be handled; and
- Details on how the risks associated with traffic volumes, construction vehicles and mobile plant and all high-risk construction work that will take place on the construction project will be managed.



The health and safety plan should also include information on:

- the provision and maintenance of a hazardous chemicals register, safety data sheets and hazardous chemicals storage;
- the safe use and storage of plant;
- workplace security and public safety; and
- ensuring workers have appropriate competences and training to undertake the construction work.

The health and safety plan must contain:

- A general description of the type of work activities involved in the project and not just a description of the infrastructures to be constructed;
- The project program or schedule details, including start and finish dates, showing principal activities;
- Details of Client, Design Team, Principal Contractor, Subcontractors, and major suppliers; and
- Extent and location of relevant existing records, surveys, site investigation, etc

## **6.2 HEALTH AND SAFETY FILE**

The Principal Contractor must, in terms of Construction Regulation 7(7), keep a health and safety file on site at all times that must include all documentation required in terms of the Act and Regulations and must also include a list of all Contractors on site that are accountable to the Principal Contractor and the agreements between the parties and details of work being done.

The health and safety file will remain the property of the Department on its behalf throughout the period of the project and shall be consolidated and handed over to the Department on its behalf at the time of completion of the project.

## **6.3 APPLICATION OF CONSTRUCTION WORK PERMIT**

The Department and/ its Agent shall at least 30 days before commencement of construction work apply to the Provincial Director of the Department of Labour in writing for a construction work permit to perform the intended construction work. The Department and/ its Agent shall ensure that the Principal Contractor keeps a copy of the construction work permit in the safety file for inspection by an inspector, the client, the client's agent, or an employee.

## 6.4 STRUCTURE AND RESPONSIBILITIES

### 6.4.1 Overall supervision and responsibility for occupational health and safety

- The Principal Contractor [appointed in terms of Construction Regulation 5(1)(k)] is responsible to implement and maintain the health and safety plan approved by the Client.
- The Chief Executive Officer (in terms of Section 16(1) of the Act) of the Principal Contractor is to ensure that the Employer (as defined in the Act) complies with the Act.
- The Principal Contractor's Chief Executive Officer may appoint any person reporting to him/her as Designated Person in terms of Section 16(2) of the Act. Such Designated Person is responsible to assist the Chief Executive Officer to ensure that the Employer complies with the requirements of the Act.
- The Construction Manager, Assistant Construction Manager, Construction Supervisor and Assistant Construction Supervisor(S) appointed in terms of Construction Regulation 8 are responsible for supervising the construction work and in specific to ensure that all work undertaken comply with the requirements of the Act, its Regulations and these health and safety specifications.

### 6.4.2 Operational responsibilities for Occupational Health and Safety

The Principal Contractor shall appoint designated competent employees and/or other competent persons as outlined in the following list to assist with the operational responsibilities for occupational health and safety. This list is only the minimum requirement and is therefore in no way exhaustive.

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<b>Appointment</b>	<b>Legal Reference</b>
Construction Health and Safety Officer	Construction Regulation 8(5)
Construction Manager	Construction Regulation 8(1)
Construction Supervisor	Construction Regulation 8(7)
Construction Vehicle, Mobile Plant and Machinery Supervisor	Construction Regulation 23
Drivers of Construction Vehicles and Operators of Plant	Construction Regulation 23
Electrical Installation and Appliances Inspector	Construction Regulation 24
Emergency, Security and Fire Coordinator	Construction Regulation 29
First-aiders	General Safety Regulation 3
Firefighting equipment inspector	Construction Regulation 29
Hazardous Chemical Substances Supervisor	Hazardous Chemicals Substances Regulations 10
Incident Investigator	General Administrative Regulation 9
Ladder Inspector	General Safety Regulation 13(a)
Lifting Machines and Equipment Inspector	Construction Regulation 22
Occupational Health and Safety Committee	OHSACT Section 19
Occupational Health and Safety Representatives	OHSACT Section 17
Person Responsible for Machinery	General Machinery Regulation 2
Risk Assessor	Construction Regulation 9(1)
Stacking and Storage Supervisor	Construction Regulation 28

These appointments must be in writing and the responsibilities clearly stated together with the period for which each appointment is made. This information must be communicated to and agreed with the appointees.

Copies of appointments must be submitted to the Department together with concise CV's of the appointees as part of the Principal Contractor's health and safety plan, and if appointed, copies of the appointments included in the health and safety file. All appointments must be approved by The Department and any changes of appointees or appointments must be communicated to the Department and agreed upon before being implemented.

The Principal Contractor must furthermore, provide the Department with a list of all contractors that he/she has appointed or intends to appoint and keep this list updated on a weekly basis.

#### **6.4.3 Construction Health and Safety Officer**

This project requires the appointment of a full-time Construction Health and Safety Officer, appointed in terms of Construction Regulation 8(5). This appointee should be duly registered and in good standing with a statutory body approved by the Chief Inspector as is required by Construction Regulation 8(6).

The South African Council for Project and Construction Management Professions (SACPCMP) is currently the statutory body responsible for the professional registration of construction health and safety officers and a copy of the appointee's SACPCMP's registration certificate should be submitted as part of the Principal Contractor's health and safety plan and be readily available in the health and safety file to be kept and maintained on site.

#### **6.4.4 Designation of Occupational Health and Safety Representatives**

Where the Principal Contractor employs more than 20 persons [including the employees of other contractors (sub-contractors) and its supervisors] he has to appoint one occupational health and safety representative for every 50 employees or part thereof. General Administrative Regulation 6 requires that the election, appointment and subsequent designation of the occupational health and safety representatives be executed in consultation with employee representatives or employees. (Section 17 of the Act as well as General Administrative Regulation 6 and 7 refer).

Occupational health and safety representatives have to be designated in writing and the designation must include the area of responsibility of the person and term of the designation.

#### **6.4.5 Duties and functions of the Occupational Health and Safety Representatives**

The Principal Contractor must ensure that the designated occupational health and safety representatives conduct a weekly inspection of their respective areas of responsibility, using a checklist, and report thereon to the Principal Contractor.

Occupational health and safety representatives must be included in accident and/or incident investigations.

Occupational health and safety representatives must attend all occupational health and safety committee meetings.

#### **6.4.6 Appointment of Occupational Health and Safety Committee**

The Principal Contractor must establish an occupational health and safety committee consisting of all the designated occupational health and safety representatives together with a number of management representatives that are not allowed to exceed the number of occupational health and safety representatives on the committee and a representative of the Department who shall act as the chairperson without voting rights. The members of the occupational health and safety committee must be appointed in writing and copies of the appointments included in the occupational health and safety file.

The occupational health and safety committee must meet as a minimum on a monthly basis and consider, at least, the following agenda items:

- Opening and welcome.
- Members present, apologies and absent.
- Minutes of previous meeting.
- Matters arising from the previous meeting.
- Occupational health and safety representatives' reports.
- Incident and/or accident reports and investigations.
- Incident, accident and/or injury statistics.
- Other matters.
- Endorsement of registers and other statutory documents by a duly authorised representative of the principal contractor.
- Close and next meeting.

#### **6.5 COMPENSATION OF OCCUPATIONAL INJURIES AND DISEASES ACT 130 OF 1993**

The Principal Contractor shall submit a letter of good standing with its Compensation Insurer, to the client or his appointed representative, as proof of registration. Contractors shall submit proof of registration to the Principal Contractor before they commence work on site

#### **6.6 OCCUPATIONAL HEALTH AND SAFETY POLICY**

The Principal Contractor and all other Contractors shall submit to the Department and to the Architect, a copy of their organisation's health and safety policy signed by their Chief Executive Officer. Each policy must include a description of the organisation and state the health and safety objectives and how they will be achieved and implemented by the organisation. Copies of these policies shall be attached to the health and safety plan

#### **6.7 HEALTH AND SAFETY ORGANOGRAM**

The Principal Contractor and all Contractors shall submit an organogram, outlining the health and safety site management structure including the relevant appointments/competent persons and shareholders. In cases where appointments have not been made, the organogram shall reflect the intended positions. The organogram shall be updated when there are any changes in the site management structure. A copy shall be attached to the health and safety plan.

## **6.8 HAZARD IDENTIFICATIONS AND RISK ASSESSMENT**

The Contractor shall cause a hazard identification to be performed by a competent person before commencement of construction work, and the assessed risks shall form part of the construction phase health and safety plan submitted for approval by the Department or its appointed Agent

The risk assessment must include;

- A list of hazards identified as well as potentially hazardous tasks;
- A documented site-specific risk assessment based on the list of tasks and associated hazards;
- Method statements and a set of safe working procedures to eliminate, reduce and/or control the risks assessed;
- A monitoring and review procedure of the risks assessment as the risks change

The Principal Contractor shall ensure that all employees and or Contractors are competent to perform the work and informed, instructed and trained by a competent person regarding any hazards, risks and related safe work procedures before any work commences and thereafter at regular intervals as the risks change and as new risks develop. Proof of this shall be kept on the health and safety file.

The Principal Contractor shall be responsible for ensuring that all persons who could be negatively affected by its operations are informed and trained according to the hazards and risks and are conversant with the safe work procedures, control measures and other related rules (toolbox talk strategy to be implemented). Appropriate signage regarding the dangers attached to the work and hazards identified must be posted at strategic places for everyone to see and be included in the method statement to be provided in the health and safety plan.

## **6.9 HEALTH AND SAFETY TRAINING/INDUCTION**

### **6.9.1 Induction**

The Principal Contractor shall ensure that all site personnel undergo a risk-specific health and safety induction training session before starting work. A record of attendance shall be kept in the health and safety file. All visitors to the site shall also receive risk-specific health and safety induction training and a record of such shall be kept. All employees to be informed, instructed and trained by a competent person regarding the hazards and work procedures as prescribed.

### **6.9.2 Awareness**

The Principal Contractor shall ensure that, on site, periodic toolbox talk take place at least once per week. These talks should deal with risks relevant to the construction work at hand. A record of attendance shall be kept in the health and safety file. All Contractors have to comply with this minimum requirement. The contractor shall inform all residence and or members of the public, who may be affected by the activities and who will most likely be exposed to the hazards identified of all precautionary measures to be taken.

### **6.9.3 Competency**

All competent persons shall have the knowledge, experience, training, and qualifications specific to the work they have been appointed to supervise, control or carry out. This will have to be assessed on regular basis e.g. periodic audits by the Department, progress meetings, etc. The Principal Contractor is responsible to ensure that competent Contractors are appointed to carry out construction work.

### **6.10 MEDICAL CERTIFICATES OF FITNESS**

The Principal Contractor must ensure that all his or her employees have valid medical certificates of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 of the Construction Regulations 2014.

### **6.11 PUBLIC AND SITE VISITOR HEALTH AND SAFETY**

Both the Department and the Principal Contractor have a duty in terms of the OHS Act to do all that is reasonably practicable to prevent members of the public and site visitors from being adversely affected by the construction activities.

The Principal Contractor shall ensure that every person working on or visiting the site, as well as the public in general, shall be made aware of the dangers likely to arise from site activities, including the precautions to be taken to avoid or minimise those dangers. A record of these inductions or briefings shall be kept in the project health and safety file in accordance with the Construction Regulations. Appropriate health and safety notices and signs shall be posted up, but this shall not be the only measure taken. The construction site shall be suitably and sufficiently fenced off or barricaded and or provided with controlled access points to prevent the entry of unauthorized persons.

### **6.12 GENERAL RECORD KEEPING**

The Principal Contractor and all Contractors shall keep and maintain health and safety records to demonstrate compliance with this specification, with the OHS Act 85/1993, Construction Regulations 2014 and any other legislation applicable on site. The Principal Contractor shall ensure that all records of incidents/accidents, training, inspections, audits, etc. are kept in a health and safety file held in the site office. The Principal Contractor must ensure that every Contractor opens its own health and safety file, maintains the file and makes it available on request. The Principal Contractor shall maintain an up to date register of each Contractor engaged in construction work on site giving the Contractors' name and the Responsible Persons' contact details and the number of employees on site. As these details may be subject to frequent change, the register must be updated at least weekly. The register is to be available for inspection

### **6.13 HEALTH AND SAFETY AUDITS, MONITORING AND REPORTING**

The Department will conduct at least once monthly, a health and safety audit of the work operations including a full audit of physical site activities as well as an audit of the administration of health and safety. The Principal Contractor is obligated to conduct similar audits on all contractors appointed by it. Detailed reports of the audit findings and results shall be reported on at all levels of project management meetings/forums. Copies of the Client audit reports shall be kept in the project health and safety file while the Principal Contractor audit reports shall be kept in their file, a copy being forwarded to the Department. Contractors shall audit their sub-contractors and keep records of these audits in their health and safety files, available on request. These audits must be conducted by a



competent person.

#### **6.14 ACCIDENT / INCIDENT REPORTING AND INVESTIGATION**

Injuries are to be categorized into first aid; medical; disabling; and fatal. The Principal Contractor must stipulate in its construction phase health and safety plan how it will handle each of these categories. When reporting injuries to the Department, these categories shall be used. All injuries shall be investigated by the Principal Contractor, with a report being forwarded to the Department forthwith. All Contractors have to report on the 4 categories of injuries to the Principal Contractor at least monthly. The Principal Contractor must report all injuries to the Department in the form of a detailed injury report at least monthly. The Client's Agent must be informed forthwith of any recordable incident or accident.

#### **6.15 HAZARDS AND POTENTIAL SITUATIONS**

The Principal Contractor shall immediately notify other Contractors as well as The Department's Agent of any hazardous or potentially hazardous situations that may arise during performance of construction activities.

#### **6.16 CONTRACTORS AND SUB-CONTRACTORS**

The Principal Contractor shall ensure that all Contractors under its control comply with this specification, the OHS Act of 1993, Construction Regulations 2014, and all other relevant legislation that may relate to the activities directly or indirectly. The Contractor, when appointing other Contractors as 'Sub-contractors', shall mutatis mutandis ensure compliance and a section 37(2) agreement must be put in place.

### **7. OPERATIONAL CONTROL**

#### **7.1 EMERGENCY PROCEDURES**

The Principal Contractor shall prepare a detailed emergency procedure prior to commencement of work on site and it shall be included in, and form part of, the health and safety plan. The procedure shall be updated whenever changes occur, and it shall detail the emergency response plans. The emergency procedures shall not be limited to, but shall include, the following key elements:

- List of key competent personnel on site;
- Details of the nearest emergency services, including their physical addresses and phone numbers;
- Actions or steps to be taken in the event of each specific type of emergency;
- Information on hazardous materials/situations that may be encountered on site. Emergency procedures shall include, but shall not be limited to, fire, spills, accidents to employees, bomb threats, and major incidents/accidents.

A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and be readily available to site personnel at all times that there are persons on site i.e. it must not be in an area which may be inaccessible outside of normal working hours.



The Principal Contractor shall advise the Department and the Architect in writing forthwith, and thereafter at the project and health and safety meetings, of any emergencies that occurred, together with a record of the action taken. Copies of all reports on emergencies shall be kept in the project health and safety file.

## **7.2 FIRST AID BOXES AND FIRST AID EQUIPMENT**

The Principal Contractor and all other Contractors shall appoint first aider(s) in writing. All Contractors with more than 10 employees shall have a trained, certified first aider on site at all times. The appointed first aider(s) are to be sent for accredited first aid training. Copies of the valid first aid certificates for each First Aider are to be kept in the project health and safety file. The Principal Contractor shall provide an on-site first aid station with first aid facilities, including first aid boxes adequately stocked at all times. All Contractors with more than 5 employees shall supply their own first aid box (es).

## **7.3 SECURITY**

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must, among others, include the rules that nonemployees will not be allowed on site unaccompanied.

The Principal Contractor must develop a set of project applicable security rules and procedures and maintain these throughout the construction period.

## **7.4 STACKING OF MATERIALS**

The Principal Contractor and other relevant contractors shall ensure that there is an appointed stacking and storage supervisor and all materials, all equipment is stacked and stored safely in a demarcated area.

## **7.5 HAZARDOUS CHEMICAL SUBSTANCES (HCS)**

The Principal Contractor and other relevant Contractors shall provide the necessary training and information regarding the use, transport, and storage of hazardous chemical substances. The Principal Contractor shall ensure that the use, transport, and storage of hazardous chemical substances are carried out as prescribed by the hazardous chemical substance regulations.

The Contractor shall ensure that all hazardous chemicals on site have Safety Data Sheets (SDS) and the users are made aware of the hazards and precautions that need to be taken when using the chemicals. The First Aiders must be made aware of the SDS and how to treat hazardous chemical substance incidents appropriately.

## **7.6 CONSTRUCTION VEHICLE AND MOBILE PLANT OPERATORS**

The following requirements will apply to construction vehicles and mobile plant operators:

- Only certified and/or competent employees may be allowed to operate any construction vehicle and mobile plant.
- Every lifting machine operator must be trained specifically for the type of lifting machine that he or she is operating.

- Only employees duly authorised to do so may operate any construction vehicle and mobile plant.
- Only employees physically and psychologically fit, i.e. in possession of a medical certificate of fitness, may be allowed to operate any construction vehicle and mobile plant.

## **7.7 CONSTRUCTION VEHICLES AND MOBILE PLANT**

Construction vehicles and mobile plant should be formally and duly inspected by a competent person appointed by the Principal Contractor prior to being allowed on a project site and suppliers of hired vehicles, plant and equipment must be required to comply with this specification as well as the Act and Regulations.

Construction vehicles and mobile plant must be:

- Of acceptable design and construction;
- Maintained in good working order;
- Used in accordance with their design and intention for which they were designed;
- Operated and/or driven by trained, competent and authorised operators/drivers. No unauthorised persons to be allowed to drive construction vehicles and mobile plant;
- Provided with safe and suitable means of access;
- Fitted with adequate signalling devices to make movement safe including reversing;
- Excavations and other openings must be provided with sufficient barriers to prevent construction vehicles and mobile plant from falling into same;
- Provided with roll-over protection;
- Inspected daily before start-up by the driver, operator and/or user and the findings recorded in a register/log book and any defects addressed as matter of urgency;
- Fitted with two head and two tail lights that is in good working condition whilst operating under poor visibility conditions; and
- Used for transporting persons must have seats firmly secured and sufficient for the number of persons being transported.

No loose tools, material etc. is allowed in the driver and/or operators compartment/cabin nor in the compartment in which any other persons are transported.

No person may ride on construction vehicles and mobile plant except for in a safe place designed and provided for this purpose.

Construction vehicles and mobile plant left unattended after hours adjacent to roads and areas where there is traffic movement must be fitted with lights, reflectors or adequate barricades to prevent moving traffic from a sudden emergency, or to come into contact with the parked construction vehicles and mobile plant.

In addition, construction vehicles and mobile plant left unattended after hours must be parked with all buckets, booms etc. full lowered, the emergency brakes engaged and, where necessary, the wheels chocked, the transmission in neutral and the motor switched off and the ignition key removed and stored safely.

All construction vehicles and mobile plant daily inspection records must be kept in the health and safety file.

## **7.8 ELECTRICAL INSTALLATIONS**

Any electrical work undertaken as part of the project, including the installation of temporary electricity for construction use shall be in accordance with Construction Regulation 24 and the Electrical Installation Regulations.

The Principal Contractor must ensure that:

- Existing services are to be located and clearly marked before construction commences and during the progress thereof;
- Where the abovementioned is not possible, employees with jackhammers etc. will be protected against electric shock by the use of suitable protective equipment e.g. rubber mats, insulated handles etc;
- Electrical installations and -machinery are sufficiently robust to withstand normal working conditions on site;
- Temporary electrical installations must be inspected at least once per week by a competent person and a record of the inspections kept on the occupational health and safety file;
- Electrical machinery used on a construction site must be inspected daily before start-up by the competent driver/operator or any other competent person and a record of the inspections kept on the occupational health and safety file; and
- A competent person appointed in writing must control all temporary electrical installations.

## **7.9 ELECTRICAL AND MECHANICAL LOCKOUT**

An electrical and mechanical lockout procedure must be developed by the Principal Contractor and submitted to the Department for approval before construction commences. All contractors on site must be informed of and adhere to this lockout procedure.

## **7.10 USE AND STORAGE OF FLAMMABLES**

The principal contractor must ensure that:

- No person is required or permitted to work in a place where there is the danger of fire or an explosion due to flammable vapours being present unless adequate precautions is taken;
- Flammables stored on a construction site are stored in a well-ventilated, reasonably fire- resistant container, cage or room that is kept locked with consistent access control measures in place and sufficient firefighting equipment installed and fire prevention methods practiced for example proper housekeeping;
- Only one day's quantity of flammable is to be kept in the workplace;
- Containers (including empty containers) to be kept closed to prevent fumes/vapours from escaping and accumulating in low lying areas; and
- Welding and other flammable gases to be stored segregated as to the type of gas and empty and full cylinders.

### 7.11 DEMOLITION WORK

Demolition work must be carried out under the supervision of a competent person who has been appointed in writing.

A detailed structural engineering survey of the structure to be demolished must be carried out and a method statement on the procedure to be followed in demolishing the structure must be developed by a competent person, before any demolition may be commenced.

As demolishing progresses the structural integrity of the structure must be checked at intervals as determined in the method statement by the appointed competent person in order to prevent any premature or uncontrolled collapse.

Steps must be taken to ensure that where a structure is being demolished:

- No floor, roof or any other part of the structure is overloaded with debris, material or equipment that would make it unsafe;
- precautions are taken to prevent the collapse of the structure when any frame, support or reinforcement is cut or removed;
- shoring or propping is applied where necessary;
- no employee is required or allowed to work under unsupported overhanging material; and
- the stability of an adjacent building, structure, road or services is maintained at all times.

The location and nature of any existing services such as water, electricity, gas etc, must be established before any demolition is commenced with and any service that may be affected by the demolition must be protected and made safe for employees and other persons.

Every stairwell in a building being demolished must be adequately illuminated. Convenient and safe means of access must be provided and maintained at all times.

A catch platform or net must be erected over every entrance to the building or structure being demolished where the likelihood exists of material or debris falling on employees and/or persons entering and leaving and every other area where the likelihood exists of material or debris falling on employees and/or persons must be fenced or barricaded.

No material may be dropped on the outside of the building unless the area into which it is dropped is fenced off or barricaded.

Waste and debris may only be disposed from a height in a chute with the following design:

- adequately constructed and rigidly fastened;
- inclined greater than 45 degrees and enclosed on all four sides;
- fitted with a gate or control mechanism to control the flow of material that may not freefall down the chute;
- discharged into a container or a barricaded area; and
- demolition equipment may only be used on floors or slabs that are able to support it.

Where demolition work will involve the use of explosives a method statement must be developed by a competent person in accordance with applicable explosives legislation before any explosives are used.

## 7.12 FIRE PREVENTION AND PROTECTION

The Principal Contractor must ensure that:

- The risk of fire is avoided;
- Sufficient and suitable storage of flammables is provided;
- All employees are instructed in the use of the firefighting equipment and know how to attempt to extinguish a fire;
- A sufficient number of employees are appointed and trained to act as an emergency team to deal with fires and other emergencies;
- Employees are informed regarding emergency evacuation procedures and escape routes;
- Emergency escape routes are kept clear at all times and clearly marked;
- Evacuation assembly points are demarcated and made known to employees;
- Evacuation is regularly practiced to ensure that all persons are evacuated timeously and;
- Roll call is held after evacuation to account for all employees and to ensure that no-one including visitors and disabled persons have been left behind; and
- A clearly audible, to all persons on site, siren or alarm is fitted and regularly tested.

## 7.13 HOUSEKEEPING

The Principal Contractor must ensure that:

- Housekeeping is continuously implemented and maintained;
- Materials and equipment is properly stored;
- Scrap, waste and debris is removed off site regularly;
- Materials placed for use are placed safely and not allowed to accumulate or cause obstruction to the free-flow of pedestrians and vehicular traffic;
- Where practicable, construction sites are fenced off to prevent entry of unauthorised persons;
- An unimpeded work space is maintained for every employee;
- Every workplace is kept clean, orderly and free of tools and the likes that are not required for the work being done;
- As far as is practicable, every floor, walkway, stair, passage and gangway is kept in good state of repair, skid-free and free of obstruction, waste and materials; and
- The walls and roof of every indoor workplace be sound and leak-free.

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## **7.14 STACKING AND STORAGE**

The Principal Contractor must ensure that:

- A competent person is appointed in writing to supervise all stacking and storage on a construction site;
- Adequate storage areas are provided and demarcated;
- The storage areas are kept neat and under control;
- The base of any stack is level and capable of sustaining the weight exerted on it by the stack;
- The items in the lower layers can support the weight exerted by the top layers;
- Cartons and other containers that may become unstable due to wet conditions are kept dry;
- Pallets and containers are in good condition and no material is allowed to spill out;
- The height of any stack does not exceed 3 times the base unless stepped back at least half the depth of a single container at least every fifth tier or the approval of an inspector of the Department of Labour has been obtained to build the stacks higher with the aid of a machine. (The operator of the machine must be protected against items falling from overhead or off the stack and no items may overhang);
- The articles that make up a single tier are consistently of the same size, shape and mass;
- Structures for supporting stacks are structurally sound and able to support the mass of the stack;
- No articles are removed from the bottom of the stack first but from the top tier first;
- Anybody climbing onto a stack can and does do it safely and that the stack is sufficiently stable to support him or her;
- Stacks that are in danger of collapsing are broken down and restacked;
- Stability of stacks are not threatened by vehicles or other moving plant and machinery;
- Stacks are built in a header and stretcher fashion and that corners are securely bonded; and
- Persons climbing onto stacks do not approach unguarded moving machinery or electrical installations.

## **7.15 EMPLOYEE WELFARE FACILITIES**

### **7.15.1 Toilets**

The provision of toilets for each sex is required in terms of the National Building Regulations and Construction Regulation 30.

Chemical toilets are allowed instead of the water borne sewerage type. Toilets have to be provided at a ratio of at least 1 toilet per 30 employees.

### **7.15.2 Showers**

At least cold-water showers of some sort for each sex have to be provided at a ratio of at least 1 shower per 15 employees.

### **7.15.3 Change rooms**

Some form of screened off changing facility must be provided separately for each sex.

### **7.15.4 Eating facility**

Some form of eating facility sheltered from the sun, wind and rain must be provided.

## **7.16 PERSONAL AND OTHER PROTECTIVE EQUIPMENT**

The Principal Contractor is required to proactively identify the hazards in the workplace and deal with them on an ongoing basis. He/she must either remove them or, where impracticable take steps to protect employees and make it possible for them to work safely and without risk to health under the hazardous conditions.

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

Where it is not possible to create an absolutely safe and healthy workplace the Principal Contractor is required to 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.

It is a further requirement that the Principal Contractor maintain the said equipment that he/she instructs and trains the employees in the use of the equipment and ensures that the prescribed equipment is used by the employee/s in a consistent and correct manner.

Employees do not have the right to refuse to use and/or 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 valid 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 the employee.

The Principal Contractor may not charge any fee for protective equipment prescribed by him or her but may charge for equipment under the following conditions:

- Where the employee requests additional issue in excess of what is prescribed;
- Where the employee has blatantly abused or neglected the equipment leading to early failure; and where the employee has lost the equipment.

## **7.17 PORTABLE ELECTRICAL TOOLS AND EQUIPMENT**

Portable electrical tools and equipment includes every unit that takes electrical power from a 15 ampere plug point and is moved around for use in the workplace i.e. drills, saws, grindstones, portable lights, etc. In addition, electrical appliances such as fridges, hotplates, heaters, etc must be inspected regularly but at least on a weekly basis and maintained to the same standards as portable electrical tools and appliances.



The use, inspection and maintenance of portable electrical tools and equipment must be governed by the following:

- Regular inspections by a competent person appointed in writing;
- Inspection results must be recorded in a register;
- Only competent authorised persons are allowed to use portable electrical tools and equipment; and
- The correct protective equipment is worn/used whilst operating portable electrical tools and equipment.

This equipment:

- Must be maintained in good condition at all times to prevent an electrical shock to the user;
- The main source should incorporate an earth leakage protection device or receive power through a double wound transformer or be double insulated and clearly marked as such; and
- All equipment must be fitted with a switch to allow for safe and easy starting and stopping.

#### **7.18 PORTABLE LIGHTS**

The following requirements apply to portable lights:

- Must be fitted with a robust non-hygroscopic non-conducting handle;
- Live metal parts which may become live must be protected against contact;
- The lamp must be protected by a strong guard;
- The cable lead-in must withstand rough handling;
- A register be kept for each piece of equipment with findings of regular inspections undertaken to evaluate the condition of these lights;
- Inspections must be undertaken that concentrate on at least the plug, cord, switch, guard and any obvious faults; and
- When used in wet/damp/metal container conditions, it must be protected.

#### **7.19 PUBLIC HEALTH AND SAFETY**

The Principal Contractor is responsible for ensuring that non-employees affected by the construction work are made aware of the dangers likely to arise from said construction work as well as the precautionary measures to be observed to avoid or minimise those dangers. This includes among others:

- Non- employees entering the site for whatever reason;
- The surrounding community; and
- Passers-by the site.

Appropriate signage must be posted to this effect and all employees on site must be instructed to ensure that non-employees are protected at all times.

All non-employees entering the site must receive site applicable induction into the hazards and risks and the control measures for these.



## **7.20 VESSELS UNDER PRESSURE (VUP) AND GAS BOTTLES**

The Principal Contractor and all relevant Contractors shall comply with the Pressure Equipment Regulations, including:

- Providing competency and awareness training to the operators;
- Providing PPE or clothing
- Inspect equipment regularly and keep records of inspections

Providing appropriate firefighting equipment (Fire Extinguishers) on hand

## **7.21 FIRE EXTINGUISHERS AND FIRE FIGHTING EQUIPMENT**

The Principal Contractor and relevant Contractors must ensure all appropriate measures are taken to avoid the risk of fire shall provide adequate, regularly serviced firefighting equipment located at strategic points on site, specific to the classes of fire likely to occur. The appropriate notices and signs must be posted up as required. The fire equipment contemplated in previous paragraph is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof and a sufficient number of workers are trained in the use of fire-extinguishing equipment;

## **7.22 HIRED PLANT AND MACHINERY**

The Principal Contractor shall ensure that any hired plant and machinery used on site is safe for use. The necessary requirements as stipulated by the Occupational Health and Safety Act 85/1993 and Construction Regulations 2014 shall apply. The Principal Contractor shall ensure that operators hired with machinery are competent and that certificates are kept on site in the health and safety file. All relevant Contractors must ensure the same.

## **7.23 LIFTING MACHINES AND TACKLE**

The Principal Contractor and all Contractors shall ensure that lifting machinery and tackle is inspected before use and thereafter in accordance with the Driven Machinery Regulations and the Construction Regulations. A competent lifting machinery and tackle inspector need to be appointed in writing and must inspect the equipment daily or before use, taking into account that:

- All lifting machinery and tackle has a safe working load clearly indicated;
- Regular inspection and servicing is carried out;
- Records are kept of inspections and of service certificates;
- There is a proper supervision in terms of guiding the loads that includes a trained banks man to direct lifting operations and check lifting tackle;
- The operators are competent as well as physically and psychologically fit to work and in possession of a medical certificate of fitness to be available on site.

## **7.24 GENERAL MACHINERY**

The Principal Contractor and relevant Contractors shall ensure compliance with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing, and training those who use machinery.

## 7.25 TRANSPORT OF WORKERS

The Principal Contractor and other Contractors shall not:

- Transport persons together with goods or tools unless there is an appropriate area of section to store them and all loose tool and plant are tied down and secured;
- Transport persons in a non-enclosed vehicle, e.g. truck; there must be a proper canopy (properly covering the back and top) with suitable sitting area. Workers shall not be permitted to stand or sit at the edge of the transporting vehicle.
- Transport workers in bakkies unless they are closed/ covered and have the correct number of seats for the passengers.

## 8. COVID-19 CONTROL

Principal Contractor shall put in place plans for the management of Covid-19 hazards and risk controls and measures on how to deal with potential COVID-19 cases at the construction site. The plans should include the following:

### 8.1 ACCOMMODATION

Where accommodation is provided by the Principal Contractor, the following shall be ensured:

- Density of occupants to allow for adequate social distancing (minimum 1.5m) in sleeping and dining quarters.
- Restriction on the number of persons using the same sanitary/hygiene facilities.
- Provision of dedicated crockery and cutlery for each occupant, together with a procedure for effective cleaning and safe storage of same and a prohibition on the sharing of utensils.
- Dedicated facilities for safekeeping of personal belongings and abovementioned utensils for each person. Such facilities are to allow for total segregation of belongings and must be easy to sanitize. Provision of such facilities for safekeeping to be accompanied with a procedure for the use and sanitizing of the storage facility to reduce the risk of cross-contamination.
- Facilities for accommodation provided by the contractor to have in place stringent procedures for personal hygiene, ongoing maintenance of sanitizing and social distancing, and
- Additional rules to include a prohibition on the sharing of clothing, towels and other personal belongings, as well as the laundering of clothing for multiple persons at the same time.

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## 8.2 TRANSPORT TO AND FROM SITES

Where transport is provided to and from site, the contractor to source a transport service provider that complies with all travel restrictions and requirements as gazetted by the government, inter alia:

- Maximum occupancy of vehicles to allow for social distancing.
- Vehicle sanitized before passengers board.
- Passengers provided with hand sanitizer and face masks prior to boarding.
- Vehicle sanitized before boarding, and hand sanitizer provided to passengers prior to boarding, after each stop where passengers leave the vehicle for comfort breaks,
- Frequent hand sanitizing is recommended during transit.

## 8.3 SOCIAL DISTANCING

Social distancing has been shown to be an effective method to slow down the spread of the corona virus. It will be incumbent on the contractor to ensure that the construction site and facilities are set up in such a way that it will be possible as far as is practicable to maintain the required social distancing of a minimum of 1 metre between persons when at work.

Where it is not possible to maintain the required distance between workers due to the nature of the work activity, e.g. curb laying, confined working areas, rebar tying, preparing wire cages, the contractor will be required to implement, maintain and enforce a procedure to adequately protect such workers against potential infection with the corona virus. This includes but is not limited to:

- Providing adequate supplies of suitable PPE such as face masks, task specific gloves, safety glasses, disposable/additional coveralls.
- PPE used during multi-person activities to be exchanged immediately after the task is completed; Sealed bins to be provided for disposable PPE such as masks, disposable coveralls, disposable gloves, etc.
- Sealable bags provided to each person for keeping PPE requiring laundering, such as gloves and overalls, and
- Sanitising/washing facilities provided for immediate sanitizing of hard hats, safety glasses, shoes, safety harnesses etc. on completion of multi-person tasks.

## 8.4 ACCESS/EGRESS OF SITE, WELFARE FACILITIES, MEETING AREAS

The Principal Contractor is to ensure there is suitable and adequate provision to minimize the risk of persons who may be infected with Covid-19 entering the site, the spread of the virus between persons who work on or visit the site and the risk of potentially contaminated persons leaving the site and accessing public spaces or going home to their families. To achieve this, the contractor is required to implement, inter alia the following measures:

- Persons accessing the site in groups to maintain social distancing of at least 1 metre while waiting to access the site.
- Persons waiting to access the site to be segregated from the public where required by the provision of dedicated, prominently identified public pedestrian walkways situated in such a way that social distancing is maintained between site personnel and the public.
- Screening of each person who enters the site with a no-touch infrared thermometer.
- Means of sanitizing each person and their belongings, who access and leave the site.

## **8.5 ALCOHOL AND DRUG TESTING**

Alcohol testing may only be done using single use test units and must be disposed of in the appropriate contaminated waste. Drug testing will only be done by an occupational health facility either using urine or blood sampling. A protocol will be drawn up by the Principal Contractor to manage this with the occupational health service being used.

## **8.6 MEDICAL SURVEILLANCE**

The normal requirements of pre-placement, periodic and exit medicals will remain, with the Occupational health service providing a methodology of how they will be including factors relating to Covid-19. No lung functions or peak flows will be done until deemed safe to do so by the South African Thoracic Society.

It is preferable that occupational health service providers use a cloud-based record keeping service to ensure easy tracking and tracing.

Any person who contracts the virus may need to be reported to the Compensation Commissioner as an occupational disease where their work is to monitor and in contact with others.

Such details are provided in the Compensation for Injuries and Diseases Act (COIDA).

Isolation of workers who have a temperature or any symptoms, and removal to the closest facility for testing and treatment, through the numbers provided. The Principal Contractor is to ensure their policy on this includes such information.

Workers will be required to complete COVID-19 questionnaires prior to returning to site. Any worker with any symptoms is not to return to work or notify the PC of same.

## **8.7 ABLUTION FACILITIES**

Ablution facilities are an essential facility that must be available for workers across a site. Facilities are a high-risk area and increased cleaning regimes are required to be introduced. A plan on how this will be done is required, that will cover both portable and permanent facilities. The following are considerations, which include, inter alia:

- Portable toilets to be provided at a 1:10 ratio
- Cleaners to continually clean and have a formal cleaning regime
- Hand washing facilities (soap and water, paper towel) to be available where possible, and if not, to provide hand sanitizer
- Induction training to educate to ensure all users are hand washing correctly
- Flush toilets preferably 1:15 unless increased cleaning regime present.
- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant.
- Wash hands before and after using the facilities.
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush.
- Portable toilets should be avoided wherever possible, but where in use these should be cleaned and emptied more frequently.
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal that need to be managed as hazardous waste.

- Introduce staggered start and finish times to reduce congestion and contact at all times.
- Consider increasing the number or size of facilities available on site if possible, and
- Provide suitable and sufficient rubbish bins in these areas with regular removal and disposal.

## **8.8 SECURITY ACCESS**

Public access to site is to be limited at all times, and non-essential visitors are not to be allowed entry. There is required to be staggered access at all times. The following aspects are to be included in the plan as to how such issues will be managed, inter alia:

- Introduce staggered start and finish times to reduce congestion and contact at all times.
- Monitor site access points to enable social distancing – consideration for the number of access points, either increase to reduce congestion or decrease to enable monitoring.
- Remove or disable entry systems that require skin contact e.g. fingerprint scanners or biometric system.
- 
- Require all workers to wash or clean their hands before entering or leaving the site.
- Ensure social distancing between people waiting to enter site.
- Regularly clean common contact surfaces in reception, office, access control and delivery areas e.g. scanners, turnstiles, screens, telephone handsets, desks, particularly during peak times.
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible, and
- Drivers should remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.

## **8.9 COVID-19 WASTE MANAGEMENT**

Waste management arrangements to be updated to include provision for the disposal of additional waste generated due to preventative measures implemented. All waste to be managed as hazardous waste.

### **8.9.1 Disposal of any gloves, masks**

The contractor shall dispose of all used gloves and masks as hazardous waste and provide sealable bags and containers for the safe disposal of this waste.

### **8.9.2 Paper towels**

The contractor shall provide adequate supplies of paper towels on site. At points where these towels are provided lined waste bins to be placed in order to collect all used towels and then to be disposed of in hazardous waste.

### **8.9.3 Disinfectant solution**

The contractor to provide adequate supplies of disinfectant on site where the use of water and soap for cleaning is not practical. If disinfectant dispensers are not refilled it should be disposed with other hazardous waste.

### **8.9.4 Wastewater**

Wastewater at washing points, toilets, and bathrooms to be contained in a drainage system that prevent surface spills. If wastewater is contained in waste buckets it must be sealed when removed and disinfected after it is cleaned.

## **8.10 SIGNAGE**

The Principal Contractor is to review all current signs and notices displayed on site. The Principal Contractor is to avoid conflicting messages/notices that have been in place prior to lockdown and review according.

### **8.11 ACCESS RULES**

The contractor shall install additional signage with site rules specific to the prevention of spreading the COVID-19 virus at the access control points of the site.

### **8.12 NOTICES/POSTERS WITH PROTOCOLS**

Notices and posters shall be placed and installed to raise awareness and regarding protocols to be followed on site. These notices and posters shall be placed conspicuously at various points on the site including the following places:

- Entrance
- Site notice board
- Site Office
- Eating areas
- Next to toilets and bathrooms
- Hand washing stations
- Storerooms

### **8.13 EMERGENCY PLANNING**

An updated emergency plan is to be completed that is in line with the current Regulations of the National Disaster Management Act.

#### **8.13.1 First aid**

Extra gloves, and disinfectants are to be available, first aiders are to be issued with at least FFPT2 masks should they be required to respond

#### **8.13.2 Evacuation plans**

Evacuation plans should consider social distancing.

### **8.13.3 Isolation of potentially infected workers**

The emergency plan is to consider how anyone who arrives on site and displays any of the symptoms or has a raised temperature.

### **8.14 COVID-19 PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Availability of personal protective equipment PPE is an imperative and should be available at all times. Where this is not so, the work related to the activity will be stopped until adequate supplies are available.

Storage of PPE is to be tightly controlled, with records of issue. Damaged PPE is to be managed in the usual way, but all to be disposed of as if contaminated.

The hierarchy of control applies with the use of PPE. Specific regard for the type and usage, training and control is to be outlined in the policies and procedures.

#### **8.14.1 Masks**

Masks are compulsory for all employees, reducing the potential of inhaled COVID-19 droplets. For general administration purposes, for essential staff on site only, cloth masks may be worn. N95 masks are only to be worn by first aiders or high-risk workers, due to the national shortage thereof. All employees to have access to N95 or FFPT2 masks when required, only in instances of high risk of exposure

All N95 and FFPT2 masks to be disposed with or after 1 day's use. Induction is to include training on the correct use of face masks.

Cloth face masks to be used on entering and leaving the site. It is advised that each worker is supplied with at least 3 cloth face masks. This would assist ensuring that the masks are hygienic (1 on the face; 1 in the wash and 1 as a backup).

The Principal Contractor must ensure that sufficient stock is at all-time available on site. This will also have depended on the type of mask being issued.

All disposable masks are biological waste and must be properly disposed of. This must be disposed in container (locked) or in bags to be either removed as medical biological waste by registered service provider

Clearly identifiable bins indicating biological waste to be provided

*Section of Page left intentionally blank*





#### **8.14.2 Face Shields**

The Principal Contractor could also look at options such as full-face shields for preventing spreading of virus through eyes. This would assist the employee who is doing hard physical work to breathe more easily but still protecting the mouth, eyes and nose.

Face shields should be cleaned daily before the shift and at the end of the shift. Proper cleaning agents/disinfectant must be used. Face shields should be issued to employees and no sharing is allowed.

#### **8.14.3 Overalls**

All employees must be issued with 3 overalls (1 overall wearing; 1 overall in the wash and one as the backup). This will ensure that the employee will be able to wear clean hygienic overalls. This must form part of the COVID-19 training for all employees.

#### **8.14.4 Hand Gloves**

It is preferable that surgical gloves are not worn unless indicated and workers trained in the proper use thereof. Gloves must only be used when the activity demand the wearing of specific type of hand gloves. This will be directed by the Principal Contractor risk assessment.

Site office personnel need to be made aware of the risks in the office environment, this include handling of documents and plans. These employees could be issued with the appropriate hand gloves or sufficient hand wash / sanitising facilities must be available in the site office



## **8.15 CONSEQUENCE MANAGEMENT**

### **8.15.1 Change Management**

The Principal Contractor shall ensure that regular information pertaining to COVID 19 and or any health and safety matters is distributed to ensure that required measures / controls is timeously addressed. There are various information platforms available to the employer and or employee that can assist in keeping them informed:

- Local Authority / Legislation
- World Health Organizations
- Health Care Departments / Health Care Professional's / Centre's / Hospitals
- Public Service Announcements – National News

Each employer is responsible and required to keep his or her employees informed by means but not limited by conducting the following.

- Awareness campaigns -i.e. posters within workplaces
- Daily Site Task Instructions (DSTIs)
- Toolbox talks / Daily briefings
- Meetings
- Company policies / procedures / Employee wellbeing interaction
- Company newsletters
- Telecommunications – Cell phones Apps / e-mail

### **8.15.2 Succession Planning**

Employees who are performing specialized work/activities (including plant operators) must be identified. These positions must have alternative employees that could perform these activities. This could mean additional training for these employees.

Key personnel on site should also have competent alternative employees that could perform these functions when needed. Where possible administrative staff should be working from home to limit any opportunistic exposure.

It is very important to understand that the availability of certain essential products and material may not always be available and thus proper planning must be in place to ensure that the activities on site are not interrupted.

Proactive planning must be in place to ensure that the following are ordered and available:

- PPE (cloth face masks, face shields, overalls)
- Hand sanitizers with at least 60% alcohol content
- Disinfectants and cleaning materials

### **8.15.3 Consequences**

When non-compliance activities are noted, those activities will be stopped. Should the remedial actions not take place the site will be shut down till the corrective actions have been implemented. Employees that do not work according to the health and safety specifications and plans must be disciplined according to the company's disciplinary codes and practices.

Supervisory employees on site must ensure compliance, and when non-conformances are noted disciplinary actions should also be followed.

The Principal Contractor should note that they could be fined and even according to the Disaster Management Act, arrested.

#### **8.15.4 Welfare Facilities**

The Principal Contractor shall adapt arrangements regarding the provision of welfare facilities to be in line with Government guidelines and requirements.

#### **8.15.5 Food Storage**

The Principal Contractor shall provide lockable storage for all employees on site, which shall be disinfected daily. Training and awareness to address procedures and the importance of good hygiene practice.

#### **8.15.6 Personal Belongings**

Apart from extra clean personal clothing no other personal belongings allowed on site except if kept in locker provided by the Principal Contractor.

#### **8.15.7 Communal Drinking Facilities**

The Principal Contractor shall provide adequate supplies of bottled water to all employees on site. Empty bottles to be disposed of as normal waste. Training and awareness to address procedures and the importance of good hygiene practice. No communal drinking facilities to be shared e.g. cups etc.

#### **8.15.8 Meetings**

The Principal Contractor is to limit the number of employees at all activities to the minimum required to do the work in a safe manner. Where possible meetings must be held in open areas limited to essential personnel. Technological alternatives to be exploited for meeting attendance if possible. Training and awareness to address procedures and the importance of social distancing.

#### **8.15.9 Eating Areas**

The Principal Contractor is to limit the number of employees at all eating activities to the minimum. Stagger lunch breaks and resting periods for work teams. Training and awareness to address procedures and the importance of good hygiene practice and social distancing.

Workers are required to stay on site once they have entered it and not use local shops. Dedicated eating areas should be identified on site to reduce food waste and contamination.

- Break times should be staggered to reduce congestion and contact at all times.
- Hand cleaning facilities or hand sanitiser should be available at the entrance of any room where people eat and should be used by workers when entering and leaving the area.
- Workers should be asked to bring pre-prepared meals and refillable drinking bottles from home.
- Social distancing to be applied whilst eating and avoid all contact.
- Drinking water should be provided with enhanced cleaning measures of the tap mechanism introduced.
- Tables should be cleaned and disinfected between each use.

- 
- All rubbish should be put straight in the bin and not left for someone else to clear up.
  - All areas used for eating must be thoroughly cleaned at the end of each break and shift, including chairs, door handles, vending machines and payment devices.

## APPENDIX A

### OHS Written Agreement (Section 37 (2))

## MANDATORY AGREEMENTS (37.2)



### WRITTEN AGREEMENT ON OCCUPATIONAL HEALTH AND SAFETY MATTERS

(In accordance with Section 37(2) of the Occupational Health and Safety Act 85 of 1993)

AS ENTERED INTO BY AND BETWEEN

**Department of Infrastructure Development**  
(Herein after referred to as the “Employer”)

and

.....  
(Herein after referred to as the “Mandatory”)

**Compensation Fund Number:**

.....

I, .....representing ..... , do hereby acknowledge that ..... is an employer in his/her own right, with duties as prescribed in the Occupational Health and Safety Act No. 85 of 1993 (“the Act”), as amended, and agree to ensure that all work will be performed and/or machinery or plant used in accordance with the provisions of the Act.

I undertake that ..... shall strictly adhere to, and ensure that his/her employees adhere to, the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993). I have been provided with SHE specifications for **Laerskool Fleur School Refurbishment and Rehabilitation project** and will comply with the requirements set out in these. I accept and agree that the SHE specifications constitute arrangements and procedures between ..... And **Department of Infrastructure Development** which will ensure compliance by ..... with the provisions of the Act, as contemplated in Section 37(2) of the Act.

This agreement constitutes the sole agreement between the parties, and no variation, modification, or waiver of any of the provisions of this agreement or consent to any departure from these shall, in any manner, be of any force or effect, unless confirmed in writing and signed by both parties, and such variation, modification, waiver, or consent shall be effective only in the specific instance and for the specific purpose and to the extent for which it was made or given.

This agreement is signed on behalf of the parties, each signatory to this warranting that he/she has the requisite authority to do so.

Signed this ..... day of ..... 20..... at .....

Name ..... Signature .....

on behalf of .....

Witnesses

1. ....

2. ....

Signed this ..... day of ..... 20..... at .....

Name ..... Signature .....

on behalf of **Department of Infrastructure Development**

Witnesses

**1.** .....

**2.** .....

## APPENDIX B

### **Appointment of Principal Contractor**





## APPOINTMENT OF PRINCIPAL CONTRACTOR

*Construction Regulation 5(1)(k)*

I ..... hereby appoint ..... as  
Principal Contractor in terms of Construction Regulation 5(1)(k) to perform **Laerskool Fleur School  
Refurbishment and Rehabilitation project**

You shall ensure that all requirements of the Construction Regulations including all other applicable SHE legislation, Department of Infrastructure Development SHE Specification and Baseline Risk Assessment are complied with at all times. Upon identification of any new hazards from scope changes or other factors, which were not considered in the contractor Risk Assessment, or SHE Plan, such documents shall be resubmitted for approval in writing to **Department of Infrastructure Development**

The contractor and their employees including subcontractors shall fully comply with the requirements of The Occupational Health and Safety Act and Regulations (85 of 1993), Environmental Legislations and Municipality bi-laws applicable to this project. The contractor shall also ensure that they have signed the Client OHS Act 37.2 Agreement as well as appoint their contractors in terms of OHS Act 37.2 Agreement and/or the Construction Regulations 7(i)(c)(v).

In executing this project, you and your potential contractor shall ensure (a) that you comply with all legislations governing this project (b) that competent employees and sub-contractors with sufficient skill and knowledge are employed, (c) that sufficient provision for Health and Safety measures during the construction process is made.

This letter is valid until completion of the project.

.....

Signature of Client (16.2)

.....

Date

**I**..... Designation .....

*Full name and surname of contractor representative*

On behalf of ....., understand the implications of the appointment as detailed above and confirm my acceptance thereof.

.....

Signature

.....

Date

ANNEXURE B: TRAINING MONTHLY SUMMARY SHEET

Name of Contractor  
Project Name  
Project Number  
Applicable Month

No of Working Days: Maximum including training = 23 days per month

|

Number	Surname	Initials	First Name	ID Number	Birth Date	Course Name	Course Code	Rate per day	Start Date	End Date	Total Number of Trainees	Number of Days	Cost	Status	Training Provider
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															
20	Totals for month														

Signature Official

ANNEXURE C: DAILY SITE ATTENDANCE REGISTER

Name of Contractor  
Project Name

Validation: Cannot  
be more than 23  
days per person per  
month.

Project Number  
Month:

1 = At Work      A = Absent      L = Leave      SC = Site Closed  
SL = Sick Leave    P = Public Holiday    2 = Training

	Surname	Initials	ID Number	Birth Date	Rate per day ( R )	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total Work days	Total Training Days	Total work days & training days
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2																																							
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4																																							
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17																																							
18																																							
19																																							
20																																							
20	TOTALS																																						

\_\_\_\_\_  
Signature of CLO

\_\_\_\_\_  
Week 1: Signature of Contractor

Validation: Total work days 0  
Total training days 0

\_\_\_\_\_  
Week 1 -2: Signature of Contractor Organisation

\_\_\_\_\_  
Week 2: Signature of Contractor

Total work days + training days 0  
Variance 0  
Variance must be 0

\_\_\_\_\_  
Week 3: Signature of Contractor

\_\_\_\_\_  
Week 3-4: Signature of Contractor Organisation

\_\_\_\_\_  
Week 4: Signature of Contractor

ANNEXURE C: BENEFICIARY LIST

Name of Contractor  
Project Name  
Project Number  
Month:

Number of workers	Name	Initials	Surname	ID Number	Date of Birth	Gender	Disability (Y?N)	Highest Level of Education	Start Date	End Date	First Language ID	Address	Contact Number	Government Grant (Y/N)	Other Language ID 1	Other Language ID 2	Number of people in Household	Number of Dependants in Household	Number of Children attending school
1																			
2																			
3																			
4																			
5																			
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29																			

\_\_\_\_\_  
Signature of CLO

## CALCULATION OF PENALTY PER DAY (EXCLUDING VAT)

CONTRACT PERIOD	RATE PER R100 OF ESTIMATE
1 month	27,5 cents
1,5 months	22 cents
2 months	16,5 cents
2,5 months	13,5 cents
3 months	11 cents
3,5 months	9,5 cents
4 months	8,5 cents
4,5 months	7,5 cents
5 months	6,25 cents
6 months	5,75 cents
7 months	4,75 cents
8 months	4 cents
9 months	3,75 cents
10 months	3,5 cents
11 months	3 cents
12 months	2,75 cents
14 months	2,5 cents
15 months	2,25 cents
16 months	2 cents
18 months	1,75 cents
20 months	1,5 cents
21 months	1,5 cents
24 months	1,25 cents
30 months	1 cent
36 months	1 cent
42 months	1 cent

## PENALTY PER DAY ROUNDED OFF AS FOLLOWS:

R0	-	R500	nearest	R5
R501	-	R1 000	nearest	R10
R1 001	-	R5 000	nearest	R50
R5 001	-	and above	nearest	R100

**EXAMPLE**

Estimated contract value = R2 500 000 (excluding VAT)

Contract period = 12 months

$$R2\ 500\ 000 \times \frac{0,0275}{100}$$

= R687,50/day

Therefore rounded off to the nearest R10.00

= R690,00/day

**PENALTIES ON CONTRACTS IN PHASES**

Penalties must be calculated proportionally on the estimated contract value of each phase



**GAUTENG PROVINCE**  
 INFRASTRUCTURE DEVELOPMENT  
 REPUBLIC OF SOUTH AFRICA

**DID NUMBER: DID20/11/2022**

**SERVICE: SUPPLY AND INSTALLATION OF NEW MOVABLE CLASSROOM AND  
 ABLUTION FACILITIES COMPLETE INCLUDING SITEWORKS AND  
 CONNECTION OF ELECTRICITY, SEWER, WATER SUPPLY AT  
 LAERSKOOL FLEUR**

## **Part C4.1 Site Information**

### **C4.1 THE SITE**

**236 Hans Strijdom Avenue, Lyttelton Manor, Centurion, 0157. GPS coordinates : 25°82'07"S  
 28°21'02"E**

### **C4.2 WORK AREA**

Employer shall make available a work site , free of charge, to the Contractor for the duration of the Contract. The location of the site will be pointed out by the Supervisor during the site clarification meeting. The Contractor shall submit a site layout plan indicating the proposed working areas, storage, stock piling area, amongst others before for approval by the Project Manager before establishing on site.

### **C4.3 ACCESS**

The access to site will be confirmed in due course.

### **General**

#### **Existing services**

The Contractor is to refer to the Land Surveyor's drawings for information pertaining to services on the Site.

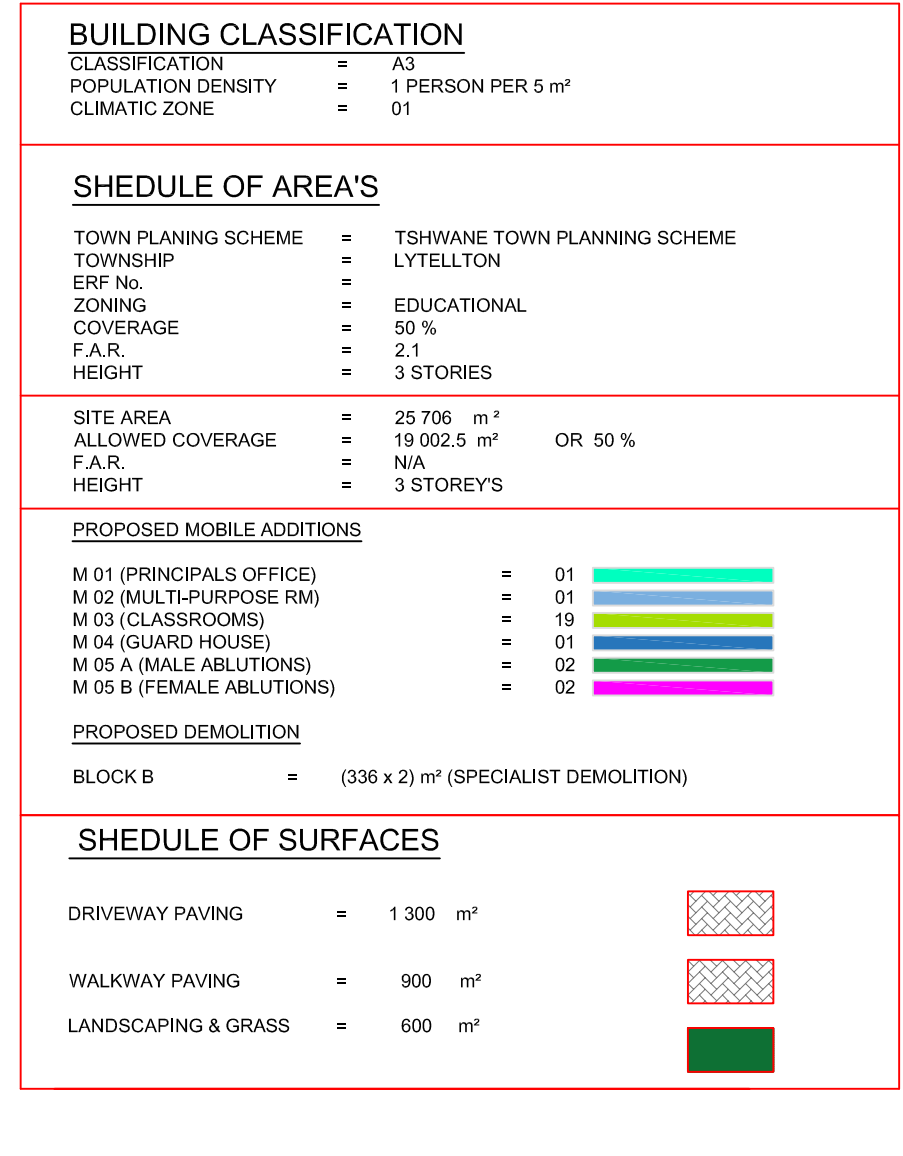
#### **Restrictions on site**

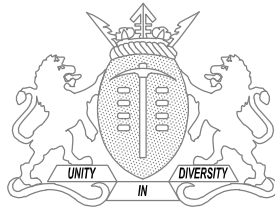
Whilst there are no known restriction on site , the Contractor is to seek confirmation from the Project Manager before any site establishment.



## **DRAWINGS AND SPECIFICATIONS**



[illegible]

B	02/22	ISSUED FOR INFORMATION			
A	05/21	ISSUED FOR INFORMATION			
REV NO	DATE	DESCRIPTION			
		REVISONS			
SIZE ON ORIGINAL DRAWING: 100 mm					
					
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT					
INSTITUTION					
GAUTUNG PROVINCIAL GOVERNMENT OF EDUCATION					
SERVICE					
ERF 2118					
CONTRACT / SECTION			BUILDING OCCUPANCY CLASSIFICATION		
			PROJECT STAGE		
DESCRIPTION			384		
ARCHITECTURE					
WORK DESCRIPTION: 258 - DESIGN					
SITE DEVELOPMENT PLAN					
MATERIALS SPECIFICATION					
SITE PLAN (DECANTING)					
FILE NO.	01027012055006	AAAM	ITEM NO.		
DESIGN	770112022020	AN	DESIGN		
SCALE	1:5000	AN	CHECKED		
DATE	NAME & SURNAME	SIGNATURE	PK NUMBER		
03/02/2022	ANDRIJE NGAKA				
DRAWING CO-ORDINATES					
04/02/2022	ARCHITECT MOBILE				
PROFESSIONAL CONSULTANT FIRM					
MOCHILITE ENGINEERING CONSULTING					
23 1st Floor, Maratun Road Building, 62 Street Chiburi					
Avenue Addoratu 14550					
Tel: +27 11 880 0322					
APPOINTED CONTRACTOR					
OWN SYSTEM	REMIT ARCHITECTURE	A101	FILE NAME		
SHEET SIZE	DRAWING NUMBER		RAY		
A4	A101				



# ARCHITECTURAL SPECIFICATIONS

## 1 MOBILE CLASSROOMS

### 1.1 General

The Designs are largely formulated around the Prefabricated Mobile Designs, which are unique and designed as per different Suppliers' Preferences. Before procurement, the PSP will evaluate quotes and Mobile Classroom Specifications for approval.

### 1.2 . SCOPE /DELIVERABLES

**The appointed Service Provider/s must be able to:**

Manufacture, supply and install mobile classrooms, admin block and ablution facilities complete, including siteworks, connection of electricity, Sewer, water supply and re-establishment within seven (7) working days as an indicative delivery timeframe for one classroom, and as detailed in the following specifications and sketches attached as Annexures A to I. The indicative seven days may vary according to scope, variations, Access to any type of bulk services.

The GDE requires the services of construction, supply and installation of mobile ordinary classrooms, admin block, ablution facilities, specialist classrooms and kitchen units in order to be able to provide a turnkey solution to addressing its needs for emergency classroom accommodation for Laerskool Fleur.

The successful service provider/s will be expected to connect the mobile classrooms, admin block ablution facilities to the existing electricity, Sewer and water supply. The mobile classrooms, admin block, ablution facilities and kitchen units should be made of panels that shall be easy to dismantle, transport on a flatbed truck and reassemble at a new site.

### 1.3 Detailed Specifications

- **Steel Work**

- a. All superstructure steel (exposed and unexposed surfaces) to be treated with an approved degreaser, rust remover, rust converter, one coat metal primer, one coat universal undercoat and two coats high gloss universal enamel.
- b. All steel to be hot dipped galvanised including under-carriage.

- **Foundations**

- a. No concrete platform or permanent foundations permitted.

- **Chassis**

- a. Chassis to be supported on adjustable levelling jacks placed on and including precast and precast concrete pads.
- b. Levelling jacks to be fixed to concrete pads and chassis.

- **Portal Framework**

- a. No member of the portal framework, except the ridge beam, shall: Project beyond face of any surfaces.

- **Roof Construction**

- a. Double pitched roof construction.
- b. Full hard galvanised IBR sheets (0.5mm) or suitable reflective chromadek roofing.

- **Metal Roof Covering & Flashings**

- a. Minimum requirement for all metal roof coverings and flashings shall be of coastal grade.

- **Finish to Metal Wall Claddings, Flashings and Linings**

- a. Minimum requirement finish to internal and external metal wall claddings, flashing and Linings shall be epoxy coating.

- **Eaves Overhang**

- a. The eaves overhang to the one side of the building shall be 350mm measured horizontally from the external face of the external wall to the end of the eaves overhang.
- b. The eaves overhang to the other side of the building shall be 1500mm measured horizontally from the external face of the external wall to the end of the of the eaves overhang.
- c. The minimum height from the finished ground level to underside of lowest eaves overhang component is 2100mm.

- **Rainwater Goods**

- a. Gutters: 100mm Half round uPVC gutters provided to both eaves overhangs, Including fixing brackets, stopped ends and outlets.
- b. Downpipes: One 75mm Upvc down the pipe to both eaves overhang, including three fixing brackets per downpipe, eaves offsets and shoes.
- c. Downpipes to 1500mm eaves overhang to be fixed to and including one non-structural 75 x 75 2.5mm thick galvanised mild steel column. The top of the column is fixed to the rafter and bottom of the column cast 450mm deep into and Includes a 400 x 400 x 500mm 20mPa /19mm-stone unreinforced concrete Pad footing.

- **External Doors**

- i. Only one door per unit.
- ii. Size of door: 813mm wide x 2032mm high
- iii. Standard Timber door
- iv. Provide weather bar on external face of door.
- v. Three lever lock set for:
  - ☐ Classrooms
  - ☐ Ablutions
  - ☐ Administration: keyed
- vi. Rubber door stop

- **Windows**

- a. All window frames to be of natural anodised aluminum sections.
- b. No mechanical installation to be allowed for.
- c. 3mm clear glazing to all windows.
- d. Window frame divided into equal pane sizes of approximately 300 x 300mm.
- e. Weather trims to be provided for the full length of the window.

- **Burglar Bars**

- a. All burglar bars to be natural anodised aluminum sections.
- b. Burglar bars formed of vertical sections spaces at 300mm centres and horizontal (Sections spaced at 150mm centres.)
- c. Burglar bars to be fixed internally.
- d. Burglar bars to be fixed to all fixed and opening sections.
- e. Burglar bars to fixed sections bent 75mm away from glazing surface.

- **Internal Doors**

- a. Size of door: 813mm wide x 2032mm high
- b. Same material as for wall panels
- c. Two lever lock set
  - ☐ (Classrooms: not applicable)
  - ☐ (Ablutions)
  - ☐ (Administration)
- f. 75mm Chromium plated barrel bolt for all doors to WC cubicles.
- g. Rubber door stop.

- **Floor Finishes**

- a. MM Thick PUR vinyl tiles.
- b. 19 x 76mm wrought meranti skirting.
- c. Apply three coats clear varnish to skirting.

- **Ceilings**

- a. Where the ceiling slopes with the roof, the minimum floor to ceiling height must be 2 400mm, measured from floor to underside of wall plate.
- b. Where the ceiling is flat (not stopping with the roof), the minimum floor to ceiling height must be 2 600mm, measured from floor to underside of ceiling.
- c. Where the material used in ceiling panels does not equal the thermal insulation Qualities of approved 50mm insulation, last must be provided over the full area of the ceilings.

- **Access to Units**

- a. Access structure to be fixed to unit.
- b. A galvanised mild steel structure consisting of 2 x steps with a tread width of 350mm x 1000mm wide, to be formed of a galvanised mild steel plate with a non-slip surface.
- b. Top of landing to be level with top of finished floor of unit.

- **Disabled Access (where applicable)**

vii. A galvanised mild steel ramp with a width of 1000mm, the surface to be formed of a galvanised mild steel plate with a non-slip surface, fitted with galvanised mild steel balustrade.

- **Sanitary Fittings**

a. All sanitary fittings (i.e. sink, wash hand basin, WC and urinal) to be granite colour roto moulded lower linear density polyethylene (LLDPE) product.

- **Plumbing and Drainage**

a. Water supply

☐ All pipes to be polycop with brass compression fittings.

b. Waste

☐ All waste, traps, pipes, etc to be uPVC fittings.

c. Sewer

☐ All traps, pipes, etc. To be uPVC with uPVC fittings.

- **Electrical Installation**

a. All electrical installation components to be SABS approved.

b. Electrical Installation to unit to be completed with and including all Wiring, cabling, etc,

c. 220 Volt power supply.

d. Where required a 20-way surface mounted distribution board to be installed to one unit, supply separate circuits to the rest of the units on the same site.

e. No separate provision for Computers.

f. Conduits: 20mm PVC

g. Conduit Boxes and covers: PVC

h. Conductors: PVC insulated conductors

i. Earth wire: PVC insulate copper earth wire

j. Internal lighting: "Harper RB265SS" or equal approved 2 x 58 Watt long open channel two tube fluorescent light fittings., 9 watts round bulkhead light fitting complete with two ballast.

- **Telephone Installation**

a. Not required except in Admin Block

- **Intercom Installation**

a. Not required – except where stated

- **Close Off Space Under Units**

a. Close off space under units around perimeter of unit to prevent any individual

b. From entering the space under the unit.

c. Fix 50 x 50 x 3mm diameter hot-dipped galvanised class A welded wire mesh, with bottom 100mm 1-section galvanised mild steel droppers, spaced at 3000mm centres. All fixing with and including 2mm binding wire.

d. L-section steel droppers to be driven into ground at least 600mm deep and to Protrude 50mm above underside of chassis.

#### **1.4 CLASSROOM (ORDINARY & SPECIALIST) (Where applicable)**

The following specification in addition to the specification for "All mobile units" (paragraph 4.2)

- **Size Per Unit**

- a. Internal floor area for Ordinary Classroom: 60 square meters
- b. Internal dimensions (for Ordinary Classroom): 8 780mm long x 6 840mm wide
- c. Refer to drawing annexed to this term of reference

- **Fittings Per Unit**

- a. The following must be provided:

- **Writing boards**

- a. White dual-purpose writing board with integral aluminum pen rail plugged
- b. Size per board: 2 400mm wide x 1 140mm high
- c. Number of: Two

- **Pining Boards**

- a. Type: 9mm Flortime Premier or other approved pinning board with surround
- b. Six per board: 2440mm wide x 1 220mm high
- c. Number of: Two

- **Overhead projection screen bracket**

- a. Type: Hot dipped galvanised mild steel overhead projection screen bracket bolted.
- b. Size 680mm long x 330mm wide x 330mm high extreme
- c. Refer to drawing annexed to this Tender Document.

- **Electrical Installation Per Unit**

- a. The following must be provided:

- **Lay out of electrical installation**

- a. Refer to drawings annexed to this Tender Document

- **Internal lighting**

- a. Switches: Type 16Amp single lever one-way switch
  - Number off: ONE
- b. Light fittings: Type:1500mm Long double tube ceiling mounted fluorescent fitting
  - Number off: FOUR

- **Socket and power outlets**

- a. Socket outlet:
  - Type: 16 Amp double 3-socket outlet
- 1. Number off: ONE
- 2. To be installed in front of the classrooms

## 1.5 ABLUTION UNIT

- **Size of Unit**

- a. Differentiation is made between girls' and boys' ablutions.
- b. Internal floor area: square metre
- c. Boy's ablutions: Provide 4 WC's, 4 urinals and 4 wash hand basins
- d. Girl's ablutions: Provide 9 WC's and 5 wash hand basins
- e. Male staff: Provide 1 WC, 1 urinal and 1 wash hand basin
- f. Female staff: Provide 1 WC, 1 urinal and 1 wash hand basin
- g. Refer to drawing annexed to these terms of reference

- **Window Glazing**

- a. All glazing to be 4mm obscure glass

- **Sanitary Fittings**

- **WC's**

- a. Number of: As per requirement for boys, girls and staff
  - b. Low-level WC suite comprising of P-trap pan, heavy-duty plastic flap and seat, low level 9 litre cistern, pan connector, flush pipe, flushing handle, flushing mechanism and all water supply pipes & fittings and sanitary pipes & fittings.

- **Wash hand basins**

- a. Number of: As per requirement for boys, girls and staff
  - b. 570mm x 395mm wash hand basin, complete with and including fixing brackets, ONE 15mm "star" handled brass chromium-plated pillar tap, waste with plug and chain trap and all water supply pipes & fittings and waste pipes & fittings.

- **Urinals**

- a. Number of: As per requirement for boys and staff
  - b. Bowl urinal, complete with fixing brackets, flush master, flush pipe and spreader, waste trap and all water supply pipes & fittings and waste pipes & fittings.

**NOTE: Fixing Brackets to all Sanitary Fittings must be the Full Depth of the Fitting.**

- **Mirrors**

- a. Provide one mirror above each wash hand basin
- b. Size: 450 high x 300mm wide
- c. Mirror: 6mm Floated glass copper backed mirror with 10mm bevelled and polished edges holed for and fixed with chromium-plated dome capped screws with rubber buffers.

- **Electrical installation per unit**

- a. The following must be provided:
  - Lay out of electrical Installation (Refer to drawing annexed to this terms of reference)
  - Internal lighting Switches: Type 16 Amp single lever one-way switch

- **Sewer**

- a. Sewer pipe size: 110mm PVC
- b. Hand basin waste pipe: 50mm PVC





## 1.6 ADMIN BLOCK DETAILS

- Sizes 1:100 Total size = 12164 x 8582mm**

Staffroom : 4000 x 7000

Reception/ Waiting area : 3500 x 4000

Office 1 and : 3500 x 4000

Office 2 : 3000 x 3459

Female and : 1500 x 2218

Male toilets : 1500 x 2218

Kitchen : 1918 x 2218

Passage : 1200 x 4918

Walkway : 1500 x 12164

- Admin block details**

Item No.	Description	Staffroom	Reception/ Waiting area	Office 1 and Office 2	Female and Male toilets	Kitchen	Passage
1	Light switch	01	01 double	01 each	01 double each	01	01
2	Florescent lights	02	01	01 each	01 each	01	
3	Double wall plugs-SGL.16 amp	06	01	02 each		01	
4	Standard timber door	01	01 double	01 each	01 each	01	
5	Windows (900x600mm)	04	02	02 each	01 each (600x600mm)	01 (1200x900mm)	
6	Electricity Distribution Board		01				
7	Waste chamber (toilet seat)				01 each		
8	Hand wash basin				01 each		
9	Worktop + sink + cupboard					01	

- Panels**

a. Made of prefabricated panels that shall be easy to dismantle, transported on a flatbed truck and reassembled at a new site within seven (7) working days.

- Exterior and interior wall paint**

a. Chromadek finish (0.5mm) on both internal and external (white or similar approved)

b. Insulation: 40mm high density foam (polyurthereane).

- Civil works (Site Preparation)**

a. The required site leveling / preparation shall be allowed for per classroom, admin block and ablution facilities installed if required.

- **Transportation cost**

- a. Rate per kilometer of transporting mobile classrooms, admin block and ablution facilities to destination to be included in pricing.
- b. The base will be Johannesburg or factory of production, whichever is the shortest distance to the destinations or point of supply.
- c. The shortest distance between the sites and Centurion or the base must be claimed unless a unit is relocated between sites and the actual distance must be claimed.

- **Installation on Site (Assembly and Electrical connection)**

- a. The cost of the installation of the classrooms, admin block and ablution facilities to be included in the pricing.

- **Warranty**

- a. The prospective service provider shall provide a description of warranty of workmanship and materials against defects under normal service.

## **1.7 ADDITIONAL REQUIREMENTS**

- **Engineer's Approval**

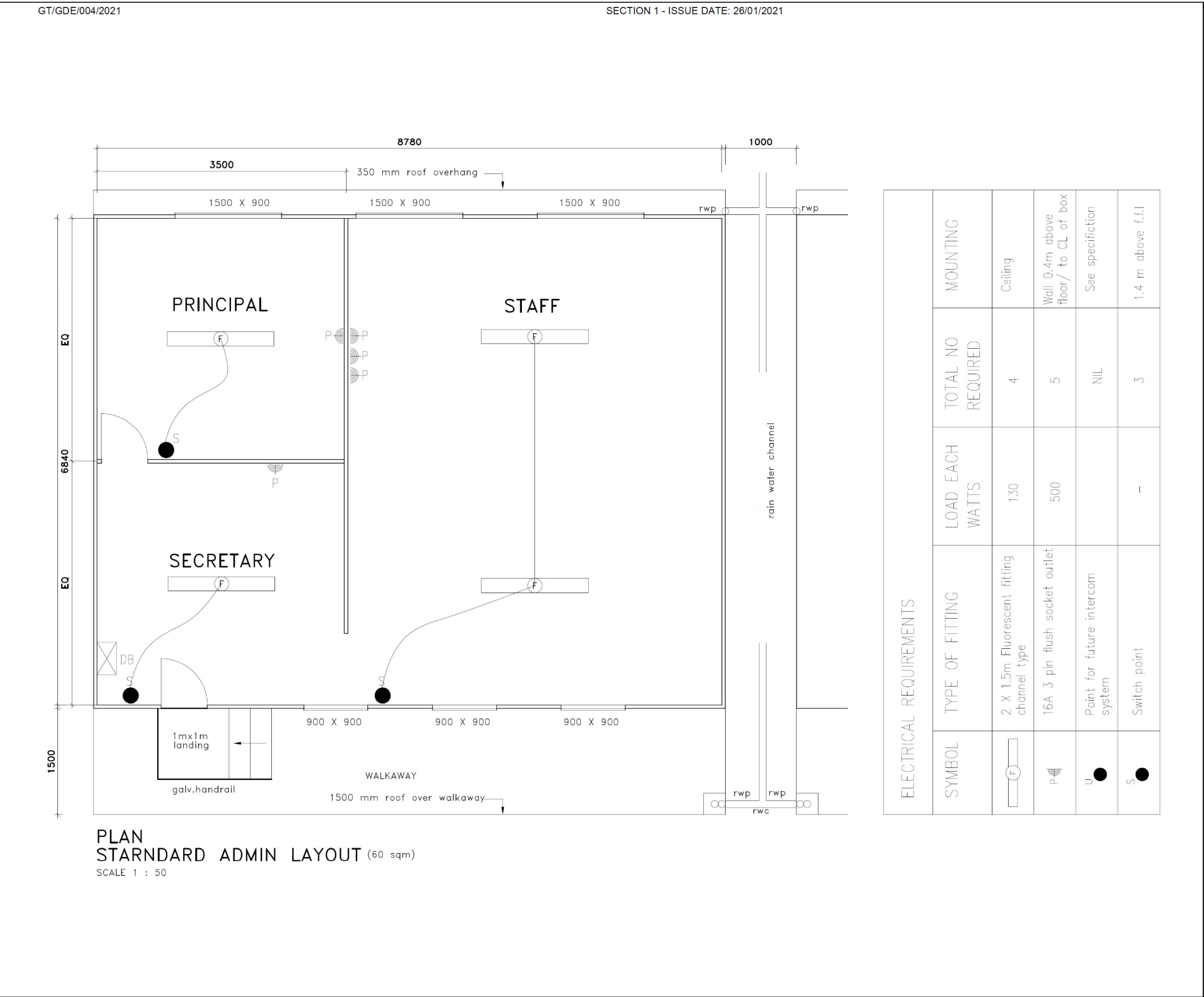
a. Before commencing with the manufacturing of the units, detailed engineers' drawings, prepared by a registered engineer, regarding the design, manufacturing, construction, transport process, placing process on-site and fixing of levelling jacks to precast concrete pads and mobile unit, shall be submitted to the Department for approval.

b. A registered engineer shall inspect the manufacturing, construction, transport process, placing process on-site, and fixing levelling jacks to concrete pads and chassis.

c. The appointed service provider shall obtain and submit a certificate of approval from a registered engineer for the design, manufacturing, construction, transport process, placing process on-site and fixing of levelling jacks to concrete pads and chassis to GDE.

- The appointed service provider/s must provide mobile classrooms, admin block and ablution facilities as detailed in the specification within seven (7) days.
- The quantities shall be determined by GDE as and when required.
- The successful service provider/s must be available to move the classrooms and admin block ablution facilities from one location if required (re-establishment).
- Unless otherwise described, all work including mobile units shall be to the minimum Specification requirements as outlined in the National Building Regulations, Model Preambles for trades. SABS requirements and Health and Safety Act and Regulations R1010.
- The successful service provider/s will be expected to connect the mobile classrooms admin block ablution facilities to the existing electricity, Sewer and water supply.
- The mobile classrooms, admin block, ablution facilities and kitchen units should be made of sheets that shall be easy to dismantle, transport on a flatbed truck and reassemble at a new site.

ADMIN LAYOUT



ELECTRICAL REQUIREMENTS				
SYMBOL	TYPE OF FITTING	LOAD EACH WATTS	TOTAL NO REQUIRED	MOUNTING
	2 X 1.5m Fluorescent fitting channel type	130	4	Ceiling
	16A 3 pin flush socket outlet	500	5	Wall 0.4m above floor/ to CL of box
	Point for future intercom system		NIL	See specification
	Switch point	-	3	1.4 m above f.f.l

Note:  
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ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BEFORE WORK IS PUT IN HAND.  
ANY DISCREPANCIES ARE TO BE IMMEDIATELY REPORTED TO THE ARCHITECT.  
THE DRAWING MAY NOT BE SCALED.

Page 37 of 72

Rev	Date	Description	Name

Project Manager

Urban Planners

Architects

Quantity Surveyors

Structural Engineers

Electrical Engineers

Mechanical Engineers

Specialists

Contractor

CLIENT'S SIGNATURE: \_\_\_\_\_

ARCHITECT'S SIGNATURE: \_\_\_\_\_

GAUTENG DEPARTMENT  
OF  
EDUCATION  
INFRASTRUCTURE

28 LOVEDAY STREET, MARSHALLTOWN, JHB | TEL: 011 843 8750

CLIENT:

PROJECT TITLE:  
**MOBILE CLASSROOMS**

DRAWING:  
**STANDARD ADMIN LAYOUT**

DRAWING TYPE:  
**TENDER DRAWINGS**

DRAWN BY:  
**N.E.M**

DATE:  
**06/2020**

CHECKED BY:  
**N.E.M**

DATE:  
**06/2020**





DRAWING SCALE:  
**1:50**

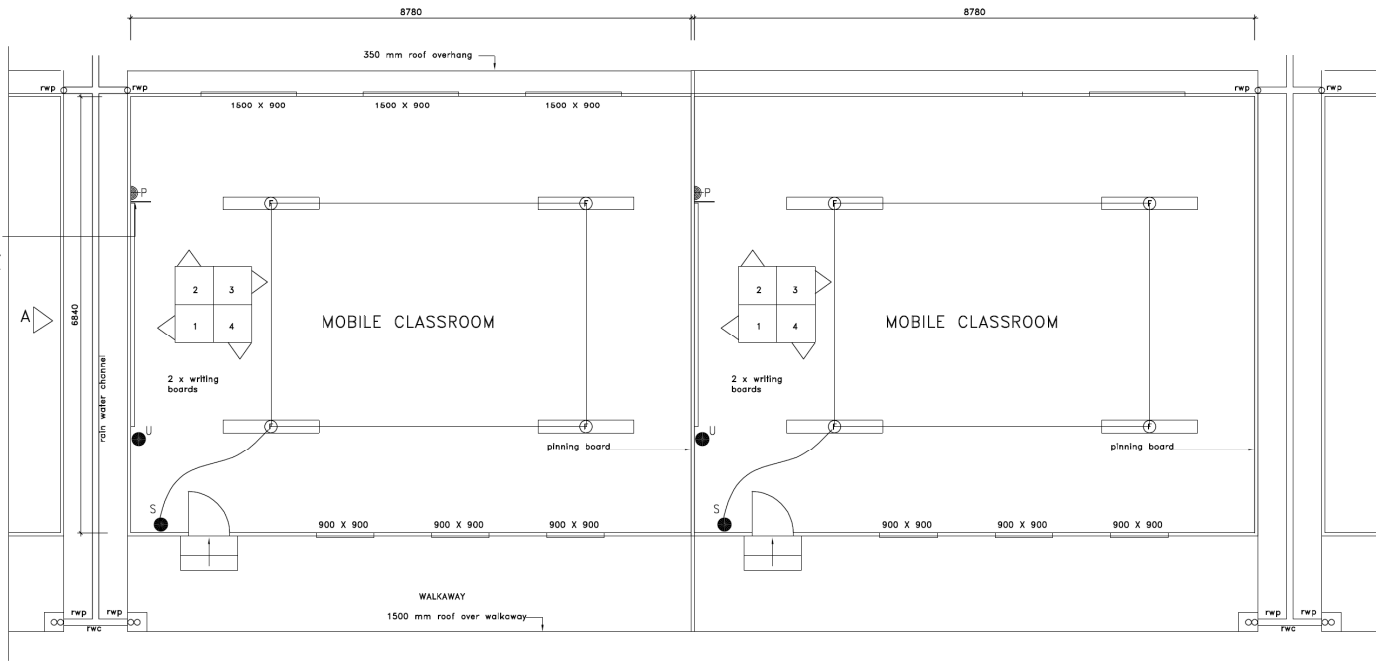
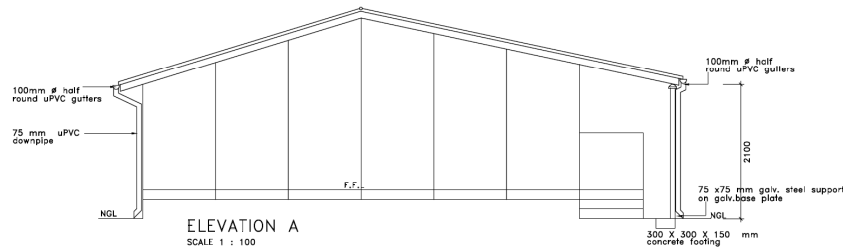
PROJECT NR:	DWG. NR:	REVISION:
<b>000000</b>	<b>000</b>	<b>0</b>



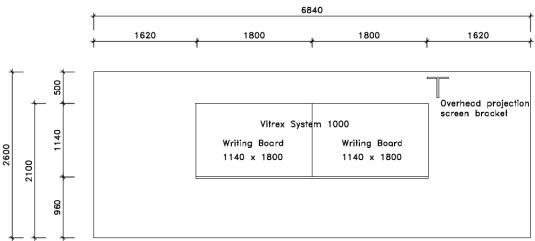




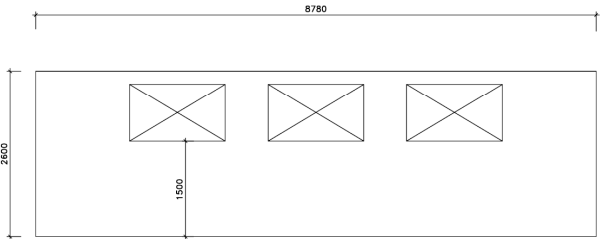
ELECTRICAL REQUIREMENTS				
SYMBOL	TYPE OF FITTING	LOAD EACH WATTS	TOTAL NO REQUIRED	MOUNTING
	2 X 1.5m Fluorescent fitting channel type	130	9	Ceiling
	16A 3 pin flush socket outlet	500	4	Wall 0.4m above floor/ to CL of box
	Point for future intercom system		1	See specification
	Switch point	–	1	1.4 m above f.f.l



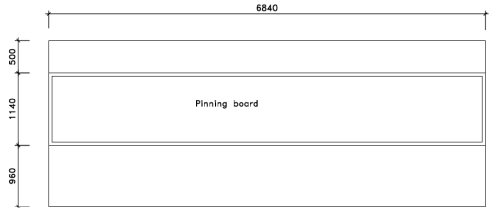
TYPICAL PLAN LAYOUT OF COMBINED UNIT (60 sqm EACH)  
SCALE 1 : 100



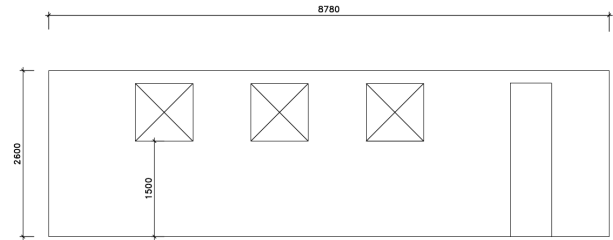
INTERNAL ELEVATION 1  
SCALE 1 : 100



INTERNAL ELEVATION 2  
SCALE 1 : 100



INTERNAL ELEVATION 3  
SCALE 1 : 100



INTERNAL ELEVATION 4  
SCALE 1 : 100

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THE DRAWING MAY NOT BE SCALED.

[illegible]

Project Manager	
Urban Planners	
Architects	
Quantity Surveyors	
Structural Engineers	
Electrical Engineers	
Mechanical Engineers	
Specialists	
Contractor	

CLIENT'S SIGNATURE: \_\_\_\_\_

ARCHITECT'S SIGNATURE: \_\_\_\_\_



**GAUTENG DEPARTMENT  
OF  
EDUCATION  
INFRASTRUCTURE**

26 LOVEDAY STREET, MARSHALLTOWN, JHB | TEL: 011 843 6750

CLIENT:

PROJECT TITLE:

## MOBILE CLASSROOMS

DRAWING:

## COMBINED CLASSROOM DRAWINGS

DRAWING TYPE:

## TENDER DRAWINGS

DRAWN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

DRAWING SCALE: **1:100**

**1:100**

PROJECT NR:	DWG. NR:	REVISION:
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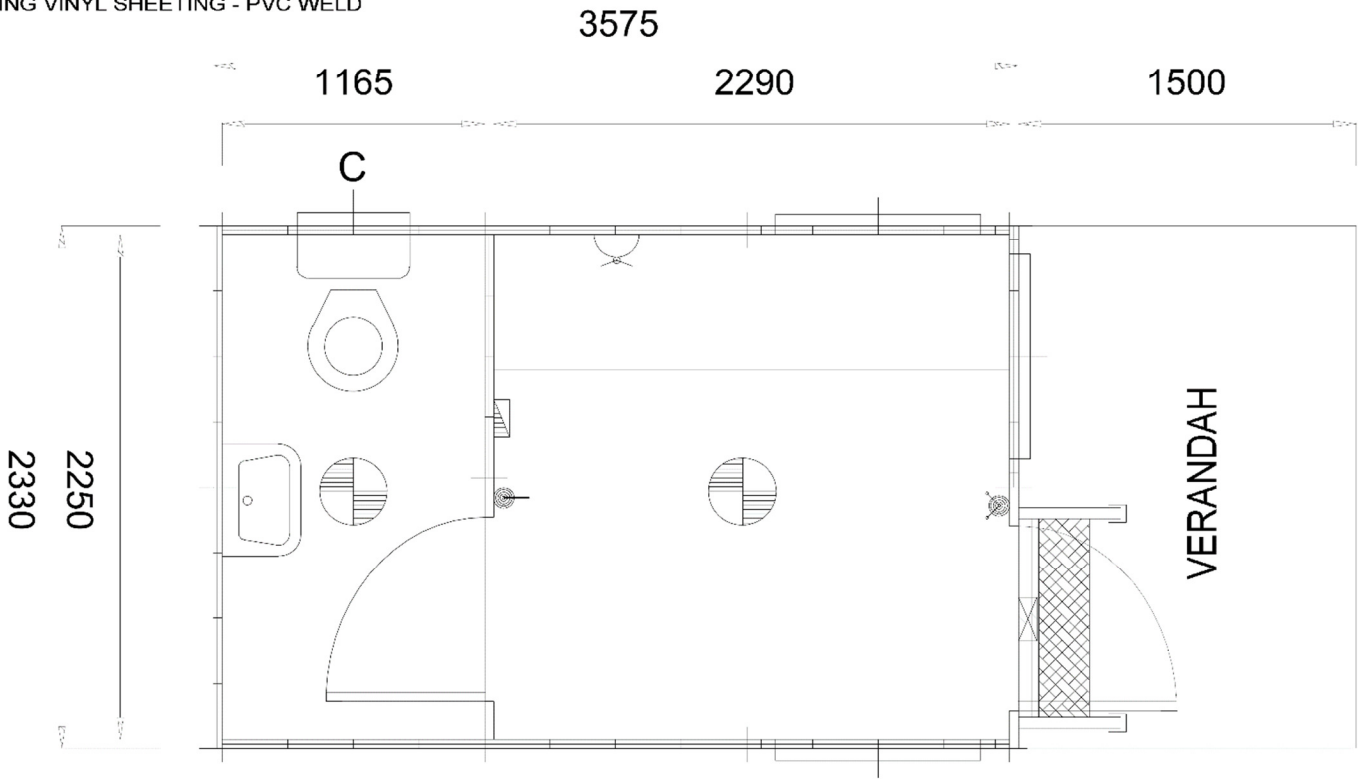
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GUARDHOUSE

XXXXXX		XXXX		XXXXXXXX		XXXX		XXXX		XXXX		XXXXXX	

- INT & EXT - CHROMADEK WHITE
- WINDOWS - TOP HUNG - EPOXY POWDER COATED WHITE C/W B/BARS
- DOOR - EXT - OUTWARD OPENING CHROMADEK C/W ALU POWDERCATED DOOR HANDLES
- DOOR - INT - INDICATOR BOLT
- FLOOR COVER - 2mm INDUSTRIAL HARD WEARING VINYL SHEETING - PVC WELD
- ELECTRICS - FLUSH MOUNTED
- WHB - COLD WATER ONLY

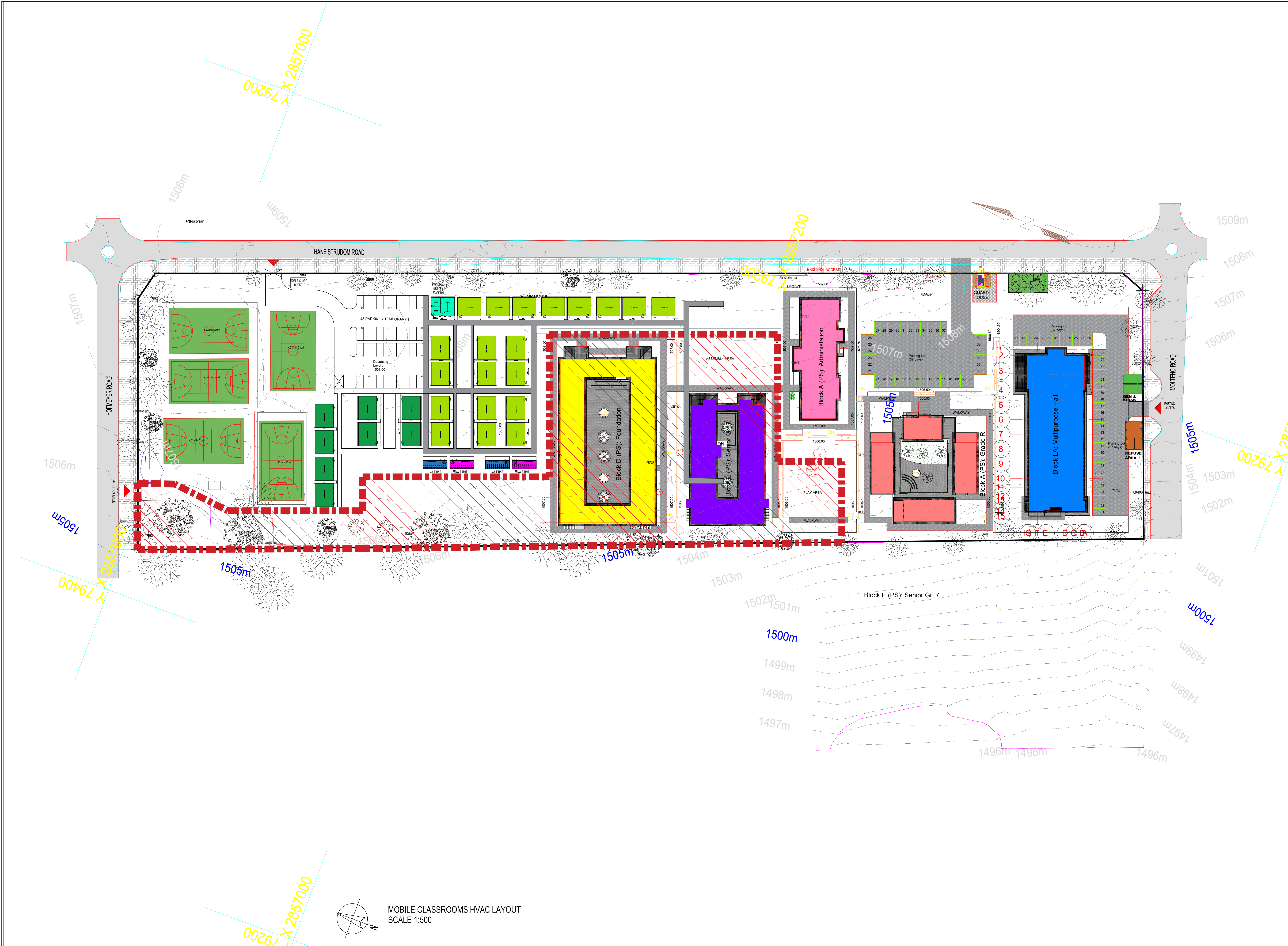


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**GENERAL NOTES:**

- This drawing is not to be used as a construction installation drawing and the Contractor shall prepare his own construction installation drawing to be submitted to the Engineer for approval before any installation work is carried out.
- In preparing his construction installation drawings, the Contractor must adhere to the co-ordination principles shown on the drawing and must respect all the architectural structural and other drawings pertaining to the works and acquiesce himself with the general arrangement of all other services and ensure that in doing his work it will not obstruct the fitting and future maintenance of other services.
- The Contractor is responsible for correct field dimensions, clearances, heights, quantities, fabrication processes, techniques of construction and co-ordination of the work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.
- This drawing is to be read in conjunction with the hot and cold plumbing drawings for co-ordination of services.
- All materials and workmanship to be carried out in accordance with the requirements of SANS 10400:2011 and SANS 10252:2:1993.

ISSUED FOR TENDER

C	0322	ISSUED FOR TENDER
B	0322	ISSUED FOR APPROVAL
A	0521	ISSUED FOR INFORMATION
REV No	DATE	DESCRIPTION
REVISIONS		
SEE 00 ORIGINAL DRAWING SET FOR		

DEPARTMENT OF  
INFRASTRUCTURE DEVELOPMENT

INSTITUTION  
LAERSKOOLO FLUER

ERF 2118

CONTRACT - SECTIONBUILDING OCCUPANCY CLASSIFICATION

DISCIPLINEPROJECT NUMBER  
MECHANICAL384

WORK DESCRIPTION, SUB-DIVISION  
ARCHITECTURAL

SITE DEVELOPMENT PLAN

FILE No	GD025205006	REV No	
DESIGN	7001/2020	CC	DRAWN
SCALE	1:500	CC	CHECKED
DATE	NAME & SURNAME	SIGNATURE	PR. NUMBER
DRAWING CO-ORDINATOR			
04/03/2022			
ARCHIE MORRIS			
PROFESSIONAL CONSULTANT FIRM			
MOONLITE ENGINEERING CONSULTING			
3 Floor, Malvern Building, 62 Oortjies Road, 1405			
APPOINTED CONTRACTOR			

CALC	REVIT ARCHITECTURE	A101	FILE NAME
SHEET SIZE	DRAWING NUMBER		REV
A0	SDP		RA









**GENERAL NOTES:**

- This drawing is not to be used as a construction/ installation drawing and the Contractor shall prepare his own construction/ installation drawings to be submitted to the Engineer for approval before any installation work is carried out.
- In preparing his construction/ installation drawings, the Contractor must adhere to the co-ordination principles shown on the drawing and must respect all the architectural/ structural and other drawings pertaining to the works and acquiesce/ liaise with the general management of all other services and ensure that in doing his work it will not obstruct the fitting and future maintenance of other services.
- The Contractor is responsible for correct field dimensions, clearances, heights, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.
- This drawing is to be used in conjunction with the hot and cold plumbing drawings for co-ordination of services.
- All materials and workmanship to be carried out in accordance with the requirements of SANS 10400:2011 and SANS 10252:2:1993.

**HVAC NOTES:**

- ALL FAN HEATER UNITS SHALL WALL MOUNTED.
- ALL FAN HEATER UNITS TO BE INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATION.
- SWEEP FANS TO BE OF ALUMINIUM TYPE.

**ELECTRICAL NOTES:**

ALL WIRING/PHASE SERVICES TO COMPLY WITH RELEVANT SPECIFICATION.

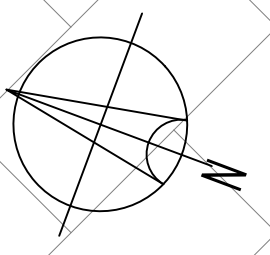
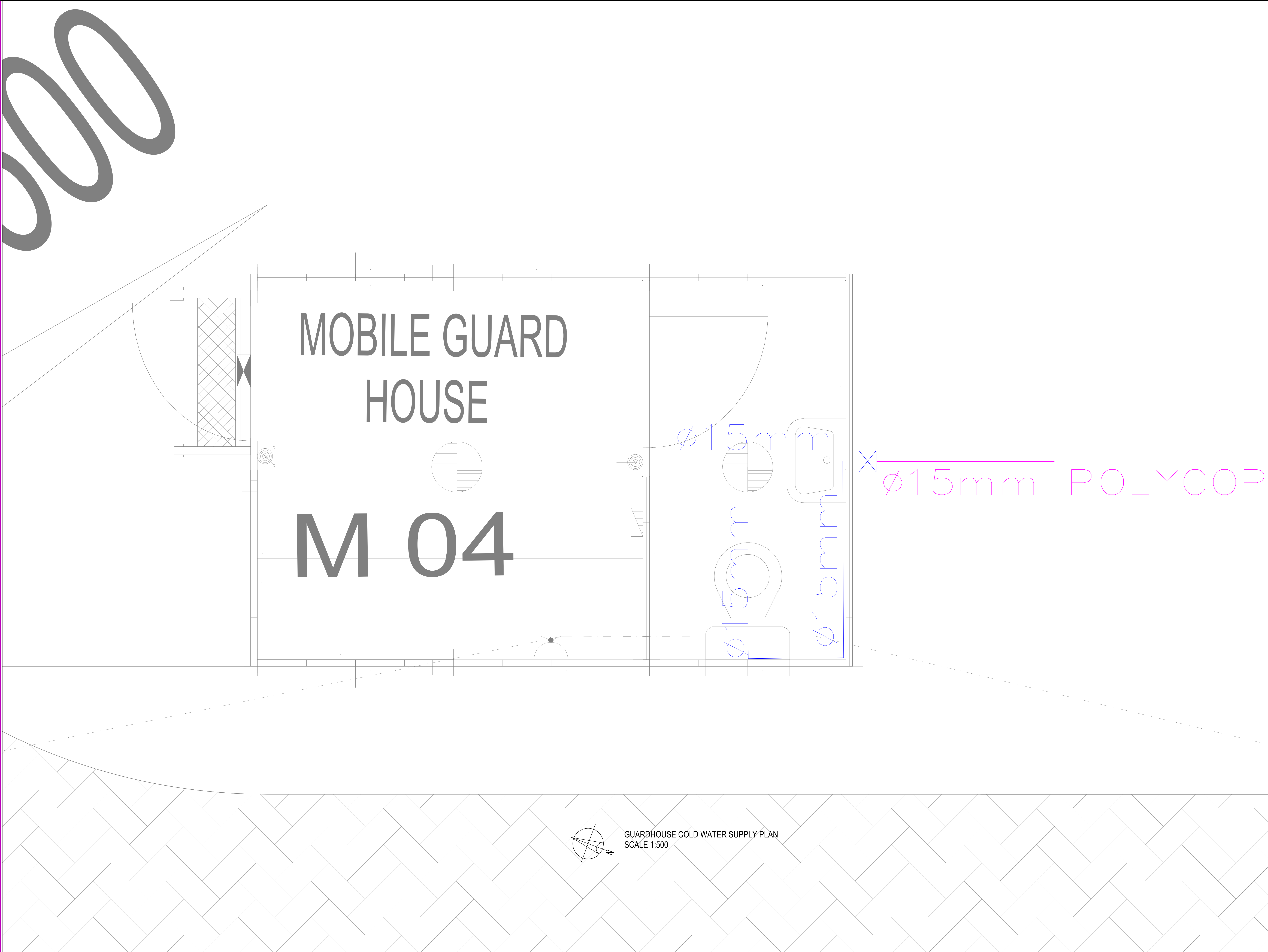
**LEGEND:**

SYMBOL:	DESCRIPTION:
	WIRLEY BIRD
	COPPER PIPING
	4 WAY CEILING CASSETTE
	AIRCON OUTDOOR UNIT
	HIGH WALL INDOOR UNIT

ISSUED FOR TENDER

C	03/22	ISSUED FOR TENDER
B	02/22	ISSUED FOR APPROVAL
A	09/21	ISSUED FOR INFORMATION
REV No.	DATE	DESCRIPTION
REVISIONS		
SIZE ON ORIGINAL DRAWING: 30 mm		
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT		
INSTITUTION: LAERSKOOI FLIJER		
SERVICE: ERF 2118		
CONTRACT/ SECTION	BUILDING OCCUPANCY CLASSIFICATION	PROJECT BRANCH
DESIGN LINE	MECHANICAL	384
WORK DESCRIPTION: JHB ZABROON		
HVAC LAYOUT		
DRAWING DESCRIPTION: MOBILE CLASS HVAC LAYOUT		
FILE No.	00ET5205006	ITEM No.
DESIGN	7/01/2022	CC
SCALE	1:500	CC
RESPONSIBLE PROFESSIONAL		CHECKED
DATE	NAME & SURNAME	SIGNATURE
16/03/2022	ERNEST SITHOLE	
DRAWING CO-ORDINATED		
16/03/2022	ARCHIE MOSEB	
PROFESSIONAL CONSULTANT FIRM		
MOONLITE ENGINEERING CONSULTING		
39 Pines, Mamelodi Bldg, 50 Chant Circle		
Johannesburg 1450		
Tel: +27 11 888 0862		
APPOINTED CONTRACTOR:		
DATE	REVIT ARCHITECTURE	FILE NAME
03/03/2022	4101	4101
DRAWING NUMBER	RA	RA





GUARDHOUSE COLD WATER SUPPLY PLAN  
SCALE 1:500

**GENERAL NOTES:**

1. This drawing is not to be used as a construction installation drawing and the Contractor shall prepare his own construction installation drawings to be submitted to the Engineer for approval before any installation work is carried out.

2. In preparing his construction installation drawings, the Contractor must adhere to the co-ordination principles shown on the drawing and must respect all the architectural structural and other drawings pertaining to the works and acquiesce himself with the general arrangement of all other services and ensure that in doing his work he will not obstruct the long and future maintenance of other services.

3. The Contractor is responsible for correct field dimensions, clearances, heights, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.

4. This drawing is to be read in conjunction with the hot and cold plumbing drawings for co-ordination of services.

5. All materials and workmanship to be carried out in accordance with the requirements of SANS 10400/2011 and SANS 10252-2-1993.

**WATER SUPPLY PIPE WORK NOTES:**

1. This drawing is to be read in conjunction with all specification and all other services drawing.

2. All cold and hot water pipes shall be copper class 0 to SABS 400 1990 for Pipes inside building.

3. Flexible woven metal water supply connector pipe to be fitted below all WCs and WHBs.

4. Pipe work running inside along walls shall be chased except where they are hidden below sink cabinets.

5. All pipe work diameters are indicated on the drawing.

6. All Pipe work outside the building shall be HDPE.

LEGEND

	Copper Cold water Supply
	Hot water Supply
	HDPE water pipe
	Isolation Valve
	Pipe Riser

ISSUED FOR TENDER

C	0022	ISSUED FOR TENDER
B	0022	ISSUED FOR APPROVAL
A	0021	ISSUED FOR INFORMATION
REV No.	DATE	DESCRIPTION
REVISIONS		
SIZE ON ORIGINAL DRAWING 100 mm		

**DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT**

INSTITUTION: LAERSKOOLOFLIER

SERVICE: ERF 2118

CONTRACT/SECTION: BUILDING OCCUPANCY CLASSIFICATION

PROJECT NAME: MECHANICAL 384

WORK DESCRIPTION: DUE TOBEN

WET SERVICES

DRAWING DESCRIPTION: GUARDHOUSE WET SERVICES

FILE No.	GDETS200006	ITEM No.	
DESIGN	700120020	AAAM	DRAWN
SCALE	1:500	AM	CHECKED
DATE	NAME & SURNAME	SIGNATURE	PR. NUMBER
16/03/2022	ERNEST SITHOLE		2019000349
16/03/2022	ARCHIE MOSES		

PROFESSIONAL CONSULTANT FIRM: MOONLITE ENGINEERING CONSULTING  
26 Pines, Maywood Building, 60 Chant Cliffe, Avenue Alberton, 1400 Tel: +27 11 885 0382

APPROVED CONTRACTOR:

DOC SYSTEM	REVIT ARCHITECTURE	FILE NAME	
REV	DRAWING NUMBER	REV	
A1	GUARD ROOM WATER	RA	









GENERAL NOTES:

1. This drawing is not to be used as a construction installation drawing and the Contractor must ensure that the construction installation drawings to be submitted to the Engineer for approval before any construction work is carried out.
2. In preparing the construction installation drawing, the Contractor must adhere to the construction installation drawing and the drawing must report all the architectural structural and other drawings pertaining to the work and ensure that it is in full compliance with the approved drawings and all other drawings and ensure that it is in full compliance with the approved drawings and all other drawings.
3. The Contractor is responsible for correct field dimensions, dimensions, heights, quantities, material quantities, techniques of construction and coordination of the work with that of all other trades and is to provide all services necessary for safe and satisfactory operation.
4. This drawing is to be read in conjunction with the bid and cost planning drawings for construction of services.
5. All groups of sanitary appliances, wash hand basins and sinks shall be provided at all changes in gradient and direction.
6. All sanitary appliances to be at a minimum 100 mm above the finished floor level and all horizontal waste pipes to be at a minimum 100 mm above the finished floor level.
7. All sanitary appliances shall be installed in accordance with manufacturer's instructions and specifications and must be installed in accordance with the requirements of SANS 10400-2:2011 and SANS 10253-2:1993.
8. Clearing of floor/flooring and access points to drain pipes shall be provided at all changes in gradient and direction.
9. All sanitary appliances shall be installed in accordance with the requirements of SANS 10400-2:2011 and SANS 10253-2:1993.
10. All sanitary appliances shall be installed in accordance with the requirements of SANS 10400-2:2011 and SANS 10253-2:1993.
11. All sanitary appliances shall be installed in accordance with the requirements of SANS 10400-2:2011 and SANS 10253-2:1993.
12. All sanitary appliances shall be installed in accordance with the requirements of SANS 10400-2:2011 and SANS 10253-2:1993.

Approved by the Engineer for the above work to be carried out in accordance with the approved drawings and all other drawings.

ISSUED FOR TENDER

C	0302	ISSUED FOR TENDER
B	0225	ISSUED FOR APPROVAL
A	0521	ISSUED FOR INFORMATION
REV No	DATE	DESCRIPTION
REVISIONS		
SIZE ON ORIGINAL DRAWING 100 mm		
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT		
INSTITUTION		
LAERSKLOOF FLUW		
SERVICE		
ERF 2110		
CONTRACT / SECTION		
BUILDING OCCUPANCY CLASSIFICATION		
DISCIPLINE		
MECHANICAL		
PROJECT NUMBER		
384		
WORK DESCRIPTION / SUB-DIVISION		
SITE DEVELOPMENT PLAN		
DRAWING DESCRIPTION		
SITE PLAN (DECANTING) DRAINAGE		
FILE No	00572525000	ES
SECTION	701010000	ES
SCALE	1:500	ES
DATE	16/03/2022	20190300049
NAME & SURNAME	ERNEST SITHOLE	20190300049
DRAWING COORDINATED		
ARCHIE MOSES		
PROFESSIONAL CONSULTANT FIRM		
MOODLITE ENGINEERING CONSULTING		
3rd Floor, Maitland Building, 62 Church Street, Cape Town, 8001		
APPOINTED CONTRACTOR		
CD	RENT ARCHITECTURE	FILE NAME
SHEET No	DRAWING NUMBER	REV
AO	ABLUTION DRAIN	RA





**GENERAL NOTES:**

- This drawing is not to be used as a construction/ installation drawing and the Contractor shall prepare his own construction/ installation drawings to be submitted to the Engineer for approval before any installation work is carried out.
- In preparing his construction/ installation drawings, the Contractor must adhere to the co-ordination principles shown on the drawing and must respect all the architectural structure and other drawings pertaining to the works and acquire himself with the general arrangement of all other services and ensure that his work will not obstruct the fixing and future maintenance of other services.
- The Contractor is responsible for correct field dimensions, clearances, heights, quantities, fabrication processes, techniques of construction and co-ordination of his work with that of all other trades and is to provide all devices necessary for safe and satisfactory operation.
- This drawing is to be read in conjunction with the hot and cold plumbing drawings for co-ordination of services.
- All materials and workmanship to be carried out in accordance with the requirements of SANS 10400:2011 and SANS 10252-2:1993.

**WATER SUPPLY PIPE WORK NOTES**

- This drawing is to be read in conjunction with all specification and all other services drawing.
- All cold and hot water pipes shall be copper class 0 to SABS 450 1980 for Pipes inside building.
- Flexible woven metal water supply connector pipe to be fitted below all WCs and WHBs.
- Pipe work curving inside along walls shall be chased except where they are hidden below sink cabinets.
- All pipe work diameters are indicated on the drawing.
- All Pipe work outside the building shall be HDPE.

**LEGEND**

	Copper Cold water Supply
	Hot water Supply
	HDPE water pipe
	Isolation Valve
	Pipe Riser

**ISSUED FOR TENDER**

C	03/22	ISSUED FOR TENDER
B	02/22	ISSUED FOR APPROVAL
A	05/21	ISSUED FOR INFORMATION

REV No. DATE DESCRIPTION

**REVISIONS**

SIZE ON ORIGINAL DRAWING 180 mm

**DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT**

INSTITUTION  
**LAERSKOOI FLUOR**

SERVICE  
**ERF 2118**

CONTRACT / SECTION BUILDING OCCUPANCY CLASSIFICATION

DRAWING NO. PROJECT REFERENCE  
**MECHANICAL 384**

WORK DESCRIPTION, SUB-DIVISION  
**WET SERVICES**

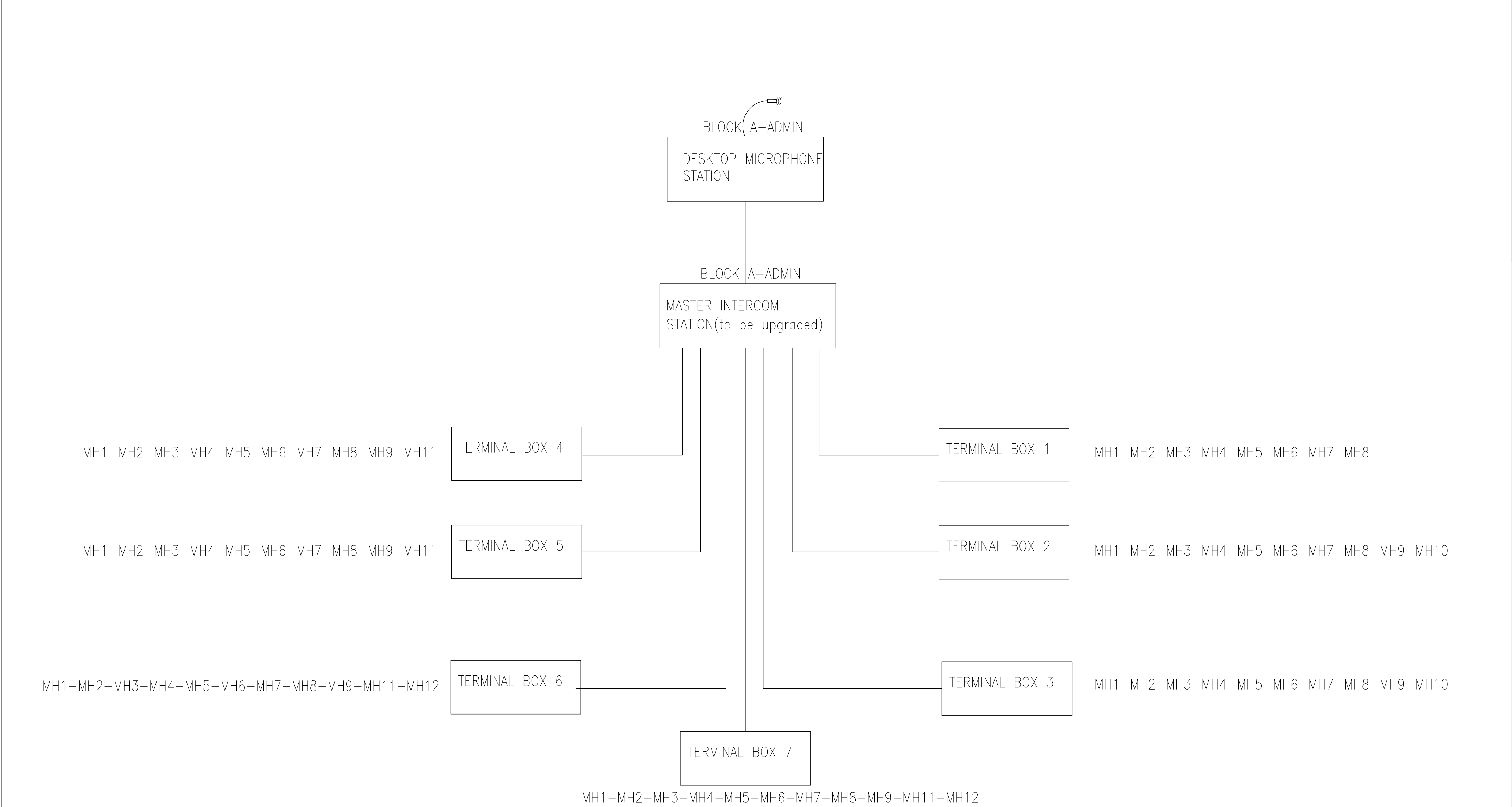
DRAWING DESCRIPTION  
**ABLUION BLOCK WET SERVICES**

FILE No.	GDETS025006	ITEM No.	
DESIGN	700120220	CC	DRAWN
SCALE	1:500	CC	CHECKED
DATE	16/03/2022	RESPONSIBLE PROFESSIONAL	SIGNATURE
		ERNEST SITHOLE	
16/03/2022	ARCHIE MOSES	DRAWING CO-ORDINATOR	

PROFESSIONAL CONSULTANT FIRM  
**MOONLITE ENGINEERING CONSULTING**  
54 Floor, Millennium Building, 50 Chari Drive  
Avenue Alberton 1450 Tel: +27 11 8861382

APPOINTED CONTRACTOR

DESIGN	REVIT ARCHITECTURE	FILE NAME	
DRAWING NUMBER	A01	FILE NAME	
REVISION		FILE NAME	
A0	ABLUION WATER	FILE NAME	



————	4/20 PAIR COMMS CABLE
------	-----------------------

- REFERENCE SPECIFICATIONS
- Standard quality specifications for general installations GP/E5/1-REV 0
  - Standard quality specifications for materials and equipment GP/E5/2-REV 0
  - Standard quality specifications for material and installation, schools GP/E1/1-REV 0

**GENERAL NOTES:**

1. **Contractor Notes:**  
- No construction may proceed on site prior to the approval of drawings by the local authority. Any building work that commences prior to the building plan approval is completely at the owner's own risk.  
- The Architect may not be held responsible for any loss or damage whatsoever that may result from building works without approved building plans.  
- Contractors to verify all levels, heights and dimensions on site and to check same against the drawings before putting any work in hand. Levels are approximate and must be verified by the Contractor prior pricing and construction. Relative floor levels will be determined after installation of ground slabs.  
- Any discrepancies or omissions must be pointed out by the Contractor to the Architect prior to construction.  
- Contractors are responsible for correct setting out of the buildings. All external walls with particular reference to boundaries, building lines, etc. Any errors, discrepancies or omissions to be reported to the Architect immediately.  
- Contractor responsible to engage Building Inspector on each Construction Stage, to get full satisfaction in compliance with Local Authority by-law and regulations. - Submit site photos only prior to be used unless specific approval is obtained from the Architect alternative type of photos.  
- Conditions: The individual engineer is responsible for all work.

2. **Certificates required:**  
- The following certificates of compliance to SABS and NER standards may be required from the Contractor by the Architect:  
FOUNDATION CERTIFICATE: Engineer  
DPC: Council Inspector  
PLUMBING AND DRAINAGE: Specialist Sub-contractor  
ELECTRICAL INSTALLATION: Specialist Sub-contractor  
TYPING AND COMMUNICATIONS: Engineer  
FIRE SAFETY CERTIFICATE: Specialist and/or Council  
ROOF STRUCTURE: Specialist Sub-contractor and/or Engineer  
CONCRETE SLABS: Specialist Sub-contractor  
WATERPROOFING: Specialist Sub-contractor  
GLAZING: Specialist Sub-contractor

3. **Materials and Products Notes:**  
- All finishing products such as window frames, roof tiles, cornices, etc. must be approved by the Architect before ordering and installation.  
- All products used must comply with SABS standards and Local Authority Requirements.  
- Quality of all materials and workmanship to comply with the relevant SABS and SANS specifications and shall conform to the Standards specified in the Standard Prescriptions in the Bill of Materials available for perusal at the Architect's office.  
- Contractor is to build in approved DPC's window or not these are shown on drawings to all external walls at each floor, beam or parapet level and to all window, door, gill or other opening in external walls. All junction work to comply with SABS RE or NER.

4. **Building Standard Notes:**  
- All works must comply to the National Building Regulations and applicable SABS and NER standards.  
- Drawings may not be scaled for construction purposes. Typical dimensions to be used at all times.  
- All drawings must be read in conjunction with one another.  
- Notes reflected on drawings apply for the entire project and works.  
- Any discrepancies or omissions must be pointed out by the Contractor to the Architect prior to construction and submission of drawings. If it must wait the Architect.  
- Contractors are to ensure that all details shown on this drawing are compliant with local authority by-law and regulations.  
- Contractors are to locate and identify existing services on site and to protect these from damage throughout the duration of the works.

5. **Glazing Notes:**  
- All glazing to comply with NER/SANS 6002: Part N1 SABS 0107 & ANSAS.

Dimensions	Glazing
2mm	Max. Size Frame
4mm	0.75
6mm	1.50
8mm	2.10
10mm	3.20

- Any pane of glass installed in any door shall be safety glass and shall have a nominal thickness of not less than 6mm and doors and walls to be adjacent to any person approaching them shall bear markings. Any glass over 600mm from floor finish shall be safety glass. Any window at balconies must be safety glass.


6. **Flashing Notes:**  
- Provide & form flashing at all parapets and areas where the roof line changes.

7. **Brickwork Expansion Joints Note:**  
- Refer to Engineer for brickwork expansion joints.

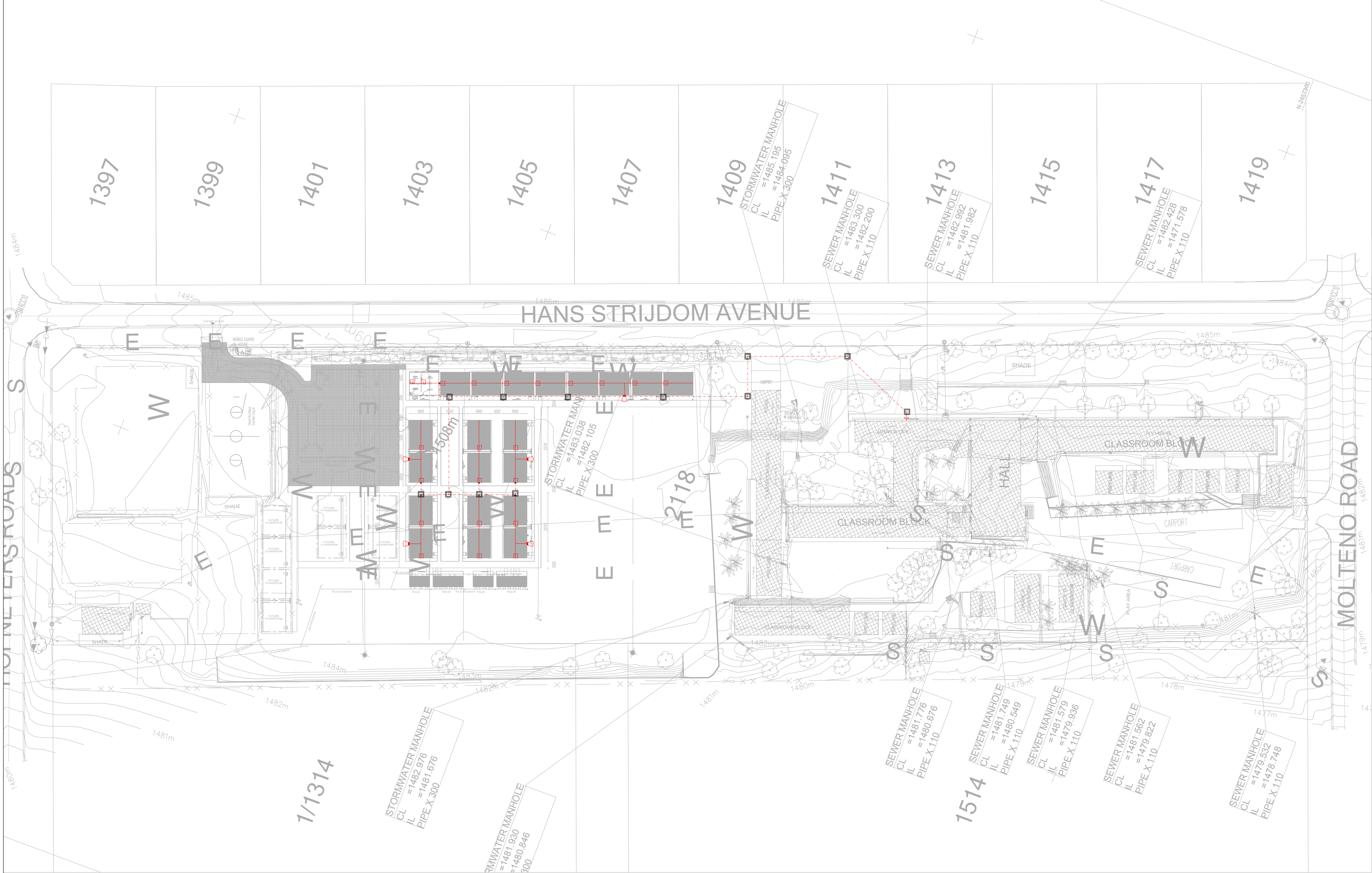
8. **Revisions:**  
- Refer to drawing list for latest revisions on drawings.

Any queries arising from all the above must be reported to the Architect for clarification before any work in progress is started.

ISSUED FOR:		TENDER
REV No	DATE	DESCRIPTION
REVISIONS		
SIZE ON ORIGINAL DRAWING: 100 mm		

			
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT			
INSTITUTION GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION			
STAND. ERF PLOT DESCRIPTION		SSC	
ERF 2118			
SERVICE			
FLEUR PRIMARY SCHOOL			
BLOCK NAME	SITE BUILDING DESCRIPTION	BLOC	
SITE			
DISCIPLINE		STAGE	
ELECTRICAL		4	
DRAWING DESCRIPTION			
INTERCOM			
INTERCOM SCHEMATIC LAYOUT			
FILE No.	SCHOOL	CLUSTER	
EMB No.	1: 500	SCALE	
DRAWN	LM	LM	DESIGN
RESPONSIBLE PROFESSIONAL: DESIGN			
DATE	NAME & SURNAME	SIGNATURE	PR. NUMBER
03/03/22	EDWIN H. LUBIMANA		200001201
RESPONSIBLE PROFESSIONAL: COORDINATION			
PROFESSIONAL SERVICE PROVIDER (PSP)			
Name: MOONLITE ENGINEERING CONSULTING			
Address: 3rd Floor, Makgobane Building, 52, Church Square, Avenue, Alberton, 1450			
Tel: +27 11 860 0362			
MAIN CONTRACTOR:			
Name:			
Address:			
Tel:			
COPIES	AUTOCAD	ST 6-0001-A	FILE NAME
DRAWING NO.			REV
A1		ST 6-0001	A





## LEGEND

	HORN SPEAKER
	INTERCOM SPEAKER
	GALVANIZED CONDUIT
	uPVC SLEEVE FOR ELECTRONIC SERVICES
	NEW MANHOLE FOR ELECTRONIC SERVICES
	TERMINAL CONTROL BOX (400x300x200mm) HOUSING INTERCOM SERVICES

## REFERENCE SPECIFICATIONS

- Standard quality specifications for general installations GP/E6/1-REV 0
- Standard quality specifications for materials and equipment GP/E6/2-REV 0

## LEGEND

	HORN SPEAKER
	INTERCOM SPEAKER
	GALVANIZED CONDUIT
	uPVC SLEEVE FOR ELECTRONIC SERVICES
	NEW MANHOLE FOR ELECTRONIC SERVICES
	TERMINAL CONTROL BOX (400x300x200mm) HOUSING INTERCOM SERVICES

## REFERENCE SPECIFICATIONS

- Standard quality specifications for general installations GP/E6/1-REV 0
- Standard quality specifications for materials and equipment GP/E6/2-REV 0

## GENERAL NOTES:

1. **Contractor Notes:**  
- No construction may proceed on site prior to the approval of drawings by the local authority. Any building work that commences prior to the building plan approval is completely at the owner's own risk.  
- The Architect may not be held responsible for any loss or damage whatsoever that may result from building works without approved building plans.  
- Contractors to verify all levels, heights and dimensions on site and to check same against the drawings before putting any work in hand. Levels are approximate and must be verified by the Contractor prior to construction. Relative floor levels will be determined after installation of drainage system.  
- Any discrepancies or drawings must be pointed out by the Contractor to the Architect prior to construction.  
- Contractor is responsible for correct setting out of the buildings. All external walls with vertical reference to boundaries, building lines, etc. Any errors, discrepancies or omissions to be reported to the Architect immediately.  
- Contractor responsible to engage Building Inspector on each Construction Stage, to get full satisfaction in compliance with Local Authority laws and regulations. - Start-up costs only shall be used unless otherwise specified approval is obtained from the Architect alternative type of finish.  
- Conditions: The individual engineer is responsible for his work.

2. **Certificate required:**  
- The following certificate of compliance to SABS and NER standards may be required from the Contractor by the Architect:  
- FOUNDATION CERTIFICATE: Engineer  
- DPC: Control Inspector  
- PLUMBING AND DRAINAGE: Specialist Sub-contractor  
- ELECTRICAL INSTALLATION: Specialist Sub-contractor  
- TYPING AND DRAINAGE: Engineer  
- FIRE SAFETY CERTIFICATE: Specialist and/or Council  
- ROOF STRUCTURE: Specialist Sub-contractor and/or Engineer  
- CONCRETE: SABS: Specialist Sub-contractor  
- METALWORKING: Specialist Sub-contractor  
- GLAZING: Specialist Sub-contractor

3. **Materials and Finishes Notes:**  
- All finishing products such as window frames, roof tiles, cornices, etc. must be approved by the Architect before ordering and installation.  
- All products used must comply with SABS standards and Local Authority Requirements.  
- Quality of all materials and workmanship to comply with the relevant SABS and SANS specifications and shall conform to the Standards specified in the Standard Prescriptions in the Bill of Materials available for perusal at the Architect's office.  
- Contractor is to build in approved DPC's window or roof these are shown on drawings to all external walls at each floor. When a parapet level and a window, door, grill or other opening is external wall, all parties work to comply with SABS 902 or NER.

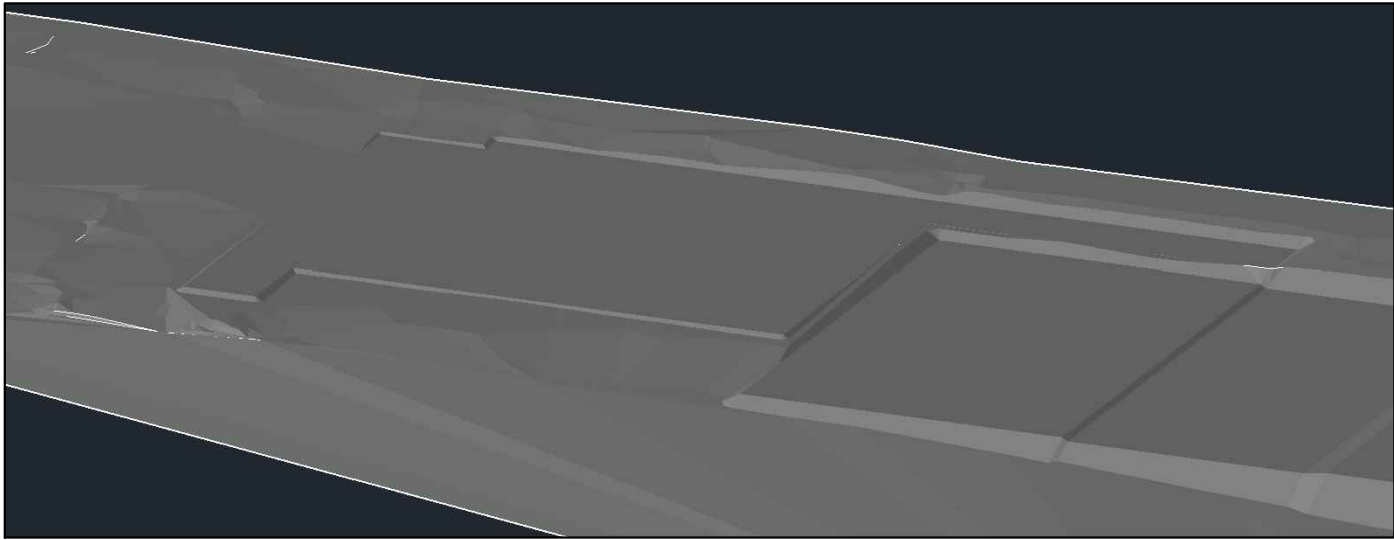
4. **Building Standard Notes:**  
- All works must comply with the National Building Regulations and applicable SABS and NER standards.  
- Drawings may not be used for construction purposes. Signed dimensions to be used at all times.  
- All drawings must be read in conjunction with one another.  
- Notes indicated on drawings apply for the entire project and works.  
- Any discrepancies or drawings must be pointed out by the Contractor to the Architect prior to construction and submission of variations. If it must wait the Architect.  
- Contractors are to ensure that all details shown on this drawing are compliant with local authority law and regulations.  
- Contractors are to locate and identify existing services on site and to protect these from damage throughout the duration of the works.

5. **Glazing Notes:**  
- All glazing to comply with NER/SANS 902: Part N1 SABS 9107 & ANSAS.  
- Dimensions: Max. Size: 1500mm x 1500mm  
- Normal glass thickness: 6mm, 8mm, 10mm, 12mm, 15mm, 19mm, 22mm, 25mm, 30mm, 36mm, 44mm, 51mm, 64mm, 76mm, 89mm, 102mm, 119mm, 141mm, 165mm, 191mm, 229mm, 279mm, 330mm, 381mm, 441mm, 508mm, 579mm, 651mm, 729mm, 812mm, 900mm, 1000mm, 1100mm, 1200mm, 1300mm, 1400mm, 1500mm, 1600mm, 1700mm, 1800mm, 1900mm, 2000mm, 2100mm, 2200mm, 2300mm, 2400mm, 2500mm, 2600mm, 2700mm, 2800mm, 2900mm, 3000mm, 3100mm, 3200mm, 3300mm, 3400mm, 3500mm, 3600mm, 3700mm, 3800mm, 3900mm, 4000mm, 4100mm, 4200mm, 4300mm, 4400mm, 4500mm, 4600mm, 4700mm, 4800mm, 4900mm, 5000mm, 5100mm, 5200mm, 5300mm, 5400mm, 5500mm, 5600mm, 5700mm, 5800mm, 5900mm, 6000mm, 6100mm, 6200mm, 6300mm, 6400mm, 6500mm, 6600mm, 6700mm, 6800mm, 6900mm, 7000mm, 7100mm, 7200mm, 7300mm, 7400mm, 7500mm, 7600mm, 7700mm, 7800mm, 7900mm, 8000mm, 8100mm, 8200mm, 8300mm, 8400mm, 8500mm, 8600mm, 8700mm, 8800mm, 8900mm, 9000mm, 9100mm, 9200mm, 9300mm, 9400mm, 9500mm, 9600mm, 9700mm, 9800mm, 9900mm, 10000mm, 10100mm, 10200mm, 10300mm, 10400mm, 10500mm, 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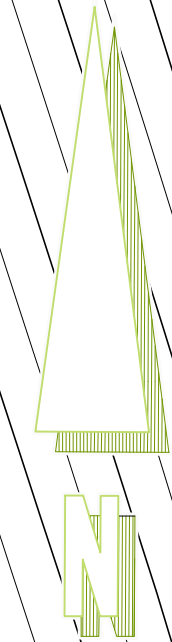


LIST OF COORDINATES			
POINT	Y COORDINATE	X COORDINATE	ELEVATION (m.s.l)
P1	79 272.196	2 857 034.699	1 508.031
P2	79 344.137	2 857 061.469	1 508.031
P3	79 340.356	2 857 071.631	1 508.031
P4	79 326.953	2 857 066.644	1 508.031
P5	79 301.157	2 857 135.953	1 508.031
P6	79 248.557	2 857 116.375	1 508.031
P7	79 230.411	2 857 165.000	1 508.031
P8	79 220.819	2 857 161.421	1 508.031
P9	79 262.965	2 857 048.160	1 508.031
P10	79 266.673	2 857 049.540	1 508.031



TYPICAL PLAN VIEW  
N.T.S

NOTE:  
THE IMORTED (570 m3) COMPETENT (G6) OR ENGINEERED FILL MATERIAL TO BE COMPACTED IN 150mm LAYERS (3 LAYERS = 450mm), TO 97% Mod AASHTO DENSITY.

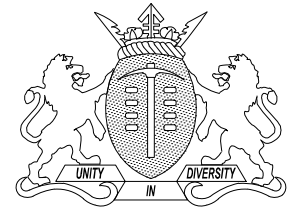


Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
Decanting Plat. Volumes	1.000	1.000	6658.643sq.m	569.483 Cu. M.	569.488 Cu. M.	0.005 Cu. M.<Fill>
Totals			6658.643sq.m	569.483 Cu. M.	569.488 Cu. M.	0.005 Cu. M.<Fill>

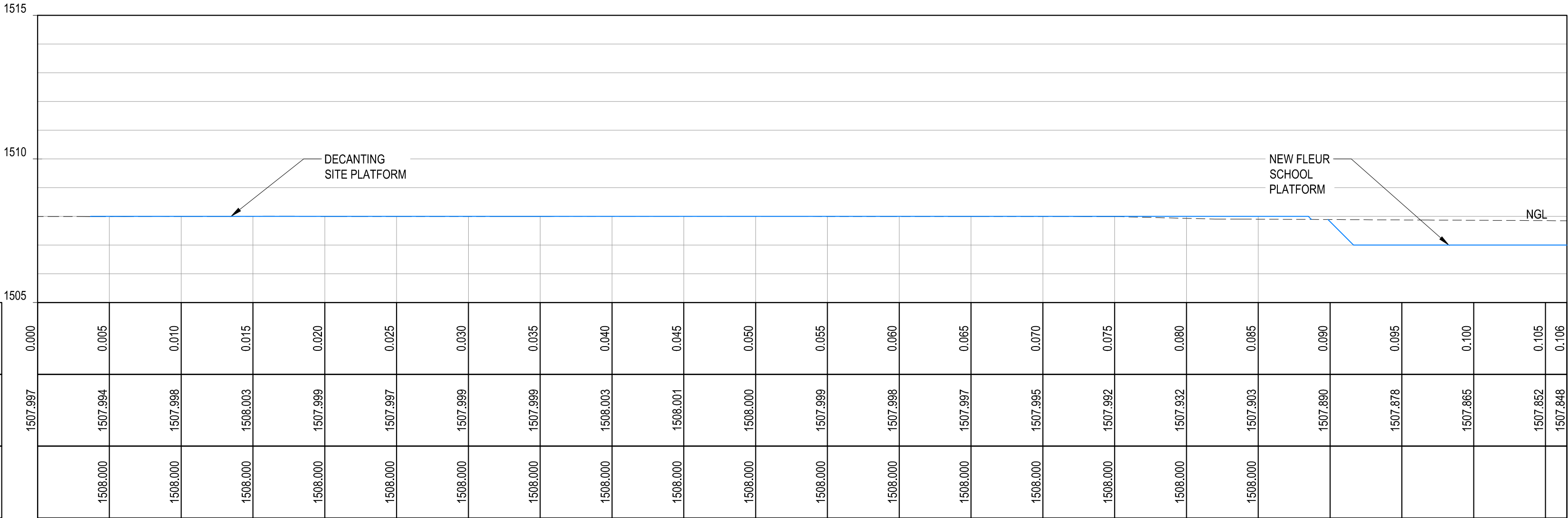
FLEUR PRIMARY - DECANTING SITE PLATFORM  
SCALE 1:300

GENERAL NOTES:

A 17.02.22 Issued for Approval only		
REV No	DATE	DESCRIPTION
REVISIONS		
SIZE ON ORIGINAL DRAWING 100 mm		
		
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT		
INSTITUTION		
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION		
STANDY ERF/ PLOT DESCRIPTION		
SSG		
ERF 2118		
SERVICE		
FLEUR PRIMARY SCHOOL		
BLOCK NAME	SITE/ BUILDINGS DESCRIPTION	BOC
DISCIPLINE		
STAGE		
CIVILS 3		
DESIGNLINE - SUB- DIVISION		
DECANTING - ORDINARY CLASSROOM		
DRAWING DESCRIPTION		
DECANTING PLATFORM LAYOUT		
FILE No.	SCHOOL	CLUSTER
EMIS No.	As Shown	SCALE
DRAWN	W.M	W.M
DATE	NAME & SURNAME	SIGNATURE
2022.02.17	WILLIAM MOHELO	
RESPONSIBLE PROFESSIONAL - DESIGN		
RESPONSIBLE PROFESSIONAL - CO-ORDINATION		
2022.02.17	FEDZAL NYAMSWINDEZA	20180084
PROFESSIONAL SERVICE PROVIDER (PSP)		
Name: Iradele Architecture & Design CC		
Address: Unit 117B Cotton Drive, 118 Model Street, Ntshaba, Mamelodi, Pretoria, 001		
Tel: +27 82 345 0158		
MAIN CONTRACTOR		
Name:		Tel:
Address:		
CAD SYSTEM: AutoCAD 2020	A001	FILE NAME
SHEET SIZE:	DRAWING NUMBER	REV
A1	GDETS20S006-01-CIV-PLT-LAY-101	A

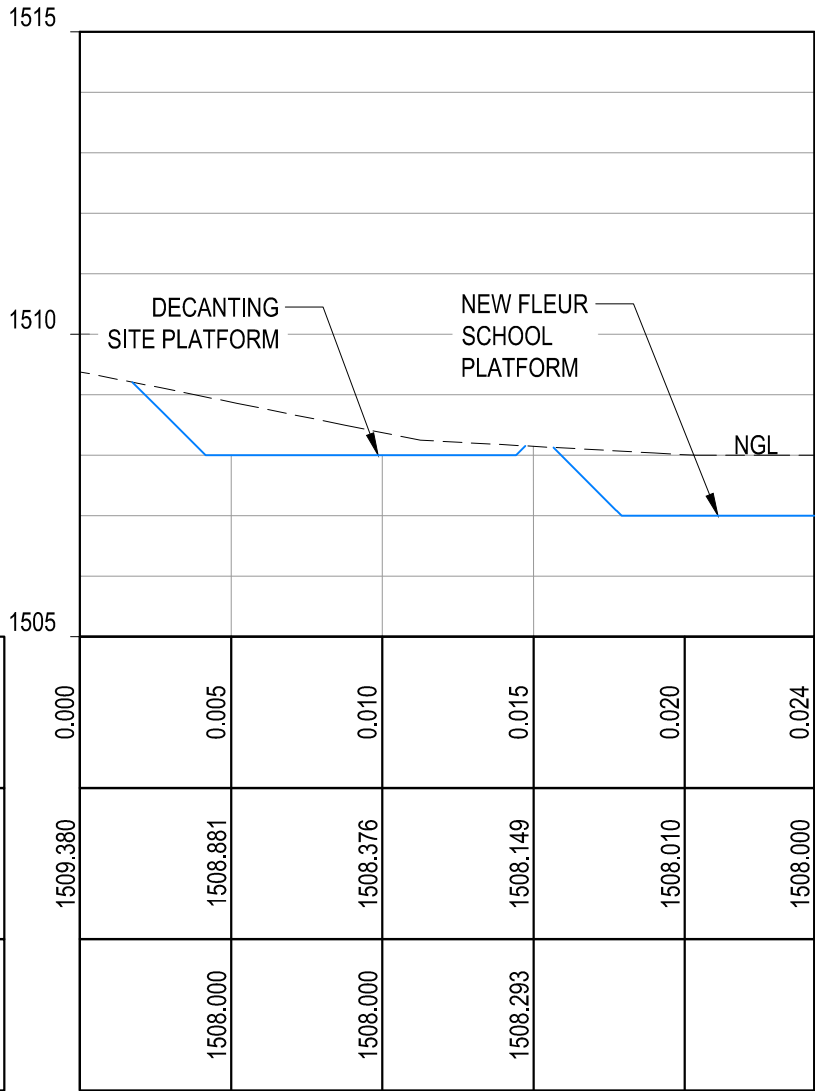
ACCEPTED BY DID	

CHAINAGE DISTANCE (km)
NGL LEVELS (m)
PLATFORM LEVELS (m)



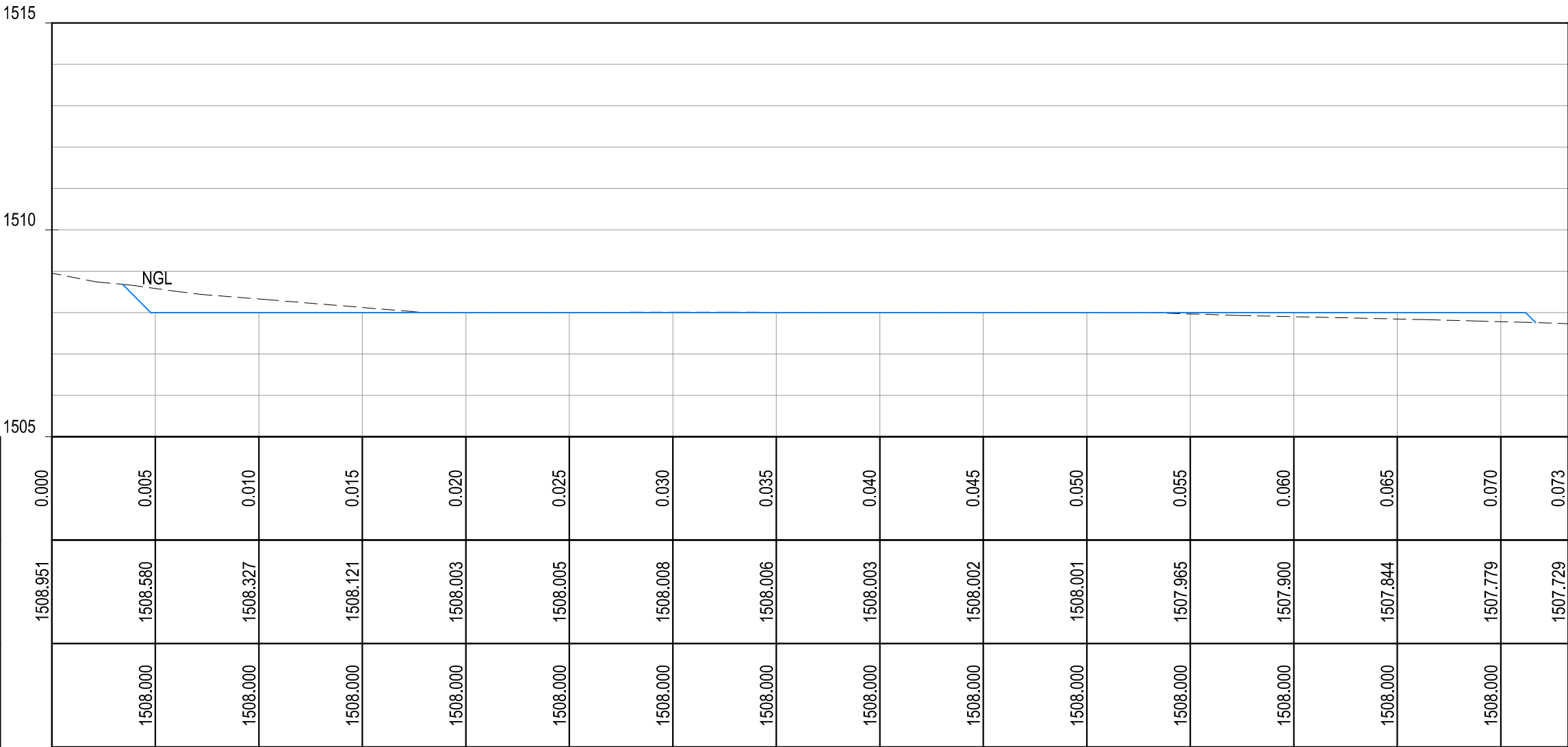
LONG SECTION: A - A  
(CH: 0.000 - CH:0.106)  
HORIZONTAL SCALE 1:250  
VERTICAL SCALE 1:125

CHAINAGE DISTANCE (km)
NGL LEVELS (m)
PLATFORM LEVELS (m)



LONG-SECTION: C - C  
(CH: 0.000 - CH:0.024)  
HORIZONTAL SCALE 1:250  
VERTICAL SCALE 1:125

CHAINAGE DISTANCE (km)
NGL LEVELS (m)
PLATFORM LEVELS (m)



LONG SECTION: B - B  
(CH: 0.000 - CH:0.073)  
HORIZONTAL SCALE 1:250  
VERTICAL SCALE 1:125

ACCEPTED BY DID

GENERAL NOTES:

A		17.02.22		Issued for Approval only	
REV No	DATE	DESCRIPTION			
SIZE ON ORIGINAL DRAWING 100 mm					
REVISIONS					
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT					
INSTITUTION					
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION					
STANDY ERF/ PLOT DESCRIPTION					
ERF 2118					
SERVICE					
FLEUR PRIMARY SCHOOL					
BLOCK NAME					
SITE/ BUILDINGS DESCRIPTION					
BOC					
DISCIPLINE					
CIVILS					
STAGE					
3					
DESCRIPTION - SUB-DIVISION					
DECANTING - ORDINARY CLASSROOM					
DRAWING DESCRIPTION					
PLATFORM LAYOUT LONG SECTIONS					
FILE No.		SCHOOL		CLUSTER	
EMIS No.		As Shown		SCALE	
DRAWN		W.M		DESIGN	
DATE		NAME & SURNAME		SIGNATURE	
2022.02.17		WILLIAM MOHELO			
2022.02.17		RESPONSIBLE PROFESSIONAL - CO-ORDINATION		PR. NUMBER	
2022.02.17		RESPONSIBLE PROFESSIONAL - DESIGN		20180084	
PROFESSIONAL SERVICE PROVIDER (PSP)					
Name: Iradele Architecture & Design CC					
Address: Unit 1178, Corner Durban, 118 Model Street, Newclare, Johannesburg, 20180084					
Tel: +27 82 345 0158					
Name: CONTRACTOR					
Address: Tel:					
CAD		AutoCAD 2020		A001	
SHEET SIZE		A1		FILE NAME	
A1		GDETS20S006-01-CIV-PLT-LAY-102		REV	





DECANTING SITE - SEWER LAYOUT  
SCALE 1:300

SEWER SETTING OUT					
STRUCTURE NAME	Y	X	RIM ELEVATION	SUMP ELEVATION SUMP DEPTH	INVERT ELEVATION
MH01	-2857131.598450	-79303.006462	1507.570	1506.492 1.078	Pipe - 01-INV OUT 1506.492
MH02	-2857093.116339	-79317.326007	1507.757	1506.074 1.683	Pipe - 01-INV IN 1506.287 Pipe - 11-INV IN 1506.174 Pipe - 02-INV OUT 1506.074
MH03	-2857073.129986	-79324.763111	1507.665	1505.980 1.685	Pipe - 02-INV IN 1505.974 Pipe - 03-INV OUT 1505.980
MH04	-2857073.770891	-79343.084896	1507.500	1505.789 1.712	Pipe - 03-INV IN 1505.889 Pipe - 04-INV OUT 1505.789
MH05	-2857050.807520	-79355.221848	1507.012	1505.065 1.947	Pipe - 06-INV IN 1505.185 Pipe - 04-INV IN 1505.659 Pipe - 05-INV OUT 1505.065
MH06	-2856998.916806	-79382.847920	1505.174	1503.768 1.405	Pipe - 05-INV IN 1503.768
MH07	-2857060.957279	-79346.000665	1507.392	1505.234 2.158	Pipe - 07-INV IN 1505.334 Pipe - 06-INV OUT 1505.234
MH08	-2857046.686902	-79307.650686	1507.997	1505.539 2.458	Pipe - 08-INV IN 1505.639 Pipe - 07-INV OUT 1505.539
MH09	-2857049.501119	-79303.147513	1507.996	1505.665 2.331	Pipe - 09-INV IN 1505.765 Pipe - 08-INV OUT 1505.665
MH10	-2857042.290974	-79283.771086	1508.001	1505.869 2.132	Pipe - 10-INV IN 1505.969 Pipe - 09-INV OUT 1505.869
MH11	-2857034.493112	-79262.815241	1508.608	1506.530 2.078	Pipe - 10-INV OUT 1506.530
MH12	-2857092.948154	-79312.539126	1507.833	1506.198 1.634	Pipe - 12-INV IN 1506.298 Pipe - 11-INV OUT 1506.198
MH13	-2857113.431954	-79304.916917	1507.771	1506.408 1.363	Pipe - 13-INV IN 1506.508 Pipe - 12-INV OUT 1506.408
MH14	-2857128.040566	-79299.480919	1507.664	1506.586 1.078	Pipe - 13-INV OUT 1506.586

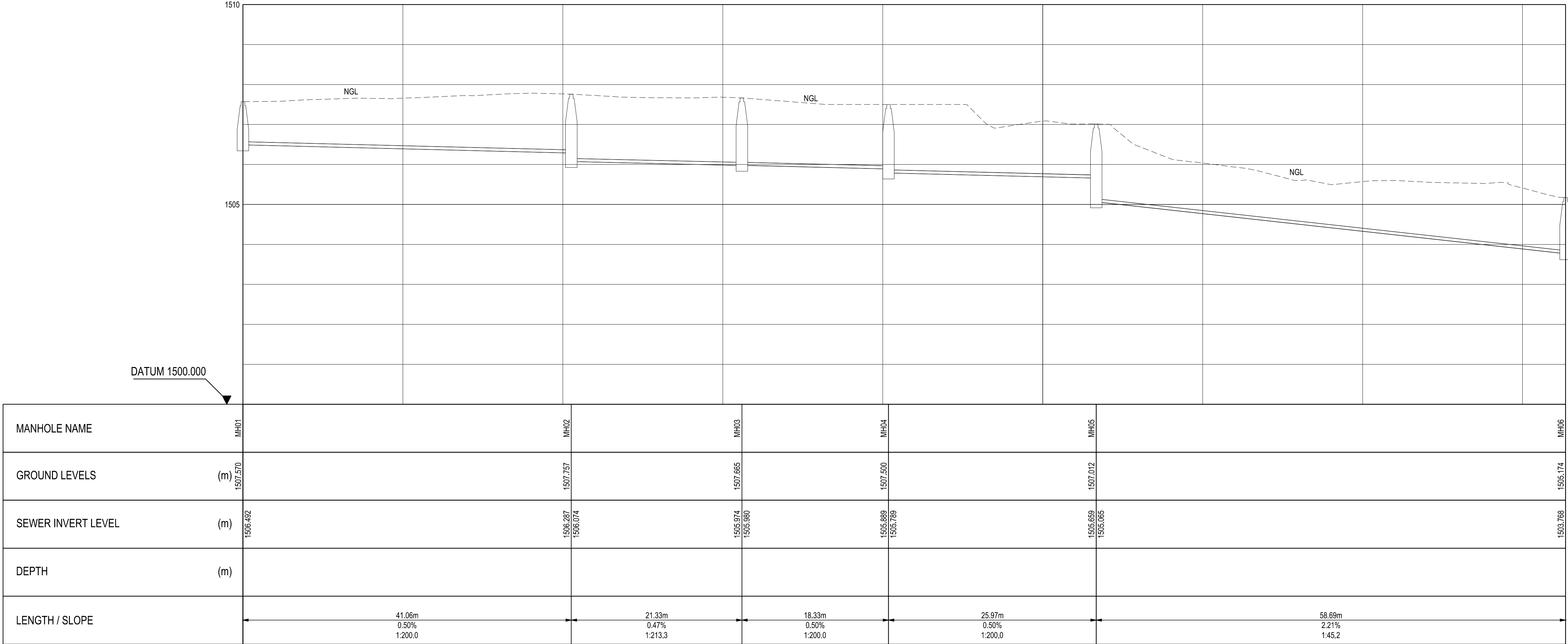
- NOTES:
- ALL FLUSH WATER PIPING TO BE HDPE
  - 15mm  $\phi$  AIR RELEASE VALVES TO BE INSTALLED ON ALL HIGH POINTS ON PIPING.
  - PIPING TO BE BRACKETED WITH STEEL BRACKETS WITH RUBBER INSERTS
  - INSTALLATION TO BE STRICTLY IN ACCORDANCE WITH SANS 10400, 10252 - PART 1 & 1200

- NOTES:
- ALL DOMESTIC WATER PIPING TO BE HDPE OR SIMILAR APPROVED.
  - 15mm  $\phi$  AIR RELEASE VALVES TO BE INSTALLED ON ALL HIGH POINTS ON PIPING.
  - PIPING TO BE BRACKETED WITH STEEL BRACKETS WITH RUBBER INSERTS
  - INSTALLATION TO BE STRICTLY IN ACCORDANCE WITH SANS 10400, 10252 - PART 1 & 1200
  - IF A SINGLE SOLAR GEYSER IS USED, CONNECT THE HOT WATER FROM THIS GEYSER

GENERAL NOTES:

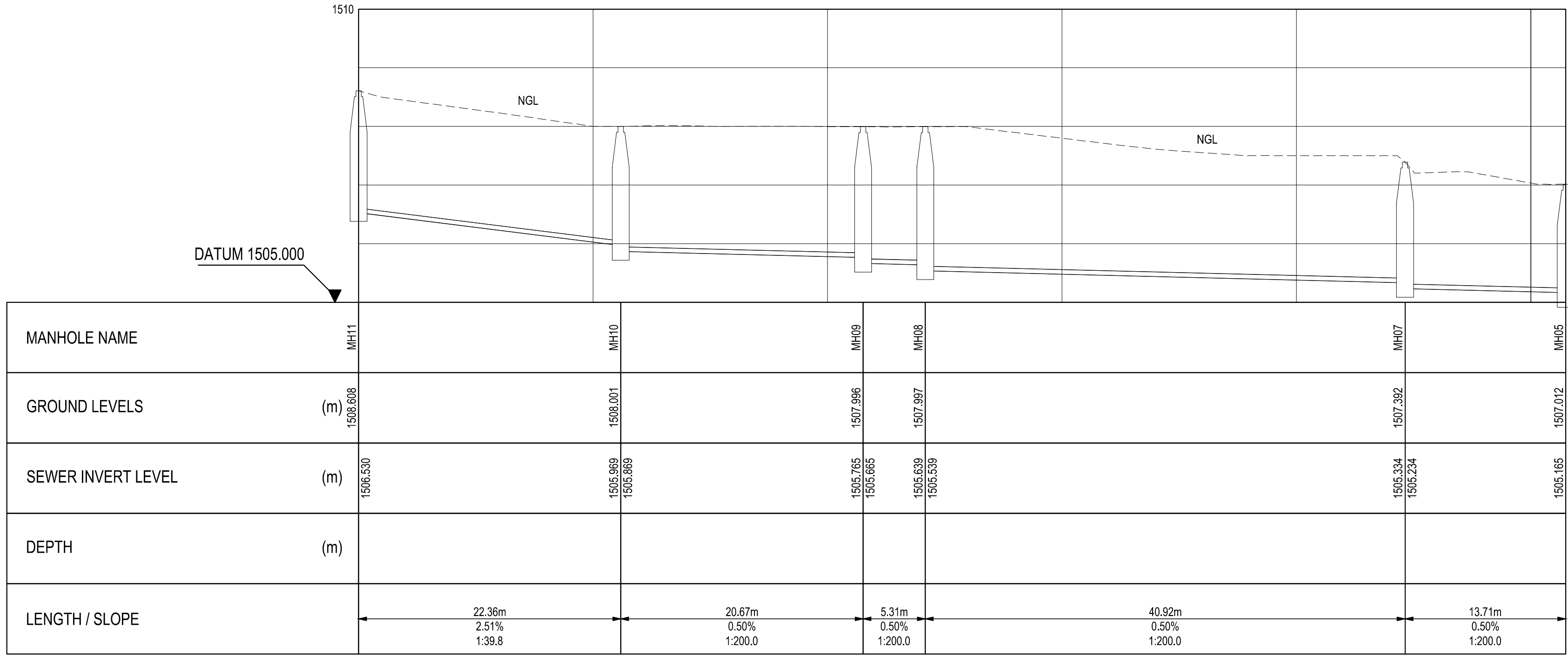
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GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION	
STANDY ERF PLOT DESCRIPTION	
ERF 2118	
SERVICE	
FLEUR PRIMARY SCHOOL	
BLOCK NAME	DESCRIPTION
DISCIPLINE	
CIVILS	
STAGE	3
DESCRIPTION - SUB-DIVISION	
DECANTING - ORDINARY CLASSROOM	
DRAWING DESCRIPTION	
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FILE No	SCHOOL
EMIS No	As Shown
DRAWN	M.E.C
DATE	NAME & SURNAME
2022.02.17	WILLIAM MOHELO
RESPONSIBLE PROFESSIONAL - DESIGN	
DATE	SIGNATURE
2022.02.17	FELOSAL NYAMAPFONDO
RESPONSIBLE PROFESSIONAL - CO-ORDINATION	
DATE	SIGNATURE
2022.02.17	FELOSAL NYAMAPFONDO
PROFESSIONAL SERVICE PROVIDER (PSP)	
Name:	Indelo Architecture & Design CC
Address:	Unit 1178 Cotton Drive, 118 Model Street, Nieuw Molenpark, Brooklyn Park, 015
Tel:	+27 82 345 0158
MAIN CONTRACTOR	
Name:	
Address:	
Tel:	
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A1	GDETS20S006-01-CIV-SWR-LAY-101
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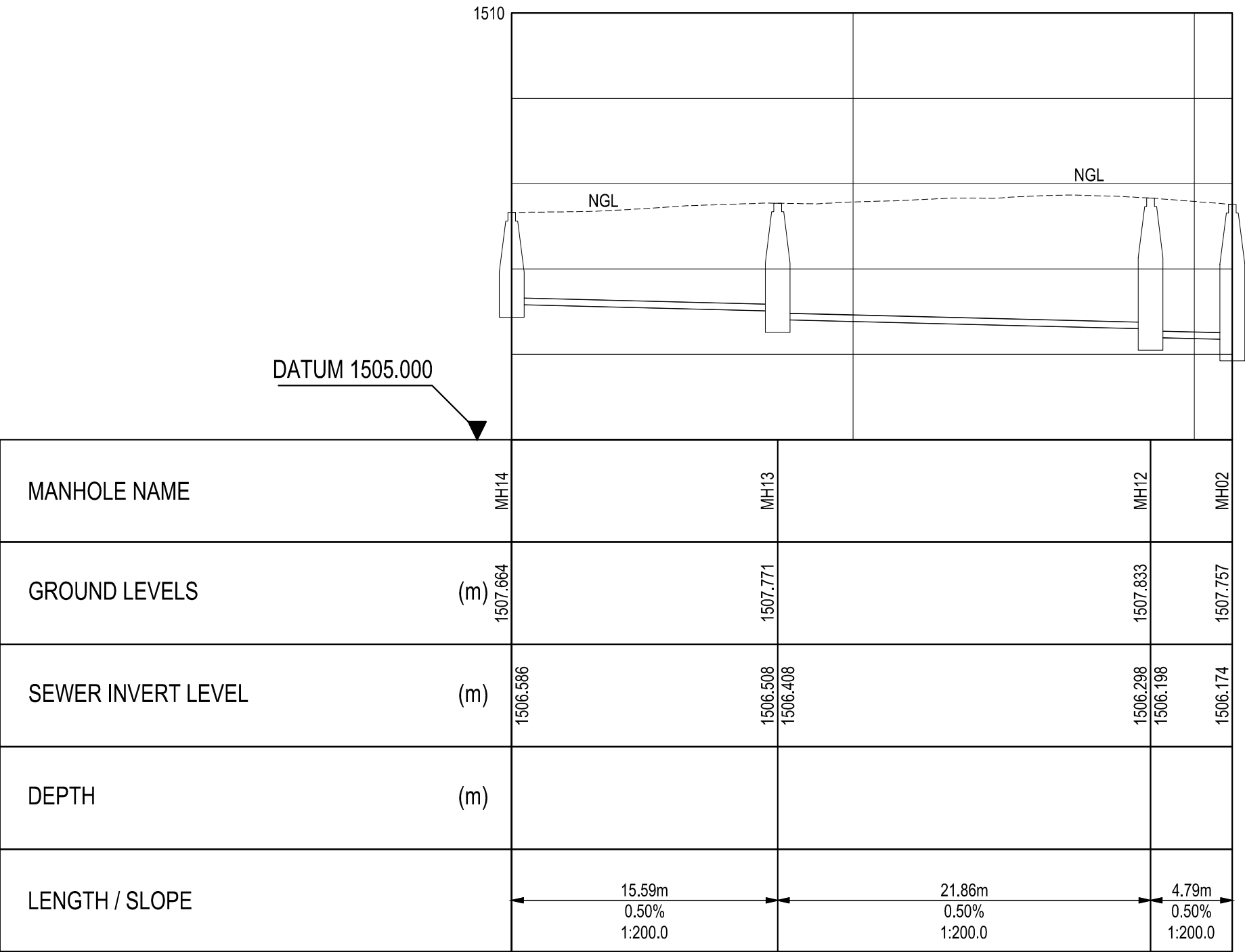
MANHOLE NAME	MH01	MH02	MH03	MH04	MH05	MH06
GROUND LEVELS (m)	1507.570	1507.757	1507.665	1507.500	1507.012	1505.174
SEWER INVERT LEVEL (m)	1506.492	1506.267 1506.074	1505.974 1505.980	1505.989 1505.189	1505.659 1505.065	1503.768
DEPTH (m)						
LENGTH / SLOPE	41.06m 0.50% 1:200.0		21.33m 0.47% 1:213.3	18.33m 0.50% 1:200.0	25.97m 0.50% 1:200.0	58.69m 2.21% 1:45.2

LONGITUDINAL SECTION  
HOR 1: 300    VER 1:60



MANHOLE NAME	MH11	MH10	MH09	MH08	MH07	MH05
GROUND LEVELS (m)	1508.608	1508.001	1507.996	1507.997	1507.392	1507.012
SEWER INVERT LEVEL (m)	1506.530	1505.969 1505.869	1505.765 1505.665	1505.639 1505.539	1505.334 1505.234	1505.165
DEPTH (m)						
LENGTH / SLOPE	22.36m 2.51% 1:39.8	20.67m 0.50% 1:200.0	5.31m 0.50% 1:200.0	40.92m 0.50% 1:200.0	13.71m 0.50% 1:200.0	

LONGITUDINAL SECTION  
HOR 1: 300    VER 1:60



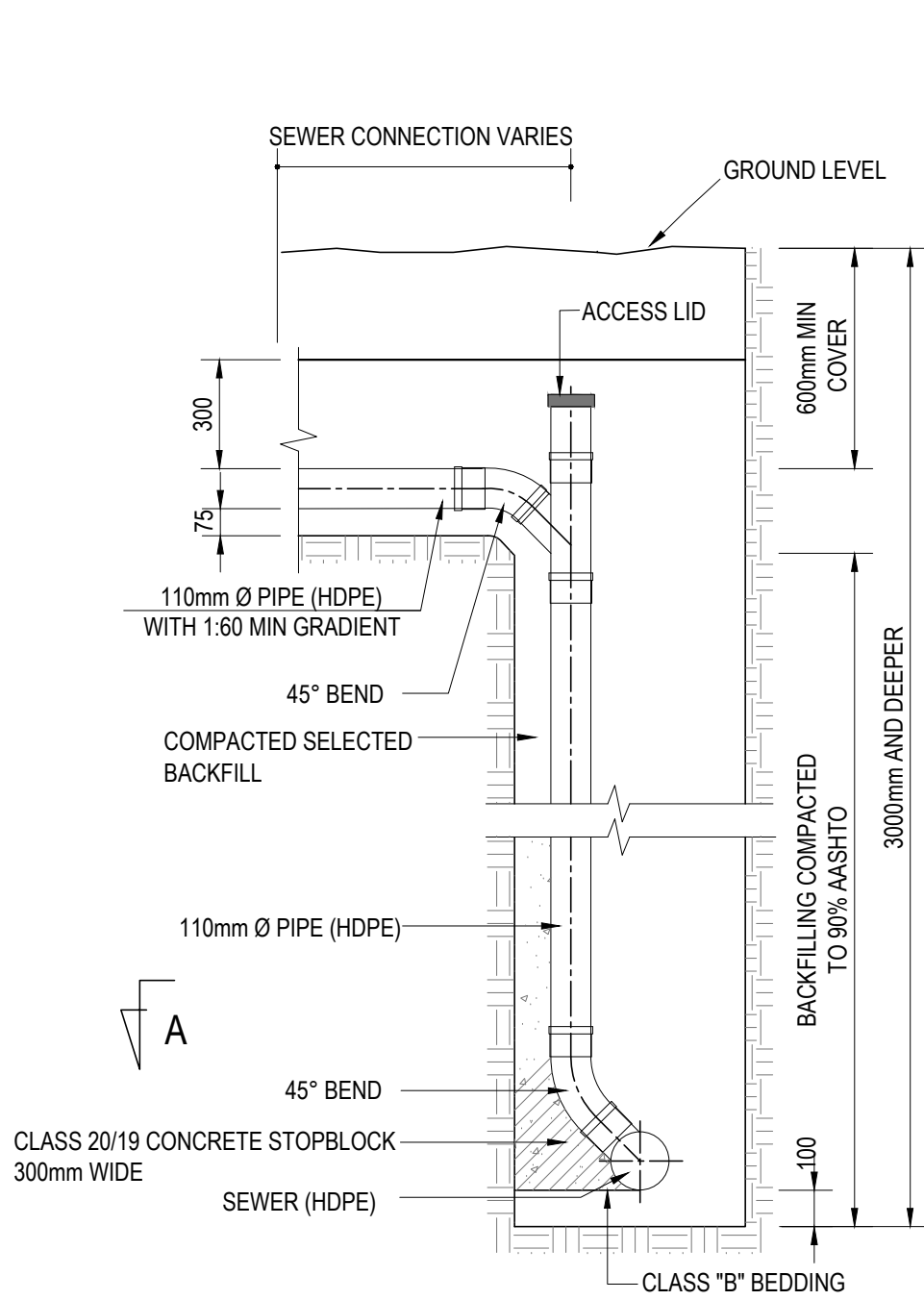
MANHOLE NAME	MH14	MH13	MH12	MH02
GROUND LEVELS (m)	1507.664	1507.771	1507.833	1507.757
SEWER INVERT LEVEL (m)	1506.586	1506.508 1506.408	1506.298 1506.198	1506.174
DEPTH (m)				
LENGTH / SLOPE	15.59m 0.50% 1:200.0	21.86m 0.50% 1:200.0	4.79m 0.50% 1:200.0	

LONGITUDINAL SECTION  
HOR 1: 300    VER 1:60

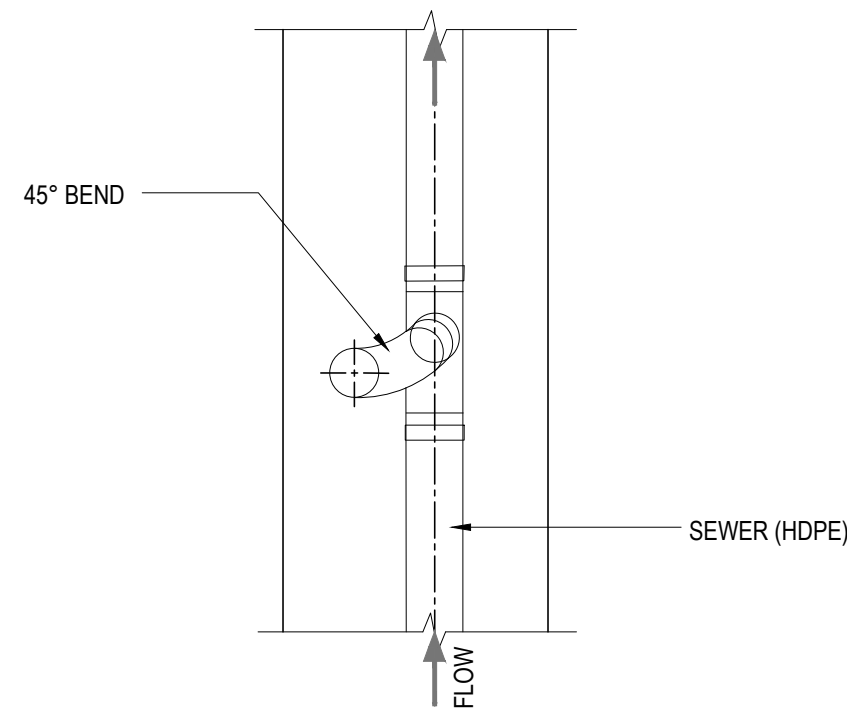
ACCEPTED BY DID

GENERAL NOTES:

REV No	17.02.22	Issued for Approval only
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REVISIONS		
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INSTITUTION GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION		
STANDY ERF/ PLOT DESCRIPTION ERF 2118		
SERVICE FLEUR PRIMARY SCHOOL		
BLOCK NAME	SITE/ BUILDINGS	BOC
DISCIPLINE		
STAGE 3		
DESCRIPTION - SUB-DIVISION DECANTING - ORDINARY CLASSROOM		
DRAWING DESCRIPTION SEWER LONGSECTIONS		
FILE No.	SCHOOL	CLUSTER
EMIS No.	As Shown	SCALE
DRAWN	M.E.C	DESIGN
DATE	NAME & SURNAME	SIGNATURE
2022.02.17	WILLIAM MONHELO	
RESPONSIBLE PROFESSIONAL - DESIGN		
RESPONSIBLE PROFESSIONAL - CO-ORDINATION		
2022.02.17	FEDERAL NYAMAPHOZWA	20180084
PROFESSIONAL SERVICE PROVIDER (PSP)		
Name: Iradele Architecture & Design CC		
Address: Unit 117B, Coffer Dunes, 118 Madiba Street, Newclare, Johannesburg, 20180		
Tel: +27 82 345 0198		
Name: MAIN CONTRACTOR		
Address: Tel:		
CAD	AutoCAD 2020	A001
FILE NAME	DRAWING NUMBER	
REV		
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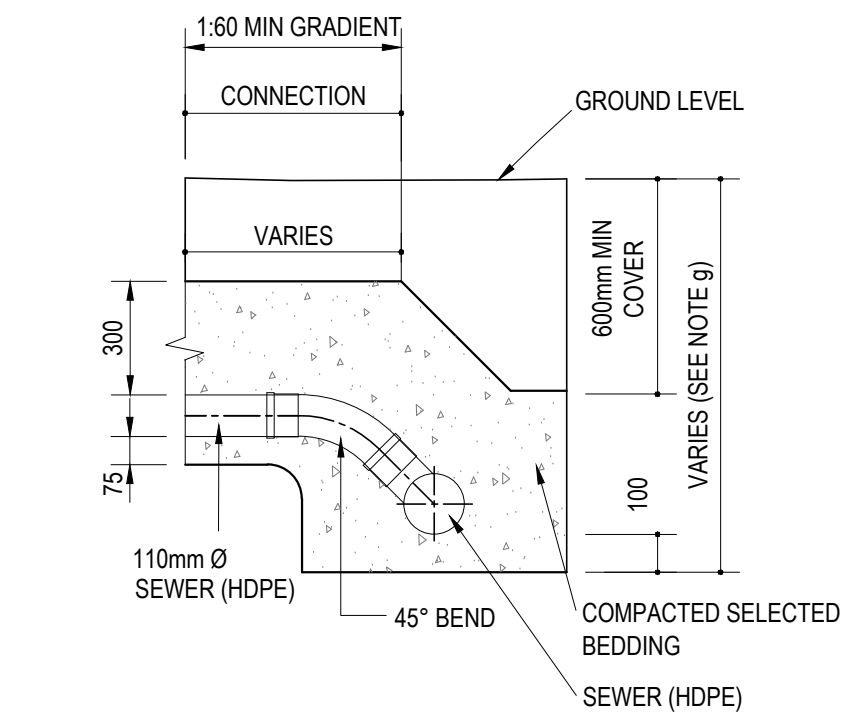


SECTION  
N.T.S

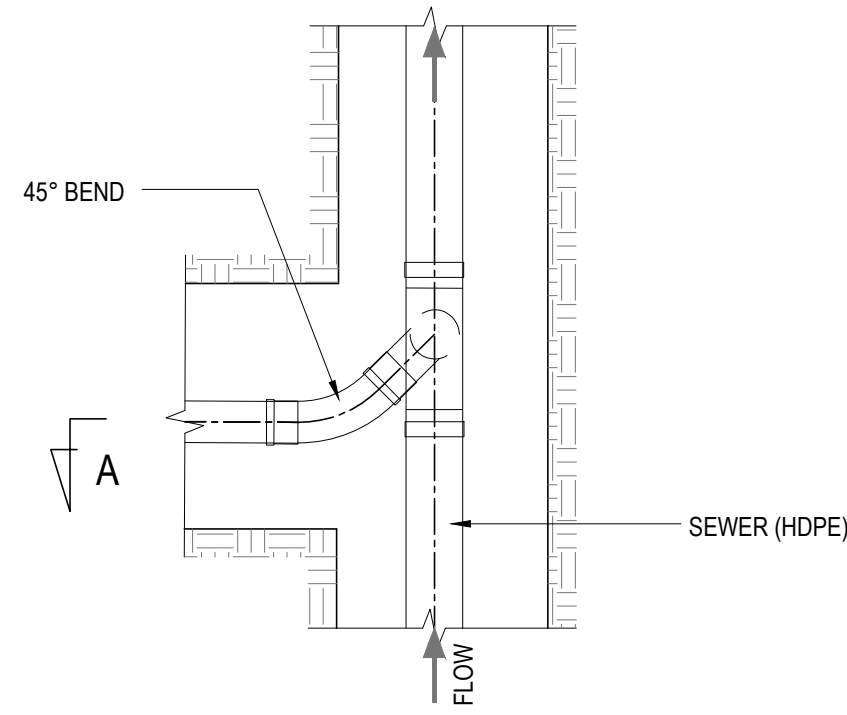


DETAIL  
N.T.S

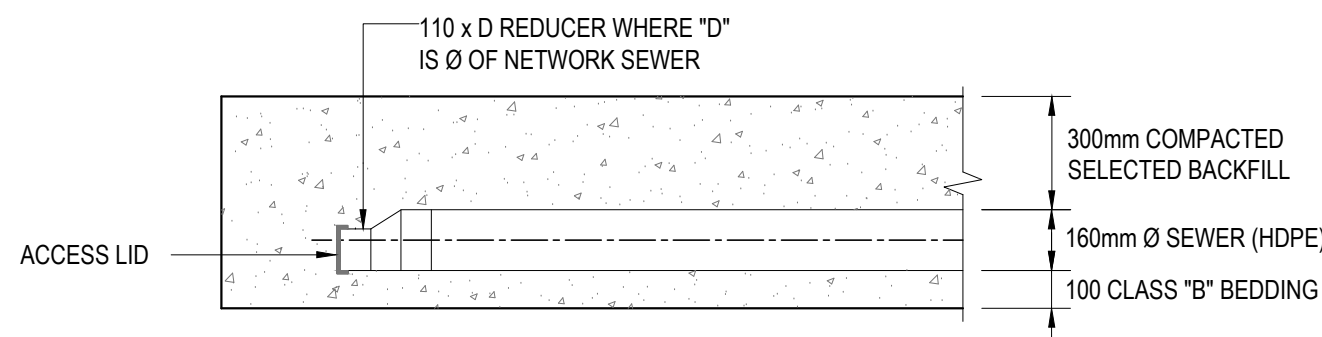
SEWER CONNECTION TYPE 1 (SEE NOTE a)  
N.T.S



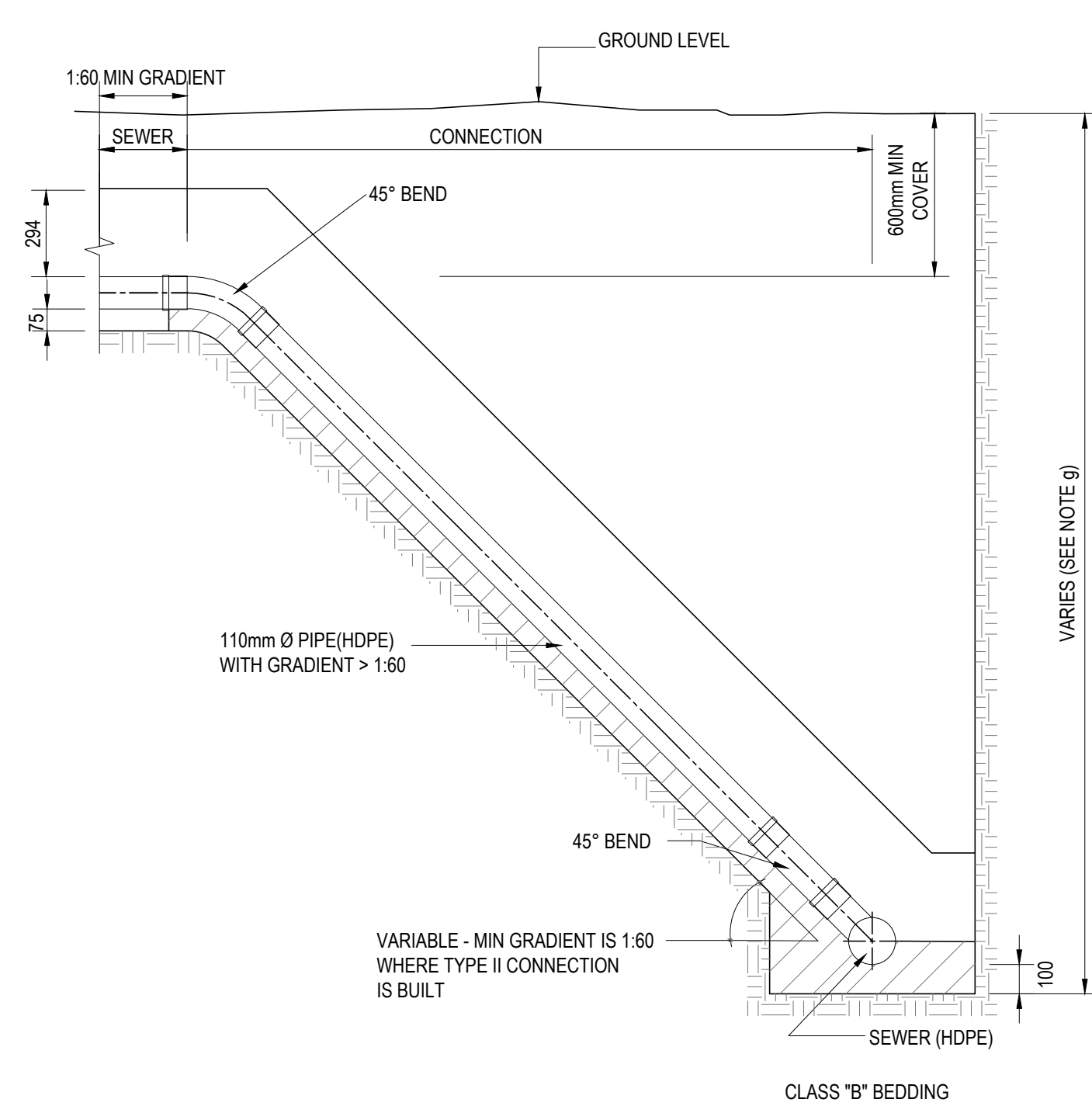
SECTION  
N.T.S



PLAN  
SEWER CONNECTION TYPE 1 (SEE NOTE b)  
N.T.S

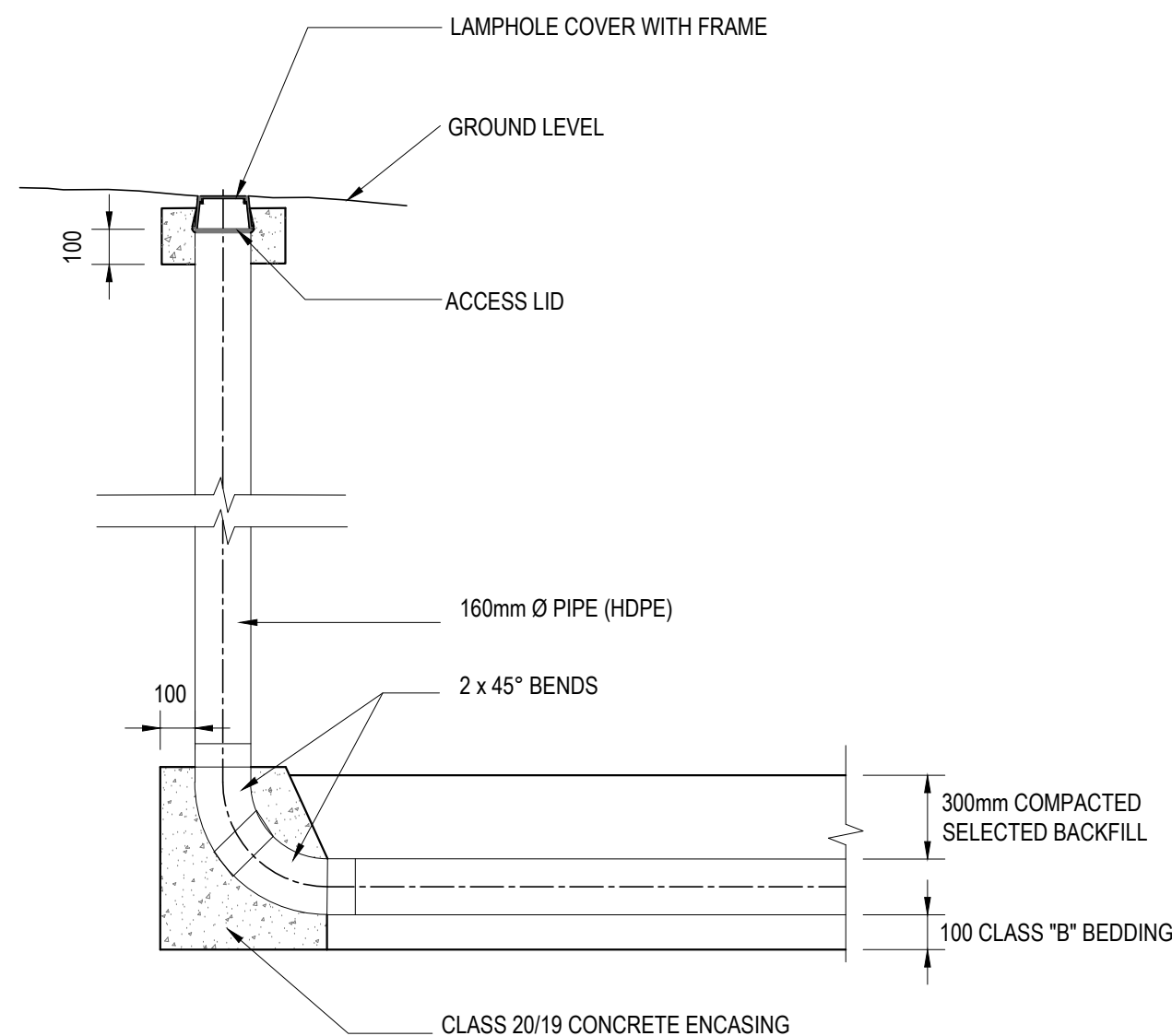


SECTION  
STOPEND DETAIL  
N.T.S

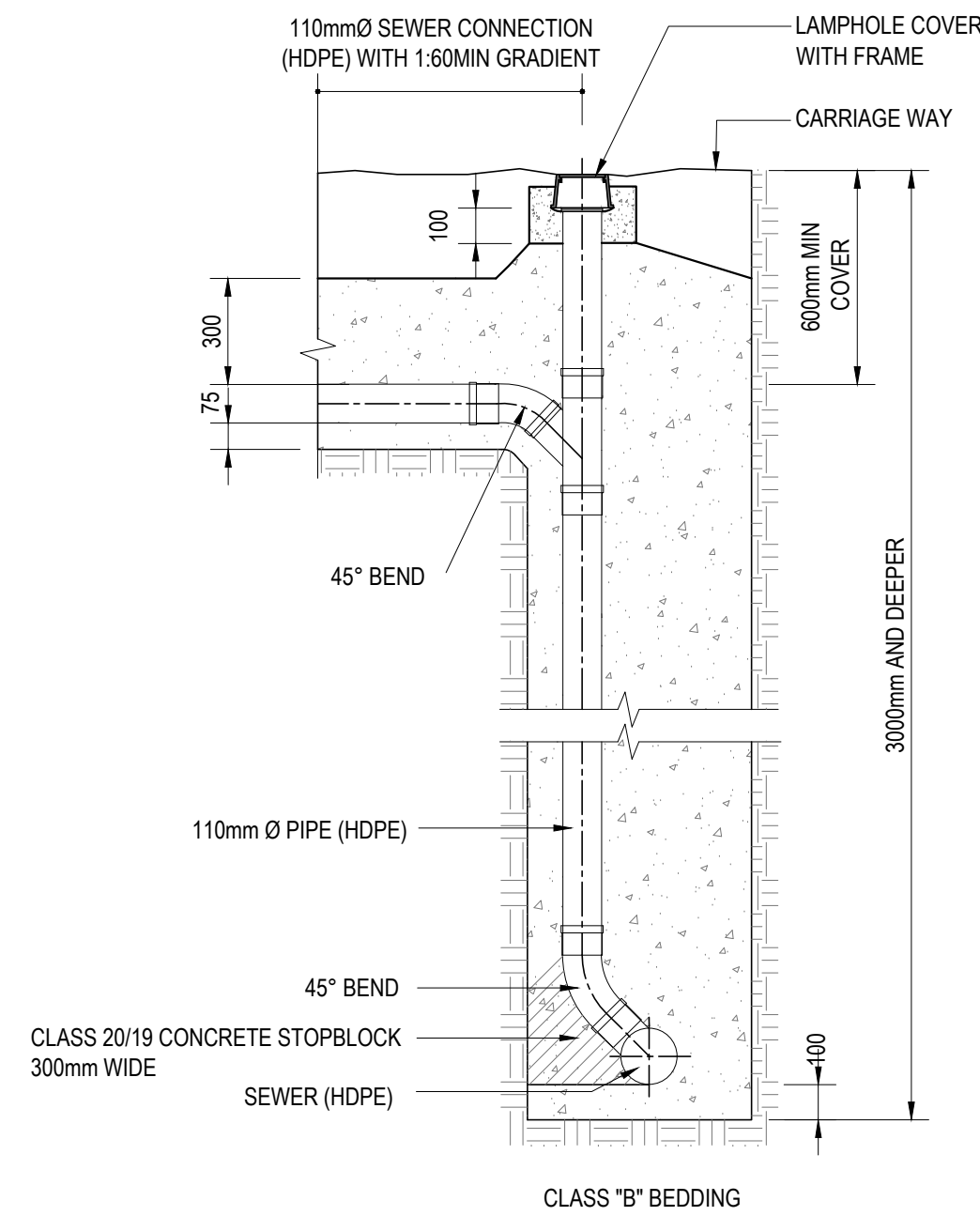


CONCRETE BEDDING CLASS "A"  
AND FLEXIBLE JOINTS ON SLOPES  
STEEPER THAN 30°

SECTION  
SEWER CONNECTION TYPE 3 (SEE NOTE c)  
N.T.S



SECTION  
CLEANING EYE DETAIL  
N.T.S



SECTION  
SEWER CONNECTION TYPE 4 (SEE NOTE d)  
N.T.S

#### NOTES:

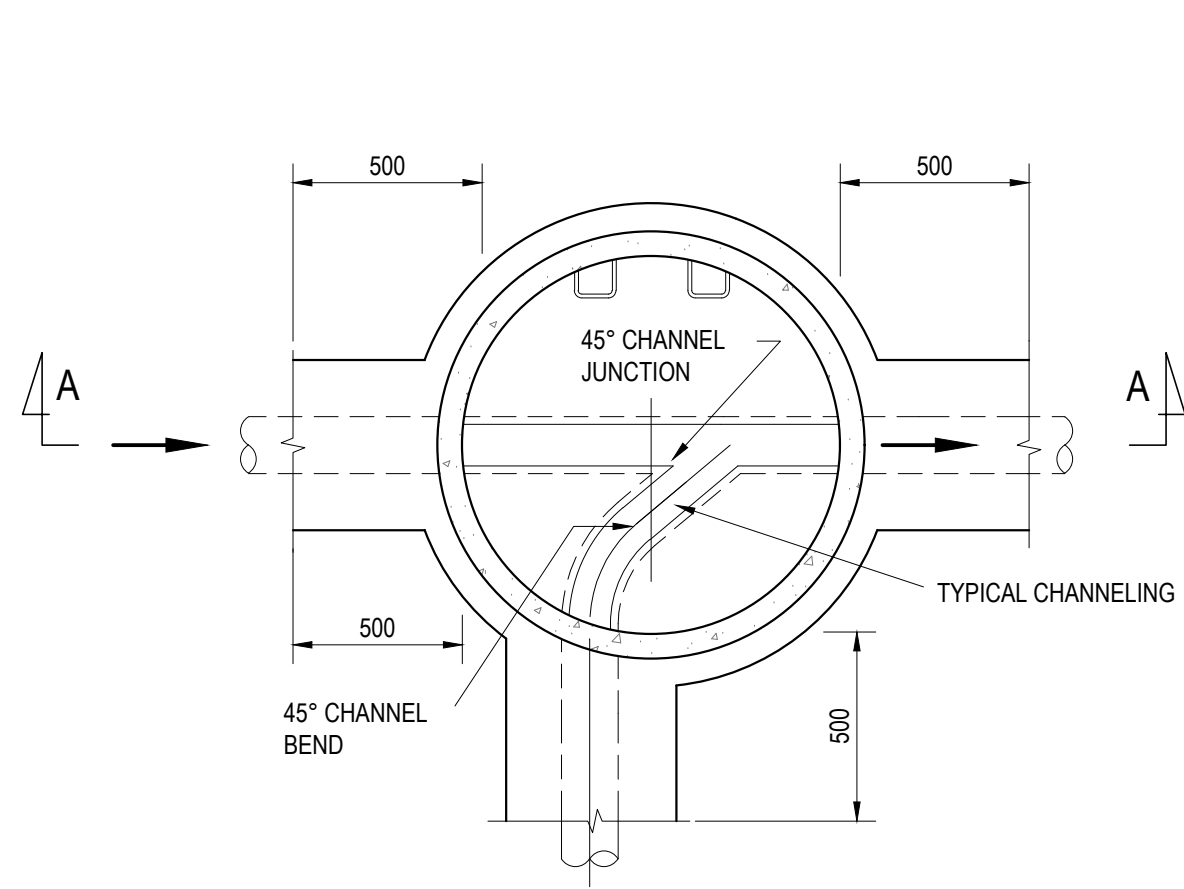
- SEWER CONNECTION TYPE 1 IS BUILT WHERE SEWER IS DEEPER THAN 3000 BUT NOT SITUATED UNDERNEATH CARRIAGE WAY.
- SEWER CONNECTION TYPE 2 IS BUILT WHERE SEWER IS SHALLOWER THAN 3000 AND IS GENERALLY USED.
- SEWER CONNECTION TYPE 3 IS ONLY TO BE BUILT ON WRITTEN INSTRUCTIN OF THE ENGINEER IN THE CASES WHERE SEWER IS TO DEEP FOR TYPE 2 AND TOO SHALLOW FOR TYPE 1.
- SEWER CONNECTION TYPE 4 IS BUILT WHERE SEWER IS SITUATED UNDER CARIAGE WAY AND DEEPER THAN 3 000.
- IN CASES WHERE SEWER UNDER CARRIAGE WAY IS SHALLOWER THAN 3 000, TYPE 2 OR 3 SEWER CONNECTION IS BUILT.
- WHERE SEWER CONNECTION AND MANHOLE POSITION IS THE SAME, FOLLOW MANHOLE DETAIL DRAWING.
- MINIMUM COVER FOR MAIN SEWER IS 1 000mm.
- NB: REINFORCED CONCRETE COVER AND FRAME APPROVED BY THE ENGINEER OR SABS TYPE 4 REINFORCED MANHOLE FRAME AND COVER MAY USED IN LIEU OF CAST IRON MANHOLE COVER AND FRAME.

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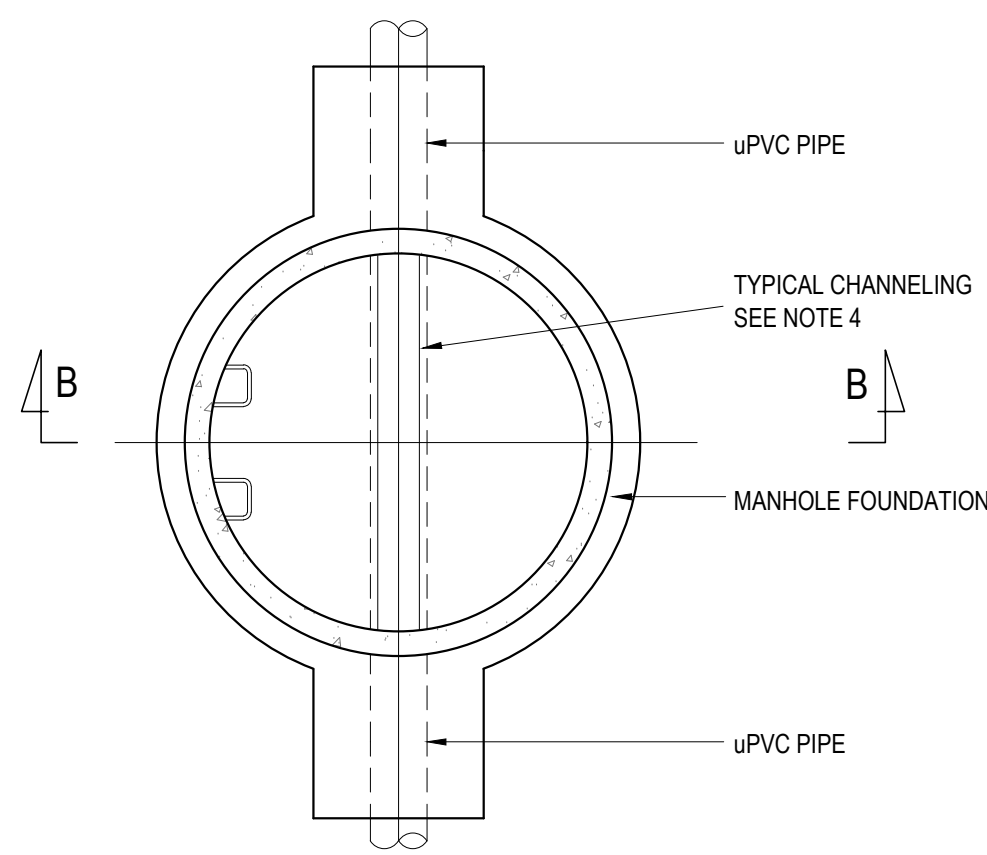
#### GENERAL NOTES:

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DRAWN	M.E.C.	DESIGN
DATE	NAME & SURNAME	SIGNATURE
2022.02.17	WILLIAM	
2022.02.17	MOHAMED	
2022.02.17	PEDROSAI	20180084
PROFESSIONAL SERVICE PROVIDER (PSP):		
Name:	Indelo Architecture & Design CC	
Address:	Unit 11/16 Cotton Drive, 116 Model Street, Newmarket, Brooklyn, Pretoria, 0181	Tel: +27 82 345 0158
Name:	MAIN CONTRACTOR	
Address:		Tel:
CAD	AutoCAD 2020	A001
FILE NAME	DRAWING NUMBER	REV
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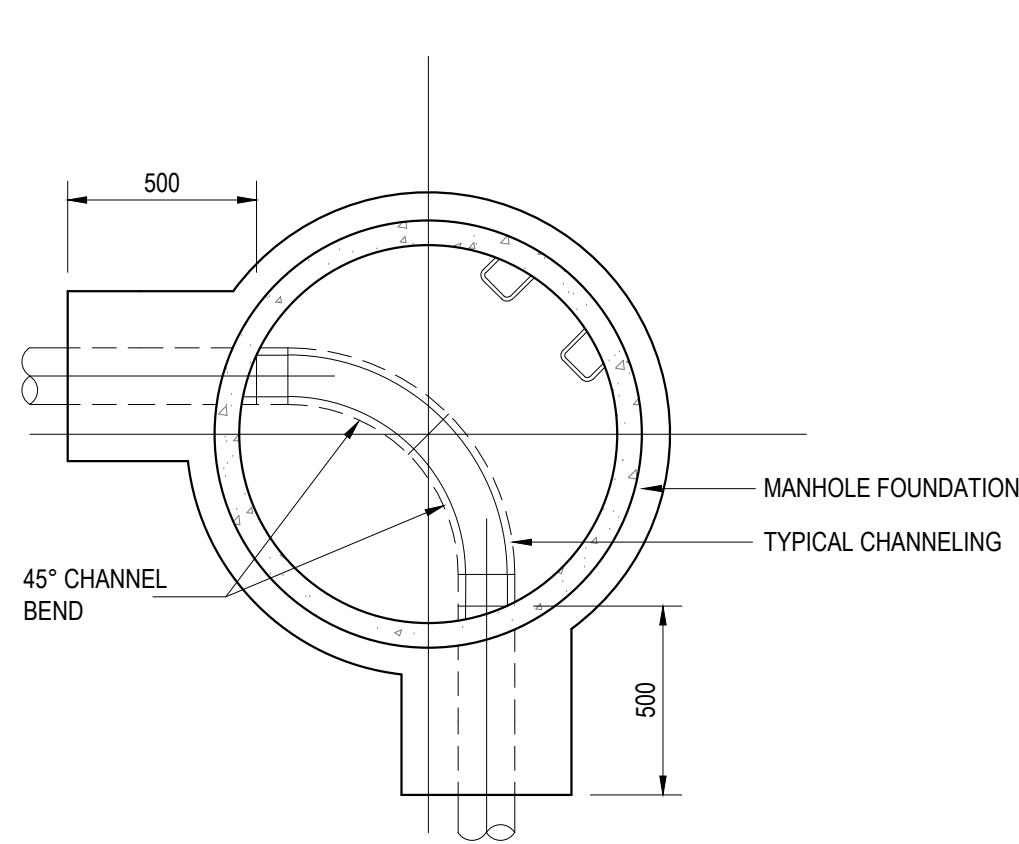




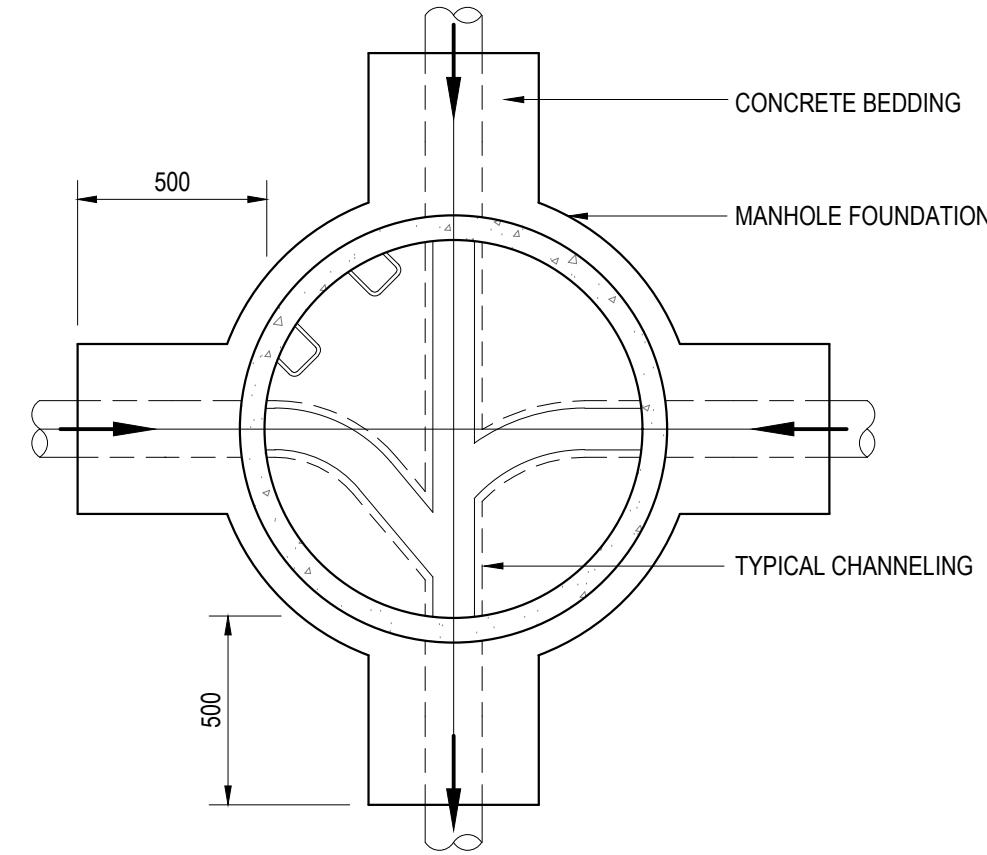
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T-JUNCTION  
SCALE 1:20



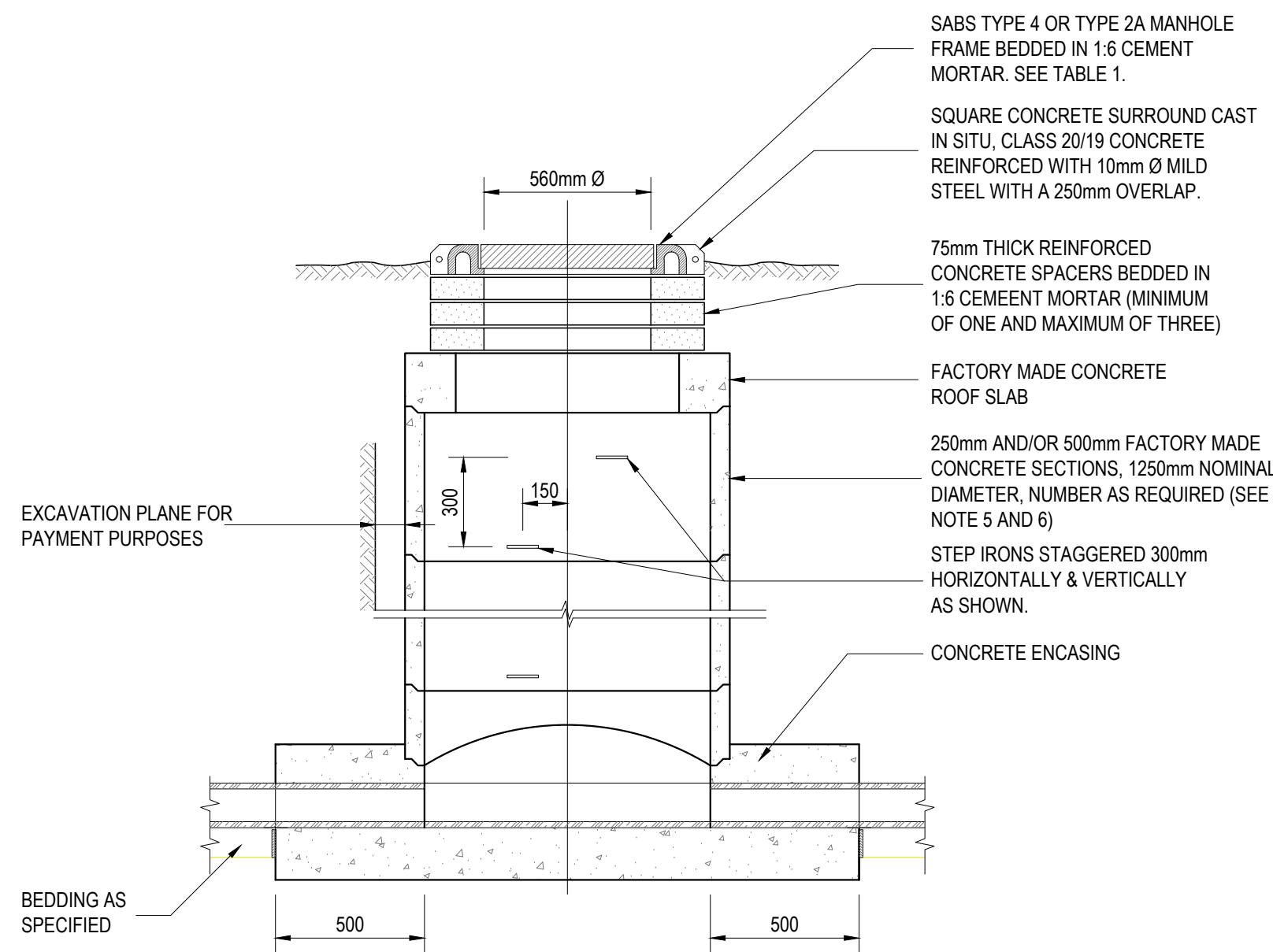
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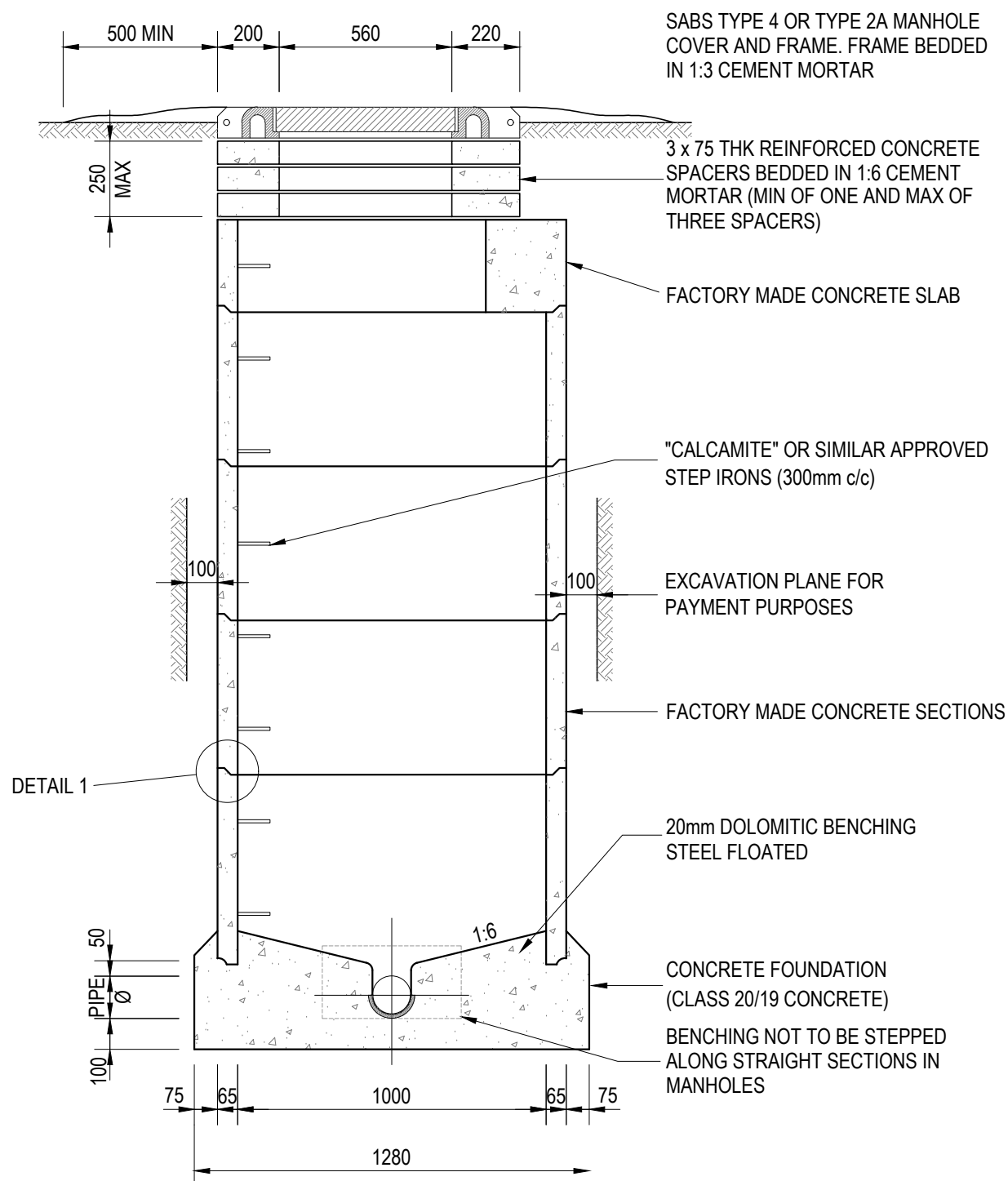
PLAN  
90° JUNCTION  
SCALE 1:20



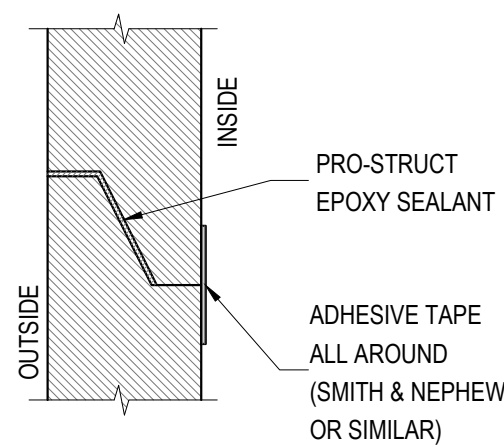
PLAN  
4-WAY JUNCTION  
SCALE 1:20



SECTION A-A  
SCALE 1:20



SECTION B-B  
SCALE 1:20



DETAIL 1  
N.T.S

MANHOLE COVERS (S.A.B.S. 558/1965)	
POSITION OF MANHOLE	TYPE OF COVER
CARRIAGE WAY	S.A.B.S. TYPE 2A CAST IRON FRAME AND COVER
STREET RESERVE	S.A.B.S. TYPE 4 CAST IRON OR CONCRETE FRAME AND COVER
INTERNAL	S.A.B.S. TYPE 4 CAST IRON OR CONCRETE FRAME AND COVER
GENERAL	ONLY S.A.B.S. TYPE 2A MANHOLE COVERS MAY BE USED FOR SEWERS 3000 AND GREATER
NOTE : CONCRETE COVERS ARE USED ONLY WITH WRITTEN INSTRUCTION FROM THE ENGINEER.	

- NOTES**
- CONCRETE FOR MANHOLES MUST BE OF DOLOMITIC ORIGIN.
  - MID-BLOCK SEWERS: TOP OF FRAME MUST BE 150mm ABOVE NATURAL GROUND LEVEL AND SURROUNDED BY GROUND.
  - GRAVEL SIDEWALKS:  
(1) TOP OF THE FRAME MUST BE 50mm ABOVE FINISHED GROUND LEVEL OF SIDEWALKS.  
(2) IN CASE SIDEWALK IS NOT FINISHED OFF, THE HEIGHT OF THE FRAME MUST BE DETERMINED BY THE ENGINEER.
  - CHANNELING MUST BE BUILT WITH GLAZED EARTHENWARE PIPES.
  - CONCRETE SECTIONS MUST BE FIXED WITH AN EPOXY AND SILICA MIXTURE (WHICH HAS BEEN APPROVED BY AN ENGINEER).
  - FACTORY MADE MANHOLE SECTIONS MUST BE IN ACCORDANCE WITH S.A.B.S. 1924-1981.
  - MANHOLE FRAMES MAY ONLY BE BUILT IN ON SLOPED FINISHED SIDEWALKS ON A WRITTEN INSTRUCTION BY THE ENGINEER.
  - OVER EXCAVATION MAY ONLY BE FILLED AFTER APPROVAL BY THE ENGINEER WITH GRADE 20/19 CONCRETE OR SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.
  - NO PART OF THE MANHOLE MAY BE FINISHED OFF WITH CEMENT-WASH OR MORTAR.

GENERAL NOTES:

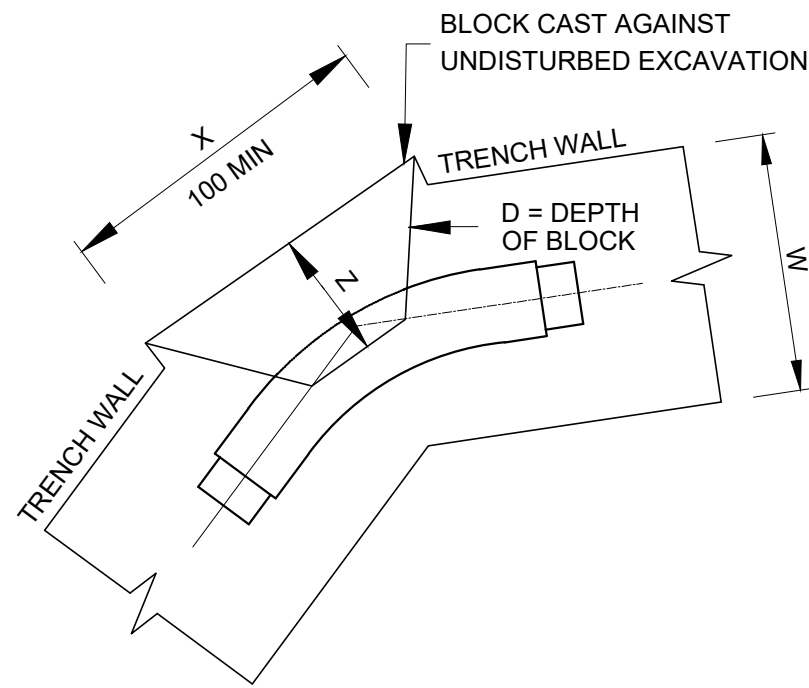
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SIZE ON ORIGINAL DRAWING: 100 mm		
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INSTITUTION GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION		
STAND/ ERF/ PLOT DESCRIPTION ERF 2118		
SERVICE FLEUR PRIMARY SCHOOL		
BLOCK NAME	SITE/ BUILDING	BOC
DISCIPLINE DECANTING - CIVILS		STAGE 3
DISCIPLINE - SUB-DIVISION SEWER SUPPLY - SHEET 2		
DRAWING DESCRIPTION SEWER CONNECTION - MANHOLE DETAIL		
FILE No	SCHOOL	CLUSTER
EMIS No	As Shown	SCALE
DRAWN	M.E.C	DESIGN
DATE	NAME & SURNAME	SIGNATURE
2022.02.17	WILLIAM MOHLEB	
RESPONSIBLE PROFESSIONAL - DESIGN		PR. NUMBER
2022.02.17		20180084
RESPONSIBLE PROFESSIONAL - CO-ORDINATION		
2022.02.17		20180084
PROFESSIONAL SERVICE PROVIDER (PSP)		
Name: Indelo Architecture & Design CC Address: Unit 117B Citrus Grove, 19 Model Street, New Maclean, Brondan Pretoria, 081 Tel: +27 82 345 0158		
Name: CONTRACTOR		
Address: Tel:		
CAD SYSTEM	AutoCAD 2020	A001
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ACCEPTED BY DID





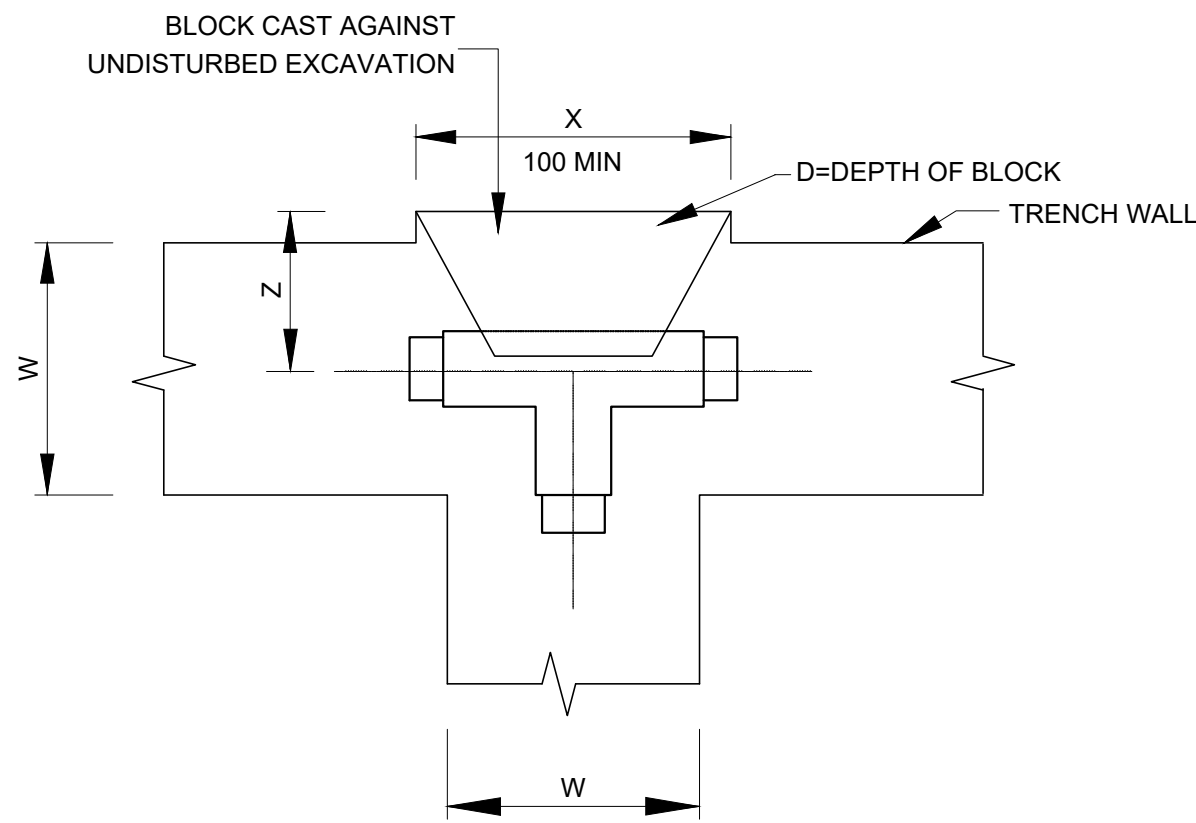




THRUST BLOCK FOR 45° BEND

NOMINAL DIAMETER Ø (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE < 900 kPa	
		X (mm)	A (m²)
150	600	250	0,13
100	400	150	0,06
75	300	100	0,03
50	200	100	0,02

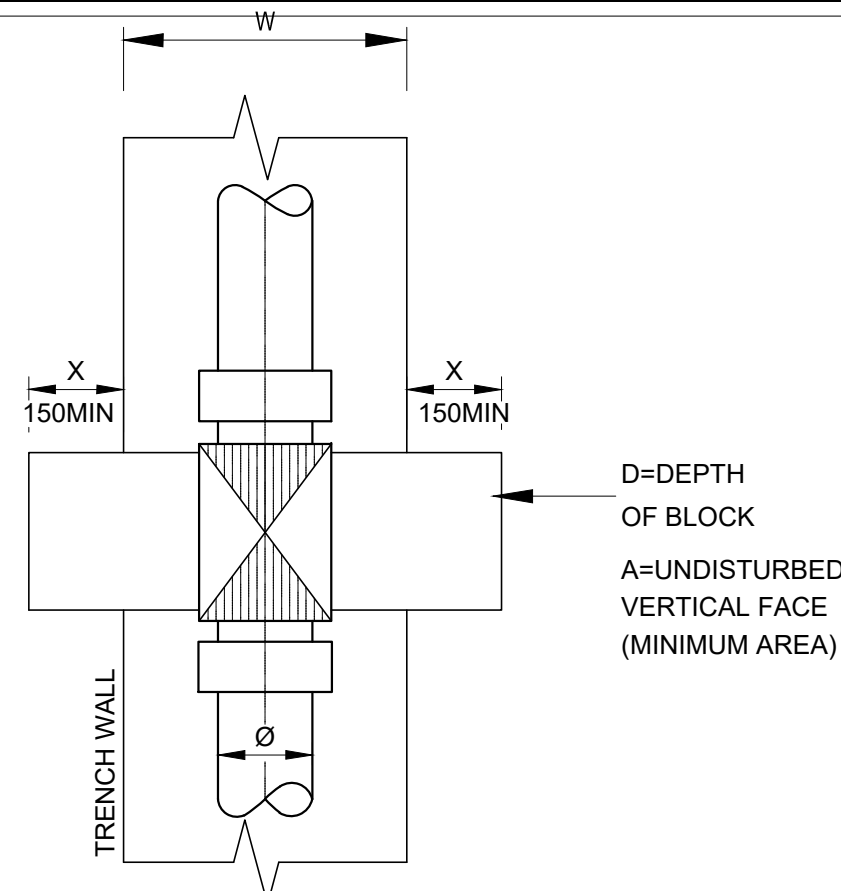
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2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. Z SHALL BE THE MINIMUM OF X/2 OR W/2
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE



THRUST BLOCK FOR TEE

NOMINAL DIAMETER Ø (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE <900 kPa	
		X (mm)	A (m²)
150	600	300	0,16
100	400	200	0,07
75	300	150	0,04
50	200	100	0,02

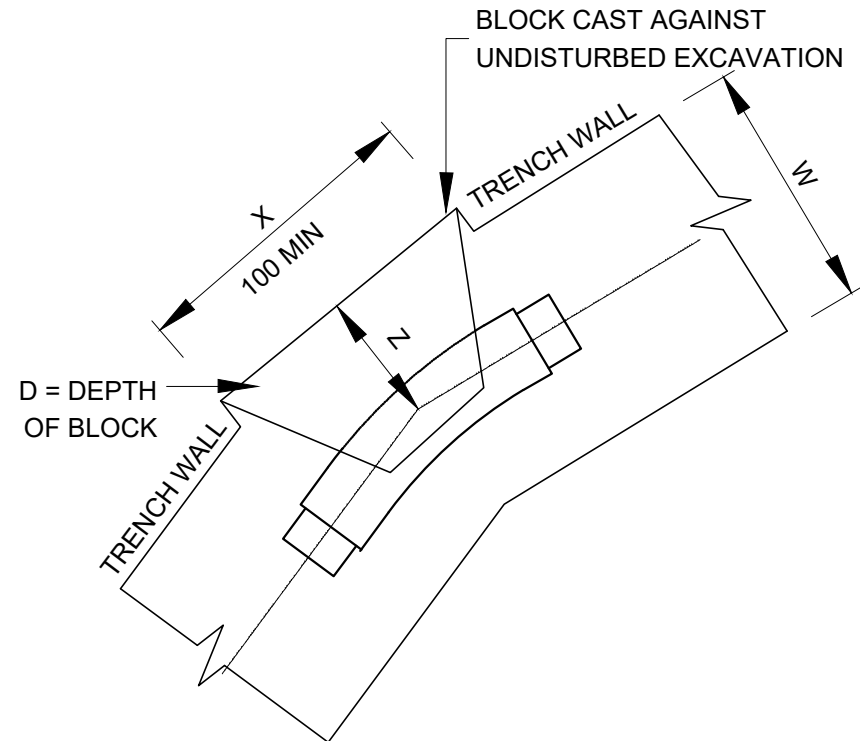
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2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. Z SHALL BE THE MINIMUM OF X/2 OR W/2
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE



THRUST BLOCK FOR GATE VALVE

NOMINAL DIAMETER Ø (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE <900 kPa	
		X (mm)	A (m²)
150	350	150	0,16
100	300	150	0,07
75	250	150	0,04
50	200	150	0,02

1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE
2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. X - DIMENSION SHALL BE 150mm MINIMUM
4. THE BLOCK DEPTH SHALL BE MEASURED FROM THE PIPE AXIS DOWNWARDS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR OF CONCRETE

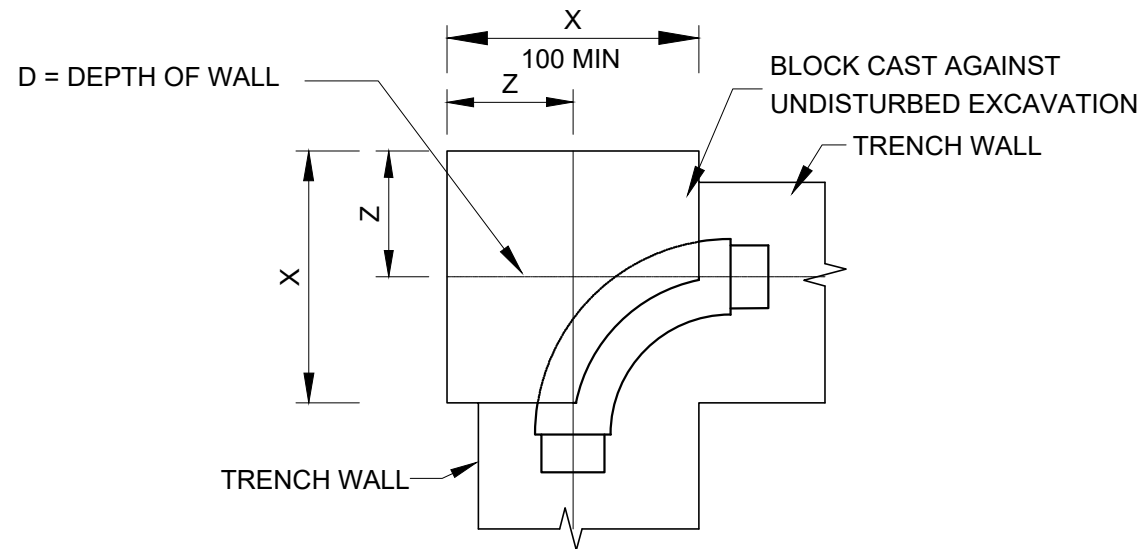


THRUST BLOCK FOR 22,5° AND 11,25° BEND

(X AND A TO BE HALVED FOR 11,25° BENDS)

NOMINAL DIAMETER Ø (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE <900 kPa	
		X (mm)	A (m²)
150	600	100	0,06
100	400	100	0,04
75	300	100	0,03
50	200	100	0,02

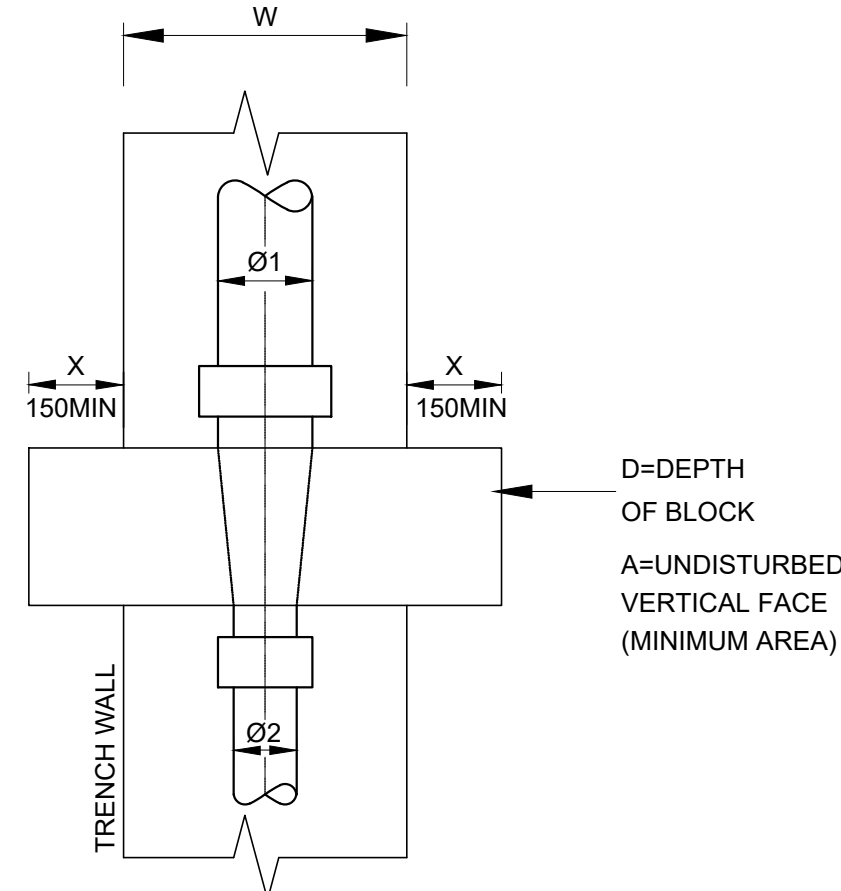
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2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. Z SHALL BE THE MINIMUM OF X/2 OR W/2
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE



THRUST BLOCK FOR 90° BEND

NOMINAL DIAMETER Ø (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE <900 kPa	
		X (mm)	A (m²)
150	600	400	0,23
100	400	250	0,10
75	300	200	0,06
50	200	150	0,03

1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE
2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. Z SHALL BE THE MINIMUM OF X/2 OR W/2
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR FROM CONCRETE



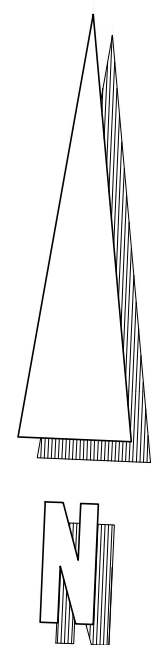
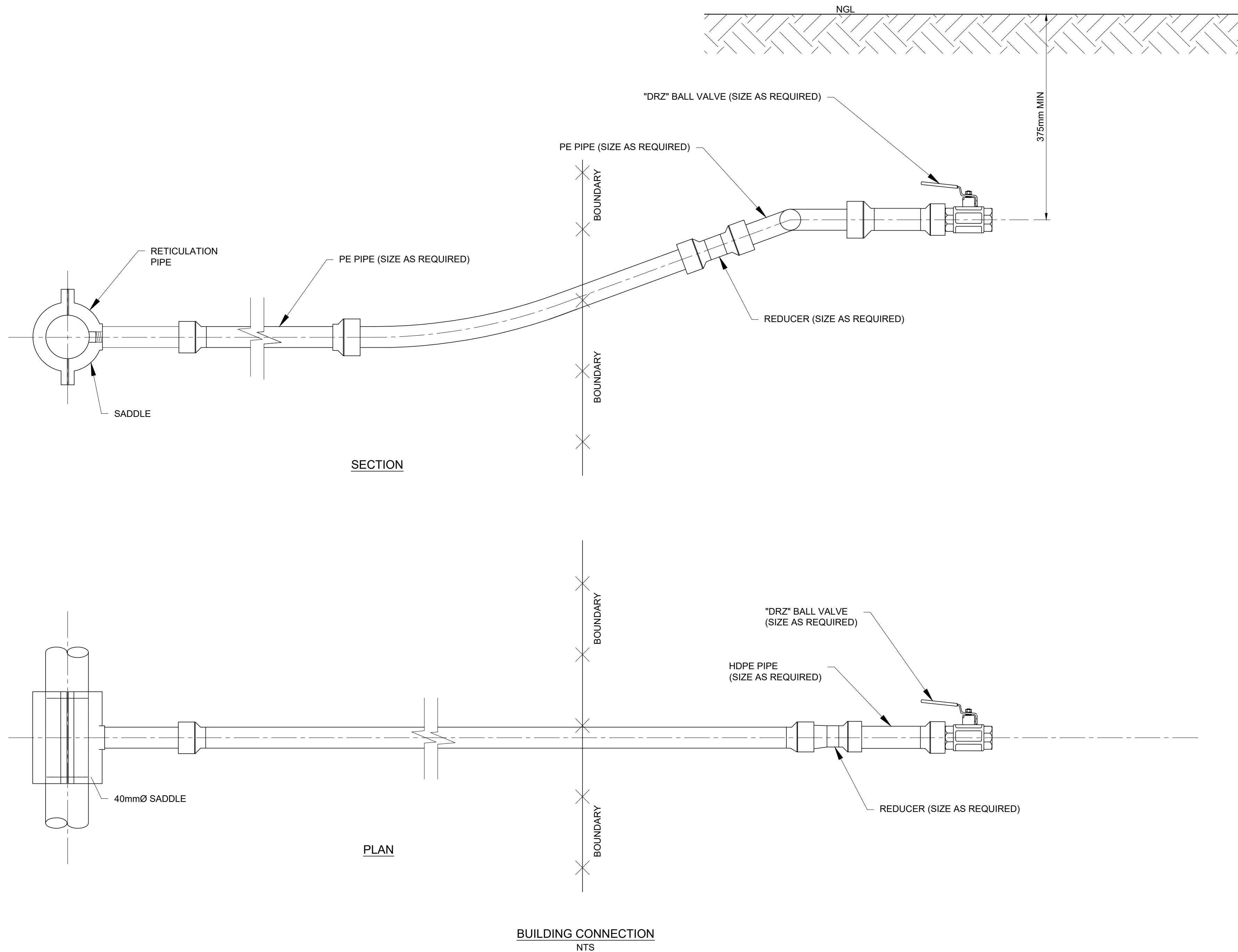
THRUST BLOCK FOR REDUCER

NOMINAL DIAMETER Ø1 (mm)	NOMINAL DIAMETER Ø2 (mm)	DEPTH OF BLOCK D (mm)	MAX TESTING PRESSURE <900 kPa	
			X (mm)	A (m²)
200	150/100	600	200	0,22
150	100/75	500	150	0,12
100	75/50	400	150	0,06
75	50	300	100	0,03

1. THIS TABLE IS VALID FOR 100 kPa EARTH BEARING PRESSURE
2. X- DIMENSION MAY BE REDUCED FOR HIGHER EARTH BEARING PRESSURES
3. X- DIMENSION SHALL BE 150mm MINIMUM
4. HALF OF THE DEPTH OF THE BLOCK SHALL BE BELOW THE PIPE AXIS
5. KEEP COUPLINGS AND FLANGES 25mm CLEAR OF CONCRETE

GENERAL NOTES:

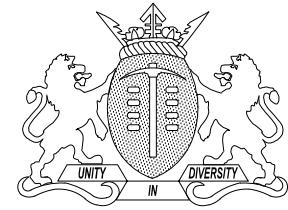
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REVISIONS			
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT			
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION			
STANDY ERF/ PLOT DESCRIPTION: SSG			
ERF 2118			
FLEUR PRIMARY SCHOOL			
BLOCK NAME: SITE/ BUILDINGS DESCRIPTION: BDC			
DISCIPLINE: CIVILS STAGE: 3			
DISCIPLINE - SUB-DIVISION: POTABLE WATER SUPPLY			
DRAWING DESCRIPTION: TYPICAL THRUST BLOCK DETAILS			
FILE No:	SCHOOL:	CLUSTER:	
SMIS No:	As Shown	SCALE:	
DRAWN: W.M	M.E.C	DESIGN:	
DATE: 2022.02.17	WILLIAM MONHELO	RESPONSIBLE PROFESSIONAL - DESIGN	PR NUMBER:
2022.02.17	PERSONAL NYAMUPHOSA	RESPONSIBLE PROFESSIONAL - CO-ORDINATION	20180084
PROFESSIONAL SERVICE PROVIDER (PSP):			
Name: Inobale Architecture & Design CC			
Address: Unit 1178 Carlton Centre, 118 Nelson Street, New Market, Brooklyn, Pretoria, 0181			
Tel: +27 82 345 0158			
Name: MAIN CONTRACTOR			
Address: Tel:			
CAD: AutoCAD 2020	A001	FILE NAME:	
SHEET: 106	DRAWING NUMBER:	REV:	
A1	GDETS20S006-01-CIV-WAT-106	A	



GENERAL NOTES:

REV No	DATE	DESCRIPTION
A	17.02.20	Issued for Approval only

REVISIONS	
SIZE ON ORIGINAL DRAWING: 100 mm	



**DEPARTMENT OF  
INFRASTRUCTURE DEVELOPMENT**

INSTITUTION		
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION		
STANDY ERF/ PLOT DESCRIPTION		
ERF 2118		
SERVICE		
FLEUR PRIMARY SCHOOL		
BLOCK NAME	SITE/ BUILDING DESCRIPTION	BON.
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CIVILS		3
DISCIPLINE - SUB-DIVISION		
POTABLE WATER SUPPLY		
DRAWING DESCRIPTION		
POTABLE WATER DETAIL 2		

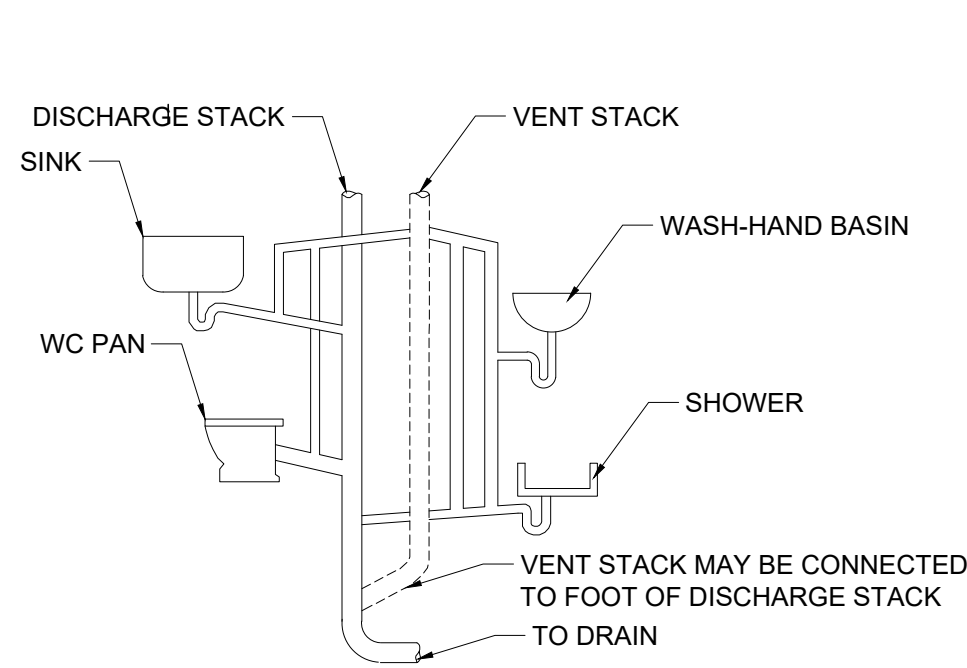
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EMIS No.	As Shown	SCALE
DRAWN	M.E.C.	DESIGN

RESPONSIBLE PROFESSIONAL - DESIGN		
DATE	NAME & SURNAME	SIGNATURE
2022.02.17	WILLIAM	
RESPONSIBLE PROFESSIONAL - CO-ORDINATION		
2022.02.17	PEDZSAI	2018004

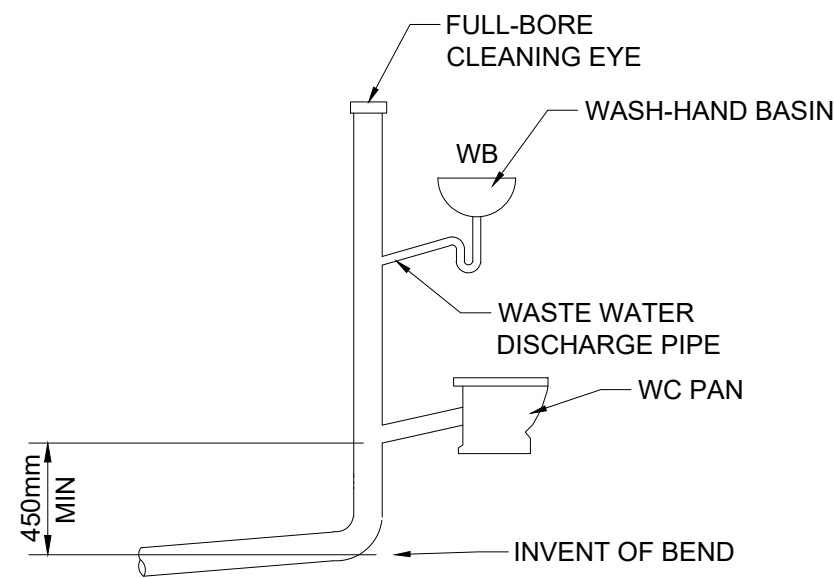
PROFESSIONAL SERVICE PROVIDER (PSP):		
Name:	Inkaba Architecture & Design CC	
Address:	Unit 11/16 Cotton Drive, 116 Model Street, New Muckleneuk, Brooklyn, Pretoria, 001	
Tel:	+27 82 345 0158	
MAIN CONTRACTOR:		
Name:		
Address:		
Tel:		

CAD SYSTEM	AutoCAD 2020	A001	FILE NAME
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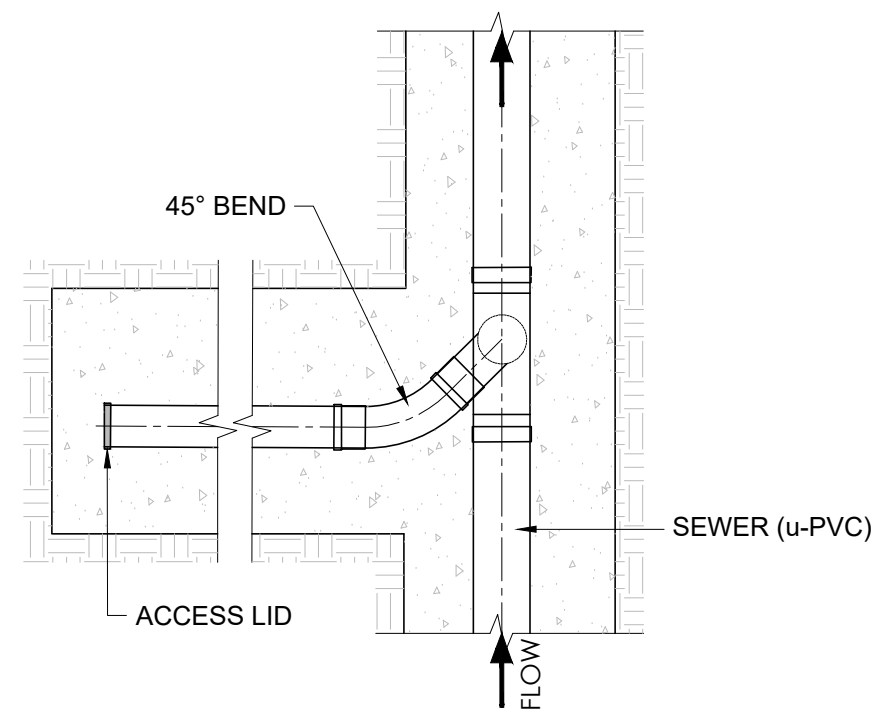
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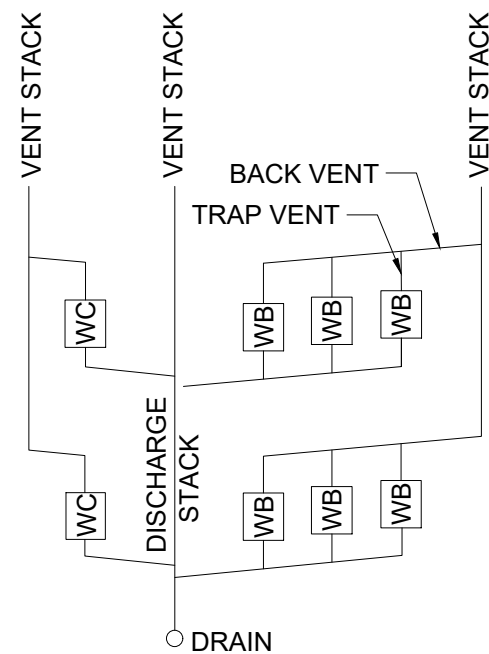
DRAINAGE INSTALLATION DETAIL 1:  
GROUP OF SANITY FIXTURES  
NTS



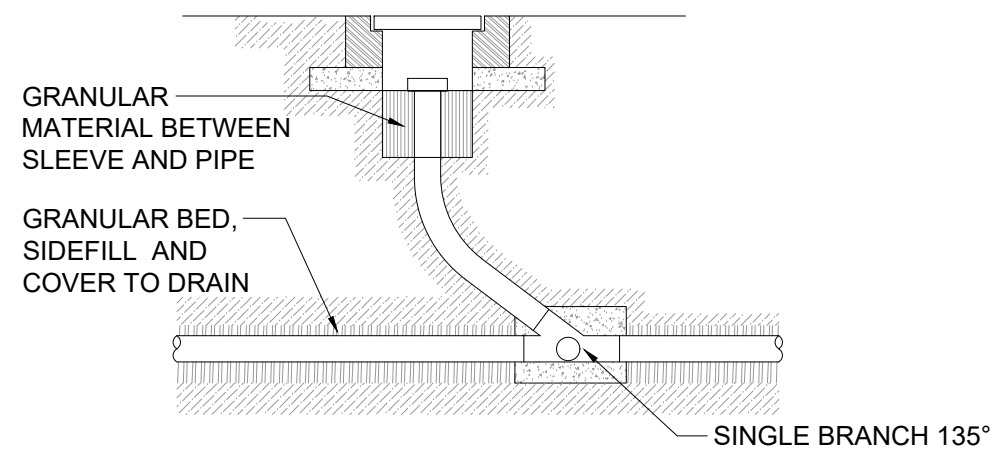
DRAINAGE INSTALLATION DETAIL 5:  
CONNECTION OF FIXTURES TO STUB STACKS  
NTS



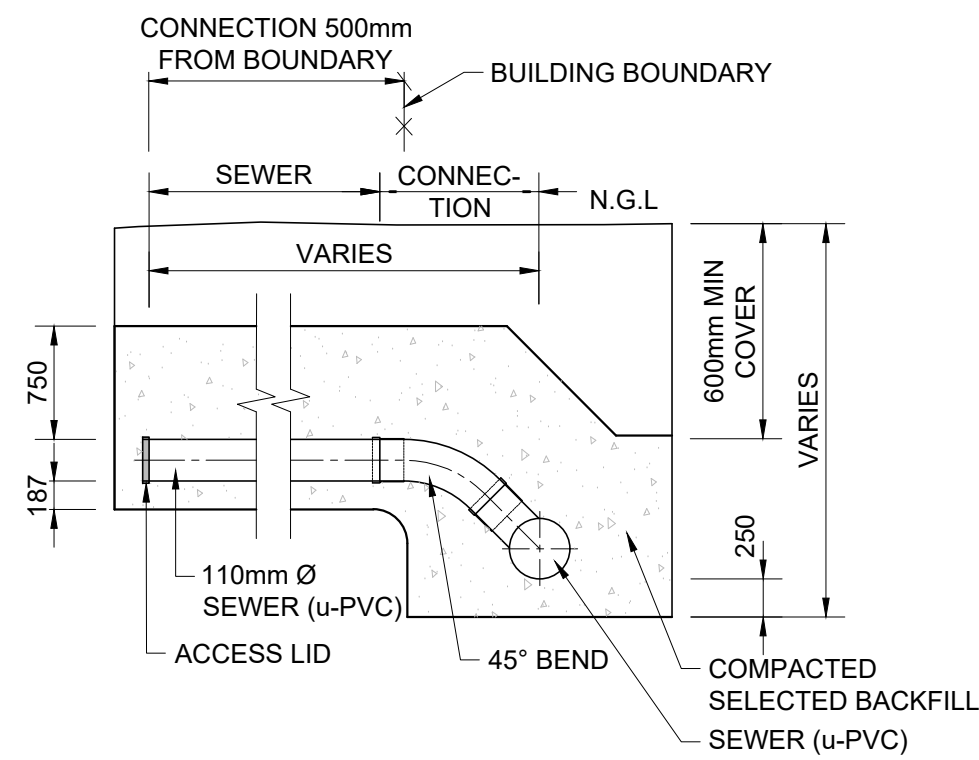
DRAINAGE INSTALLATION DETAIL 8:  
BUILDING CONNECTION - PLAN  
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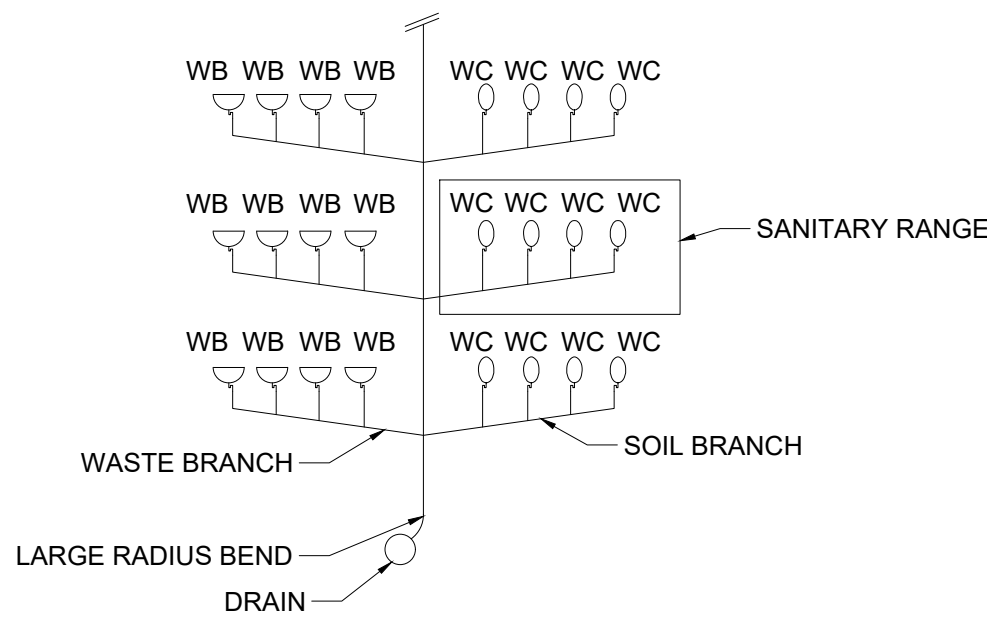
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RANGES OF SANITY FIXTURES  
NTS



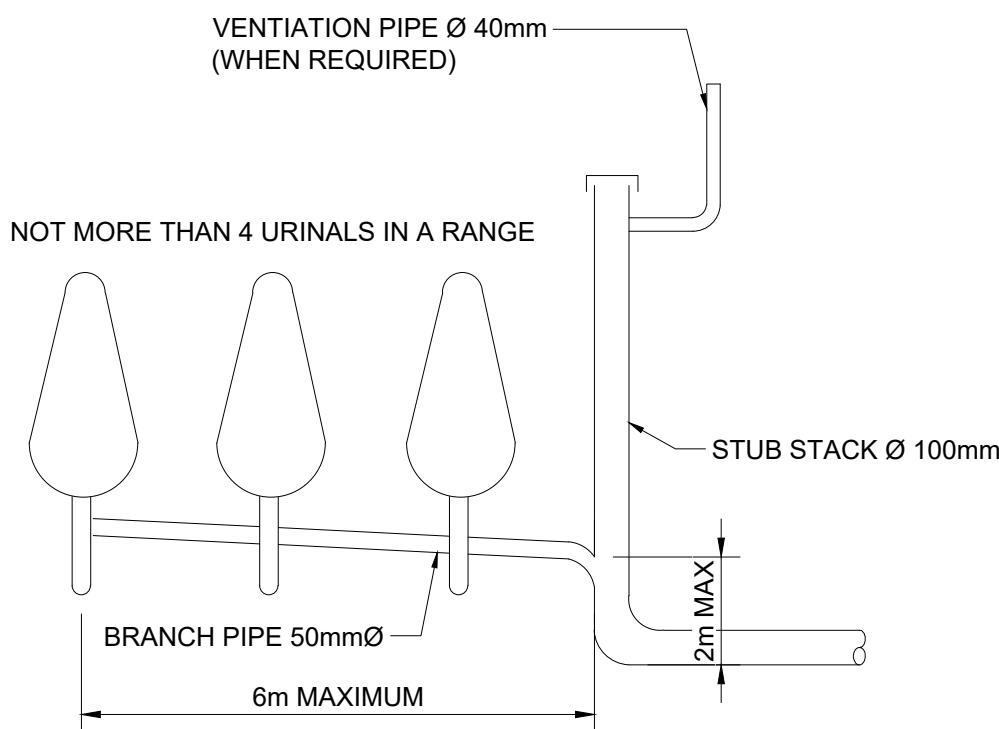
DRAINAGE INSTALLATION DETAIL 6:  
RODDING EYE ONLY SUBJECTED TO LIGHT  
PEDESTRIAN TRAFFIC  
NTS



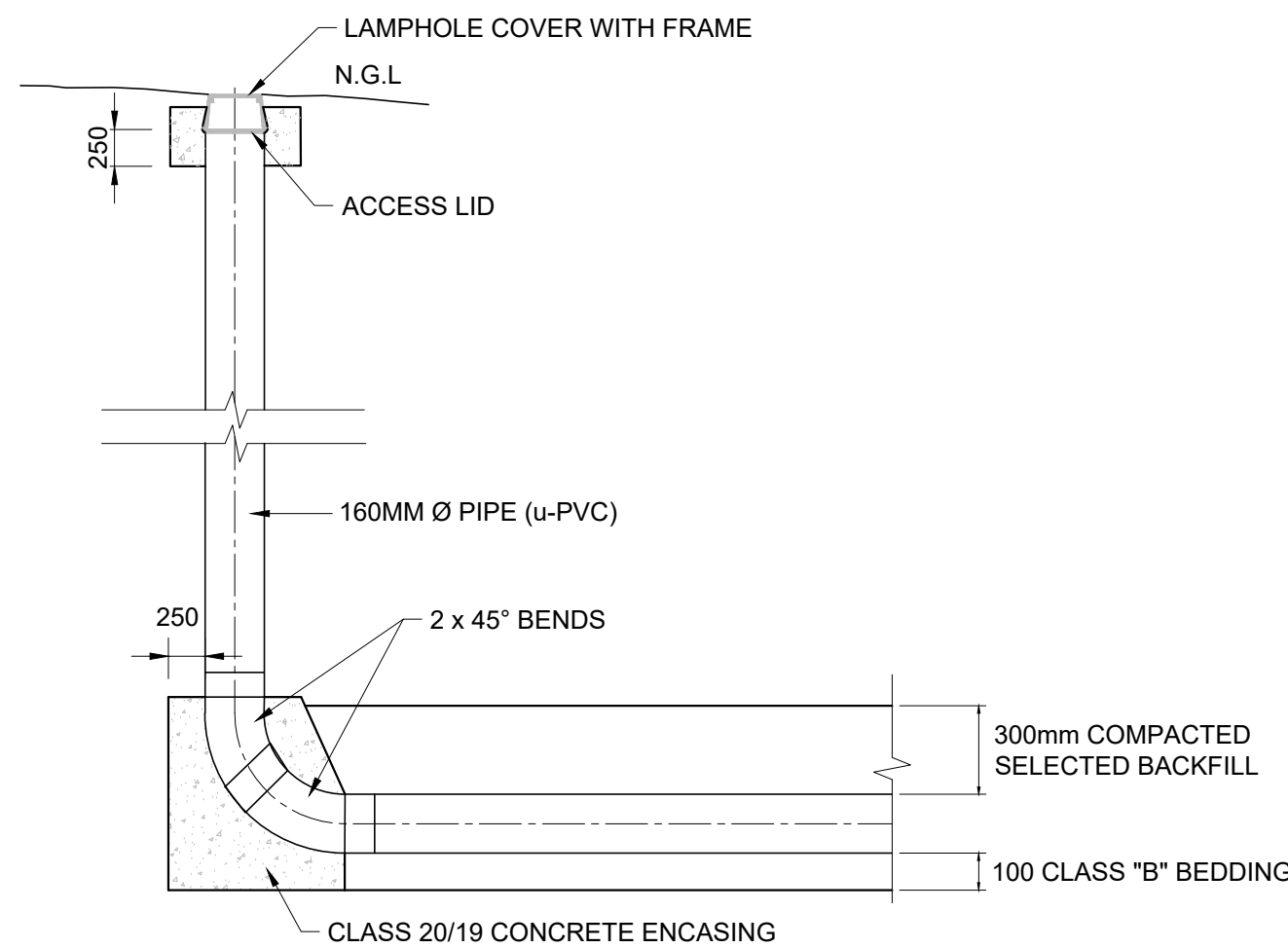
DRAINAGE INSTALLATION DETAIL 8:  
BUILDING CONNECTION - SECTION  
NTS



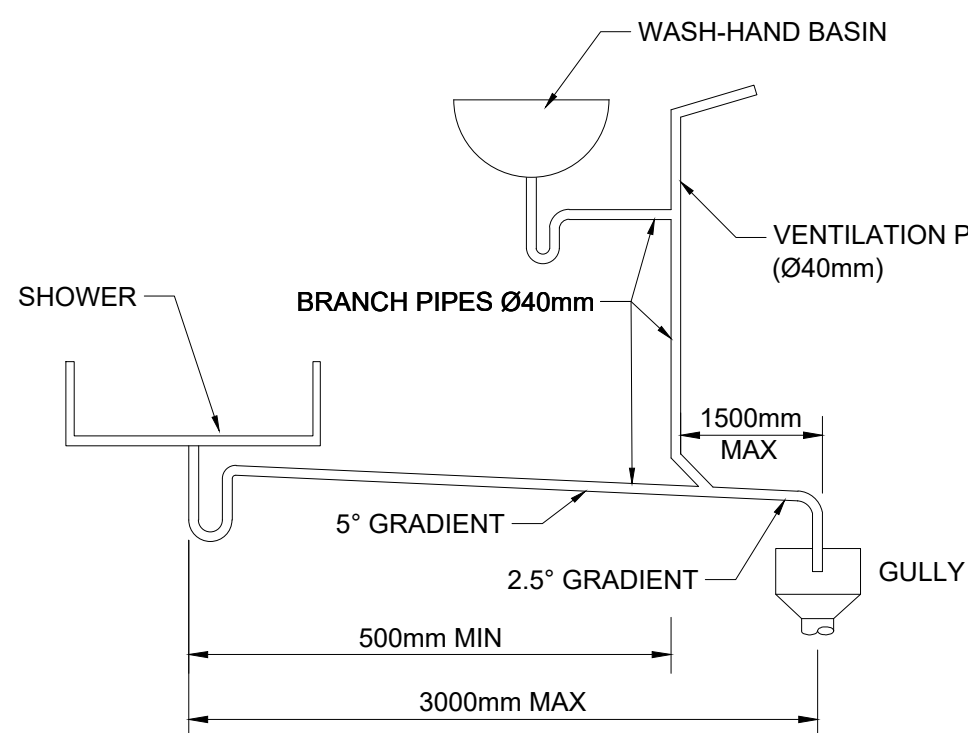
DRAINAGE INSTALLATION DETAIL 3:  
RANGES OF SANITY FIXTURES IN A COMMERCIAL  
TYPE BUILDING  
NTS



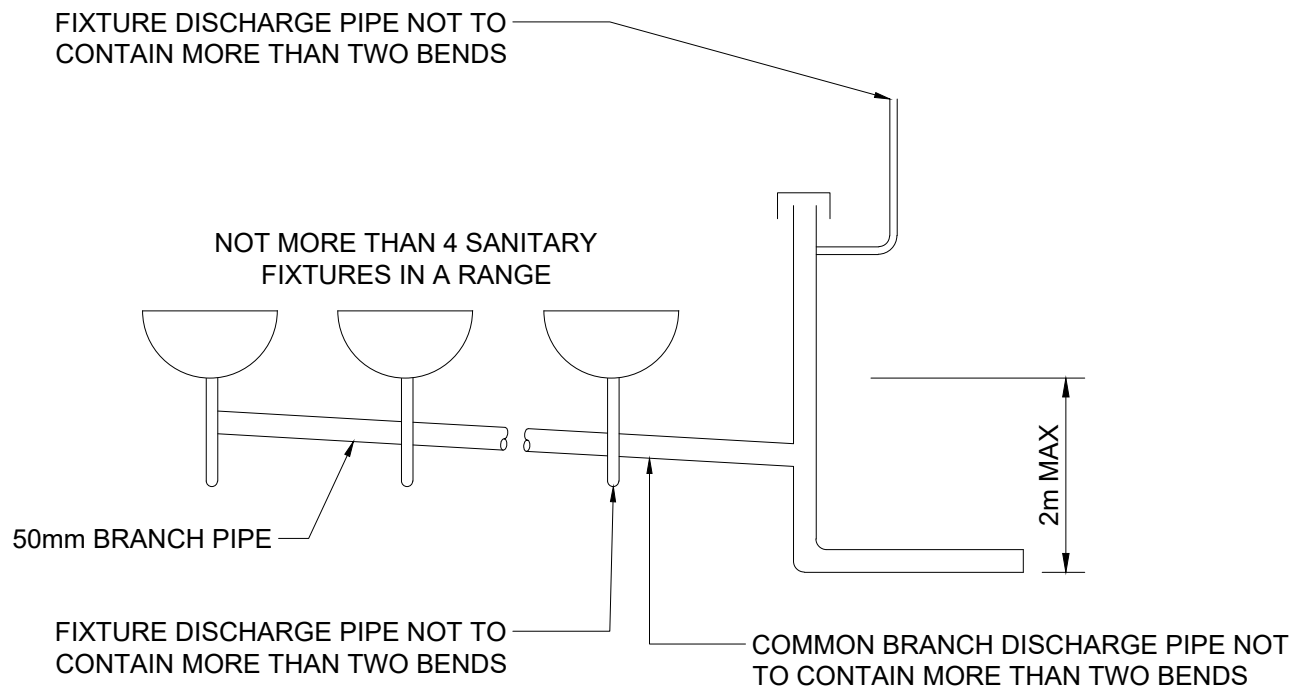
DRAINAGE INSTALLATION DETAIL 7:  
URINAL BRANCH DISCHARGING TO A STUB STACK  
NTS



DRAINAGE INSTALLATION DETAIL 9:  
CLEANING EYE DETAIL  
NTS



DRAINAGE INSTALLATION DETAIL 4:  
COMBINED BRANCH DISCHARGE PIPE ARRANGEMENT  
FOR A SHOWER AND WASH-HAND BASIN  
NTS



DRAINAGE INSTALLATION DETAIL 7:  
URINAL BRANCH DISCHARGING TO A STUB STACK  
NTS

1. INSTALLATION TO BE STRICTLY IN ACCORDANCE WITH SANS 10400, 10252 - PART 2 AND SANS 1200
2. MINIMUM COVER FOR MAIN SEWER IS 1 000mm.
3. PIPES AND FITTINGS TO BE CLASS 34 u-PVC.

ACCEPTED BY DID

GENERAL NOTES:

REV No DATE DESCRIPTION

A 17.02.22 Issued for Approval only

SIZE ON ORIGINAL DRAWING 100 mm

REVISIONS

FILE No. SCHOOL CLUSTER

ERF 2118

FLEUR PRIMARY SCHOOL

DISCIPLINE STAGE

CIVILS 3

SEWER SUPPLY - SHEET 2

DRAWING DESCRIPTION

DRAINAGE CONNECTION DETAIL

DATE DATE DATE

WILLIAM MOHELD

2022.02.22

2022.02.22

PROFESSIONAL SERVICE PROVIDER (PSP)

Name: Brodie Architecture & Design CC

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Address: Tel:

CAD SYSTEM AutoCAD 2020

FILE NAME A001

DRAWING NUMBER

REV

A1 GDETS20S006-01-CIV-SWR-108

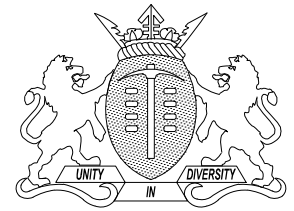
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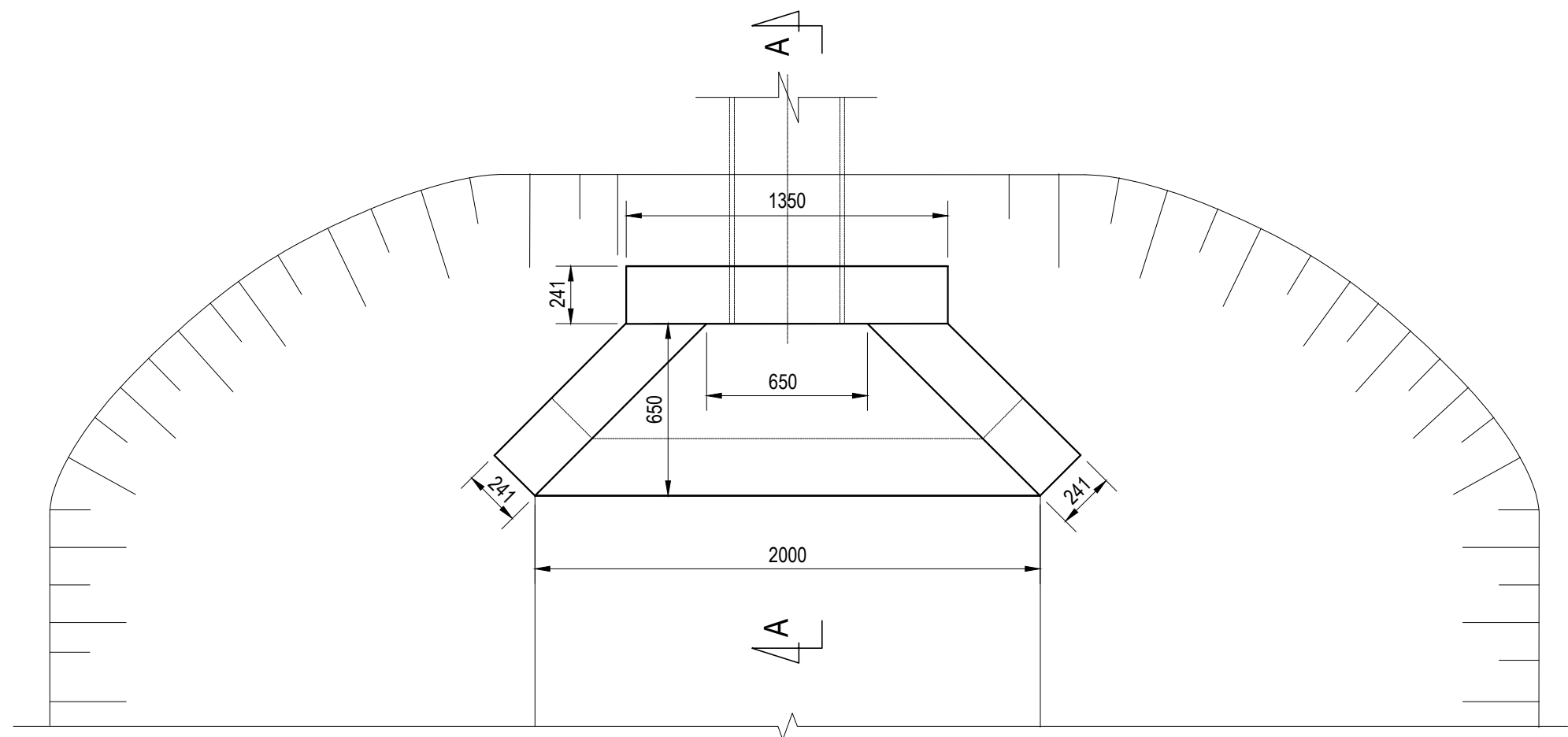
CLEAN WATER CHANNELS SETTING OUT POINTS		
POINT	Y COORDINATE	X COORDINATE
CW1	79 227.082	2 857 146.140
CW2	79 240.202	2 857 110.715
CW3	79 253.308	2 857 075.330
CW4	79 254.271	2 857 075.031
CW5	79 309.583	2 857 095.590
CW6	79 301.552	2 857 133.518
CW7	79 310.061	2 857 092.871
CW8	79 288.151	2 857 084.718
CW9	79 287.796	2 857 083.895
CW10	79 298.992	2 857 053.808

GENERAL NOTES:

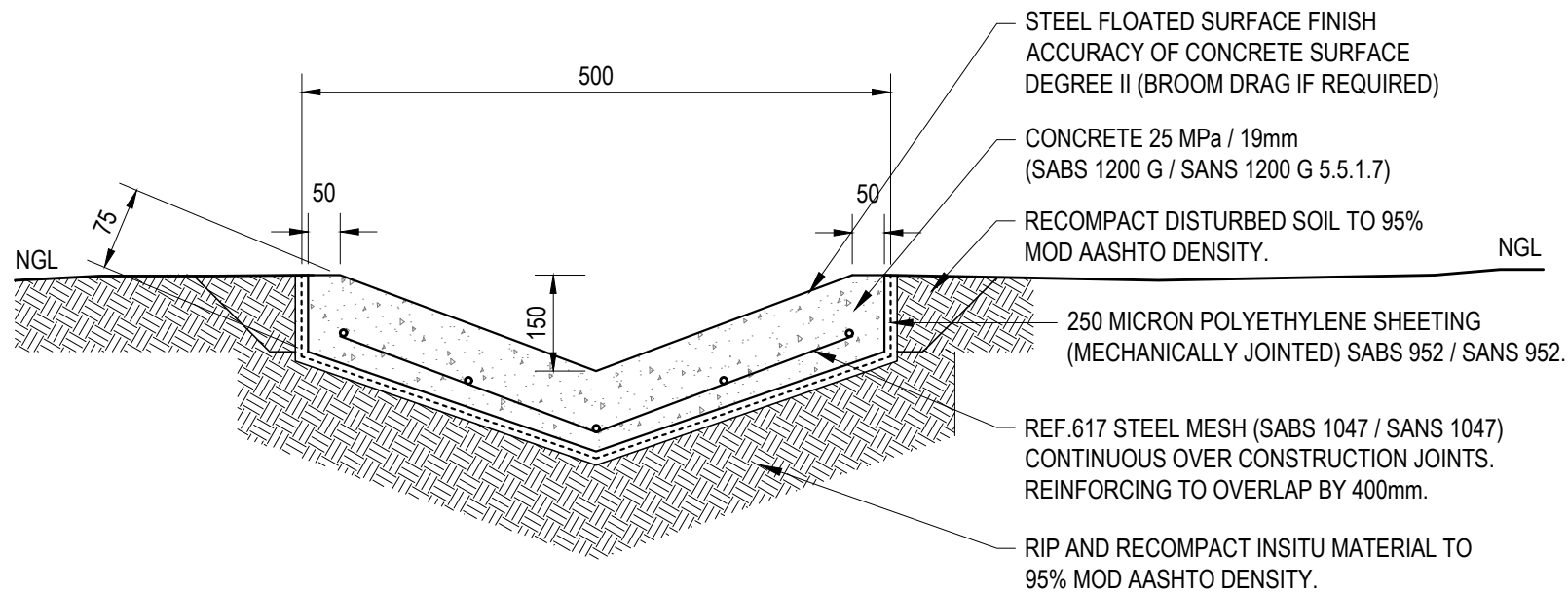
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SIZE ON ORIGINAL DRAWING 100 mm					
REVISIONS					
					
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT					
INSTITUTION					
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION					
STANDY ERF/ PLOT DESCRIPTION					
ERF 2118					
SERVICE					
FLEUR PRIMARY SCHOOL					
BLOCK NAME					
SITE/ BUILDINGS DESCRIPTION					
BOC					
DISCIPLINE					
CIVILS					
STAGE					
3					
DRAWING DESCRIPTION					
DECANTING - ORDINARY CLASSROOM					
DRAWING DESCRIPTION					
STORMWATER LAYOUT					
FILE No.	SCHOOL	CLUSTER			
EMIS No.	As Shown	SCALE			
DRAWN	M.E.C	DESIGN			
DATE	RESPONSIBLE PROFESSIONAL - DESIGN		PR. NUMBER		
2022.02.17	WILLIAM MOHELO	SIGNATURE			
2022.02.17	RESPONSIBLE PROFESSIONAL - CO-ORDINATION				
2022.02.17	FELOSAL NYAMSWINDEZA	SIGNATURE	20180084		
PROFESSIONAL SERVICE PROVIDER (PSP)					
Name: Indelo Architecture & Design CC					
Address: Unit 117B Coffee Dunes, 118 Model Street, Newmarket, Brooklyn, Pretoria, 001					
Tel: +27 82 345 0158					
Name: MAIN CONTRACTOR					
Address: Tel:					
CAD SYSTEM	AutoCAD 2020	A001	FILE NAME		
SHEET SIZE	DRAWING NUMBER		REV		
A1	GDETS20S006-01-CIV-STM-LAY-101		A		

ACCEPTED BY DID

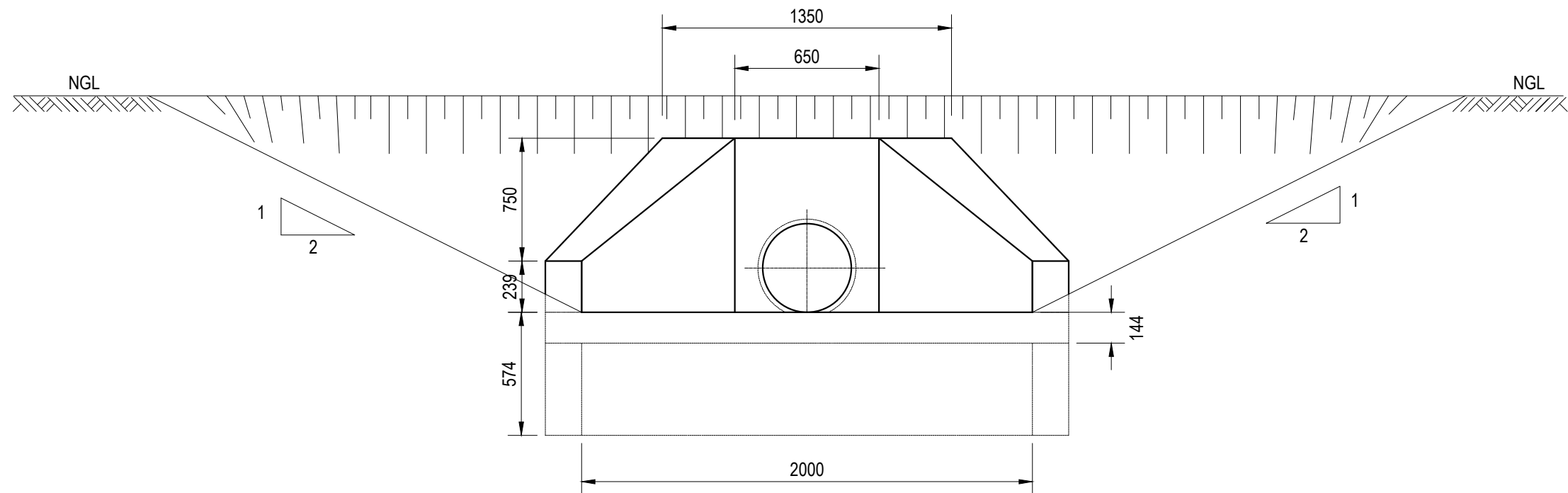




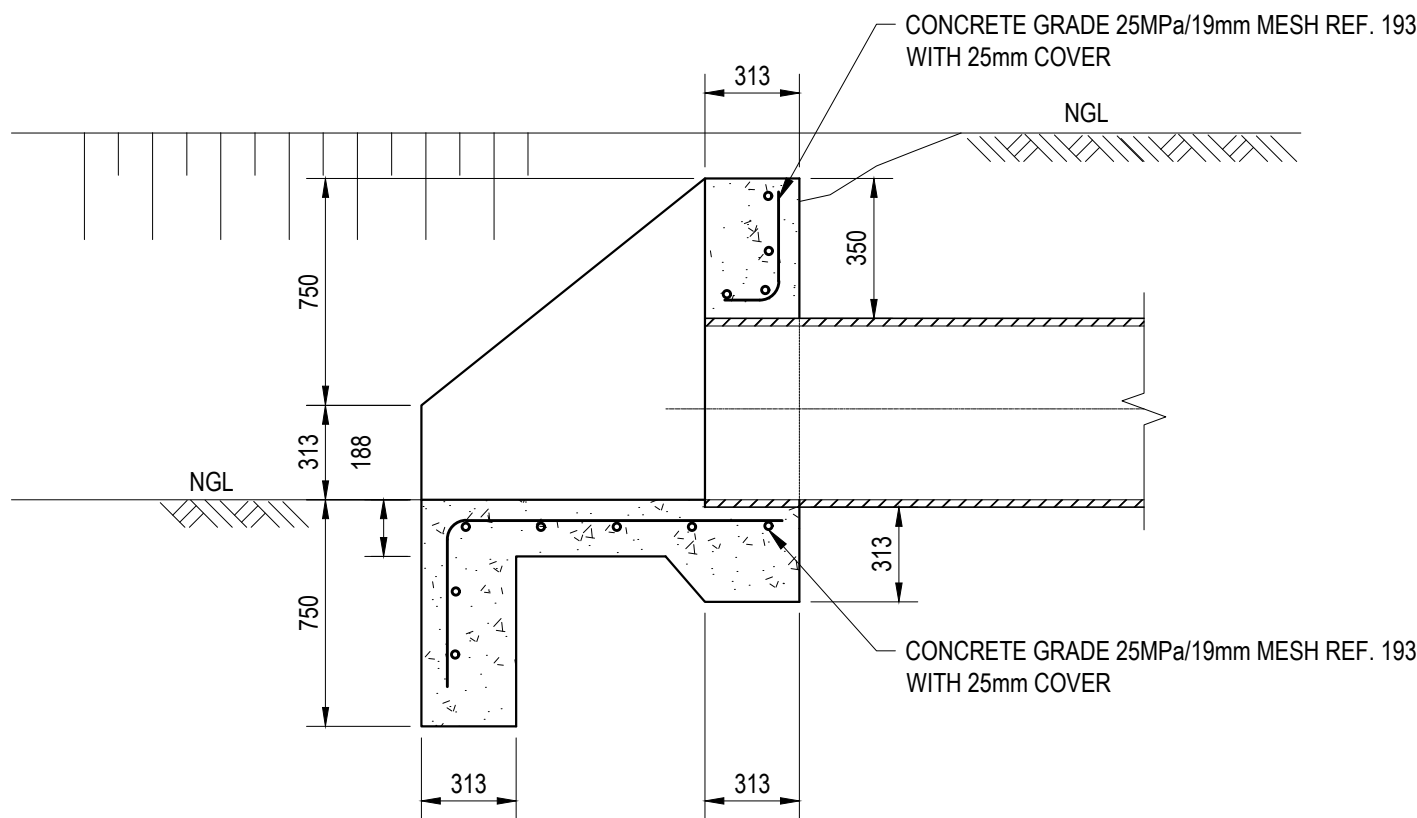
STORMWATER OUTLET STRUCTURE  
SCALE 1: 25



DETAIL 1 - STORMWATER CHANNEL  
N.T.S



FRONT ELEVATION  
SCALE 1: 25



SECTION A - A  
SCALE 1: 25

- NOTE:
1. D - VARIABLE FROM 50mm TO INDICATED MAXIMUM DEPTH.
  2. STEEL REINFORCING TO BE REF. 395 IN AREAS WITH NO VEHICLE TRAFFIC.
  3. EXPANSION JOINT BETWEEN CANAL AND WALL ONLY IF INDICATED.

- NOTE:
1. STEEL FLOATED SURFACE FINISH ACCURACY OF CONCRETE SURFACE DEGREE II (BROOM DRAG IF REQUIRED)
  2. CONCRETE 25 MPa / 19mm (SABS 1200 G / SANS 1200 G 5.5.1.7)
  3. RECOMPACT DISTURBED SOIL TO 95% MOD AASHTO DENSITY.
  4. 250 MICRON POLYETHYLENE SHEETING (MECHANICALLY JOINTED) SABS 952 / SANS 952.
  5. REF. 617 STEEL MESH (SABS 1047 / SANS 1047) CONTINUOUS OVER CONSTRUCTION JOINTS. REINFORCING TO OVERLAP BY 400mm.
  6. RIP AND RECOMPACT INSITU MATERIAL TO 95% MOD AASHTO DENSITY.

CAST IN ALTERNATIVE SECTIONS 1.5m LONG WITH EXPANSION JOINTS AT 18m. SEE STANDARD DETAIL FOR EXPANSION JOINT - TYPE NO DT 04/S

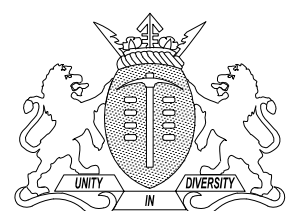
GENERAL NOTES:

17 02 22 Issued for information only

REV No [DATE] DESCRIPTION:

REVISIONS

SIZE ON Drawing: Drawing: 100 mm



DEPARTMENT OF  
INFRASTRUCTURE DEVELOPMENT

INSTITUTION

GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION

STAND/ ERF/ PLOT DESCRIPTION

ERF 2118

SERVICE

FLEUR PRIMARY SCHOOL

BLOCK NAME SITE/ BUILDING DESCRIPTION

DISCIPLINE

CIVILS

STAGE

3

DISCIPLINE - SUB-DIVISION

STORMWATER

DRAWING DESCRIPTION

STORMWATER - CHANNEL DETAILS

FILE No: SCHOOL CLUSTER

EMIS No: As Shown SCALE

DRAWN: M.E.C. DESIGN

DATE: 2022.02.17

RESPONSIBLE PROFESSIONAL - DESIGN

WILLIAM MOKHELO

RESPONSIBLE PROFESSIONAL - CO-ORDINATION

PELODAN NYAMUPHISO

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Name: Indaba Architecture & Design CC

Address: Unit 1178 Clifton Dunes, 118 Midland Street

Name: MAM

Address: Tel: -27 82 345 0158

CONTRACTOR:

NAME: Tel: FILE NAME:

CAD SYSTEM: AutoCAD 2020 A001

SHEET SIZE: DRAWING NUMBER

A1 GDETS20S006-CIV-SWT-102 A

ACCEPTED BY DID





1. GENERAL

1.1.

THESE NOTES SERVE AS AN ADDITION TO THE SPECIFICATION IN THE BILL OF QUANTITIES FOR THIS PROJECT. IN THOSE CASES WHERE THE SPECIFICATIONS IN THE BILL OF QUANTITIES DIFFER FROM THESE NOTES, THESE NOTES SHALL TAKE PREFERENCE.

1.2.

THE CONTRACTOR SHALL ALLOW FOR ALL STANDARDS / SPECIFICATIONS WHICH ARE REFERRED TO IN THESE NOTES AND WHICH ARE APPLICABLE ON THE SITE.

1.3.

THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS OF THE ARCHITECT.

1.4.

DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BOTH THE ENGINEER AND THE ARCHITECT BEFORE WORK IS COMMENCED.

1.5.

THE DRAWINGS SHALL NOT BE SCALED, AND ONLY WRITTEN DIMENSIONS MAY BE USED. LARGE-SCALE DETAILS WILL TAKE PREFERENCE OVER SMALL SCALE.

1.6.

ALL SETTING OUT DIMENSIONS SHALL BE CHECKED ON SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE CORRECT SETTING OUT OF ALL DIMENSIONS, LEVELS AND HEIGHTS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR THE VERIFICATION OF ALL DISTANCES FROM BOUNDARIES & BUILDING LINES.

1.7.

BUILDING TOLERANCES WITH RESPECT TO CONCRETE WORK WITH SABS 1200 G (SUB CLAUSE 6.2.3) WITH A GRADE II DEGREE OF ACCURACY, UNLESS SHOWN OTHERWISE.

1.8.

FORMWORK TO BE RIGIDLY CONSTRUCTED TO THE EXACT DIMENSIONS OF CONCRETE MEMBERS.

1.9.

REFER TO LOADING CODE FOR ALL SUPERIMPOSED DESIGN LOADS FOR SUSPENDED SLABS. THESE IMPOSED FLOOR LOADS MAY NOT BE EXCEEDED AT ANY STAGE OF CONSTRUCTION WITHOUT ADDITIONAL SUPPORT PROPPING.

1.10.

EXPANSION JOINTS IN ALL STRUCTURAL ELEMENTS TO BE CONSTRUCTED IN ALL BRICKWORK, FINISHES AND SCREEDS.

1.11.

ALL MATERIAL & WORKMANSHIP MUST COMPLY WITH THE LATEST REVISED EDITIONS OF THE APPLICABLE SABS SPECIFICATIONS & CODES OF PRACTICE AND IN PARTICULAR WITH THE FOLLOWING STANDARD SPECIFICATIONS:

1.10.1.

SANS 2001-CC2 CONCRETE WORKS (MINOR WORKS);

1.10.2.

SANS 2001-CC1 CONCRETE WORKS (STRUCTURAL);

1.10.3.

SANS 2001-CM1 MASONRY WALLING;

1.10.4.

SANS 10120 HB 1-5: CLADDING AND SHEETING;

1.10.5.

SANS 2001-CS1 STRUCTURAL STEELWORK;

1.10.6.

THE MINIMUM STANDARDS FOR STANDARD PRELIMINARIES (JBCC) OR APPLICABLE CONTRACT;

1.10.7.

THE PROJECT SPECIFICATIONS OR BILL OF QUANTITIES WHERE APPLICABLE.

1.11.

WHERE THESE NOTES DIFFER FROM SANS 1200, THESE NOTES SHALL TAKE PREFERENCE.

1.12.

THE CONTRACTOR MUST ENSURE THAT ALL EMBEDDED ITEMS FOR SERVICES HAVE BEEN PROVIDED FOR AND POSITIONED, ACCORDING TO THE LATEST DRAWINGS OF ALL DISCIPLINES BEFORE CASTING CONCRETE.

1.12.2.

NATIONAL BUILDING REGULATIONS (NBRI);

1.12.3.

NHBRC - HOME BUILDING MANUAL AND GUIDE;

1.12.4.

LOCAL MUNICIPAL AUTHORITY;

1.12.5.

ALL OTHER RELEVANT AUTHORITIES.

1.13.

IN THE EVENT OF CONFLICT BETWEEN THE VARIOUS DOCUMENTS, THE ONE LISTED HIGHEST IN THE LIST BELOW, SHALL TAKE PRECEDENCE:

1.13.1.

VARIATION ORDERS / SITE INSTRUCTIONS

1.13.2.

ENGINEER'S DETAILED DRAWINGS

1.13.3.

PROJECT SPECIFICATIONS

1.13.4.

SANS 2001 SPECIFICATIONS

1.13.5.

BILL OF QUANTITIES

1.14.

IF THERE IS ANY AMBIGUITY, THE ONUS SHALL REST ON THE CONTRACTOR TO INFORM THE ENGINEER IMMEDIATELY.

1.15.

ONLY THE LATEST CONSTRUCTION DRAWINGS ISSUED AS ENGINEERS INSTRUCTION AND "AUTHORISED FOR CONSTRUCTION" MAY BE USED FOR THE CONSTRUCTION OF THE WORKS. ALL SUPERSEDED & OTHER DRAWINGS MUST BE REMOVED FROM SITE.

1.16.

THE DESIGN & DETAILS ON THESE DRAWINGS SHALL REMAIN THE PROPERTY OF KONDO GROUP. COPYRIGHT & RIGHT OF REPRODUCTION THEREFORE ARE FULLY RESERVED BY KONDO GROUP.

2. EARTHWORKS AND FOUNDATIONS

2.1.

ALL EARTHWORKS ARE TO BE DONE ACCORDING TO SABS 1200D.

2.2.

THE MINIMUM REQUIRED SOIL BEARING CAPACITY UNDERNEATH FOUNDATIONS SHALL BE 150kPa

2.3.

ALL EXCAVATIONS ARE TO BE INSPECTED AND APPROVED IN WRITING BY THE GEOTECHNICAL ENGINEER BEFORE THE BLINDING OR FOUNDATION IS BEING CAST.

2.4.

NO CONCRETE MAY BE CAST WITHOUT THE PRIOR WRITTEN APPROVAL OF THE EXCAVATIONS AND THE REINFORCEMENT BY THE ENGINEER.

2.5.

OVER-EXCAVATED PORTIONS ARE TO BE FILLED WITH MASS CONCRETE (15MPa/19mm) AT THE CONTRACTOR'S EXPENSE.

2.6.

A 50mm THICK BLINDING LAYER OF 15 MPa / 19 mm CONCRETE SHALL BE CAST UNDER ALL FOUNDATIONS.

2.7.

NO BACKFILLING BEHIND RETAINING WALLS IS TO BE DONE BEFORE ALL CONCRETE IN THE CAVITY HAS REACHED A 14 DAY STRENGTH.

2.8.

NO HORIZONTAL JOINTS ALLOWED IN FOUNDATIONS WITHOUT ENGINEERS APPROVAL.

2.9.

THE FOUNDATIONS CAN BE PLACED AT DEPTHS OF BETWEEN 0,6m AND 0,9m BELOW CURRENT GROUND LEVEL ON DENSE SAND, GRAVEL, FERRICRETE OR WEATHERED ROCK UTILISING A MINIMUM BEARING PRESSURE OF 150 kPa.

2.10.

WHERE THERE IS DOUBT A HAND HELD DYNAMIC CONE PENETROMETER (D.C.P.) TEST SHOULD BE CARRIED OUT.

2.11.

ALL UNSUITABLE MATERIAL TO BE REPLACED BY COMPETENT TESTED ENGINEERED FILL BELOW AND AROUND THE FOUNDATIONS AND SURFACE BED.

2.12.

WHERE OVER-EXCAVATION AND REPLACEMENT OF MATERIAL IS CARRIED OUT THEN IT IS SUGGESTED THAT 3% CEMENT BE ADDED TO HELP STIFFEN THE SOIL.

3. STRUCTURAL CONCRETE:

3.1.

ALL CONCRETE WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SABS 1200 G SERIES, SANS10100 AND THE NATIONAL BUILDING REGULATIONS UNLESS OTHERWISE NOTED (UON) ON THE DRAWINGS.

3.2.

REFER TO SPECIFICATIONS, NOTES ON DRAWINGS OR ARCHITECT'S REQUIREMENTS FOR FINISH TO ALL CONCRETE ELEMENTS.

3.3.

THE CONTRACTOR TO ENSURE THAT ALL SERVICES PENETRATIONS AND EMBEDDED ITEMS ARE PROVIDED AND POSITIONED IN ACCORDANCE WITH THE LATEST APPLICABLE CONSULTANTS DRAWINGS.

3.4.

CONCRETE STRENGTH

STRUCTURAL ELEMENT

28 DAY STRENGTH (MPa)

BLINDING /MASS CONCRETE

≥15MPa

BEAMS

≥30MPa

SLABS

≥30MPa

COLUMNS

≥30MPa

FOUNDATIONS -RAFT

≥30MPa

STAIRS

≥30MPa

3.5.

THE CONCRETE MIX DESIGN FOR EACH GRADE MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CONCRETE BEING POURED. TARGET CUBE STRENGTH FOR GRADE 10/19 IS 13MPa. TARGET CUBE STRENGTH FOR GRADE 30/19 IS 38MPa.

3.6.

THE CONTRACTOR SHALL ENSURE THAT ALL REINFORCEMENT IS PROPERLY HELD IN POSITION AND SHALL ALSO MAINTAIN THE CORRECT CONCRETE COVER UTILIZING APPROVED SPACERS (NOT STONES, OFF-CUT REINFORCEMENT, ETC.) AT ALL TIMES.

3.7.

COVER STRUCTURAL ELEMENT(mm)

SLABS

≥TOP 25mm & BOT ≥25mm

BEAMS

≥25mm (STIRRUPS)

WALLS

≥30mm

FOUNDATIONS

≥50mm

STAIRS

≥25mm

3.8.

ALL CONCRETE SHALL BE MECHANICALLY COMPACTED THROUGH THE USE OF VIBRATORS.

3.9.

CONCRETE SHALL BE CAST CONTINUOUSLY. IF STOPPAGES OF MORE THAN 40 MINUTES ARE UNAVOIDABLE, CONSTRUCTION JOINTS SHALL BE FORMED IN THE POSITIONS AND ACCORDING TO THE DETAILS PROVIDED BY THE ENGINEER.

3.10.

CONCRETE SLUMP FOR STANDARD CONCRETE SHALL BE HELD AT LESS THAN OR EQUAL TO 100MM.

3.10.

STRENGTH TESTING FOR CONCRETE:

3.10.1.

PREPARATION OF CUBES FOR STRENGTH TESTS IS REQUIRED FOR ALL STRUCTURAL CONCRETE.

3.10.2.

A TEST SET IS DEFINED AS 6 CUBES:

3.10.2.1.

3 CUBES FOR A 7 DAY TEST;

3.10.2.2.

3 CUBES FOR A 28 DAY TEST.

3.10.3.

THE MINIMUM RECOMMENDED QUANTITIES ARE:

3.10.3.1.

UP TO 4m³ - 1 TEST SET;

3.10.3.2.

4m³ TO 15m³ - 2 TEST SETS;

3.10.3.3.

15m³ TO 30m³ - 3 TEST SETS;

3.10.3.4.

EVERY 40m³ THEREAFTER - 1 TEST SET.

3.10.4.

ACCURATE RECORDS OF THESE TESTS MUST BE KEPT CLEARLY IDENTIFYING SPECIFIC CUBES WITH SPECIFIC ELEMENTS. COPIES OF THESE RECORDS SHOULD BE FORWARDED TO THE ENGINEER.

3.10.5.

MIXING, TRANSPORT AND PLACEMENT OF CONCRETE SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS. SANS 10100-2

3.11.

STRIPPING OF FORMWORK:

3.11.1.

FORMWORK SHALL REMAIN IN PLACE UNTIL THE CONCRETE HAS REACHED AT LEAST THE STRENGTH NECESSARY TO PREVENT PLUCKING OF THE SURFACE DURING REMOVAL OF THE FORMWORK & TO SUPPORT ITS OWN WEIGHT & ANY LOADS THAT MAY BE IMPOSED ON IT.

3.11.2.

DUE REGARD SHALL BE GIVEN TO CURING METHODS TO BE EMPLOYED BEFORE FORMWORK IS REMOVED.

3.11.3.

FORMWORK SHALL BE REMOVED CAREFULLY SO THAT SHOCK & DAMAGE TO THE CONCRETE ARE AVOIDED.

3.11.4.

THE QUALITY OF FORMWORK SHALL BE SUCH THAT THE FINISHED SURFACE OF THE CONCRETE IS AS SHOWN ON THE DRAWINGS.

3.11.5.

FORMS MAY NOT BE REMOVED WITHIN PERIODS SHORTER THAN SPECIFIED IN SABS1200G.

3.11.

ALL STRUCTURAL CONCRETE SHALL BE CONTINUOUSLY CURED FOR AT LEAST 7 DAYS USING METHODS APPROVED BY THE ENGINEER.

3.12.

FINISHED FLOOR SLAB TOLERANCE TO BE WITHIN SANS 1200G CLASS II UON.

3.12.1.

ALL TILED AREAS ARE TO HAVE SOFT JOINTS IN SCREED ON PERIMETER AND INTERNALLY AT 3000 c/c UON

3.12.2.

DOWEL BARS TO BE LEVEL, STRAIGHT AND AT 90° ANGLE TO JOINTS WITH SMOOTH ENDS.

4. ALL CASTING PROCEDURES, CONSTRUCTION METHODS AND POSITIONS OF CONSTRUCTION JOINTS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE PROJECT.

4.1.

ALL COLUMNS CENTERED ON GRIDLINES UON.

4.1.1.

ALL EXPOSED CONCRETE EDGES TO HAVE 20x20 CHAMFERS UON.

4.1.2.

CASTING OF CONCRETE ABOVE 3.5m HIGH IS NOT ALLOWED WITHOUT ENGINEER'S APPROVAL.

4.1.3.

THE TOP OF ALL THE VERTICAL CONCRETE ELEMENTS THAT SUPPORT OTHER CONCRETE ELEMENTS TO BE CHIPPED AND CLEANED TO EXPOSE AGGREGATE BEFORE CASTING OF CONCRETE.

4.2.

SUSPENDED SLABS / BEAMS

4.2.1.

THE CONTRACTOR TO ALLOW FOR ADEQUATE PROPPING OF SLAB BEING CAST.

4.2.2.

ALL CONSTRUCTION JOINT POSITIONS IN SLAB / BEAMS TO BE APPROVED BY THE ENGINEER.

4.2.3.

ALL EXPANSION / BUTT / CONSTRUCTION JOINTS TO TYPICAL DETAILS.

4.3.

THE FOLLOWING CAMBERS ARE TO BE PROVIDED UNLESS OTHERWISE SHOWN:

4.3.1.

CANTILEVER BEAMS AND SLABS

≥SPAN / 150

4.3.2.

OTHER BEAMS AND SLABS

≥SPAN / 400

4.4.

CONSTRUCTION JOINTS :

4.4.1.

NO HORIZONTAL JOINTS SHALL BE ALLOWED IN BASES, OR OTHER DEEP ELEMENTS.

4.4.2.

CONSTRUCTION JOINTS ARE TO BE FORMED ACCORDING TO SPECIFICATION.

4.4.3.

ALL PIPES THROUGH JOINTS, SHALL BE PROVIDED WITH AN EXPANSION JOINT OR FLEXIBLE COUPLING - THIS INCLUDES ALL CABLE SLEEVES, CONDUITS AND PIPES.

4.4.4.

NO VERTICAL CONSTRUCTION JOINTS SHALL BE MADE IN ELEMENTS DIRECTLY EXPOSED TO THE WEATHER EXCEPT WHERE INDICATED OTHERWISE.

5. REINFORCEMENT (REBAR):

5.1.

ALL REBAR IS TO BE BENT ACCORDING TO SABS 82/SANS 282.

5.2.

REINFORCING BARS SPECIFIED "Y" SHALL BE 450 MPa [Es=200 GPa] YIELD STRENGTH. REINFORCING BARS SPECIFIED "R" SHALL BE 250 MPa [Es=200 GPa] YIELD STRENGTH. BARS MUST BE CLEAN AND FREE OF LOOSE RUST.

5.3.

REINFORCEMENT INDICATED BY THE SYMBOL Y SHALL DEFORMED HIGH TENSILE STEEL BARS HAVING A CHARACTERISTIC STRENGTH OF 450 MPa.

5.4.

STANDARD WELDED MESH IN ACCORDANCE WITH SABS 1024 IS INDICATED AS E.G. MESH 193.

5.5.

ANCHORS AND INSERTS SHALL BE USED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

5.6.

ALL DOWELLED BARS TO BE A MINIMUM OF 100MM FROM THE EDGE OF THE EXISTING CONCRETE.

5.7.

NO WELDING OF REINFORCING BARS IS PERMITTED.

5.8.

ALL TOP STEEL REBAR MATS FOR SLABS TO HOOK OVER THE TOP OF THE MAIN STEEL REBAR IN THE BEAMS.

5.9.

POSITION FIRST STIRRUP 25mm FROM THE FACE OF THE COLUMN.

5.10.

IF CODE 72 STIRRUPS ARE SPECIFIED, THEN THE FIRST BEAM STIRRUP FROM THE COLUMN MUST ALWAYS BE CLOSED WITH A CLIP.

5.11.

SLAB REINFORCING: PROVIDE STOOLS TO MAINTAIN THE CORRECT SPACING BETWEEN TOP AND BOTTOM HORIZONTAL MATS. THESE MAY NOT BE INCLUDED ON THE BENDING SCHEDULE.

5.12.

NO CONCRETE IS TO BE POURED WITHOUT WRITTEN APPROVAL STATING THAT THE REINFORCEMENT HAS BEEN CORRECTLY FIXED.

5.13.

SYMBOLS DENOTING LAYERS OF REINFORCEMENT IN SLABS.

6. STRUCTURAL STEEL

6.1.

SHOP DRAWINGS AND ERECTION METHOD STATEMENT TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION OF ANY STEELWORK.

6.2.

THE ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY WORK THAT DEVIATES FROM THE ENGINEER OR APPROVED SHOP DRAWINGS.

6.3.

BEFORE ANY STRUCTURAL STEELWORK IS MANUFACTURED, ALL INTERFACING CONCRETE WORK IS TO BE SURVEYED TO CONFIRM DIMENSIONS, LEVELS, BOLT POSITIONS ETC. RECTIFICATION OF ANY "LACK OF FIT" DUE TO NON-COMPLIANCE WITH THE ABOVE, WILL BE AT THE COST OF THE CONTRACTOR.

6.4.

WHERE ANY MEMBER SIZES OR DETAILS ON THE WORKSHOP DRAWINGS DEVIATE SUBSTANTIALLY FROM THE DESIGN DRAWINGS, THE CONTRACTOR SHALL INFORM THE ENGINEER EXPLICITLY IN WRITING IN ORDER TO OBTAIN APPROVAL FOR SUCH DEVIATIONS. FAILING TO DO SO WILL RESULT IN NON-PAYMENT OF ANY EXTRA'S.

6.5.

THE DESIGN DRAWINGS DO NOT NORMALLY SHOW CONNECTION DETAILS. ALL CONNECTIONS ARE TO BE FULLY DETAILED ON THE WORKSHOP DRAWINGS AND SUFFICIENT TIME SHOULD BE ALLOWED FOR THE ENGINEER TO APPROVE SUCH CONNECTION DETAILS.

6.6.

IN RECEIVING THE DESIGN DRAWINGS, THE CONTRACTOR MUST ARRANGE A MEETING / WORKSHOP WITH THE ENGINEER TO DISCUSS THE DESIGN, ERECTION METHOD AND CONNECTION DETAILS, AS WELL AS A QUALITY CONTROL METHOD.

6.7.

ALL WELDED AND BOLTED CONNECTIONS TO BE TESTED IN ACCORDANCE WITH SANS OR OTHER APPROVED INSPECTION AGENCY.

6.8.

MEMBERS ARE DESIGNED TO THE REQUIREMENTS OF SANS 10400 AND ALL REFERENCED DESIGN CODES. THE LATEST EDITION OF THE SABS1200 H, STRUCTURAL STEEL WORK, WILL BE APPLICABLE.

6.9.

HOT ROLLED STEELWORK TO BE IN ACCORDANCE WITH EN 10025-2-S355JR. MILL TEST CERTIFICATES TO BE APPROVED.

6.10.

COLD FORMED STEELWORK TO HAVE MINIMUM YIELD STRESS OF 250MPa.

6.11.

BOLTS, NUTS AND WASHERS TO BE GRADE 8.8 UON.

6.12.

WELDS TO BE CONTINUOUS FILLET WELDS (UON) WITH A THROAT THICKNESS NOT EXCEEDING 0.7 TIMES THE THINNER MATERIAL THICKNESS WELDED TO. BUTT WELDS SHALL BE FULL PENETRATION WELDS.

6.13.

ALL GUSSET PLATES TO BE MINIMUM 8mm THICK UON.

6.14.

STEEL FABRICATION AND ERECTION TO COMPLY WITH SANS 1200H AND MAY NOT COMMENCE BEFORE SHOP DRAWINGS AND AN ERECTION METHOD STATEMENT HAVE BEEN APPROVED BY THE ENGINEER.

6.15.

CONNECTION DETAILS TO BE APPROVED BY ENGINEER BEFORE THE SHOP DRAWINGS ARE SUBMITTED FOR APPROVAL.

6.15.1.

MINIMUM EDGE DISTANCE TO BOLTS TO BE 1.75 TIMES THE BOLT DIAMETER UON.

6.15.2.

MINIMUM BOLT SPACING TO BE 2.5 TIMES THE BOLT DIAMETER UON. ALL BOLT HOLES TO BE DRILLED, NOT PUNCHED.

6.16.

ALL BOLTED CONNECTIONS TO HAVE A MINIMUM OF 2 BOLTS UON

6.17.

CONTRACTOR TO ENSURE THE STABILITY AND SAFE ERECTION OF THE STRUCTURE, AND TO PROVIDE ALL NECESSARY BRACING TO ENABLE HIM TO DO SO, SUCH BRACING TO BE INDICATED ON THE ERECTION GENERAL ARRANGEMENT DRAWING.

6.18.

ALL STEELWORK DELIVERED TO THE SITE SHALL BE STACKED ON TIMBER SUPPORT AT LEAST 300mm FROM GROUND LEVEL. TRUSSES SHALL BE STACKED VERTICALLY.

6.19.

FOR FULL PENETRATION FIELD WELDS BACKING PLATES TO BE USED. BACKING PLATES TO BE TACK WELDED TO MEMBER FOR SHIPMENT.

6.20.

FOR FULL PENETRATION SHOP WELDS BACKING OR BACK-UP FILLET WELDS MAY BE USED.

6.21.

SLOTTED HOLES ALLOWING 25mm (12MIN EACH DIRECTION) ADJUSTMENT SHALL BE PROVIDED WHEN ENDS OF STEEL MEMBERS CONNECT INTO CONCRETE OR MASONRY.

6.22.

DRILLED HOLES FOR BOLTED CONNECTIONS TO BE 2mm LARGER THAN BOLT DIAMETER.

6.23.

DRILLED HOLES IN BASE PLATES TO BE 4mm LARGER FOR M10 ANCHOR BOLTS AND SMALLER AND 6mm LARGER FOR M20 BOLTS AND BIGGER.

6.24.

PAINT TO BE OMITTED WITHIN 50mm OF FIELD WELDED CONNECTIONS.

6.25.

ROUGH EDGES SHALL BE GROUND SMOOTH PRIOR TO WELDING PLATES, BRACKETS OR PAINTING.

6.26.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE ENTIRE STRUCTURE AND ALL STRUCTURAL ELEMENTS DURING THE ERECTION STAGES.

6.27.

CONTRACTOR TO SUPPLY ALL BOLTS, WASHERS, NUTS etc.

7. BRICKWORK:

7.1.

MASONRY UNITS SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

7.1.1.

SANS 227: BURNT CLAY MASONRY UNITS

7.1.2.

SANS 285: CALCIUM SILICATE MASONRY UNITS

7.1.3.

SANS 1215: CONCRETE MASONRY BLOCKS

7.2.

BRICKWORK SHALL BE BUILT ACCORDING TO SANS10164 AND SANS10400.

7.3.

ALL LOADBearing BRICKWORK TO BE SET OUT IN ACCORDANCE WITH ARCHITECT DRAWINGS.

7.4.

LOADBEARING BRICKWORK AND/OR RETAINING WALLS:

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CHARACTERISTIC STRENGTH IS 14MPa GROUND FLOOR 7MPa REST OF FLOORS.

7.5.

MORTAR 1:4 MIX CLASS II (MIN 7MPa COMPRESSIVE STRENGTH).

7.6.

CONCRETE INFILL CHARACTERISTIC 28 DAY STRENGTH = 25 MPa.

7.7.

ENGINEER TO CHECK REINFORCING PRIOR TO CASTING CONCRETE.

7.8.

FOR R.W. PIPES AND SPOUTS REFER TO ARCHITECTS DRAWINGS.

7.9.

ALL BRICKWORK BUILT ON SUSPENDED SLABS AND BEAMS, TO BE BUILT UP AFTER REMOVAL OF FORMWORK SUPPORT TO SLABS AND BEAMS.

7.10.

ABOVE MENTIONED BRICKWORK TO BE REINFORCED WITH BRICKFORCE AS FOLLOWS:

7.10.1.

LAYERS PER COURSE FOR ALL COURSES ABOVE AND BELOW WINDOWS/VENTILATION OPENINGS AND ABOVE DOORS

7.10.2.

FIRST 5 COURSES ABOVE ALL FOUNDATIONS.

7.10.3.

EVERY 4<sup>th</sup> COURSE IN ALL BRICKWALLS.

7.10.4.

TOP 5 COURSES OF BRICKWALLS BELOW SLAB SOFFITS FOR ALL LOAD BEARING BRICKWALLS AS WELL AS WALLS SUPPORTING ROOF TRUSSES.

7.11.

CONTRACTOR TO ALLOW FOR AT LEAST A 15mm TOLERANCE BETWEEN SOFFIT OF BEAMS / SLABS AND TIMBER / ALUMINIUM FRAMES AND NON LOAD BEARING BRICKWORK FORMED WITH JOINTEX OR SIMILAR APPROVED.

7.12.

PROVIDE 2 LAYERS OF DPC SLIP SHEET ON TOP OF ALL LOAD BEARING WALLS. TOP OF WALLS TO BE SMOOTH AND LEVEL.

7.13.

PROVIDE JOINTS IN ALL BRICKWALLS AS PER TYPICAL DETAILS AT MAX 5000mm c/c UON. BY ARCHITECT

7.14.

ALL BRICKWORK IN ACCORDANCE WITH SANS CODE OF PRACTICE FOR MASONRY.

7.15.

ALL LINTELS TO BE PROVIDED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7.16.

ALL BRICK ANCHORS, WALL TIES & STRAPS SHALL BE HOT DIPPED GALVANIZED.

7.17.

V-JOINTS ARE TO BE MADE IN PLASTERWORK WHERE BRICKWORK & CONCRETE JOIN.

7.18.

WALL TIES IN CAVITY WALLS & BRICK RETAINING WALLS SHALL BE OF THE VERTICAL TWISTED TYPE AS IN SANS10164 PART 1-1980 OR SIMILAR APPROVED TYPE, PLACED EVERY FOURTH LAYER VERTICALLY (U.N.O) & AT 500 C/C HORIZONTALLY

7.19.

BRICKS TO BE WET BEFORE USE.

7.20.

THE CONTRACTOR IS REFERRED TO THE ARCHITECTS DRAWINGS FOR BRICK FINISHES & DETAILS.

8. STRUCTURAL TIMBER:

8.1.

ALL TIMBER DESIGNS TO BE DONE IN ACCORDANCE WITH THE LATEST SANS CODES FOR TIMBER STRUCTURES AND GENERAL PROCEDURE AND LOADING FOR THE DESIGNS.

8.2.

ALL TIMBER ROOF TRUSSES TO BE MANUFACTURED BY A FABRICATOR WHO IS APPROVED BY THE INSTITUTE OF TIMBER CONSTRUCTION.

8.3.

ALL WORKSHOP DRAWINGS TO BE APPROVED BY THE ENGINEER BEFORE MANUFACTURED.

8.4.

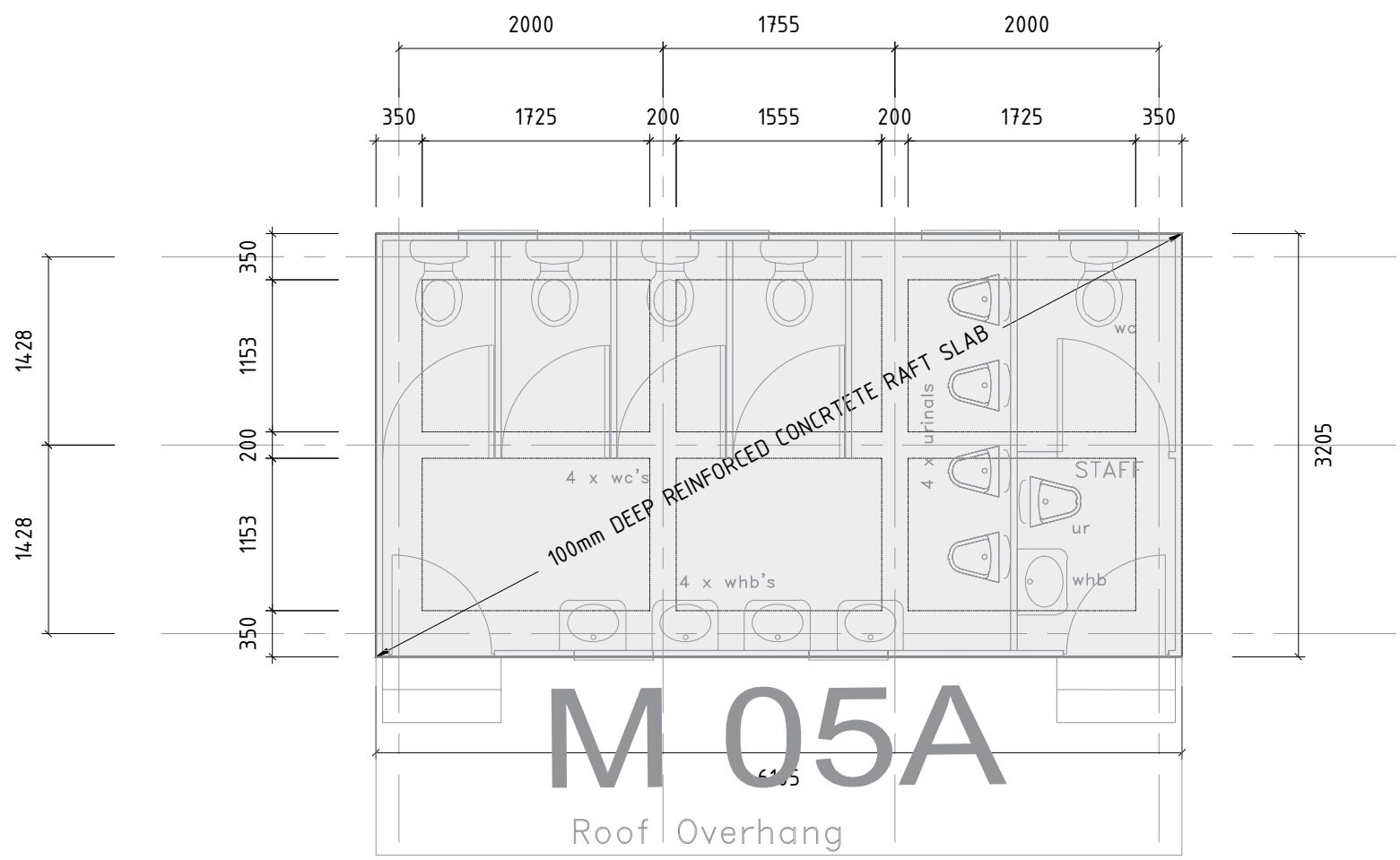
ALL DESIGN LOADS FOR TIMBER STRUCTURES TO BE APPROVED BY THE ENGINEER.

8.5.

CONTRACTOR TO REQUEST STRUCTURAL CERTIFICATE FROM DESIGN AND SUPPLY ROOFING CONTRACTOR OR SPECIALIST.

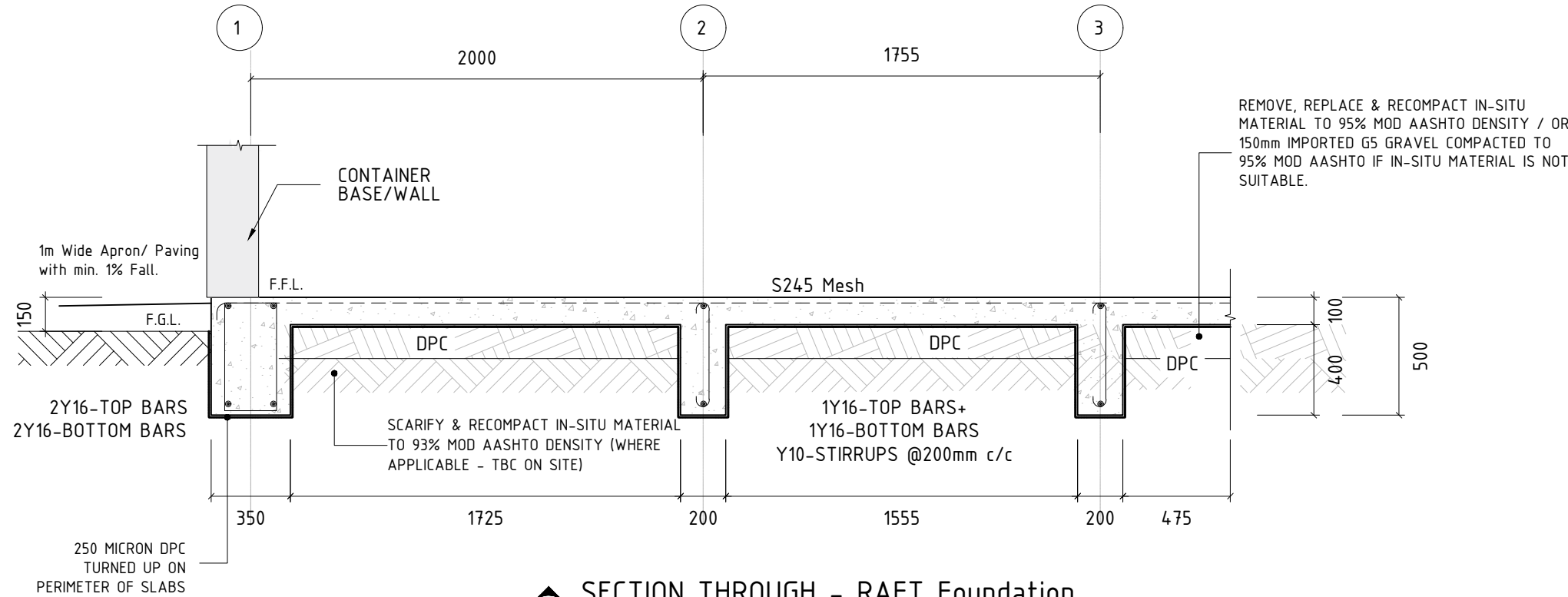






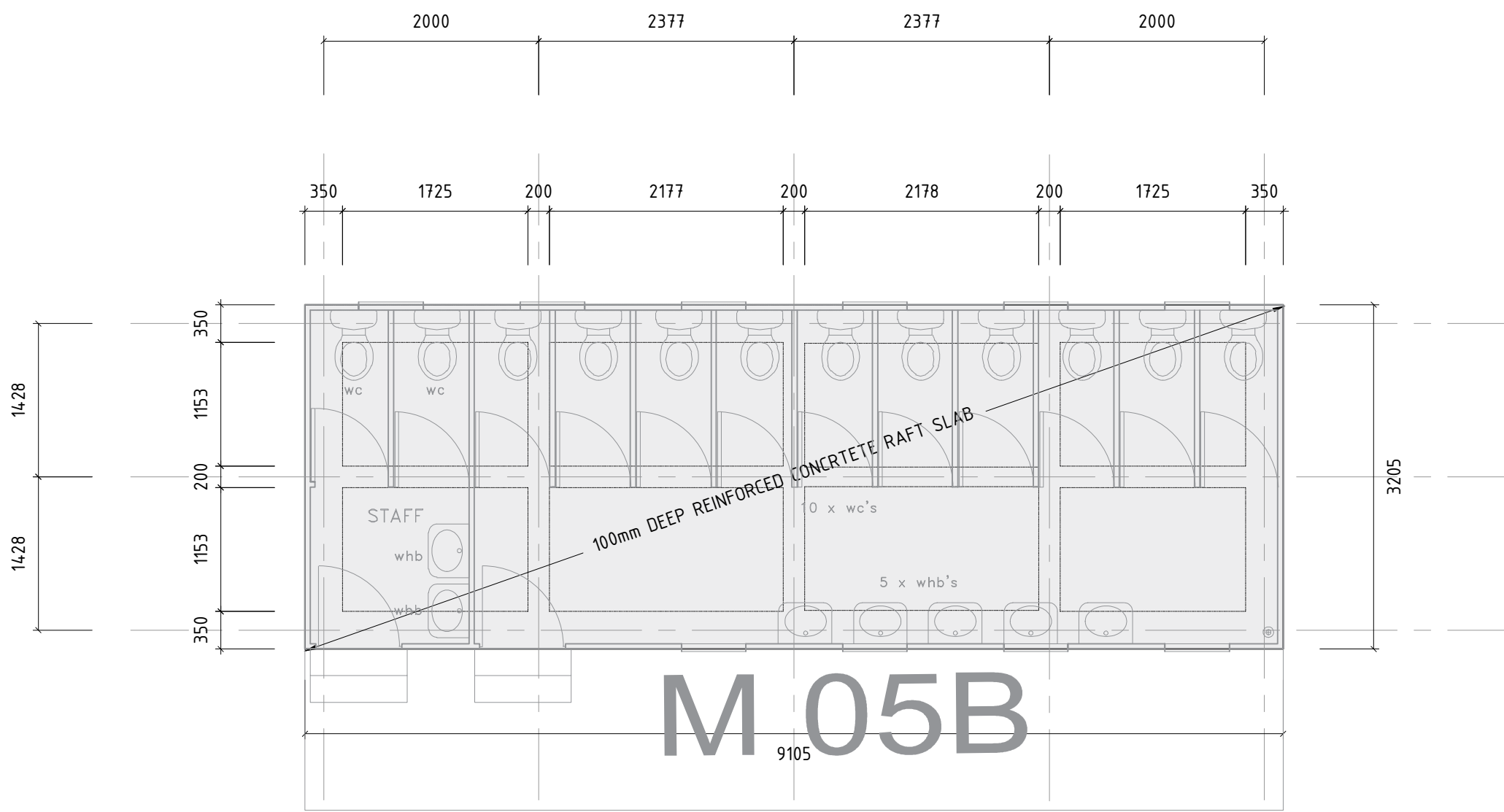
M05A - RAFT FOUNDATION LAYOUT

1:25



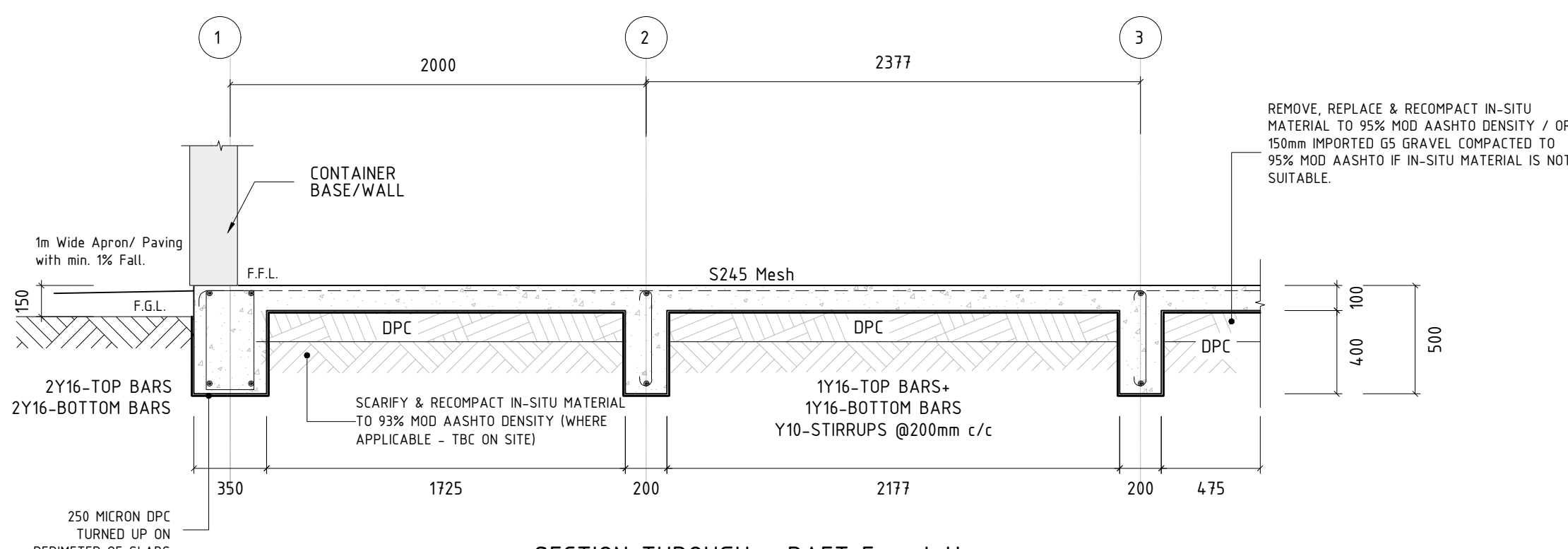
SECTION THROUGH - RAFT Foundation

1:50



M05B - RAFT FOUNDATION LAYOUT

1:25

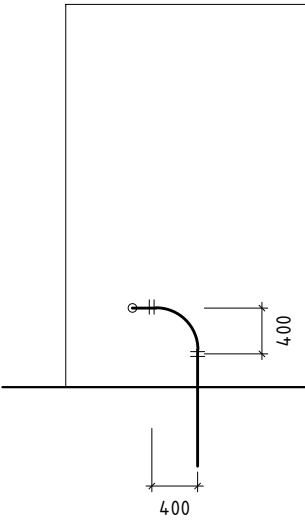


SECTION THROUGH - RAFT Foundation


1:50

DOLOMITE PRECAUTIONARY NOTES:

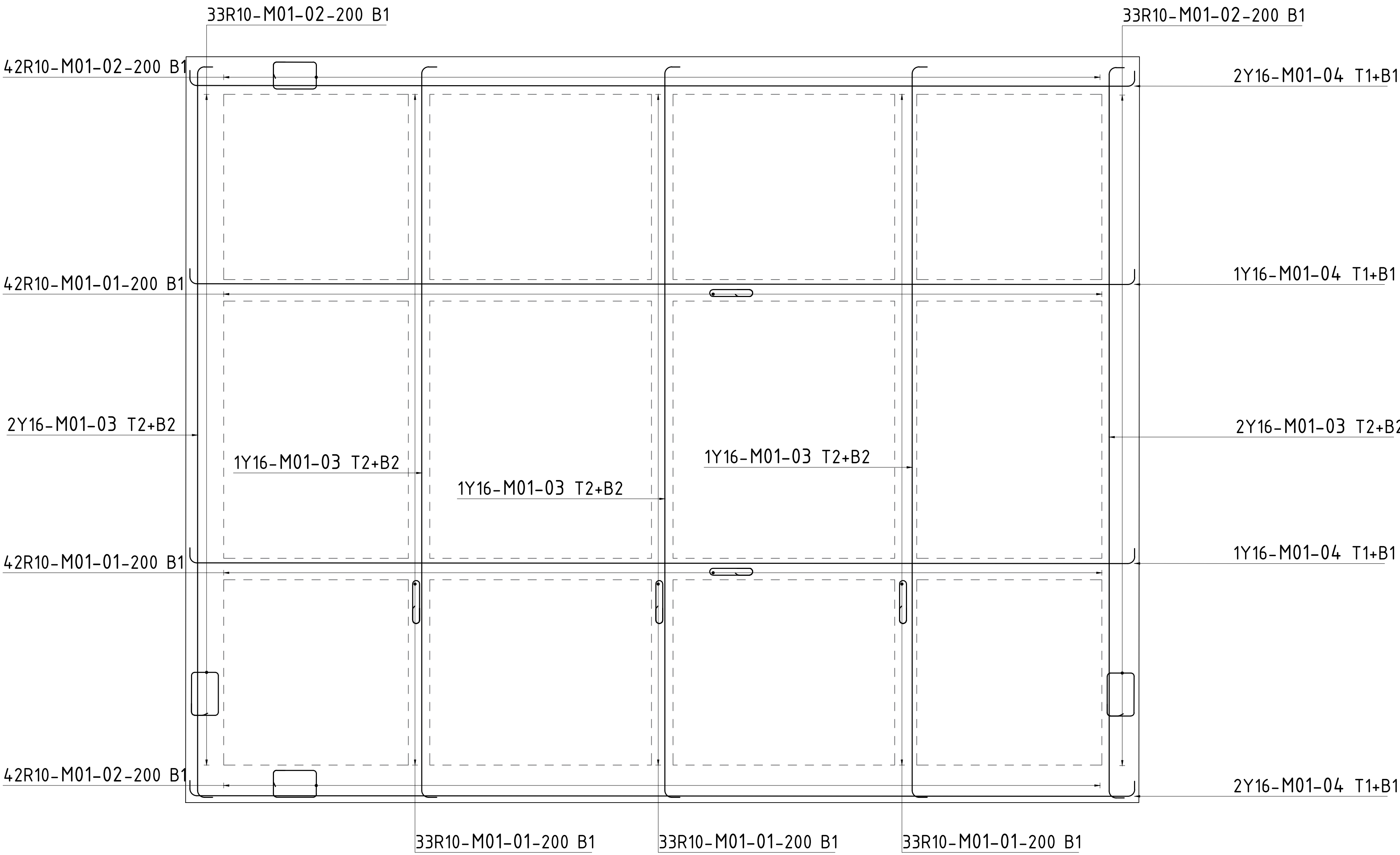
- GENERAL
  - THE SITE SHALL BE DRAINED SO AS TO MAKE SURE THAT THERE IS ALLOWANCE FOR WATER TO POND NEAR THE STRUCTURE.
  - THE SURFACE AROUND THE STRUCTURE ADJACENT TO THE BUILDING SHALL FALL 5% FOR THE FIRST 15m.
  - FLOWER BEDS, TREES AND SHRUBS SHALL NOT BE CONSTRUCTED WITHIN 15m OF THE HOUSING UNIT.
  - NATURAL PONDS AND WATER COURSES TO BE RENDERED IMPERVIOUS.
  - THE BACKFILLING TO SERVICE TRENCHES AND OTHER EXCAVATIONS, SHALL NOT BE MORE PERMEABLE THAN THE SURROUNDING MATERIAL.
- WATER SUPPLY
  - LEAKS IN PLUMBING, INCLUDING STORM-WATER, SEWERAGE AND OTHER DRAINAGE, SHALL BE REPAIRED PROMPTLY SO AS TO PREVENT FLOODING OF THE HOUSING UNIT HORIZON.
  - PREFERRED PIPE TYPES AS PER TABLE 5 SANS 1036-3.
  - WATER SUPPLY NETWORKS TO BE FITTED WITH WATER METERS AT SUITABLE LOCATIONS TO ALLOW FOR THE AUDITING OF WATER LOSSES AND THE DETECTION OF LEAKS.
  - BURIED WATER PIPES SHALL HAVE A MINIMUM SOIL COVER OF 600 mm.
  - WATER PIPES INTO THE HOUSING UNIT SHALL BE PROVIDED SO AS TO ALLOW FOR MOVEMENT.
  - PIPES THROUGH THE WALLS SHALL BE SLEEVED TO PERMIT RELATIVE MOVEMENT AND WC PANS SHALL BE PROVIDED WITH A FLEXIBLE CONNECTION AT THE JUNCTION WITH THE PIPE.
- SEWERS AND GRAVITY DRAINAGE SYSTEMS
  - THE FOLLOWING SHALL BE ADHERED TO:
    - ALL CONNECTIONS BETWEEN FLEXIBLE AND RIGID PIPES SHALL BE PROVIDED WITH FLEXIBLE, SELF ANCHORING JOINTS. SUCH CONNECTIONS SHALL BE EITHER WITHIN WATERTIGHT STRUCTURES OR ABOVE GROUND LEVEL AND NOT BE RESTRAINED FROM MOVEMENT UNDER CONDITIONS OF SUBSIDENCE.
    - NO PLUMBING AND DRAINAGE SHALL BE PLACED UNDER FLOOR SLABS.
    - THE FALL OF ALL TRENCHES SHALL BE AWAY FROM THE HOUSING UNIT.
    - ALL SERVICES SHALL BE LOCATED AT LEAST 15m AWAY FROM THE HOUSE AND BACKFILLED WITH IN-SITU MATERIAL COMPACTED TO NOT LESS THAN 90% MOD-AASHTO DENSITY.
    - SEWER, DRAIN PIPES AND FITTINGS SHALL BE PROVIDED WITH FLEXIBLE WATERTIGHT JOINTS.
- STORMWATER DRAINAGE
  - ROADWAYS AND PAVEMENTS SHALL BE PLACED LOWER SO AS TO FACILITATE DRAINAGE.
  - ALL CONCENTRATED STORMWATER ENTERING THE SITE SHALL BE DIVERTED AWAY FROM THE HOUSE BY MEANS OF CONCRETE-LINED CHANNELS. WHERE NECESSARY, EARTH BERMS AND CONTOURING SHALL BE USED TO ENHANCE SITE DRAINAGE.
  - ALL MANHOLES SHALL BE WATERTIGHT AND SHALL BE TESTED FOR WATERTIGHTNESS (ZERO LEAKAGE) DURING CONSTRUCTION.
  - ALL STORMWATER FROM DOWNPIPES AND GUTTERS FROM THE HOUSING UNIT SHALL DISCHARGE ONTO CONCRETE-LINED CHANNELS WHICH, IN TURN, SHALL DISCHARGE THE WATER AT LEAST 15m AWAY FROM STRUCTURES ONTO AREAS PERMITTING SURFACE DRAINAGE AWAY FROM BUILDINGS AND STRUCTURES. JOINTS BETWEEN ANY OPEN CHANNEL DRAINS AND BUILDINGS SHALL BE SUITABLY SEALED.
  - SMALL DIAMETER STORMWATER DRAINAGE PIPES SHALL NOT BE PLACED PARALLEL TO BUILDINGS UNLESS THEY ARE AT LEAST 5m FROM THE STRUCTURE.
  - DRAINAGE PORTS SHALL BE PROVIDED IN THE BOUNDARY WALLS AT THE LOWEST POINT TO ALLOW THE PASSAGE OF SURFACE RUNOFF.
- SWIMMING POOL
  - THE SWIMMING POOLS SHALL BE WATERTIGHT (ZERO LEAKAGE), CONSTRUCTED WITHOUT ANY JOINTS, AND SHALL NOT BE PLACED CLOSER THAN 5m FROM THE HOUSING UNIT.
  - BACKWASH AND OTHER WATER FROM THE SWIMMING POOL SHALL DISCHARGE INTO DRAINAGE SYSTEMS IN A MANNER ACCEPTABLE TO THE LOCAL AUTHORITY.
  - NO SUBSURFACE DRAINAGE, OTHER THAN FOR LEAKAGE DETECTION OR PREVENTION OF FLOATATION, SHALL BE INSTALLED BENEATH THE SWIMMING POOLS. IF INSTALLED FOR LEAKAGE DETECTION PURPOSES, THE LIQUID SHALL BE CAPABLE OF DRAINING FREELY AND WITHOUT THE NEED FOR PUMPING FROM THE COLLECTOR, WHICH SHALL HAVE A WATERTIGHT FLOOR INSTALLED.



GENERAL NOTES:

A		10/08/21		Issued for information only	
REV No	DATE	DESCRIPTION			
REVISIONS					
SIZE OF ORIGINAL DRAWING: 100 mm					
					
DEPARTMENT OF INFRASTRUCTURE DEVELOPMENT					
INSTITUTION					
GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION					
STANDARD / PROJECT DESCRIPTION					
ERF 2118					
BLOCK					
FLEUR PRIMARY SCHOOL					
BLOCK NAME					
SITE BUILDING DESCRIPTION					
DISCIPLINE					
STRUCTURAL					
DISCIPLINE - SUB-DIVISION					
4					
DRAWING DESCRIPTION					
FOUNDATION LAYOUT					
FILE No.	SCHOOL	CLUSTER			
ENV No.	As Shown	SCALE			
DRAWN	M.E.C.	DATE			
DATE	NAME & SURNAME	SIGNATURE	PR. NUMBER		
2021-09-30	PRINCESEN	NYAMUPINGIDIZA	20180084		
RESPONSIBLE PROFESSIONAL COORDINATION					
2021-09-30					
TSAMANI MANGANYA					
2019000465					
PROFESSIONAL SERVICE PROVIDER (PSP)					
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Address: Unit 117B Clifton Dunes, 119 Mabasa Street, Newmarket, Sandton, Gauteng, 2001					
Tel: +27 82 345 9158					
MAN CONTRACTOR					
Name:					
Address:					
Tel:					
DATE	AS/CD/REV	AS/1	FILE NAME		
SHEET NO.	DRAWING NUMBER	REV			
A1	GDETS20S0006-01-STR-BUI-LAY-102	A			

ACCEPTED BY DID



M01, M02, M03 RAFT FOUNDATION LAYOUT

1:50

GENERAL NOTES:

REV No	DATE	DESCRIPTION
A	30.09.21	Issued for information only

REVISIONS



DEPARTMENT OF  
INFRASTRUCTURE DEVELOPMENT

GAUTENG PROVINCIAL DEPARTMENT OF EDUCATION

ERF 2118

FLEUR PRIMARY SCHOOL

STRUCTURAL

4

DECANTING - M01, M02, M03 ABLUTIONS

REBAR FOUNDATION LAYOUT

FILE No.	SCHOOL	CLUSTER
ERF No.	As Shown	SCALE
DRAWN	M.E.C	DESIGN

DATE	NAME & SURNAME	SIGNATURE	PR. NUMBER
2021.09.30	PREDZISAI RYAMALUPHONGIZA		20180084
2021.09.30	TSIAKANI MANGANYA		2019000460

PROFESSIONAL SERVICE PROVIDER (PSP)  
Name: Indalo Architecture & Design CC  
Address: Unit 1775 Office Dunes, 119 Mosese Street  
Nasrec, Midrand, 1601  
Tel: +27 82 345 0158  
Name: Name of Contractor  
Address: Address of Contractor  
Tel: Tel of Contractor

COPIED  
DATE: 2021.09.30

ASACAD 2020  
DRAWING NUMBER  
A1

REV  
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