



SEKHUKHUNE DISTRICT MUNICIPALITY

Provision of Water Services to The Communities of Eenzaam (Work Package 1)

REFERENCE: SK8/3/1-11/2024/2025

A Tender for Category 7CE or higher CIDB Registered Contractors

September 2024

ISSUED BY:

Sekhukhune District Municipality

Private Bag X8611
Groblersdal
0470

Contact Person: Mr F Mashele,
Director of Infrastructure & Water Services
Telephone: 013 262 7535
e-mail: mashelef@sekhukhune.gov.za

Contact Person: Mr. V Masemola,
Supply Chain Manager
Telephone: 013 262 7535
e-mail: masemolav@sekhukhune.gov.za

PREPARED BY:



P.O Box 12859; Hatfield;0028
Contact Person: Emmanuel Phoku
Telephone: 012 343 7120
e-mail: phokuec@tlouintegratedtech.co.za

Registered Name of Bidder:

Trading Name of Bidder:

Registration No. of Entity:

Postal address of Bidder:

Contact Person:

Tel. No:

E-mail Address:

Cell No.

Fax No:

CIDB CRS Number(s):

Tender Amount

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SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

DESCRIPTION		COLOUR
<u>PORTION 1: TENDER</u>		
PART T1	TENDERING PROCEDURES	
	T1.1 TENDER NOTICE AND INVITATION TO TENDER	White
	T1.2 TENDER DATA	Pink
	T1.3 STANDARD CONDITIONS OF TENDER	Pink
PART T2	RETURNABLE DOCUMENTS	
	T2.1 LIST OF RETURNABLE DOCUMENTS	Yellow
	T2.2 RETURNABLE SCHEDULES	Yellow
<u>PORTION 2: CONTRACT</u>		
PART C1	AGREEMENTS AND CONTRACT DATA	
	C1.1 FORM OF OFFER AND ACCEPTANCE	Yellow
	C1.2 CONTRACT DATA	Yellow
	C1.3 FORM OF GUARANTEE	Yellow
	C1.4 SAFETY AGREEMENT	Yellow
PART C2	PRICING DATA	
	C2.1 PRICE INSTRUCTIONS	Yellow
	C2.2 BILL OF QUANTITIES	Yellow
<u>PORTION 3: SCOPE OF WORK</u>		
PART C3	SCOPE OF WORK	
	C3.1 DESCRIPTION OF THE WORKS	Pale Blue
	C3.2 ENGINEERING	Pale Blue
	C3.3 PROCUREMENT	Pale Blue
	C3.4 CONSTRUCTION	Pale Blue

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Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

DESCRIPTION		COLOUR
	C3.5 MANAGEMENT	Pale Blue
	C3.6 PARTICULAR SPECIFICATIONS AND ADDITIONS TO THE STANDARD SPECIFICATIONS	Pale Blue
PART C4	SITE INFORMATION	
	C4.1 LOCALITY PLAN	Green
	C4.2 TENDER DRAWINGS	White

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SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

T1.1 Tender Notice and Invitation to Tender

Tender Notice and Invitation to Tender
Eenzaam Water Supply (WorkPackage 1) Employer Tender Number: SK8/3/1- 11/2024/2025 cidb Reference Number: 100097140 GREATER SEKHUKHUNE DISTRICT MUNICIPALITY INVITES TENDERS FOR EENZAAM WATER SUPPLY(WORK PACKAGE 1) It is estimated that tenderers should have a cidb contractor grading of 7CE or higher. A non-refundable tender deposit of R1,000.00 payable by cash is required on collection of the Tender documents. Bareki Mall Corner Chris Widd and Van Riebeeck streets in Groblersdal 0470. Documents are available for free on the e-tender portal Queries relating to the issues of these documents may be addressed to: Mr. Floyd Mashele Tel No. 0132627535 E-mail. mashelef@sekhukhune.gov.za or Mr Voster Masemola Tel No. 0132627656 E-mail. masemolav@sekhukhune.gov.za A compulsory clarification meeting with representatives of the Employer will take place at Local Tribal Authority (Moshate) in Eenzaam on 03 September 2024 starting at 11h00. The closing time for receipt of Tenders is 12h00 on Monday, September 30, 2024. Late Tenders will not be accepted. Tenders may only be submitted on the tender documentation that is issued. Requirements for sealing, addressing, delivering, opening and assessment of Tenders are stated in the Tender Data.

INVITATION TO BID

MBD1

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE SEKHUKHUNE DISTRICT MUNICIPALITY					
BID NUMBER:	SK8/3/1-11/2024/2025	CLOSING DATE:	30 September 2024.	CLOSING TIME:	12:00
DESCRIPTION	EENZAAM WATER SUPPLY				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT					
AB Skosana Fire Station; Groblersdal; 0470					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	F Mashele		CONTACT PERSON	Levy Kekana	
TELEPHONE NUMBER	013 262 7535		TELEPHONE NUMBER	012 343 7120	
FACSIMILE NUMBER	013 262 3688		FACSIMILE NUMBER	086 653 8925	
E-MAIL ADDRESS	mashelef@sekhukhune.gov.za		E-MAIL ADDRESS	kekanasl@tlouintegratedtech.co.za	
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					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE	TICK APPLICABLE BOX] ☐ Yes ☐ No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT		TICK APPLICABLE BOX] ☐ Yes ☐ No
[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]					
1. ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		2. ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?				☐ YES ☐ NO	
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?				☐ YES ☐ NO	
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?				☐ YES ☐ NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.					

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Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PART B TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED-(NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 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 (MBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

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

SIGNATURE OF BIDDER:

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

DATE:

Bid documents are obtainable free of charge from the eTender web portal or from the Supply Chain Management Office on a non-refundable deposit in cash or by Bank electronic funds transfer. A non-refundable tender deposit of R1000.00 payable in cash is required upon collection of the tender documents. Bareki Mall Corner Chris Widd and Van Riebeeck streets Groblersdal 0470. Bids will be adjudicated according to the council's Supply Chain Management Policy, based on the Preferential Procurement Framework Act, Act No. 5 of 2000. Bids must be completed in accordance with the conditions attached to the Bid documents and must be sealed and endorsed: Contract (Specify Bid Number: Example SK8/3/1-11/2024/2025). Bids must be placed in the Bid box in AB Skosana Fire Station, Groblersdal, 0470, not later than the specified closing time and date Bids. A bid shall remain valid for a period of 90 (NINETY) days from the closing date.

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Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

The Council reserves the right to accept or reject any Bid or part thereof:

Municipal Manager: Mr. MM Kgwale
Sekhukhune District Municipality
Private Bag X8611
Groblersdal
0470

Supply Chain Manager
Mr. V Masemola

Chief Financial Officer
Mr. H. Nkadimeng

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Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

T1.2 Tender Data

The conditions of Bid are the Standard Conditions of Bid as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement. (See www.cidb.org.za) which are reproduced without amendment or alteration for the convenience of Bidders as an Annex to this Bid Data?

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

Clause number	Tender Data
F.1.1	The employer is the Sekhukhune District Municipality.
F.1.2	The tender documents issued by the employer comprise: T1.1 Tender notice and invitation to tender T1.2 Tender data T2.1 List of returnable documents T2.2 Returnable schedules Part 1: Agreements and contract data C1.1 Form of offer and acceptance C1.2 Contract data C1.3 Form of Guarantee C1.4 Safety Agreement Part 2: Pricing data C2.1 Pricing instructions C2.2 Activity Schedules / Bills of Quantities Part 3: Scope of work C3 Scope of work Part 4: Site information C4 Site information
	The Employer's Agent is: Name: Tlou Integrated Tech Address: P.O Box 12859 Hatfield 0028 Tel: 012 343 7120 Fax: 012 343 7132 E-mail: admin@tlouintegratedtech.co.za

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	Each communication between the employer and a Bidder shall be to or from the employer's agent only and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a Bidder. The name and contact details of the employer's agent are stated in the tender data.
F.1.5.1	Sekhukhune District Municipality may, prior to the award of the tender, cancel a tender if- a) due to changed circumstances, there is no longer a need for the services, works or goods requested; or b) funds are no longer available to cover the total envisaged expenditure or c) no acceptable tenders are received. d) Such a decision to cancel this tender will be published on the CIDB website and in the government Tender Bulletin for the media in which the original tender invitation was advertised.
F.2.1	Only those Bidders who have in their employ management and supervisory staff satisfying the requirements of the Scope of Work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.
F.2.1	Only those Bidders 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 for a 7CE Class of construction work, are eligible to submit tenders. Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. The lead partner has a contractor grading designation in the 7CE class of construction work, and 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 7CE class of construction work.
F.2.1	The following Bidders who are registered with the CIDB or are capable of being so registered prior to the evaluation of submissions are eligible to submit tenders: a) contractors who have a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a 7CE class of construction work Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. The lead partner has a contractor grading designation in the 7CE class of construction work, and 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 7CE class of construction work. Or 2. The lead partner has a contractor grading designation in the 7CE class of construction work, and 3. the two combined contractors' 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 7CE class of construction work.
F.2.1	Only those Bidders who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a 7CE Class of construction work and are registered with the CIDB as having a track record are eligible to submit tenders.
F2.2.1	The employer will not compensate the Bidder for any costs incurred in preparing and submitting a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer comply with requirements.
F.2.7	There will be a compulsory briefing session on-site at the Local Tribal Authority (Moshate) in Eenzaam, with these GPS coordinates: Lat: 24°58'29.32"S; Long: 29°52'27.89"E
F.2.8	Request clarification of the tender documents, if necessary, by notifying the Employer's Agent at least five working days before the closing time stated in the tender data.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.2.11	Do not make any alterations or additions to the tender documents except to comply with instructions issued by the employer or necessary to correct errors made by the Bidder. All signatories to the tender offer shall initial all such alterations.
F.2.12	*No alternative tender offers will be considered If the Bidder wishes to submit an alternative tender offer, the only criteria permitted for such an alternative tender offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer's Agent. Calculations, drawings and all other pertinent technical information and characteristics, as well as modified or proposed Pricing Data, must be submitted with the alternative tender offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal. Acceptance of an alternative tender offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the Bidder, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements. The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed.
F.2.13.3	Parts of each tender offer communicated on paper shall be submitted as original, and no copies will be necessary.
F.2.13.5	The employer's address for delivery of tender offers and identification details to be shown on each tender offer package are: Location of the tender box: AB Skhosana Fire Station, Groblersdal; 0470 Physical address: AB Skhosana Fire Station, Groblersdal, 0470 Identification details: Contract number, title of tender and the closing date and time of the tender Postal address: Sekhukhune District Municipality, Private Bag X8611, Groblersdal, 0470
F.2.13.6	A two-envelope procedure will not be followed.
F.2.14	Accept that tender offers which do not provide all the data or information requested completely and, in the form required, may be regarded by the employer as non-responsive.
F.2.15	The closing time for submission of tender offers is as stated in the Tender Notice and Invitation to Tender.
F.2.15	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will not be accepted.
F.2.16	The tender offer validity period is <u>90 days</u> .
F.2.18	The Bidder shall, when requested by the Employer to do so, submit the 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.
F.2.23	The Bidder is required to submit with his tender a Certificate of Contractor Registration issued by the Construction Industry Development Board and a copy of an original valid Tax Clearance Certificate issued by the South African Revenue Services. Where a Bidder satisfies CIDB contractor grading designation requirements through joint venture formation, such Bidders must submit the Certificates of Contractor Registration in respect of each partner.
F.3.4	Tenders will be opened immediately after the closing time for tenders at Sekhukhune District Municipality.

Contractor

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Witness 2

Employer

Witness 1

Witness 2

F.3.11	The procedure for the evaluation of responsive tenders is Method 2.
	The procedure for the evaluation of responsive tenders is Method 2 The financial offer will be scored using Formula 2 (option 1), where the value of W_1 is: 1) 90 where the financial value inclusive of VAT of all responsive tenders received has a value in excess of R 50 000 000; or 2) 80 where the financial value inclusive of VAT of one or more responsive tender offers equals or is less than R 50 000 000. Up to 100 minus W_1 tender evaluation points will be awarded to Bidders who complete the referencing schedule and who are found to be eligible for the preference claimed.
F.3.11	Evaluation of Tenders The Bidders' notice is drawn to the fact that this tender will be evaluated, adjudicated, and awarded in terms of the SDM's Supply Chain Management Policy, Clause 36.5, which entails balancing financial offer and functionality. The following steps will be followed in the evaluation; 1. Determination of whether or not tender offers are complete. 2. Determination of whether or not tender offers are responsive. 3. Determination of the reasonableness of tender offers. 4. Confirmation of the eligibility of preferential points claimed by bidders. 5. Determination of expertise and experience of bidders. 6. Awarding of points for functionality. 7. Ranking of bidders according to the total points 8. Performance of risk analysis by checking the capacity of the bidders
	Evaluation Criteria Tenders are adjudicated according to the Sekhukhune District Municipality Supply Chain Management Policy, and the following framework is provided as a guideline. Tender Responsiveness Tender responsiveness shall mean tender compliance with all the prescribed key requirements for submission with this tender, which are regarded as eliminating factors. Elimination factors include non-compliance with key requirements specified for the following: ✓ Construction Project Manager (17 Points); ✓ Construction Site Agent (11 Points); ✓ Construction Site Foreman (9 Points) ✓ Construction Health and Safety Officer (12) ✓ Physical and Other Resources (19 Points) ✓ Experience of the firm (32 Points)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Table F.3.11: Evaluation Criteria and Points Allocations

Quality criteria	Sub criteria	Elimination Factor	Scale	Refer to the forms indicated	Max No of points				
Construction Programme									
Construction Programme, which responds to the scope of work and outlines tasks, activities, critical path, milestones, cash flow projections, etc.	No Programme	No	0	FORM L	7				
	generic not responding to the scope	No	1						
	Responding to the scope but no Cash flow	No	5						
	Responding to the scope with Cash flow	No	7						
Company Experience									
Completed water supply related Projects	None	No	0	FORM F	17				
	1-3 projects	No	6						
	4 - 5 projects	No	8						
	6 >	No	10						
Completed civil engineering related Projects	1-3 projects	No	1						
	4 - 5 projects	No	2						
	6 >	No	7						
Company Plant and Equipment									
Tipper Trucks	None	No	0	FORM B	19				
	Letter of intent	No	0.5						
	Own by the company								
	1	No	1.5						
	2	No	2.5						
	3	No	4.5						
Tractor-Loader-Backhoe	None	No	0						
	Letter of intent	No	0.5						
	Own by the company	No							
	1	No	3						
	2	No	5						
		No							
20T and Bigger Excavator	None	No	0						
	Letter of intent	No	1						
	Own by the company	No							
Other Equipment, Hand Compactor, Bakkies, Water Pumps & Trash Pumps etc.	1	No	5						
		No	4						
Academic Qualifications									
Construction Manager	No Qualifications	No	0	FORM B	25				
	NHD / ND in Built Environment	No	5						
	BSc, Beng, B Tech in Built Environment	No	10						
Site Agent	No Qualifications	No	0						
	N6 in Built Environment / NQF level 5	No	1						
	NHD / ND in Built Environment	No	5						
Safety Officer	No Qualifications	No	0						
	Programmes in Occupational Health & Safety / Construction Health and Safety (NQF Level 3 - 5)	No	0.5						
	Learnership Certificate in Construction Health and Safety Management (NQF Level 3)	No	1						
	B-Tech in Safety Management	No	3						
	B.Com Operational Risk Management	No	5						
		No							
Foreman	No Qualifications	No	0						
	Programmes in Construction (NQF Level 3 - 5)	No	1						
	N3 Building	No	3						
	N6 Building	No	5						
Key staff's experience (assigned personnel)									
Construction Project Manager	0 - 5 years	No	0	FORM E	24				
	5 - 10 years	No	2						
	10 -15 years	No	5						
	15 years +	No	7						
Site Agent	0 - 5 years	No	0						
	5 - 10 years	No	1						
	10 -15 years	No	3						
	15 years +	No	6						
Safety Officer	0 - 5 years	No	0						
	5 - 10 years	No	1						
	10 -15 years	No	3						
	15 years +	No	7						
Foreman	0 - 5 years	No	0						
	5 - 10 years	No	0.5						
	10 -15 years	No	2						
	15 years +	No	4						
Organisation and Staffing Structure									
Organisation and staffing structure detailing key personnel to be involved in the project, including their roles and brief qualifications, relevant construction industry qualifications are a pre-requisite - Construction Project manager, etc.)	No organisation chart	No	0		3				
	The organisation chart is sketchy.		1						
	The organisational chart is complete and detailed.		3						
Local Economic Participation (Location of Business)									
Municipal Rates & Taxes not older than three months or Valid Lease Agreement along with the owner's Municipal Rates & Taxes not older than three months	Outside Limpopo	No	0	FORM O	5				
	Within Limpopo	No	3						
	Within Sekhukhune District	No	5						

Contractor
 Witness 1
 Witness 2
 Employer
 Witness 1
 Witness 2

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">The maximum possible score for quality</td> <td style="width: 20%; text-align: right;">100</td> </tr> </table> The Construction Manager, Site Agent, Foreman, and Safety Officer are regarded as Personnel and carry a combined total of 49 points. Completed projects, Construction programmes, and Organisation and Staffing Structures combined are regarded as company experience and carry 27 points. Company Plant and Equipment carry 19 points. Local Economic Participation (Location of Business) carries 05 points. The Tenderer's responsiveness in relation to points is therefore summarised as follows: <table style="margin-left: 40px;"> <tr> <td>Personnel</td> <td style="text-align: right;">49</td> </tr> <tr> <td>Company Plant and Equipment</td> <td style="text-align: right;">19</td> </tr> <tr> <td>Company Experience</td> <td style="text-align: right;">27</td> </tr> <tr> <td>Local Economic Participation</td> <td style="text-align: right;">05</td> </tr> <tr> <td style="text-align: right;">Sub-Total</td> <td style="text-align: right;">100</td> </tr> </table> To be considered for price and specific goals evaluation, a company must obtain a minimum of 70 points out of the 100 points above.	The maximum possible score for quality	100	Personnel	49	Company Plant and Equipment	19	Company Experience	27	Local Economic Participation	05	Sub-Total	100
The maximum possible score for quality	100												
Personnel	49												
Company Plant and Equipment	19												
Company Experience	27												
Local Economic Participation	05												
Sub-Total	100												
	Construction Manager: (Maximum Points obtainable 17) Name:..... It must be noted that the proposed construction manager must obtain a minimum of 5 points during evaluation, failing which a tender shall be automatically eliminated from any further evaluation. Note 1: Academic Qualifications Proof of academic qualifications in the form of certified copies must be attached to the Construction Manager's CV. Foreign qualifications must be accompanied by a certificate from the Qualifications Certification Body. The proposed Construction project manager shall be in possession of at least a National Diploma in Built Environment Studies from any South African University / University of Technology or equivalent qualifications from a recognised Foreign University or Institution certified by SAQA. Failure to provide this shall warrant an automatic elimination of tender from any further evaluation. Note 2: Professional Registration It is a prerequisite that the Construction Manager is registered with The South African Council for the Project and Construction Management Professions (SACPCMP) as a Construction Manager or Construction Project Manager or Engineering Council of South Africa (ECSA) as a Professional Civil Engineer/ Engineering Technologist /Technician. Note 3: Experience after qualification The construction project manager must have a minimum of 5 years of post-qualification experience. More than 5 years of post-qualification experience is not an eliminating factor but carries more points. Failure to meet this requirement shall warrant the automatic elimination of the tender from any further evaluation. Note 4: Employment History (Involvement in comparable projects) Proof of employment history must be contained in the curriculum vitae (CV) and must include references and contact details. The CV must be of a maximum of two pages and contain only necessary and relevant information for the purpose of this project. Failure to provide is not an eliminating factor but a disadvantage for the candidate to accrue more points. Note 5: Current Employment Confirmation of current employment in the form of a letter from the Company must be attached to the CV. The proposed Construction manager shall be a Senior Employee, an Associate, the Director, or a Shareholder and in the direct employment of the Bidder. Where a proposed Construction manager is												

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

	seconded by a rival construction company, an agreement between the two entities, as well as a written undertaking confirming the person's full-time availability for the duration of a project, must be attached to the CV. Please note that the CV MUST be signed by the employee.
	Site Agent: (Maximum Points obtainable 11) Name:..... Note: The site Agent should not be the same person proposed to act as the Construction Manager. Should it be discovered during the evaluation of the bid that such is the case, a zero point will be allocated. Site Agent It must be noted that the proposed Site Agent must obtain a minimum of 5 points during evaluation, failing which a tender shall be automatically eliminated from any further evaluation. Note 6: Academic Qualifications Proof of academic qualifications in the form of certified copies must be attached to the Site Agent's CV. Foreign qualifications must be accompanied by a certificate from the Qualifications Certification Body. The proposed Site Agent shall be in possession of at least an N6 Certificate in-built environmental studies from any South African tertiary institution or in possession of a certificate of Manage Labour Intensive Construction Projects (NQF level 5). Note 7: Professional Registration Registration with a professional regulation council within the built environment is not a prerequisite for the site agent. Note 8: Employment History The site agent must have a minimum of 5 years of post-qualification experience. Less than 5 years post-qualification experience is not an eliminating factor, but zero points will be scored if that criterion is not met. Note 9: Current Employment A letter from the Supervisor confirming current employment must be attached. The proposed Site Agent must be a full-time employee in the direct employ of the Bidder.
	Construction Foreman: (Maximum Points obtainable 9) Name:..... Note: The Construction Foreman should not be the same person proposed to act as Site Agent. Should it be discovered during the evaluation of the bid that such is the case, a zero point will be allocated. Foreman It must be noted that the proposed foreman must obtain a minimum of 3 points during evaluation, failing which a tenderer will be automatically eliminated from any further evaluation. Note 10: Academic Qualifications It is not a prerequisite for the foreman to have a formal qualification. However, the CV of a proposed foreman should depict necessary and relevant information for the purpose of this project. Possession of a certificate in Construction (NQF Level 3 - 5) or higher from a Construction Education and Training Authority (CETA) accredited service provider will earn the proposed foreman points. Proof of

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	qualifications in the form of certified copies must be attached to the Foreman's CV. Foreign qualifications must be accompanied by a certificate from the Qualifications Certification Body. The certificate will be verified with the relevant authorities. Note 11: Employment History A minimum of 5 years experience is required for the Foreman. Less than 5 years of relevant experience is not an eliminating factor, but zero points will be scored if that criterion is not met. Note 12: Current Employment A letter from the Supervisor confirming current employment must be attached. The proposed Foreman must be a full-time employee in the direct employ of the Bidder.
	Health and Safety officer: (Maximum Points obtainable 12) Name:..... Note: The health and safety Officer should not be any of the above personnel. If it is discovered during the bid evaluation that such is the case, a zero point will be allocated. Safety officer It must be noted that the proposed Health and Safety Officer must obtain a minimum of 0.5 points during evaluation failure; a zero point shall be scored if the criterion is not satisfied. Note 13: Academic Qualifications Proof of academic qualifications or Programmes in Occupational Health and Safety or Construction Health and Safety (NQF Level 3 - 5) or Learnership Certificate in Construction Health and Safety Management (NQF Level 3) in the form of certified copies must be attached to the Registered Health and Safety Officer's CV. Foreign qualifications must be accompanied by a certificate from the Qualifications Certification Body. The proposed Registered Health and Safety officer shall be in possession of stated qualifications from any South African University or Accredited Service providers. Note 14: Professional Registration Proof of professional Registration with SACPCMP as a Professional Construction Health and Safety Manager / Agent in the form of certified copies must be attached to the Health and Safety Officer's CV. Failure to provide this shall warrant an automatic elimination of tender from any further evaluation. Note 15: Employment History A minimum of 5 years post-qualification experience is required for the Health and safety officer. Less than 5 years post-qualification experience is not an eliminating factor, but zero points shall be scored if the criterion is not satisfied. Note 16: Current Employment A letter from the Supervisor confirming current employment must be attached. The proposed Registered Health and safety officer must be a full-time employee in the direct employ of the Bidder.
	Company's Plant & Equipment It must be noted that, as indicated in Table F3.1.11 above, the company's plant and equipment carry a maximum of 19 points. Failure to submit evidential supporting documents is not an eliminating factor, but a zero point will be scored. Note 18: Company's Plant and Equipment

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	Provide proof of ownership, such as a certified copy of the company's register of assets (only assets related to site construction work will be considered for points allocation) and Plant ownership copies either in the name of the company or the director's name must be attached. Failure to submit evidential supporting documents is not an eliminating factor, but zero (0) will be scored.
	Experience of The Bidder It must be noted that the Experience of the Bidder carries a maximum of 27 points, as indicated in the table above. The Bidder must obtain a minimum of 8 points to be considered for further evaluation. If a Bidder fails to obtain the minimum points, then zero points will be scored. If proof of testimonials in reference to form F is not provided, then the bidder shall be automatically disqualified. Note 19: Experience of The Bidder If the project referenced in form F were implemented with SDM, then performance assessment reports from internal departments of at least 3 previous projects as referenced will be required, confirming performance will be obtained.
	Local Economic Participation It must be noted that, as indicated in Table F3.1.11, local economic participation carries a maximum of 05 points. Failure to submit evidential supporting documents is not an eliminating factor, but zero points will be scored. Note 20: Local Economic Participation The company needs to submit proof of municipal rates for their offices that are not older than 3 months. Failure to attach the municipal rates warrants scoring zero (0) in this category. In case the Company or Director is from rural areas where the rates are not paid, please attach proof from the Local Authority indicating that he/she does not pay municipal rates; this must also be supported by an affidavit from SAPS.
	Technical Adjudication and General Criteria ✓ Tenders will be adjudicated in terms of inter alia: ✓ Compliance with Tender conditions ✓ Technical specifications The bid may be rejected if the Bidder does not comply with the Tender Conditions or the technical specifications. Regarding the above, certain actions or errors are unacceptable and warrant REJECTION OF THE TENDER, for example. ✓ Pages to be completed, removed from the Tender document, and have therefore not been submitted. ✓ If the tender document is not fully completed, initialed and signed as required and as stipulated in the tender data. ✓ If any tender document is tempered with or it is unbundled or unbundled. ✓ Failure to complete the schedule of quantities as required – only lump sums provided. ✓ Scratching out without initialling next to the amended rates or information. ✓ Writing over / painting out rates / the use of Tippex or any erasable ink, e.g. pencil. ✓ The Tender has not been properly signed by a party having the authority to do so; according to the – “Authority for Signatory”, no authority for signatory submitted. ✓ A Resolution by a Board of Directors of the Company authorising the Bidder to sign the Tender document on behalf of the Company. Particulars required in respect of the Tender have not been provided – non-compliance with Tender requirements and/or specifications. ✓ The Bidder's attempts to influence or has, in fact, influenced the evaluation and/or awarding of the contract. ✓ The Tender has been submitted after the relevant closing date and time
F3.13.1	Tender offers will only be accepted if:

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	a) the Bidder has in his or her possession an original valid Tax Clearance Certificate issued by the South African Revenue Services or has made arrangements to meet outstanding tax obligations; b) the Bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation; c) the Bidder or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; d) the Bidder 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 e) has completed the Compulsory Enterprise Questionnaire, and there are no conflicts of interest which may impact the Bidder's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.
F.3.17	The number of paper copies of the signed contract to be provided by the employer is one.

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Witness 2

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T1.3 Standard Conditions of Tender

F.1 General

F.1.1 Actions

F.1.1.1 The employer and each Bidder submitting a tender offer shall comply with these conditions of the tender. In their dealings with each other, they shall discharge their duties and obligations as set out in F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

F.1.1.2 The employer and the Bidder and all their agents and employees involved in the tender process shall avoid conflicts of interest and, where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Bidders shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note: 1) A conflict of interest may arise due to a conflict of roles, which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position, even if no improper acts result.
2) Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.

F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of the tender.

F.1.3.2 These conditions of tender, the tender data and tender schedules, which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

F.1.3.3 For the purposes of these conditions for the calling for expressions of interest, the following definitions apply:

- a) **comparative offer** means the Bidder's financial offer after the factors of non-firm prices, all unconditional discounts and any other tendered parameters that will affect the value of the financial offer have been taken into consideration
- b) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process; and
- c) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels
- d) **quality (functionality)** means the totality of features and characteristics of a product or service that bear on its ability to satisfy stated or implied needs

F.1.4 Communication and employer's agent

Each communication between the employer and a Bidder shall be to or from the employer's agent only and in a form that can be read, copied and recorded. The writing shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a Bidder. The name and contact details of the employer's agent are stated in the tender data.

F.1.5 The employer's right to accept or reject any tender offer

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

F.1.5.1 The employer may accept or reject any variation, deviation, tender offer, or alternative tender offer and may cancel the tender process and reject all tender offers at any time before the formation of a contract. The employer shall not accept or incur any liability to a Bidder for such cancellation and rejection but will give written reasons for such action upon written request to do so.

F.1.5.2 The employer may not, subsequent to the cancellation or abandonment of a tender process or the rejection of all responsive tender offers, re-issue a tender covering substantially the same scope of work within a period of six months unless only one tender was received and such tender was returned unopened to the Bidder.

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Witness 2

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F.2 Bidder's obligations

F.2.1 Eligibility

Submit a tender offer only if the Bidder complies with the criteria stated in the tender data and the Bidder, or any of his principals, is not under any restriction to do business with the employer.

F.2.2 Cost of tendering

F2.2.1 Accept that the employer will not compensate the Bidder 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 comply with requirements.

F.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

F.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary, apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

F.2.7 Clarification meeting

Attend, where required, a clarification meeting at which Bidders may familiarise themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

F.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data.

F.2.9 Insurance

The Bidder is advised to seek qualified advice regarding insurance.

F.2.10 Pricing the tender offer

F.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful Bidder, such duties, taxes and levies being those applicable 14 days before the closing time stated in the tender data.

F2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

F.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of the contract identified in the contract data.

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

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Do not make any alterations or additions to the tender documents except to comply with instructions issued by the employer or necessary to correct errors made by the Bidder. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

F.2.12 Alternative tender offers

F.2.12.1 Submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted. The alternative tender offer is to be submitted with the main tender offer together with a schedule that compares the requirements of the tender documents with the alternative requirements the Bidder proposes.

F.2.12.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender data or criteria otherwise acceptable to the employer.

F.2.13 Submitting a Tender Offer

F.2.13.1 Submit a tender offer to provide the whole of the works, services or supply identified in the contract data and described in the scope of works unless stated otherwise in the tender data.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing in black ink.

F.2.13.3 Submit the parts of the tender offer communicated on paper as an original plus the number of copies stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

F.2.13.4 Sign the original and all copies of the tender offer where required in terms of the tender data. The employer will hold all authorised signatories liable on behalf of the Bidder. Signatories for Bidders proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

F.2.13.5 Seal the original and each copy of the tender offer as separate packages, marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the Bidder's name and contact address.

F.2.13.6 Where a two-envelope system is required in terms of the tender data, place and seal the returnable documents listed in the tender data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the employer's address and identification details stated in the tender data, as well as the Bidder's name and contact address.

F.2.13.7 Seal the original tender offer and copy packages together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

F.2.13.8 Accept that the employer shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

F.2.14 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and, in the form, required, may be regarded by the employer as non-responsive.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Proof of posting shall not be accepted as proof of delivery. The employer shall not accept tender offers submitted by telegraph, telex, facsimile or e-mail unless stated otherwise in the tender data.

F.2.15.2 Accept that if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

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F.2.16 Tender offer validity

F.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period.

F.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the total of the prices or substance of the tender offer is sought, offered, or permitted. The total of the prices stated by the Bidder shall be binding upon the Bidder.

Note: Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred Bidder following a competitive selection process, should the Employer elect to do so.

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the Bidder's commercial position (including notarised joint venture agreements), preferencing arrangements, or samples of materials considered necessary by the employer for the purpose of a full and fair risk assessment. Should the Bidder not provide the material or a satisfactory reason as to why it cannot be provided by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.19 Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender data.

F.2.20 Submit securities, bonds, policies, etc.

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other tender documents

If so, instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data.

F.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

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Witness 1

Witness 2

Employer

Witness 1

Witness 2

F.3 The employer's undertakings

F.3.1 Respond to clarification

Respond to a request for clarification received up to five working days prior to the tender closing time stated in the Tender Data and notify all Bidders who drew procurement documents.

F.3.2 Issue Addenda

If necessary, issue an addenda that may amend or amplify the tender documents to each Bidder during the period from the date of the Tender Notice until seven days before the tender closing time stated in the Tender Data. If, as a result a Bidder applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, will then notify it to all Bidders who drew documents.

F.3.3 Return late tender offers

Return tender offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the Bidder concerned.

F.3.4 Opening of tender submissions

F.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of Bidders' agents who choose to attend at the time and place stated in the tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

F.3.4.2 Announce at the opening held immediately after the opening of tender submissions, at a venue indicated in the tender data, the name of each Bidder whose tender offer is opened, the total of his prices, preferences claimed and time for completion, if any, for the main tender offer only.

F.3.4.3 Make available the record outlined in F.3.4.2 to all interested persons upon request.

F.3.5 Two-envelope system

F.3.5.1 Where stated in the tender data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of Bidders' agents who choose to attend at the time and place stated in the tender data and announce the name of each Bidder whose technical proposal is opened.

F.3.5.2 Evaluate the quality of the technical proposals offered by Bidders, then advise Bidders who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of Bidders, who score in the quality evaluation above the minimum number of points for quality stated in the tender data, and announce the score obtained for the technical proposals and the total price and any preferences claimed. Return unopened financial proposals to Bidders whose technical proposals failed to achieve the minimum number of points for quality.

F.3.6 Non-disclosure

Not disclose to Bidders, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful Bidder.

F.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a Bidder to influence the processing of tender offers and instantly disqualify a Bidder (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

F.3.8 Test for responsiveness

Determine, on opening and before detailed evaluation, whether each tender offer was properly received:

- a) meets the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and

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c) is responsive to the other requirements of the tender documents.

A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

- detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- change the Employer's or the Bidder's risks and responsibilities under the contract, or
- affect the competitive position of other Bidders presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

F.3.9 Arithmetical errors

Check responsive tender offers for arithmetical errors, correcting them in the following manner:

- Where there is a discrepancy between the amounts in figures and in words, the amount in words shall govern.
- If bills of quantities (or schedule of rates) apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate will be corrected.
- Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the Bidder's addition of prices, the total of the prices shall govern and the Bidder will be asked to revise selected item prices (and their rates if a bills of quantities applies) to achieve the tendered total of the prices.

Consider the rejection of a tender offer if the Bidder does not correct or accept the correction of his arithmetical errors in the manner described above.

F.3.10 Clarification of a tender offer

Obtain clarification from a Bidder on any matter that could give rise to ambiguity in a contract arising from the tender offer.

F3.11 Evaluation of tender offers

F3.11.1 General

Appoint an evaluation panel of not less than three persons. Reduce each responsive tender offer to a comparative offer and evaluate them using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender data.

F3.11.2 Method 1: Financial offer

In the case of a financial offer:

- a) Rank tender offers from the most favourable to the least favourable comparative offer.
- b) Recommend the highest-ranked Bidder for the award of the contract unless there are compelling and justifiable reasons not to do so.
- c) Re-rank all Bidders should there be compelling and justifiable reasons not to recommend the highest ranked Bidder and recommend the highest ranked Bidder, unless there are compelling and justifiable reasons not to do so and the process set out in this subclause is repeated.

F3.11.3 Methods 2: Financial offer and preference

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In the case of a financial offer and preferences:

- a) Score each tender in respect of the financial offer made and preferences claimed, if any, in accordance with the provisions of 3.11.7 and 3.11.8.
- b) Calculate the total number of tender evaluation points (T_{EV}) in accordance with the following formula:

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

Where: N_{FO} is the number of tender evaluation points awarded for the financial offer made in accordance with 3.11.7;

N_P is the number of tender evaluation points awarded for preferences claimed in accordance with 3.11.8.

- c) Rank tender offers from the highest number of tender evaluation points to the lowest.
- d) Recommend the Bidder with the highest number of tender evaluation points for the award of the contract unless there are compelling and justifiable reasons not to do so.
- e) Rescore and re-rank all Bidders should there be compelling and justifiable reasons not to recommend the Bidder with the highest number of tender evaluation points, and recommend the Bidder with the highest number of tender evaluation points, unless there are compelling and justifiable reasons not to do so and the process set out in this subclause is repeated.

F3.11.4 Method 3: Financial offer and quality

In the case of a financial offer and quality:

- a) Score each tender in respect of the financial offer made and the quality offered in accordance with the provisions of 3.11.7 and 3.11.9, rejecting all tender offers that fail to score the minimum number of points for quality stated in the tender data, if any.
- b) Calculate the total number of tender evaluation points (T_{EV}) in accordance with the following formula:

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

Where: N_{FO} is the number of tender evaluation points awarded for the financial offer made in accordance with 3.11.7;

N_Q is the number of tender evaluation points awarded for preferences claimed in accordance with 3.11.9.

- c) Rank tender offers from the highest number of tender evaluation points to the lowest.
- a) Recommend the Bidder with the highest number of tender evaluation points for the award of the contract unless there are compelling and justifiable reasons not to do so.
- b) Rescore and re-rank all Bidders should there be compelling and justifiable reasons not to recommend the Bidder with the highest number of tender evaluation points and recommend

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Witness 2

Employer

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Witness 2

the Bidder with the highest number of tender evaluation points, unless there are compelling and justifiable reasons not to do so and the process set out in this subclause is repeated.

F3.11.5 Method 4: Financial offer, quality and preferences

In the case of a financial offer, quality and preferences:

- a) Score each tender in respect of the financial offer made, preference claimed, if any, and the quality offered in accordance with the provisions of 3.11.7 to 3.11.9, rejecting all tender offers that fail to score the minimum number of points for quality stated in the tender data, if any.
- b) Calculate the total number of tender evaluation points (T_{EV}) in accordance with the following formula:

$$T_{EV} = N_{FO} + N_P + N_Q$$

Where: N_{FO} is the number of tender evaluation points awarded for the financial offer made in accordance with 3.11.7

N_P is the number of tender evaluation points awarded for preferences claimed in accordance with 3.11.8

N_Q is the number of tender evaluation points awarded for quality offered in accordance with 3.11.9.

- c) Rank tender offers from the highest number of tender evaluation points to the lowest.
- d) Recommend the Bidder with the highest number of tender evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
- e) Rescore and re-rank all Bidders should there be compelling and justifiable reasons not to recommend the Bidder with the highest number of tender evaluation points and recommend the Bidder with the highest number of tender evaluation points, unless there are compelling and justifiable reasons not to do so and the process set out in this subclause is repeated.

F3.11.6 Decimal places

Score financial offers, preferences and quality, as relevant, to two decimal places.

Scoring Financial Offers

Score the financial offers of remaining responsive tender offers using the following formula:

$$N_{FO} = W_1 \times A$$

Where: N_{FO} is the number of tender evaluation points awarded for the financial offer.

W_1 is the maximum possible number of tender evaluation points awarded for the financial offer as stated in the Tender Data.

A is a number calculated using the formula and option described in Table 1 as stated in the Tender Data.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Table 1: Formulae for calculating the value of A

Formula	Comparison aimed at achieving	Option 1 ^a	Option 2 ^a
1	Highest price or discount	$A = \left(1 + \frac{(P - P_m)}{P_m} \right)$	$A = P / P_m$
2	Lowest price or percentage commission / fee	$A = \left(1 - \frac{(P - P_m)}{P_m} \right)$	$A = P_m / P$
P_m is the comparative offer of the most favourable comparative offer. P is the comparative offer of the tender offer under consideration.			

F3.11.8 Scoring preferences

Confirm that Bidders are eligible for the preferences claimed in accordance with the provisions of the tender data and reject all claims for preferences where Bidders are not eligible for such preferences.

Calculate the total number of tender evaluation points for preferences claimed in accordance with the provisions of the tender data.

F3.11.9 Scoring quality

Score each of the criteria and subcriteria for quality in accordance with the provisions of the Tender Data.

Calculate the total number of tender evaluation points for quality using the following formula:

$$N_Q = W_2 \times \frac{S_o}{M_s}$$

Where: S_o is the score for quality allocated to the submission under consideration;
 M_s is the maximum possible score for quality in respect of a submission; and
 W_2 is the maximum possible number of tender evaluation points awarded for the quality as stated in the tender data.

F.3.12 Insurance provided by the employer

No insurance is provided by the employer.

F.3.13 Acceptance of tender offer

F3.13.1 Tender Offers will only be accepted on condition that:

- (a) the tender offer is signed by a person authorised to sign on behalf of the Bidder;
- (b) a valid original Tax Clearance Certificate is included with his tender;

Contractor

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- (c) Bidder's declaration of compliance with the Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014, as well as the Bidder's health and safety plan, included with his tender submission;
- (d) a Bidder who submitted a tender as a Joint Venture has included an acceptable Joint Venture agreement with his tender;
- (e) The contractor who submits the tender has been registered with the Construction Industry Development Board in accordance with the Construction Industry Development Board Act No. 38 of 2000 and the CIBD Regulations 2014 promulgated in terms of the Act, or if the Contractor can submit proof or evidence that he will be able to register within 10 days of the closing date for submission of tenders;
- (f) The Bidder or any of its principals is not listed on the register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
- (g) The Bidder has not abused the Employer's Supply chain Management System or has failed to perform on any previous contract and has been given a written notice to his effect;
- (h) The Bidder or any of its principals, directors or managers is not employed in the service of the State or any municipality. In the event that such principals are involved, official approval from the Executing Authority regarding carrying out remunerative work outside of the public service must be included in the tender submission.
- (i) The Employer is satisfied that the Bidder or any of his principals have not influenced the tender offer and acceptance by the following criteria:
 - (a) having offered, promised or given a bribe or other gift or remuneration to any person in connection with the obtaining or execution of this contract;
 - (b) having acted in a fraudulent or corrupt manner in obtaining or executing this contract;
 - (c) having approached an officer or employee of the Employer or the employer's Agent with the objective of influencing the award of a contract in the Bidder's favour;
 - (d) having entered into any agreement or arrangement, whether legally or not, with any other person, firm or company to refrain from tendering for his contract or as to the amount of the Tender to be submitted by either party;
 - (e) having disclosed to any other person, firm or company other than the Employer, the exact or approximate amount of his proposed Tender;
 - (f) The Employer may, in addition to using any other legal remedies, repudiate the Tender offer and acceptance and declare the Contract invalid should it have been concluded already.

F.3.13.2 Notify the successful Bidder of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data or agreed additional period. Providing the form of offer and acceptance does not contain any qualifying statements, and it will constitute the formation of a contract between the employer and the successful Bidder as described in the form of offer and acceptance.

F.3.14 Notice to unsuccessful Bidders

After the successful Bidder has acknowledged the employer's notice of acceptance, notify other Bidders that their tender offers have not been accepted. Bidders should consider their tender offers unsuccessful if they are not contacted within 90 days after the closing date.

F.3.15. Prepare contract documents

Contractor

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If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents,
- c) other revisions agreed between the employer and the successful Bidder, and
- d) the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.16 Issue final contract

Prepare and issue the final draft of contract documents to the successful Bidder for acceptance as soon as possible after the date of the employer's signing of the form of offer and acceptance (including the schedule of deviations, if any). Only those documents that the conditions of tender require the Bidder to submit, after acceptance by the employer, shall be included.

F.3.17 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

F.3.18 Provide copies of the contracts

Provide to the successful Bidder the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

3.19 Provide written reasons for actions taken

Provide upon request written reasons to Bidders for any action that is taken in applying these conditions of tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of Bidders or might prejudice fair competition between Bidders.

END OF SECTION

Contractor

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Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

T2.1 List of Returnable Documents

The Bidder must complete the following returnable documents:

Administrative Requirements	Tick if completed
Certificate of Authority for Joint Venture (<i>Compulsory where applicable</i>)	
Original Certified copy of identity documents for directors not older than six months	
Copy of Company Registration Documents or CK1 for Close Corporations	
Valid Tax Clearance Certificate Issued by the South African Revenue Service/ <i>PIN issued by SARS</i>	
Compliant CSD Registration/CSD Summary Report	
Initial All Pages (Required for Evaluation)	
Legislation Requirements (Compulsory)	Tick if completed
Invitation to Bid, Part A & B (MBD 1)	
Declaration of Interest (MBD4)	
Bids less than R10 million - If the estimated value of the transaction is less than R10 million, the bid documentation must require the bidders to furnish: - The Municipal rates for the bidder and its directors in respect of which payment is not overdue for more than 90 days or proof of lease agreement including rates for the landlord. In case where the Company or Director is registered in a rural area where the rates are not paid, please attach proof from the Local Authority and Affidavit under oath indicating that there are no municipal rates payable	
Bids exceeding R10 million - If the estimated value of the transaction exceeds R10 million, the bid documentation must require the bidders to furnish: - if the bidder is required by law to prepare annual financial statements for auditing, their audited annual financial statements for the past three years, or - since their establishment if established during the past three years. - A certificate signed by the bidder certifying that the bidder and any of its directors have no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days. - Municipal rates for the bidder and its directors in respect of which payment is not overdue for more than 30 days or proof of lease agreement including rates for the landlord. In case the company or Director is registered in a rural area where the rates are not paid, please attach proof from the Local Authority and an Affidavit under oath indicating that there are no municipal	

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rates payable.	
Declaration For Procurement Above R10 Million (Vat Included) (MBD 5)	
Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2022 (MBD 6.1)	
Contract Form - Rendering of Services (MBD 7.2)	
Declaration of Bidder's Past Supply Chain Management Practices (MBD8)	
Certificate of Independent Bid Determination (MBD9)	
Schedule 1A: Compulsory Enterprise Questionnaire	
Schedule 1B: Authority for Signatory	
Form of offer to be properly signed	
Proof of CIDB grading	
COIDA (Compulsory)	
Proof of Insurance	

Note:

The meaning of the cursive type for each Form is as follows:

- **Compulsory:** Documentation or Information that may be submitted with the tender (Failing to submit any one of these will result in the tender being deemed non-responsive and then be rejected).
- **Required for evaluation:** Additional documentation that is required to be submitted with the tender and will be used as part of the tender evaluation (Non-submission does not qualify for put right dismissal as a non-responsive tender, although It might contribute to an overall recommendation for deemed being non-responsive if the tender constitutes under risk to the municipality).
- It is the responsibility of the bidder to bind the bid document.
- Please complete all blank spaces on the forms; where not applicable, indicate as such (n/a)

Contractor

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LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM
(WORK PACKAGE 1)

T2.2 RETURNABLE SCHEDULES

Contractor

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T2.2 RETURNABLE SCHEDULES

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Contractor

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Witness 2

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Witness 1

Witness 2

T2.2.1 **FORM A: 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 the contract's requirements for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us.

	Name and address of proposed Subcontractor	Nature and extent of work
1.		
2.		
3.		
4.		
5.		

Signature of the person authorised to sign the Bid:

Date:

T2.2.2 FORM B: SCHEDULE OF PLANT AND EQUIPMENT

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

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

Quantity	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 Bid is acceptable.

Quantity	Description, size, capacity, etc.

Attach additional pages if more space is required.

Signature of the person authorised to sign the Bid:

Date:

T2.2.3 FORM C: RECORD OF ADDENDA TO BID DOCUMENTS

We confirm that the following communications received from the Employer before the submission of this Bid offer, amending the Bid documents, have been taken into account in this Bid offer:

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

Attach additional pages if more space is required.

Signature of person authorised to sign the Bid:

Date:

T2.2.4 FORM D: CERTIFICATE OF BIDDER'S ATTENDANCE OF COMPULSORY CLARIFICATION MEETING

This is to certify that I,

representative of (Bidder)

of (address)

.....

Telephone No:

Fax No :

attended a compulsory clarification meeting on theday of20.....

in the company of (Engineer's representative)

Signature of the person authorised to sign the Bid:

Date:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.5 FORM E: KEY PERSONNEL AND NON-LOCAL WORKERS TO BE EMPLOYED

The Bidder shall insert the names of non-local key personnel and non-local workers to be engaged on the Contract in the spaces below.

CATEGORY OF EMPLOYEE	NAME OF EMPLOYEE	Academic Qualifications	Professional Registration	YEARS EXPERIENCE
Construction Project Manager				
Site Agent				
Foreman				
Health & Safety Officer				

Attach additional pages if more space is required.

* The Contractor must fill in the various categories, e.g. Site, Agent, Foreman, Trainers, Plant Operators, Clerks, Technicians, Laboratory Assistants, etc, as required.

Signature of the person authorised to sign the Bid:

Date:

ContractorWitness 1Witness 2EmployerWitness 1Witness 2

T2.2.6 FORM F: SCHEDULE OF WORK CARRIED OUT BY THE BIDDER

The Bidder shall list in the spaces provided below a completed list of water supply-related contracts of similar nature awarded to the Bidder. This information may be deemed to be material to the award of this Bid. Proof should be submitted with this Bid, e.g. **Completion certificates or referral letters signed by Employer and Consultant.**

Description Nature of Work	Value (R) VAT excluded	Period work executed		Reference			
		Appointment Date	Completion Date	Name		Organisation	Tel no and email address
				Employer			
				Consultant			
				Employer			
				Consultant			
				Employer			
				Consultant			
				Employer			
				Consultant			
				Employer			
				Consultant			
				Employer			
				Consultant			
				Employer			
				Consultant			

Signature of the person authorised to sign the Bid:

Date:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Should the Bidder desire to have any departures from, or modifications to the General Conditions of Contract, Specifications, Bill of Quantities or Drawings considered, or to qualify his Bid in any way, he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his Bid and referred to hereunder.

[illegible]

Date:

11/11/2019

11

11

Witness 2

T2.2.8 FORM H: FINANCIAL REFERENCES

DETAILS OF BIDDER'S BANKING INFORMATION

Notes to bidder:

1.

The bidder shall attach to this form a certified copy or an original letter from the bank confirming the bank account and details, which is not older than three months. The bidder's banking details, as they appear below, shall be completed.
2.

In the event that the bidder is a joint venture enterprise, details of all the members of the joint venture shall be similarly provided and attached to this form.

BANK NAME:			
ACCOUNT NAME: (e.g. ABC Civil Construction cc)			
ACCOUNT TYPE: (e.g. Savings, Cheque etc)			
ACCOUNT NO:			
ADDRESS OF BANK:			
CONTACT PERSON:			
BANK RATING			
TEL. NO. OF BANK / CONTACT:			
BANK STAMP			
HOW LONG HAS THIS ACCOUNT BEEN IN EXISTENCE:	0-6 months		(Tick which is appropriate)
	7-12 months		
	13-24 months		
	More than 24 months		

SIGNATURE ON BEHALF OF BIDDER:

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

T2.2.9 FORM I: AUTHORITY OF SIGNATORY

(i) AUTHORITY FOR SIGNATORY

Signatories for companies must establish their authority by attaching to this form a copy of the relevant resolution by their Board of Directors, duly signed and dated.

An example is shown below:

"By resolution of the Board of Directors taken on20 Mr.
Has been duly authorised to sign all documents in connection with contract No.
And any contract which may arise therefrom on behalf of (block capitals)
.....

SIGNED ON BEHALF OF THE COMPANY:
IN HIS CAPACITY AS:
DATE:
SIGNATURE OF SIGNATORY:

*PLEASE NOTE THAT THIS IS JUST AN EXAMPLE OF AUTHORITY FOR SIGNATORY. YOU ARE REQUIRED TO SUBMIT A COPY OF A RELEVANT RESOLUTION OF THE BOARD OF DIRECTORS.

THIS APPLIES TO COMPANIES WITH MORE THAN ONE MEMBERS

FAILURE TO SUBMIT A COPY OF A RELEVANT RESOLUTION OF THE BOARD OF DIRECTORS SHALL DISQUALIFY THE TENDER.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

T2.2.10 FORM J: QUALITY MANAGEMENT SYSTEMS

Briefly describe the construction quality system incorporated by the Bidder in his organisation and which will be applicable to this Contract.

	Internal	External	Name of responsible Company /or Person (In case of Person, give years' experience and qualification)
Survey: Setting out of the works and control			
Testing Laboratory			
Additional quality systems			

Signature of the person authorised to sign the Bid:

Date:

The Bidder shall state the estimated cash flow on the contract in the table below based on his preliminary programme, his Bidded unit rates, and his submission of payment certificates to the Employer. Amounts for Contract Price Adjustment shall not be included.

What sources will you use to fund the above amount (e.g., funds internally available, bank overdraft, loan, partner (his source), etc.)?

Signature of the person authorised to sign the Bid:

Date:

Witness 2

T2.2.12 FORM L: CONSTRUCTION PROGRAMME

An Initial, suitable and realistic construction programme shall be submitted with this Bid document. The initial start date for the purpose of the programme is 1st November 2024. The programme shall be in the form of a Gantt chart and shall include the following details:

- A work breakdown structure, identifying the major activity groups.
- Further details regarding the scheduled start and end dates of individual activities will be provided for each activity group.
- The linkages between activities shall be clearly indicated and the logical network upon which the programme is based.
- The critical path(s) shall be clearly indicated, and floats on non-critical activities shall be shown.
- The Contractor shall indicate the working hours per day, night, week and month allowed for in the programme.
- Where relevant, the Contractor shall state the production rates for key activities, e.g. earthworks etc.

Together with the programme as detailed above, the Bidder shall submit a cash flow projection indicating projected monthly invoice amounts. The cash flow projection should relate to **FORM K** above.

Failure to submit the initial construction programme and cash flow are not eliminating factors, but zero (0) will be scored.

Signature of the person authorised to sign the Bid:

Date:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.13 FORM M: COMPLIANCE WITH OHSA (ACT 85 OF 1993)

Bidders are required to satisfy the Employer and the Engineer as to their ability and available resources to comply with the above by answering the following questions and providing the relevant information required below.

1.	Is the Contractor familiar with the OHSA (ACT 85 of 1993) and its Regulations?	YES / NO
2.	Who will prepare the Contractor's Health and Safety Plan? (Provide a copy of the person/s curriculum vitae/s or company profile).	
3.	Does the Contractor have a health and safety policy? (if yes, provide a copy). How is this policy communicated to all employees?	YES / NO
4.	Does the Contractor keep records of safety aspects of each construction site? If yes, what records are kept?	YES / NO
5.	Does the Contractor conduct monthly safety meetings? If yes, who is the chairperson of the meeting, and who attends these meetings?	YES / NO
6.	Does the Contractor have a safety officer in his employment, responsible for the overall safety of his company? If yes, please explain his duties and provide a copy of his CV.	YES / NO
7.	Does the Contractor have trained first aid employees? If yes, indicate, who.	YES / NO
8.	Does the Contractor have a safety induction training programme in place? (If yes, provide a copy)	YES / NO

Signature of The Bidder:

Date:

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

T2.2.14 FORM N: COMPANY INFORMATION FOR BIDS GREATER THAN R10 MILLION

1. The Bidder is required by law to prepare annual financial statements for auditing, their audited annual financial statements:

- i) for the past three years; or
- ii) since their establishment or established during the past three years.

Indicate whether these have been included in the Bid.

NO ☐ YES ☐

2. Does the Bidder have any undisputed commitments for Municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days?

NO ☐ YES ☐

If so, state particulars:
.....
.....

3. Has any contracts been awarded to the Bidder by an organ of state during the past five years?

NO ☐ YES ☐

If so, state particulars:
.....
.....

4. Has there been any material non-compliance or dispute concerning the execution of such contract?

NO ☐ YES ☐

If so, state particulars:
.....
.....

5. Is any portion of the goods or services expected to be sourced out from outside the Republic?

NO ☐ YES ☐

If so, state what portion and whether any portion of payment from the Municipality is expected to be transferred out of the Republic.

.....
.....

Signature of The Bidder:

Date:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.15 FORM O: MUNICIPAL RATES & CHARGES CLEARANCE CERTIFICATE

SCM 5

IT IS A CONDITION OF BIDDING I.R.O. GOODS, WORKS AND SERVICES ABOVE A TRANSACTION VALUE OF R15 000 (VAT INC) THAT –

1. The rates and taxes, as well as other charges (eg. water and electricity accounts) of the successful bidder must be in order, or satisfactory arrangements have been made with the municipality concerned to meet his/her obligations in this regard.
2. The attached form, "Application for municipal tax rates & charges Clearance Certificate", in respect of bidders must be completed in all respects and submitted to the municipality where the bidder or his/her business is located.
3. The relevant municipality will then furnish the bidder with a "Clearance Certificate" that is valid for twelve (12) months from the date of issue.
4. The bidder must obtain this clearance certificate at his/her own cost and submit it in the original, together with the rest of the bid documents.
5. Failure to submit the original valid Clearance Certificate or incomplete SCM5 Form may invalidate your bid.
6. In bids where consortia/joint ventures/sub-contractors are involved, each party must submit a separate Clearance Certificate.
7. Invoices will not be considered.
8. Rural service providers without municipal accounts must submit proof of residence and payment of tribal obligations.
9. The SCM 5 form provided must be completed, signed and stamped by an official of a municipality where you are paying services.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

APPLICATION FOR A TAX, RATES & OTHER MUNICIPAL CHARGES CLEARANCE CERTIFICATE (I.R.O. BIDDERS) - **SCM**
5

1. Full name of taxpayer / bidder

2. Trade name (if any)

3. Identification No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

4. Company / Close Company Registration No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

5. Municipal account No.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Signature of person requiring Clearance Certificate

Name:

Telephone No. CodeNumber

Residential Address:.....

Postal Address:.....

CLEARANCE CERTIFICATE BY MUNICIPALITY

I,in my capacity as
(full names) (designation)

of the municipality of..... Hereby certify that –
(name of municipality)

Tick the appropriate bullet.

- ☐ I have examined the municipal accounts of the above-named person/firm/company/close corporation and am satisfied that all his/her municipal accounts are up to date and fully paid.
- ☐ I have examined the above-named municipal accounts and have found the said accounts to be in arrears.
- ☐ I have examined the above-named municipal accounts and have found the said accounts being honored in terms satisfactory arrangement made with the Municipality.

Signature of official

Municipality of

MUNICIPAL STAMP

Telephone No. CodeNumber

Date:/...../20...

--

Contractor

--

Witness 1

--

Witness 2

--

Employer

--

Witness 1

--

Witness 2

T2.2.16 FORM P: TAX CLEARANCE REQUIREMENTS

MBD 2

IT IS A CONDITION OF BIDDING THAT -

1. The taxes of the successful bidder must be in order, or satisfactory arrangements have been made with the Receiver of Revenue to meet his / her tax obligations.
2. The attached form, "Application for Tax Clearance Certificate (in respect of bidders)", must be completed in all respects and submitted to the Receiver of Revenue where the bidder is registered for tax purposes. The Receiver of Revenue will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of twelve (12) months from the date of issue. This Tax Clearance Certificate must be submitted in the original together with the bid. Failure to submit the original and valid Tax Clearance Certificate may invalidate the bid.
3. In bids where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Clearance Certificate. Copies of the Application for Tax Clearance Certificates are available at any Receiver's Office.

MBD2/ Application for tax Certificate . . .

--	--	--	--	--	--

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

APPLICATION FOR TAX CLEARANCE CERTIFICATE
(IN RESPECT OF BIDDERS)

MBD2

1. Name of taxpayer/bidder:
2. Trade name:
3. Identification number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4. Company / Close Corporation registration number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5. Income tax reference number:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6. VAT registration number (if applicable):

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
7. PAYE employer's registration number (if applicable):

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Signature of contact person requiring Tax Clearance Certificate:

Name:

Telephone number: Code:..... Number:

Address:

.....

.....

DATE: 20____ / ____ / ____

PLEASE NOTE THAT THE COMMISSIONER FOR THE SOUTH AFRICAN REVENUE SERVICE (SARS) WILL NOT EXERCISE HIS DISCRETIONARY POWERS IN FAVOUR OF ANY PERSON WITH REGARD TO ANY INTEREST, PENALTIES AND/OR ADDITIONAL TAX LEVIABLE DUE TO THE LATE—OR UNDERPAYMENT OF TAXES, DUTIES OR LEVIES OR THE RENDITION OF RETURNS BY ANY PERSON AS A RESULT OF ANY SYSTEM NOT BEING YEAR 2000 COMPLIANT.

--

Contractor

--

Witness 1

--

Witness 2

--

Employer

--

Witness 1

--

Witness 2

T2.2.17 FORM Q: DECLARATION OF INTEREST

MBD 4

1. No bid will be accepted from persons in the service of the state.
2. Any person having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offer in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state it is required that the bidder or their authorised representative declare their position in relation to the evaluation/adjudication authority and/or take an oath declaring his/her interest

3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Full Name:

3.2 Identity Number:

3.3 Company Registration Number:

3.4 Tax Reference Number:

3.5 Vat Registration Number:

3.6 Are you presently in the service of the state? YES / NO

3.6.1 If so, furnish particulars.

.....
.....

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

3.7.1 If so, furnish particulars

.....
.....

3.8 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

YES / NO

3.8.1 If so, furnish particulars

.....
.....

3.9 Are you aware of any relationship (family, friend, other) between a bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

YES / NO

3.9.1 If so, furnish particulars

.....
.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3.10 Are any of the company's directors, managers, principal shareholders or stakeholders in service of the state?

YES / NO

3.10.1 If so, furnish particulars

.....
.....

3.11 Is any spouse, child or parent of the company's directors, managers, principal shareholders or stakeholders in service of the state?

YES / NO

3.11.1 If so, furnish particulars

.....
.....

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

YES / NO

3.12.1 If so, furnish particulars

.....
.....

DECLARATION / CERTIFICATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature Date

.....
Position Name of bidder

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

(a) a member of –

- (i) any municipal council
- (ii) any provincial legislature; or
- (iii) the national Assembly or the national Council of Provinces;

(b) a member of the board of directors of any municipal entity;

(c) an official of any municipality or municipal entity;

(d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);

(e) a member of the accounting authority of any national or provincial public entity; or

(f) an employee of Parliament or a provincial legislature.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.18 FORM R: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED)

MBD 5

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

- 1 Are you, by law, required to prepare annual financial statements for auditing?

*YES / NO

- 1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

.....

.....

- 2 Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days?

*YES / NO

2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service providers in respect of which payment is overdue for more than 30 days.

2.2 If yes, provide particulars.

.....

.....

* Delete if not applicable

- 3 Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?

*YES / NO

3.1 If yes, furnish particulars

.....

.....

- 4 Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of the payment from the municipality / municipal entity is expected to be transferred out of the Republic?

*YES / NO

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.19 FORM S: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

MBD 6.1

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

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

1. GENERAL CONDITIONS

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

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

1.2 To be completed by the organ of state

(delete whichever is not applicable for this tender).

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

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

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

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

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1 POINTS AWARDED FOR PRICE

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

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

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

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

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

3.2.1 POINTS AWARDED FOR PRICE

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

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Where

- Ps = Points scored for price of tender under consideration
Pt = Price of tender under consideration
Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1 In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2 In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

The specific goals allocated points in terms of this tender	Number of points allocated (90/10 system) (To be completed by the organ of state)	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (90/10 system) (To be completed by the tenderer)	Number of points claimed (80/20 system) (To be completed by the tenderer)
HDI (blacks, Indians and Coloureds)	6	12		
Woman-Ownership of than 50%	1	2		
Disability ownership of more than 50% (Physically Impaired)	1	2		
Youth	1	2		
Locality	1	2		
Total	10	20		

Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5. DECLARATION WITH REGARD TO COMPANY/FIRM

5.1. Name of company/firm.....

5.2. Company registration number:

5.3. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
 - ☐ One-person business/sole propriety
 - ☐ Close corporation
 - ☐ Public Company
 - ☐ Personal Liability Company
 - ☐ (Pty) Limited
 - ☐ Non-Profit Company
 - ☐ State Owned Company
- [TICK APPLICABLE BOX]

5.4. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualify the company/ firm for the preference(s) shown and I acknowledge that:

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

WITNESSES

1.

2.

SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

T2.2.20 FORM T: CONTRACT FORM - PURCHASE OF GOODS/WORKS

MBD 7.2

CONTRACT FORM - RENDERING OF SERVICES

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to Sekhukhune District Municipality in accordance with the requirements and task directives/proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Proof of tax compliance status;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Preference claim form for Preferential Procurement in terms of the Preferential Procurement Regulations;
 - Declaration of interest;
 - Declaration of Bidder's past SCM practices;
 - Certificate of Independent Bid Determination;
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

WITNESSES

1

2

DATE:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONTRACT FORM - RENDERING OF SERVICES

PART 2 (TO BE FILLED IN BY THE PURCHASER)

1. I.....in my capacity as.....
accept your bid under reference numberdated.....for the rendering
of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and
conditions of the contract within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	TOTAL PREFERENCE POINTS CLAIMED	POINTS CLAIMED FOR EACH SPECIFIC GOAL

4. I confirm that I am duly authorised to sign this contract.

SIGNED AT ON

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.21 FORM U: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

MBD 8

1. Any Bid may be rejected if that Bidder or any of its directors have:

- abused the Municipality's / Municipal entity's supply chain management system or committed any improper conduct in relation to such system;
- been convicted for fraud or corruption during the past five years;
- willfully neglected, reneged on or failed to comply with any government, Municipal or other public sector contract during the past five years; or
- been listed in the Register for Bid Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).

2. In order to give effect to the above, the following questionnaire must be completed and submitted with the Bid:

Item	Question	Yes	No
2.1	Is the Bidder any of its directors listed on the National Treasury's database as a company or persons prohibited from doing business with the public sector? (Companies for persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes ☐	No ☐
2.1.1	If so, furnish particulars:		
2.2	Is the Bidder or any of its directors listed on the Register for Bid Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? (To access this Register, enter the National Treasury's website, www.treasury.gov.za , click on the icon "Register for Bid Defaulters", or submit your written request for a hard copy of the Register to facsimile number (012)3265445)	Yes ☐	No ☐
2.2.1	If so, furnish particulars:		
2.3	Was the Bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
2.3.1	If so, furnish particulars:		
2.4	Does the Bidder or any of its directors owe any Municipal rates and taxes or Municipal charges to the Municipality / Municipal entity, or to any other Municipality / Municipal entity, that is in arrears for more than three months?	Yes ☐	No ☐
2.4.1	If so, furnish particulars:		
2.5	Was any contract between the Bidder and the Municipality / Municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or to comply with the contract?	Yes ☐	No ☐
2.5.1	If so, furnish particulars:		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CERTIFICATION

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

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

.....
SIGNATURE

.....
DATE

.....
POSITION

.....
NAME OF BIDDER

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.22 FORM V: COMPULSORY ENTERPRISE QUESTIONNAIRE PRACTICES

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																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Name*</th> <th style="width: 30%;">Identity number*</th> <th style="width: 30%;">Personal income tax number*</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>				Name*	Identity number*	Personal income tax number*															
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 of 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 12 months in the service of any of the following:																					
1. a member of any municipal council 2. a member of any provincial legislature 3. a member of the National Assembly or the National Council of Province 5. a member of the board of directors of any municipal entity 7. an official of any municipality or municipal entity 4. 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) 6. a member of an accounting authority of any national or provincial public entity 8. an employee of Parliament or a provincial legislature																					
If any of the above boxes are marked, disclose the following: (insert separate page if necessary)																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2" style="width: 35%;">Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder</th> <th rowspan="2" style="width: 35%;">Name of institution, public office, board or organ of state and position held</th> <th colspan="2" style="width: 30%;">Status of service (tick appropriate column)</th> </tr> <tr> <th style="width: 15%;">current</th> <th style="width: 15%;">Within last 12 months</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>				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												
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 page if necessary																					

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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:

- | | |
|---|--|
| 9. a member of any municipal council | 12. 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) |
| 10. a member of any provincial legislature | |
| 11. a member of the National Assembly or the National Council of Province | 14. a member of an accounting authority of any national or provincial public entity |
| 13. a member of the board of directors of any municipal entity | 16. an employee of Parliament or a provincial legislature |
| 15. an official of any municipality or municipal entity | |

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 page if necessary

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

- authorises the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- 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 of 2004;
- 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;
- 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;
- confirms that the contents of this questionnaire are within my personal knowledge and are, to the best of my belief, both true and correct.

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 Date

Name Position

Tenderer

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

T2.2.23 FORM W: CERTIFICATE OF INDEPENDENT BID DETERMINATION

MBD 9

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

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

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

--	--	--	--	--	--

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

in response to the invitation for the bid made by:

SEKHUKHUNE DISTRICT MUNICIPALITY

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the bidder to sign this Certificate and to submit the accompanying bid on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorised by the bidder to determine the terms of and to sign the bid on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organisation, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

MBD 9

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- (a) prices;
 - (b) geographical area where the product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid;
- or
- (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

PORTION 2: CONTRACT

PART C1: AGREEMENTS AND CONTRACT DATA

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

AGREEMENTS AND CONTRACT DATA

INDEX

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C1.4	GUARANTEE (CASH DEPOSIT).....	C1.4.1
C1.5	OCCUPATIONAL HEALTH AND SAFETY AGREEMENT.....	C1.5.1

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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: PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1): SK8/3/1-11/2024/2025

The Bidder, 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 the tender.

By the representative of the Bidder, deemed to be duly authorised, signing this part of this form of offer and acceptance, the Bidder offers to perform all of the contractor's obligations and liabilities 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 the contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

..... Rand (in words);
R (in figures)

The employer may accept this offer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Bidder before the end of the period of validity stated in the tender data. Then, the Bidder becomes the party named as the contractor in the conditions of contract identified in the contract data.

Signature Date

Name

Capacity

for the Bidder

(Name and
address of
organization)

.....

Name and
signature
of witness

ContractorWitness 1Witness 2EmployerWitness 1Witness 2

Acceptance

By signing this part of this form of offer and acceptance, the employer identified below accepts the Bidder's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of the contract identified in the contract data. Acceptance of the Bidder's offer shall form an agreement between the employer and the Bidder 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 1 to 4 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 Bidder 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 Bidder shall, within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. 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 Bidder receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the Bidder (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

Date

Name

Capacity

for the Employer

Sekhukhune District Municipality
AB Skosana Fire Station
Groblersdal, 0470

Name and signature of witness

Date

.....

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Schedule of Deviations

Notes:

1.

The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender;
2.

A Bidder’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 shall also be recorded here;
4.

Any change or addition to the tender documents arising from the above agreements and recorded here shall also be incorporated into the final draft of the Contract.

1 Subject

Details

2 Subject

Details

3 Subject

Details

4 Subject

Details

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5 Subject

Details

By the duly authorised representatives signing this agreement, the employer and the Bidder 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 Bidder 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 Bidder of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C1.2 CONTRACT DATA

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

CONTRACT DATA

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C1.2.2	VARIATIONS AND ADDITIONS TO THE GENERAL CONDITIONS OF CONTRACT (SPECIAL CONDITIONS OF CONTRACT).....	C1.2.2
C1.2.3	DATA PROVIDED BY THE EMPLOYER.....	C1.2.18
C1.2.4	DATA PROVIDED BY THE CONTRACTOR.....	C1.2.20

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C1.2 Contract Data

C1.2.1 GENERAL CONDITIONS OF CONTRACT

The General Conditions of Contract for Construction Works Third Edition, 2015, published by the South African Institution of Civil Engineer's, Private Bag X200, Halfway House, 1685 is applicable to this contract. Copies of these conditions of contract may be obtained from www.saice.org.za.

The General Conditions of Contract for Construction Works make 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 general conditions of the contract.

Each item of data given below is cross-referenced to the clause in the General Conditions of Contract for Construction Works to which it mainly applies.

5.11.2	Suspension of the Works by Employer's Agent Add the following paragraph: "The contractor shall protect, store and secure the works against any deterioration, loss or damage."
5.11.4	Claim as a consequence of suspension Delete wording under clause 5.11.4 and replace with the following: "Unless such suspension or alteration is otherwise provided for in the Contract, or by reason of some default or breach of the Contract by the Contractor, the Contractor shall in respect of delay to Practical Completion be entitled to make a claim in accordance with Clause 10.1 and the Cost payable shall be the Suspension cost calculated under Preliminary and General Section, as appropriate having regard to any other compensation which may already have been granted in respect of the circumstances concerned. The Contractor shall not be entitled to an extension of time for, or to payment of the cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with Clause 5.11.2"
5.12.2.2	The additional clauses to the General Conditions of Contract are: Extensions of time in respect of clause 5.12.2.2 in respect of abnormal rainfall shall be calculated using the following formula for each calendar month or part thereof: $V = (Nw - Nn) + \frac{(Rw - Rn)}{X}$ Where: V = Extension of time in calendar days in respect of the calendar month under consideration. Nw = Actual number of days during the calendar month on which a rainfall of 10 mm or more has been recorded. Nn = Average number of days in the relevant calendar month, as derived from existing rainfall records, as stated in the Site Information, on which a rainfall of 20mm or more has been recorded for the calendar month. Rw = Actual average rainfall in mm recorded for the calendar month under consideration.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

	Rn = Average rainfall in mm for the calendar month as derived from existing rainfall records as stated in the Site Information. For purposes of the Contract, Nn, Rn, X, and Y shall have those values assigned to them in the Appendix and/or the Specification. If V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn. The total extension of time shall be the algebraic sum of all monthly totals for the period under consideration, but if the total is negative, the time for completion shall not be reduced due to subnormal rainfall. Extensions of time for part of a month shall be calculated using pro rata values of Nn and Rn. This formula does not take into account flood damage, which could cause further or concurrent delays, and will be treated separately as far as extension of time is concerned. The factor (Nw – Nn) shall be considered to represent a fair allowance for variations from the average in the number of days during which rainfall exceeds 10 mm. The factor (Rw-Rn) shall be considered to represent a fair allowance for variations from the average in the number of days during which the rainfall did not exceed 10 mm, but wet conditions prevented or disrupted work. For the purpose of applying the formula, accurate rain gauging shall be taken at a suitable point on the Site and the Contractor shall at his own expense, take all necessary precautions to ensure that rain gauges cannot be interfered with by unauthorised persons. A delay caused by inclement weather conditions will be regarded as a delay only if, in the opinion of the engineer, all progress on an item or items of work on the critical path of the working programme of the contractor has been brought to a halt. Delays on working days only (based on a five-day working week) will be taken into account for the extension of time, but the contractor shall make provision in his programme of work for an expected delay of "n" working days caused by normal rainy weather, for which he will not receive any extension of time, where "n" equals days. Extension of time during working days will be granted to the degree to which actual delays, as defined above, exceed the number of "n" workings days as mentioned in the project specifications.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Part 1: Contract Data Completed by the Employer

Clause	
1.1.1.15	The name of the Employer is the Sekhukhune District Municipality .
1.2.1.2	The address of the Employer is: Telephone: 013 262 7535 Facsimile: 013 262 3688 Address (physical): Bareki Mall, Corner Van Riebeeck & Chris Wiid Streets, Groblersdal, 0470 Address (postal): Private Bag X8611, Groblersdal, 0470
1.1.1.16	The name of the Employer's Agent is Tlou Integrated Tech .
1.2.1.2	The address of the Employer's Agent is: Address (physical): 9 Ivy Street Sunnyside 0001 Address (postal): P.O Box 12859 Hatfield 0028 Telephone: 012 343 7120 Facsimile: 012 343 7132
1.1.1.14	The works shall be completed within 6 months, exclusive of the year-end break.
1.1.1.26	The Pricing Strategy is Re-measurement Contract
3.1.3	The Employer's Agent is required to obtain the specific approval of the Employer before executing any of the following functions or duties: 9. Nominating the Employer's Agent's Representative in terms of cl 3.3 10. Delegation of Employer's Agent's Representative authority in terms of cl 3.3.4 11. Providing consent for subcontracting part of the contract in terms of cl 4.4.2 12. The issuing of further drawings or instructions in terms of cl 5.9.2 13. The issuing of instructions for dealing with fossils and the like in terms of cl 4.7. 14. Authorizing the Contractor to repair and make good excepted risks in terms of cl 8.3. 15. The issuing of a variation order in terms of cl 6.3. 16. Issuing of instructions to carry out work on a day work basis in terms of cl 6.5. 17. Granting permission to work during non-working times in terms of cl 5.8.1. 18. Suspend the progress of the works in terms of cl 5.11.2. 19. The issuing of an instruction to accelerate progress in terms of cl 5.12.4. 20. The reduction of a penalty for delay in terms of cl 5.13.2 21. The determination of additional or reduced costs arising from changes in legislation in terms of cl 6.8.4. 22. The giving of a ruling on a contractor's claim in terms of cl 10.1.5 23. The agreeing of an extension to the 28 period in terms of cl 10.1.5.1 24. The inclusion of credits in the next payment certificate in terms of cl 10.1.5.2 25. The agreement of the adjustment of the sums for general items in terms of cl 5.12.3
5.3.1	The documentation required before commencement with Works execution are: • Health and Safety Plan (Refer to Clause 4.3) • Initial programme (Refer to Clause 5.6) • Security (Refer to Clause 6.2) • Insurance (Refer to Clause 8.6)
5.3.2	The time required to submit the documentation before commencement with Works execution is 28 days.
5.13.1	The penalty for failing to complete the Works is R 2 000.00 per calendar day within the approved contract duration.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

5.14.5.2	The Defects Liability Period is 12 months from the issue of a Certificate of Completion.
6.8.2	The value of the payment certificates is to be adjusted in accordance with the Contract Price Adjustment Schedule, where: The value of "x" is 0,1 The values of the coefficients are: a = 0.20 b = 0.20 c = 0.55 d = 0.05 The province wherein the larger part of the Site is located in Limpopo. The base month is the month prior to the closing of the tender.
6.8.3	Price adjustments for variations in the costs of special materials are allowed.
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80%
6.10.3	The limit of retention money is 10% of the Contract Price (Exclusive of contingencies and VAT). The retention money will be deducted from each progress payment certificate. The liability for the guarantee shall be 10% of the Contract Price (Exclusive of contingencies and VAT). The Form of Guarantee is to contain the wording of the document included in C1.3.
8.6.1.3	The limit of liability insurance is R 2 000 000 per claim.
10.5.2	Dispute resolution is to be by means of ad hoc adjudication.
10.7.1	Disputes are to be referred to arbitration for final settlement.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Part 2: Data provided by the Contractor

Clause																											
1.1.1.9	The name of the Contractor is.																										
1.2.1.2	The address of the contractor is: Address (physical): Address (postal): Telephone: Facsimile:																										
6.8.3	The variation in the cost of special materials is: <table><tr><th rowspan="2">Special material</th><th colspan="2">Unit on which variation will be determined</th><th rowspan="2">Price for base month ex-factory, excluding transport, labour or any other costs.</th></tr><tr><th>Containers</th><th>Delivered in bulk</th></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> *State unit in the appropriate column	Special material	Unit on which variation will be determined		Price for base month ex-factory, excluding transport, labour or any other costs.	Containers	Delivered in bulk																				
Special material	Unit on which variation will be determined		Price for base month ex-factory, excluding transport, labour or any other costs.																								
	Containers	Delivered in bulk																									

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C1.3 Form of Guarantee

Contract No WHEREAS **Sekhukhune District Municipality** (hereinafter referred to as the Employer”) entered into, a Contract with:

.....
(hereinafter called “the Contactor”) on the day of20.....,
for
at Eenzaam.

AND WHEREAS it is provided by such Contract that the Contractor shall provide the Employer with security by way of a guarantee for the due and faithful fulfilment of such Contract by the Contractor;

AND WHEREAS has / have at the the request of the Contractor agreed to give such guarantee;

NOW THEREFORE WE do hereby guarantee and bind ourselves jointly and severally as Guarantor and Co-principal Debtors to the Employer under renunciation of the benefits of division and excursion for the due and faithful performance by the Contractor of all the terms and conditions of the said Contract, subject to the following conditions:

1. The Employer shall, without reference and / or notice to us, have complete liberty of action to act in any manner authorised and/or contemplated by the terms of the said Contract and/or to agree to any modifications, variations, alterations, directions or extensions of the completion date of the works under the said Contract, and that its rights under this guarantee shall in no way be prejudiced nor our liability hereunder be affected by reason of any steps which the Employer may take under such Contract, or of any modification, variation, alterations of the completion date which the Employer may make, give, concede or agree to under the said Contract.
2. This guarantee shall be limited to the payment of a sum of money.
3. The Employer shall be entitled, without reference to us, to release any guarantee held by it and to give time to or compound or make any other arrangement with the Contractor.
4. This guarantee shall remain in full force and effect until the issue of the Certificate of Completion in terms of the Contract unless we are advised in writing by the Employer before the issue of the said Certificate of his intention to institute claims, and the particulars thereof, in which event this guarantee shall remain in full force and effect until all such claims have been paid or liquidated.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

5. Our total liability hereunder shall not exceed the Guaranteed Sum of
.....Rand (in words); R (in figures)
6. The Guarantor reserves the right to withdraw from this guarantee by depositing the Guaranteed Sum with the beneficiary, whereupon our liability hereunder shall cease.
7. We hereby choose our address for the serving of all notices for all purposes arising here from as
.....
.....
.....
.....

IN WITNESS WHEREOF this guarantee has been executed by us at
on this day of 20

Signature
Duly authorized to sign on behalf of
Address
.....
.....

As witnesses:

1

2

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C1.4 SAFETY AGREEMENT

MEMORANDUM OF AGREEMENT CONCLUDED BY AND BETWEEN:

SEKHUKHUNE DISTRICT MUNICIPALITY
(HEREINAFTER REFERRED TO AS THE MUNICIPALITY)

herein represented by _____
in his capacity as _____
of the Municipality, he being duly authorised thereto

and

(hereinafter referred to as the Mandatory)

herein represented by _____
in his capacity as _____
of the Mandatory, he being duly authorised thereto

WHEREAS:

1. The Municipality and the Mandatory entered into a written, alternatively oral agreement on the.....Day of20..... in terms of which the Mandatory undertook to carry out the following work for the Municipality, viz. (give a short description of the type of contract work to be done as well as the address where work will be done)

(The said contract work is hereinafter referred to as the **Work**)

2. The Occupational Health and Safety Act, Act 85 of 1993 as amended (hereinafter referred to as **the Act**) contains, amongst others, certain provisions with regard to the health and safety of people at work

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- and in connection with the usage of plant and machinery, as well as the protection of other persons than persons at work against hazards to health and safety that originates from or in connection with the activities of persons at work.
3. Section 37(2) of the Act makes provision for the exclusion by the parties, by way of a written greement, of supposition and accompanying liability of the Municipality as stipulated in section 37(1) of the Act.
 4. The parties have reached a consensus with regard to the terms and conditions to which they agree in terms of the provisions of section 37(2) of the Act.

NOW THEREFORE THE PARTIES AGREE AS FOLLOWS

1.

WRITTEN AGREEMENT

The parties herewith agree in terms of section 37(2) of the Act on the arrangements and procedures that must be followed to ensure compliance with the provisions of the Act by the Mandatory.

2.

ACKNOWLEDGEMENT BY THE MANDATORY

The mandatory acknowledge herewith that he is fully acquainted with the contents of the Act, as well as with all regulations and SABS codes of practice that have been made in terms of section 43 of the Act.

3.

UNDERTAKING BY MANDATARY

- (a) The Mandatory hereby undertakes and binds himself to the Municipality to ensure prompt and strict compliance with the provisions of the Act and the said regulations as well as with the provisions included in this Safety Agreement at all times during the execution of the Works
- (b) It is hereby recorded that the provisions of this Safety Agreement as set out hereinafter are in no way intended to restrict the duties of the Mandatory, nor to exempt the Mandatory from his obligation in accordance with the Act and the said regulations

4.

PERSONAL PROTECTIVE EQUIPMENT

- (a) It is compulsory to wear equipment for eye protection when working in an eye protection zone or where the Work requires eye protection.
- (b) It is compulsory to wear safety helmets when working in a safety helmet zone or where the Work requires safety helmets.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

- (c) It is compulsory to wear hearing protection when working in a noise zone or where the Work requires hearing protection.
- (d) The wearing of other protective clothing and equipment as prescribed by the Occupational Health and Safety Officer of Sekhukhune District Municipality is compulsory.
- (e) The Mandatory shall ensure that the statutory requirements are complied with at all times.

5.

FENCING AND GENERAL MACHINERY PROTECTION

No shield or fencing may be removed from or be moved at any machinery or installation without written permission.

6.

SCAFFOLDING, LADDERS, TOOLS, ET CETERA

The Mandatory without the written permission of the Municipality may use no equipment or tools that belong to the Municipality.

Except where agreed beforehand the Mandatory shall provide enough tools and equipment to enable him to complete the Works and the Mandatory shall provide all storerooms, offices and eating halls that he may need. The Mandatory will be responsible for all his material on site.

In special case where the Municipality may lend equipment, tools or materials to the Mandatory, the Mandatory will use such equipment, tools and/or materials at his own risk, and the Mandatory herewith indemnifies the Municipality against any liability of whichever nature or from any cause whatsoever, whether direct or indirect, that may arise from such usage.

7.

SERVICES AND WORKING METHODS

The written permission of the Municipal Manager of the Municipality shall be obtained where any work which must be undertaken by the Mandatory is connected with a working process or machinery or any other service in connection therewith, or may possibly affect it before he commences with such work.

Approval shall be obtained from the Electrical Engineer of the Municipality before any equipment is connected to the electrical supply of the Municipality All equipment shall be isolated before any equipment is connected to the electrical supply of the Municipality. It shall be isolated and be provided with earth leakage protection. Electrical machinery, portable electrical tools and portable lights must comply with the requirements of the applicable regulations.

Work permits must be issued in terms of the Occupational Health and Safety Act and Regulations when the nature of the work requires it. Permits must be issued by the relevant departmental head where necessary.

8.

EXCAVATIONS

Written permission for excavations shall be obtained from the Engineer of the Municipality, and the Mandatory shall make sure of the existence and position of electrical cables, discharge pipes, gas lines,

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

water conduits, et cetera before he commences with any excavation work.

All excavations and obstructions and/or any openings in platforms or floors shall be enclosed in a safe way and warning notices shall be erected to ensure absolute safety. An adequate number of red or orange caution lights shall be provided when it is dark or should bad light prevail.

The area surrounding excavations shall be kept in a safe, orderly and tidy condition. No loose material of whatever nature may be left in walkways or workplaces or be allowed to block walkways or workplaces.

Nobody may enter into any restricted area in which hazardous fumes or a shortage of oxygen exists without a permit giving permission to do so, issued by the head of the relevant department of the Municipality and until it has been certified safe for entrance by the Occupational Health and Safety Officer and the Health Inspector of the Municipality.

9.

RESTRICTION TO WORKPLACE

Employees of the Mandatory shall be restricted to their workplaces except when they have to leave their area for work purposes or when they visit toilets.

10.

SUBCONTRACTORS

The Mandatory shall ensure that all subcontractors receive a copy of this safety agreement and must ensure they comply with it.

11.

OCCUPATIONAL HEALTH AND SAFETY OFFICER AND THE REPORTING OF ALL ACCIDENTS

The Occupational Health and Safety Officer of the Municipality are available for consultation, and he will make periodical visits to the workplace of the Mandatory. Any hazardous occurrence or incident to the employees of the Mandatory that results in absence from work for a period longer than three days shall be reported in writing to the Occupational Health and Safety Officer of the Municipality within forty-eight hours as well as to the Department of Labour as specified by the Act. Every user, employer, occupier, builder or excavator must, under this Act, keep a record of all accidents that occur.

In the case of an accident that results in loss of life, nobody may disturb the scene of the accident or any articles involved in the accident prior to the arrival of the Occupational Health and Safety Officer and the Inspector unless it is to prevent another accident from happening or the prevention of loss of life or to remove corpses.

The Occupational Health and Safety Officer will issue contravention notices to the Mandatory or a sub-contractor when there is a noncompliance and will specify the time in which it must be rectified.

The Occupational Health and Safety Officer will issue work stop notices to the Mandatory or sub-contractor whenever he is of the opinion that the health and safety of any person at work is threatened or that the contravention notices are not adhered to.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

12.

FIRST AID

Where five or more persons are employed at a workplace, the Mandatory shall provide and maintain an adequately equipped first-aid box that meets the following requirements.

- (a) Every first-aid box shall contain the minimum contents as prescribed by the Occupational Health and Safety Act.
- (b) Nothing except articles and equipment required for first-aid purposes may be kept in the first-aid box.
- (c) Each first-aid box shall be kept in a place readily accessible in case of an accident.

All first-aid boxes shall be placed under the control of a responsible person except where five or fewer persons are at work. The responsible person must be in the possession of a valid first-aid certificate issued by one of the following organisations:

- A South African Red Cross Society
- B St. John’s Ambulance Foundation
- C South-African First-Aid League

A notice indicating where the first-aid box is kept, as well as the name of the person in charge, shall be affixed in a conspicuous place. The first-aid facilities of the Municipality may be used during emergencies.

13.

FIRE PREVENTION MEASURES AND STORAGE OF FLAMMABLE MATERIAL

The Fire department of the Municipality shall be notified before any welding, oxyacetylene welding, cutting, or burning of paint or tar from floors or roofs is undertaken so that the necessary fire prevention measures can be arranged. All “NO SMOKING AND OPEN SURFACE FIRES/LIGHTS PROHIBITED” notices shall be adhered to. The Mandatory and his senior employee shall acquaint themselves and their fellow workers with the fire prevention measures of the Municipality, which will also include fire alarm notices and exits in case of fire, and they shall ensure that these rules are strictly complied with.

14.

COMPLETION OF WORK

Before the mandatory or his sub-contractors leave the site, they shall inform the Head of the relevant Department of the Municipality and obtain his/her written approval that the work has been completed satisfactorily and that the site of the work is left in a good condition.

5.

SALVAGED MATERIAL AND EQUIPMENT

Any building demolished or equipment or materials that are salvaged whilst carrying out the work shall remain the property of the Municipality, unless the contract specifically provides otherwise.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

16.

BREAKING OF THESE RULES AND POOR CONDUCT

The Mandatory is warned that no behaviour that causes danger to their own employees, to the employees of the Municipality or to the general public will be tolerated. The Occupational Health and Safety Officer of the Municipality reserves the right to withdraw any employees of the Mandatory or Municipality from the premises in the case of any default or breach of the agreement and to order that the completion of the work be stayed, pending compliance with this agreement; alternatively to cancel the agreement referred to in par.2 in which event the Municipality will be entitled to appoint an alternative contractor to complete the work and recover the costs thereof from the mandatory, without prejudice to any alternative or additional right or action or remedy to the Municipality, to recover from the mandatory damages for the default or breach and the cancellation.

The senior employees of the Mandatory shall sign a note of acknowledgement of this safety agreement to certify that they have received the regulations as included herein and that they understand the regulations.

17.

INTOXICATION

Nobody who is in a state of intoxication or who is in any other condition that causes or may cause his/her incapability to control him/herself or persons under his control may and shall not be permitted on the premises of the Municipality. The Occupational Health and Safety Officer of the Municipality reserves the right to the withdrawal of any employees of the Mandatory or Municipality from the premises in the case of any transgression of this nature.

18.

CONFIDENTIALLY

The Mandatory shall at all times treat data and information that have been made known to him or that he requires in connection with his work from the Municipality as confidential, and he may not make unauthorised use thereof. He must also ensure that such data and information are not communicated to anybody else who is not an employee of the Mandatory without obtaining prior written approval from the Municipality, and he must further ensure that such persons do, in fact, know that the said information is confidential and that they are obliged to treat it as such.

The Mandatory shall provide for adequate physical protection for any confidential documents, sketches, et cetera that he receives from the Municipality in connection with the work as well as for any copies thereof that he makes. He shall hand back all documents, sketches, and copies thereof to the Municipality upon completion of the work, or earlier, if so requested by the Municipality. The Mandatory shall inform the Municipality immediately should any such documents or sketches become lost.

19.

INDEMNIFICATION BY THE MANDATORY

The following conditions will be applicable to the Mandatory:

- (a) The Mandatory is liable and herewith indemnifies the Municipality irrevocably and in full against any claim for loss or damage to property or arising from death or injury of any person and any associated loss or damage suffered, and against all lawsuits, claims, demands, costs, expenses, and charges that

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- may arise when the said occurrences are caused on purpose or through the negligence, violation of legal obligations or failure by the Mandatory or its employees.
- (b) Whenever any of the employees of the Municipality is busy with work to, or with the supply of material that will be used during the execution of the work by the Mandatory, or otherwise busy with work under the instruction and supervision of the Mandatory, in as far as they may be negligent or fail to do there duty, they will be regarded as employees of the mandatory
- (c) All installations, equipment, hoisting-apparatus and other implements, scaffolding, ladders, material, et cetera that are borrowed from the Municipality by the Mandatory for usage during the execution of the work, will be used entirely at the risk of the Mandatory or employees of the Mandatory and the Mandatory herewith indemnifies the Municipality irrevocably and in full against any liability that may arise from such usage.

20.

AMENDMENTS MUST BE IN WRITING

The parties agree herewith that this safety agreement is the only safety agreement between them and that no amendment thereof will be valid unless it is in writing and signed by both parties.

21

JURISDICTION AND LEGAL COSTS

In the event of any legal action being instituted pertaining to this agreement, the party in default or breach will be liable for the other party's legal costs on the scale as between attorney and own client, and the parties consent to the jurisdiction of the magistrate's court for the purpose of any legal action being instituted.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

PARTICULARS OF THE MANDATORY

Name (Mandatory).....

C.E.O. (Section 16(1)).....

ID NO.....

Designation.....

Name of Business.....

Address of Business.....

Tel number (h)..... (w)..... e-mail.....

Number of employees employed.....

Registration number as allocated to the Mandatory by the Workman’s Compensation Commissioner
..... (attach proof)

Date allocated.....

Thus done and signed on this.....day of20....

As witnesses:

.....(Signature)..... (Name in print)

.....(Signature)..... (Name in print)

.....(Signature)..... (Name in print)

THE MANDATARY

Thus done and signed on this.....day of20....

.....(Signature)..... (Name in print)

As witnesses

.....(Signature)..... (Name in print)

.....(Signature)..... (Name in print)

THE MUNICIPALITY

Acknowledgement of receipt of the agreement:

.....
THE MANDATORY

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

PART C2 PRICING DATA

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C2.1 Pricing Instructions

- 1 The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable, the:
 - a) civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardized Specifications for Civil Engineering Works.
 - b) mechanical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Refrigeration, Air-Conditioning and Ventilation Installations, published by the South African Association of Quantity Surveyors, July 1990).
 - c) electrical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors (July 2005).
- 2 The agreement is based on the General Conditions of Contract for Construction Works Third Edition, 2015, published by the South African Institution of Civil Employer's Agenting. The additions, deletions and alterations to the General Conditions of Contract for Construction Works 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 Bills of Quantities are recited.
- 3 Preliminary and general requirements are based on the various parts of SANS 1921, Construction and management requirements for works contracts. The additions, deletions and alterations to the various parts of SANS 1921 as well as the contract specific variables are as stated in the Specification Data in the Scope of Work. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
- 4 It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
- 5 The drawings listed in the Scope of Works used for the setting up these Bills of Quantities are kept by the quantity surveyor and can be viewed at any time during office hours up until the completion of the works.
- 6 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.
- 7 Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
- 8 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 (Preliminary and General) of the Bills of Quantities
- 9 The Bills of Quantities are not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
- 10 The amount of the Preliminary and General Sections 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 bear to the total of prices, excluding any contingency sum, the

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

- amount for the Preliminary and General Section and any amount in respect of contract price adjustment provided for in the contract.
- 11 Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 10 but taking into account the revised period for completing the works.
- 12 The amount or items of the Preliminary and General Section 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 Bills of Quantities:
- a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period, excluding revisions to the construction period for which no adjustment to the contractor is not entitled in terms of the contract, namely Time Related (T).
- 13 Where no provision is made in the Bills of Quantities to indicate which of the three categories in 12 apply or where no selection is made, the adjustments shall be based on the following breakdown:
- a) 10 percent is Fixed;
 - b) 15 percent if Value Related
 - c) 75 percent is Time Related.
- 14 The adjustment of the Preliminary and General Section shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminary and General Section shall exclude any contingency sum, the amount for the Preliminary and General Section 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.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C2.1 Pricing Instructions

- 1 Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SABS 1200 Standardized Specifications for Civil Engineering Construction referred to in the Scope of Work. The Preliminary and General items shall be measured in accordance with the provisions of SABS 1200-A, *General*.
2. The units of measurement described in the Bills of Quantities are metric units. Abbreviations used in these Bills of Quantities are as follows:

%

=

percent

h

=

hour

ha

=

hectare

kg

=

kilogram

kl

=

kilolitre

km

=

kilometer

km-pass

=

kilometer-pass

kPa

=

kilopascal

kW

=

kilowatt

l

=

liter

m

=

meter

mm

=

millimeter

m²

=

square meter

m²-pass

=

square meter-pass

m³

=

cubic meter

m³-km

=

cubic metre-kilometre

MN

=

meganewton

MN.m

=

meganewton-metre

MPa

=

megapascal

No.

=

number

Prov sum

=

Provisional sum

PC sum

=

Prime Cost sum

R/only

=

Rate only

sum

=

lump sum

t

=

ton (1000 kg)

W/day

=

Workday
3. Unless otherwise stated, items are measured net in accordance with the drawings, and no allowance is made for waste.
4. The prices and rates in these Bills of Quantities are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work and

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- shall cover the cost of all general risks, liabilities, and obligations set forth or implied in the Contract Data, as well as overhead charges and profit. These prices will be used as a basis for assessment of payment for additional work that may have to be carried out.
- 5 It will be assumed that prices included in these Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards)
 - 6 Where the Scope of Work requires detailed drawings and designs or other information to be provided, all costs associated therewith are deemed to have been provided for and included in the unit rates and sum amount tendered such items
 7. An item against which no price is entered will be considered to be covered by the other prices or rates in the Bills of Quantities. A single lump sum will apply should a number of items be grouped together for pricing purposes.
 8. The quantities set out in these Bills of Quantities are approximate and do not necessarily represent the actual amount of work to be done. The quantities of work accepted and certified for payment will be used for determining payments due and not the quantities given in the Bills of Quantities.
 9. Reasonable compensation will be received where no pay item appears in respect of work required in the Bills of Quantities in terms of the Contract and which is not covered in any other pay item.
 10. The short descriptions of the items of payment given in these Bills of Quantities are only for the purposes of identifying the items. More details regarding the extent of the work entailed under each item appear in the Scope of Work.
 11. Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SABS 1200 Standardized Specifications.
 12. Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills 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 a plant to provide such works, other than the 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 override any of the requirements in the generic labour-intensive specification in the Scope of Works.
 13. Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorised use of the 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.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

APPOINTMENT OF CONTRACTORS FOR PROVISION OF WATER SERVICES TO
THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C2.2 Bill of Quantity

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C2.2 Bill of Quantity

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
A1	SANS 1200 A	PRELIMINARY AND GENERAL				
A1.1	8.3	FIXED-CHARGE ITEMS				
A1.1.1	8.3.1	Contractual Requirements	Sum	1.0		
	8.3.2	Establish Facilities on the Site :				
		a) Facilities for Engineer (SANS 1200 AB)				
A1.1.2		One (1) furnished Engineer's office	m ²	12.0		
A1.1.3		One (1) Furnished CLO x 1 office	m ²	12.0		
A1.1.4		One (1) Furnished Board room	m ²	32.0		
A1.1.5		Two (2) Car Ports	No	2.0		
A1.1.6		Name Board	No	2.0		
A1.1.7		Supply survey and testing equipment	Sum	1.0		
A1.1.8		Supply one complete set of SANS 1200 standardised specifications	Sum			Rate Only
		b) Facilities for Contractor				
A1.1.9		Offices and storage sheds	Sum	1.0		
A1.1.10		Workshops	Sum	1.0		
A1.1.11		Laboratories	Sum	1.0		
A1.1.12		Living accommodation	Sum	1.0		
A1.1.13		Ablution and latrine facilities	Sum	1.0		
A1.1.14		Tools and equipment	Sum	1.0		
A1.1.15		Water supplies, electric power and communications	Sum	1.0		
A1.1.16	8.3.4	Remove Engineer's and Contractor's Site establishment on completion	Sum	1.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
		The Contractor's general obligations: As a Percentage of Tender Sum as stated below				
		NOTE: The combined total tendered should not exceed 15% of the Tender Sum (Excl. CPA, contingencies and VAT)				
A1.2		SUSPENSION COST				
A1.2.1		(i) De-establishment	No	2.0		
A1.2.2		(ii) Re-establishment	No	2.0		
A1.2.3		(iii) Suspension period	month	2.0		
A1.2.4		(iv) Employers Agent's cost	Sum	1.0	23,000.00	23,000.00
A1.2.5		(iv) Contractor's handling costs, profit and all other charges in respect of item C1.3.1.4(iv)	%	23,000.0		
A1.3		OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS				
		1 Construction				
A1.3.1		1.1 Compilation of Health and Safety Plan	Sum	1.0		
A1.3.2		1.2 Compilation of Health and Safety File	Sum	1.0		
A1.3.3		1.3 Notification of Construction Work - DoL	Sum	1.0		
A1.3.4		1.4 Equipment Required for Site Camp e.g. First Aid Box, Fire Extinguishers, Signage, etc.	Sum	1.0		
		2 Personal protective equipment :				
A1.3.5		2.1 Hard hats	No	50.0		
A1.3.6		2.2 Safety goggles or shields	No	10.0		
Total Carried Forward						

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
A1.3.7		2.3 Respirators (Dust musks - FFP2)	No	550.0		
A1.3.8		2.4 Gloves	No	50.0		
A1.3.9		2.5 Safety shoes	No	50.0		
A1.3.10		2.6 Branded Overalls according to EPWP specifications including Logos	No	50.0		
A1.3.11		2.7 Reflective vests	No	50.0		
A1.3.12		2.8 Ear plugs	No	95.0		
		3. Training				
A1.3.13		3.1. First Aid Level 1 & 2	No	2.0		
A1.3.14		Training and Development of Small Contractors	No			Rate Only
A1.3.15		3.4 Occupational Hygiene Stresses Exposure	No			Rate Only
A1.3.16		3.5 Shoring and balancing Trenches	No	10.0		
A1.3.17		3.6 Traffic Accommodation	No	10.0		
		4. Medicals				
A1.3.18		4.1. Pre-medical assessment	No	55.0		
A1.3.19		4.2. Exit medical assessments	No	55.0		
		5. Waste Management				
A1.3.20		5.1. Waste Bins	No	3.0		
A1.3.21		5.2. General waste collection and disposal at a registered landfill site	No	14.0		
A1.3.22		5.3. Hazardous waste transportation	No	2.0		
A1.3.23		5.4. Mobile toilets & Eating Facilities (Cleaning & Maintenance) for the duration of the contract	No	3.0		
A1.3.24		5.5. Environmental Spill kits	No	7.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
A1.3.25		6. Occupational Health & Hygiene				
		6.1 Ergonomic Assessments	Sum	1.0		
A1.3.26		6.2 Noise Survey by Approved Inspection Authority (AIA)	Sum	1.0		
A1.3.27		6.3 Dust / Airborne Pollutant Survey by Approved Inspection Authority (AIA)	Sum	1.0		
A1.3.28		6.4 Hazardous Chemical Substances Survey by Approved Inspection Authority (AIA)	Sum	1.0		
A1.3.29		6.5 Thermal Stress Survey by Approved Inspection Authority (AIA)	Sum	1.0		
A1.4	8.4	TIME-RELATED ITEMS				
A1.4.1	8.4.1	Contractual Requirements	Sum	1.0		
	8.4.2	Operate and maintain facilities on the Site:				
	8.4.2.1	a) Facilities for Engineer for duration of construction (SANS 1200 AB)				
A1.4.2		One (1) furnished Engineer's office	m²	12.0		
A1.4.3		One (1) Furnished CLO x 1 office	m²	12.0		
A1.4.4		One (1) Furnished Board room	m²	32.0		
A1.4.5		Two (2) Car Ports	No	2.0		
A1.4.6		Supply survey and testing equipment	Sum	1.0		
	8.4.2.2	b) Facilities for Contractor for duration of construction, except where otherwise stated				
A1.4.7		Offices and storage sheds	Sum	1.0		
A1.4.8		Workshops	Sum	1.0		
A1.4.9		Laboratories	Sum	1.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
A1.4.10	8.4.3	Living accommodation	Sum	1.0		
A1.4.11		Ablution and latrine facilities	Sum	1.0		
A1.4.12		Tools and equipment	Sum	1.0		
A1.4.13		Water supplies, electric power and communications	Sum	1.0		
A1.4.14		Supervision	month	6.0		
A1.4.15		Company and Head office Costs for the duration of the Contract	Sum	1.0		
A1.5		OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS				
A1.5.1		8.1 Safety Officer	month	6.0		
A1.5.2		8.2 Health and Safety Plan Review	month	6.0		
A1.5.3		8.3 Health and Safety File Review	month	6.0		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
A2	SANS 1200 A	REGULATORY OBLIGATIONS, PROVISIONAL SUMS, PRIME COST ITEMS DAYWORKS AND TEMPORARY WORKS				
A2.1	8.5	SUMS STATED PROVISIONALLY BY ENGINEER				
		For work to be executed by the Contractor and valued in terms of the "Valuation of Variations" clause in the Conditions of Contract				
		The Contractor's obligations in respect of Local and other				
		1) Environmental Management Plan				
A2.1.1		(a) Provision for EMP	Prov Sum	1.0	100,000.00	100,000.00
A2.1.2		(b) Complete Adherence and Compliance with Environmental Management Plan (EMP) and payment of a qualified Environmental Control Officer (ECO)	month	8.0	50,000.00	400,000.00
A2.1.3		(c) Percentage adjustment for Items 1.6.1 For contractors's overheads, administration charges and profit	%	500,000.0		
		2) Liaison Officer and Project Steering Committee				
A2.1.4		(a) Remuneration of Community Liaison Officer	month	8.0	6,500.00	52,000.00
A2.1.5		(b) Remuneration of Project Steering Committee	month	8.0	3,600.00	28,800.00
A2.1.6		(c) Percentage adjustment for Items A2.1.4 and A2.1.5 For contractors's overheads, administration charges and profit	%	80,800.0		
		(3) Social Facilitation				
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION : GENERAL

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
A2.1.7		(a) Provision for Social facilitator for the duration of the construction including pre and post contract engagement with the local community	Prov Sum	1.0	400,000.00	400,000.00
A2.1.8		(b) Percentage adjustment for Items A2.1.7 For contractors's overheads,administration charges and profit (7) Specialist services	%	400,000.00		
A2.1.9		(a) Payment of surveyors, geologists, etc	Prov Sum	1.0	50,000.00	50,000.00
A2.1.10		(b) Percentage adjustment for Items A2.1.18 For contractors's overheads,administration charges and profit (8) Engineers requirements	%	50,000.00		
A2.1.11		a) Engineers accommodation	Prov Sum	1.0	80,000.00	80,000.00
A2.1.12		b) Cellular phone costs	Prov Sum	1.0	8,000.00	8,000.00
A2.1.13		c) Acceptance control testing	Prov Sum	1.0	15,000.00	15,000.00
A2.1.14		(e) Percentage adjustment for Items A2.1.11 to A2.1.14 For contractors's overheads,administration charges and profit	%	103,000.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)
SECTION 1200A DAYWORKS AND TEMPORARY WORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
A3	SANS 1200 A	DAYWORKS AND TEMPORARY WORKS				
	8.7	DAYWORKS Note: Dayworks executed on instruction of the Engineer only				
A3.1	8.7.1	LABOUR				
A3.1.1		(a) Skilled	hr	160.00		
A3.1.2		(b) Semi-skilled	hr	160.00		
A3.1.3		(c) Un-skilled	hr	640.00		
A3.2	8.7.2	SKILLS TRAINING				
A3.2.1		(a) Skilled	hr	10.00		
A3.2.2		(b) Semi-skilled	hr	20.00		
A3.2.3		(c) Un-skilled	hr	30.00		
A3.3	8.7.3	PLANT HIRE (WORK RATES ON SITE)				
A3.4	8.7.3	TRUCKS				
	8.7.3.1	Tipper trucks				
A3.4.1		(a) Capacity 5 m ³ (small)	hr	20.00		
A3.4.2		(b) Capacity 10 m ³ (Medium)	hr	20.00		
A3.4.3		(c) Capacity 15 m ³ (Large)	hr	0.00		
A3.5	8.7.3.4	LDV'S				
A3.5.1		(a) 1ton	hr	20.00		
A3.6	8.7.3.5	WATER TANKERS				
A3.6.1		(a) 6000 litre (small, towable)	hr	180.00		
A3.6.2		(b) 10000 litre (medium)	hr	60.00		
A3.6.3		(c) 15000 litre (large)	hr	20.00		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)
SECTION 1200A DAYWORKS AND TEMPORARY WORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
A3.6.4	8.7.3.6	Wheel loaders (a) skid steer loader 1270 kg (small, towable)	hr	20.00		
A3.6.5		(c) b) 3 m3 (large)	hr	0.00		
	8.7.3.7	Motor graders				
A3.6.6		(a) Grader (CAT 140G or similar)	hr	0.00		
	8.7.3.9	Crawler excavators				
A3.6.7		(a) Tracked Excavator (92kw)	hr	0.00		
	8.7.3.10	Tractor loader backhoe (TLB)				
A3.6.8		(a) CAT 428E or similar approved	hr	60.00		
	8.7.3.16	Walk behind vibrating rollers				
A3.6.9		(a) Bomag (BW 65 H) (small) or similar approved	hr	160.00		
A3.6.10		(b) Bomag (BW 75H) (medium) or similar approved	hr	60.00		
A3.6.11		(c) Bomag (BW 90) (large)	hr	120.00		
	8.7.3.17	Plate compactors				
A3.6.12		(a) Model 133kg	hr	120.00		
	8.7.3.18	Wackers				
A3.6.13		(a) Model _____	hr	120.00		
	8.7.3.22	Waterpump				
A3.6.14		Capacity 600 litre/min (small)	hr	360.00		
A3.6.15		Capacity 1200 litre/min (medium)	hr	60.00		
A3.6.16		Capacity 3000 litre/min (large)	hr	0.00		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200A DAYWORKS AND TEMPORARY WORKS

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
	8.7.4	TRANSPORT (TRANSPORT COST TO AND FROM SITE) Note: Distance shall be measured one way only (Tender rates shall include for transport in both directions to and from site)				
	8.7.4.1	Low bed				
A3.6.17		(a) Low-bed (suitable for the largest piece of equipment above)	km	100.00		
	8.7.4.2	Tipper truck				
A3.6.18		(a) Small	km	100.00		
A3.6.19		(b) Medium	km	100.00		
A3.6.20		(c) Large	km	100.00		
	8.7.4.4	Water tanker				
A3.6.21		(a) Small	km	100.00		
A3.6.22		(b) Medium	km	100.00		
A3.6.23		(c) Large	km	100.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 C SITE CLEARANCE

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
C	SANS1200 C	SITE CLEARANCE				
	8.2.1	Clear and grub strips for (where not cleared within other clear and grub areas)				
C.1		Pipeline 3m wide	m	4,600.00		
C.2		Fencing line 3m wide	m	0.00		
C.3		Access Road 6m	m	2,000.00		
C.1		LARGE TREES				
	8.2.2	Remove and grub large trees and tree stumps of girth				
C.1.1		Exceeding 1m and up to and including 2m	No	60.00		
C.1.2		Exceeding 2m and up to and including 3m	No	40.00		
C.2		REINSTATEMENT OF FENCES, BOUNDARY WALLS, ETC				
	8.2.15	Take from stockpile on site existing fences and reinstate in similar position including replacing missing or elements, etc				
C.2.1		1,2m High fence	m	350.00		
C.2.2		1,8m High fence	m	30.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 D EARTHWORKS (PIPE TRENCHES)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
D	SANS1200 D	EXCAVATION AND BACKFILLING				
	8.3.2	Excavate in all materials, backfill and compact to 90% mod AASHTO density, and dispose of surplus and unsuitable materials within the freehaul distance for trenches				
D.1		Up to 1m deep	m³	0.00		
D.2		Over 1m and up to 2m deep	m³	5,355.00		
D.3		Over 2m and up to 3m deep	m³	0.00		
D.4		Over 3m and up to 4m deep	m³	0.0		
D.5		Over 4m deep	m³	0.0		
		Extra over items 1.6.1.1 for				
D.6		1. Intermediate excavation	m³	1,071.00		
D.7		2. Hard rock excavation	m³	4,284.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 G CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
G	SANS 1200 G	SECTION : CONCRETE (STRUCTURAL)				
G.1	8.1.3	CONCRETE				
		Existing Reservoir (Eenzaam_Dipolaseng)				
G.1.1		Cleaning of 350kl Reservoir including, Pressurewashing, brushing and cleaning surfaces of the tank	Sum	1.0		
G.1.2		Inspect concrete surfaces, repair and pin holes in walls, floor slab and roof slab with DurraSlurry	m²	245.0		
G.1.3		Supply and Install 150mm wide Sikadur combiflex bandage system over floor joints	m²	455.0		
G.1.4		Seal inside of the tank with with Duraslurry	m²	455.0		
G.1.5		Waterproof inside of the tank with Superlaycold, Applying Ecofelt membrane on joints and ferrule cup holes	m²	455.0		
		Existing Reservoir (Eenzaam_Lekorokorwaneng)				
G.1.6		Cleaning of 350kl Reservoir including, Pressure washing, brushing and cleaning surfaces of the tank	Sum	1.0		
G.1.7		Inspect concrete surfaces, repair and pin holes in walls, floor slab and roof slab with DurraSlurry	m²	245.0		
G.1.8		Supply and Install 150mm wide Sikadur combiflex bandage system over floor joints	m²	455.0		
G.1.9		Seal inside of the tank with with Duraslurry	m²	455.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 G CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
G.1.10		Waterproof inside of the tank with Superlaycold, Applying Ecofelt membrane on joints and ferrule cup holes	m ²	455.0		
G.2		FENCING AND GATES The following work's are to be carried out as per contract drawings FENCING @ (Eenzaam_Dipolaseng) Refer to Drawing No: WS-EZM-01F1 Supply and erection of fencing complete in accordance with the manufacturers specifications to Drawing No: WS-EZM-01F1				
G.2.1		Concrete palisade fence panels, 2m wide formed with 10 heavy duty slats, 2.4m high complete with cross beams.	m	160.0		
G.2.2		Concrete main post, 3000mm long complete with anchors	No	80.0		
G.2.3		Steel anchor post, 3000mm long, complete with bracing and anchors to drawing	No	2.0		
G.2.4		Concrete anchor (400x400x600)mm New gates:(Eenzaam_Dipolaseng)	m ³	8.0		
G.2.5		Supply and erect double leaf gates complete to Drawing No: WS-EZM-01F1 FENCING @ (Eenzaam_Lekorokorwaneng) Refer to Drawing No: WS-EZM-01F1 Supply and erection of fencing complete in accordance with the manufacturers specifications to Drawing No: WS-EZM-01F1	No	1.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 G CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
G.2.6		Concrete palisade fence panels, 2m wide formed with 10 heavy duty slats, 2.4m high complete with cross beams.	m	160.0		
G.2.7		Concrete main post, 3000mm long complete with anchors	No	80.0		
G.2.8		Steel anchor post, 3000mm long, complete with bracing and anchors to drawing	No	2.0		
G.2.9		Concrete anchor (400x400x600)mm	m³	8.0		
		New gates:				
G.2.10		Supply and erect double leaf gates complete to Drawing No: WS-EZM-01F1	No	1.0		
		Miscellaneous works:				
G.2.11		Internal ladder (Stainless Steel 316 with Stainless Steel bolts, nuts and washers), complete as per Dwg. No. WS-EZM-01RSV1	No	1.0		
G.2.12		External ladder (Stainless Steel 304 with Stainless Steel bolts, nuts and washers), complete as per Dwg. No. WS-EZM-01RSV1	No	2.0		
G.3		SPECIALIST SERVICES				
G.3.1		Testing for watertightness (350kl reservoir x 2)	Sum	1.0		
G.3.2		Sterilization (350kl reservoir x 2)	Sum	1.0		
G.3.3		Construction of one layer of double brick on top of each reservoir using clay bricks. Note: The rate shall include the supply of material and labour, the preparation of the floor, including DPC 375 Micron 300mm x 40m SABS approved, and backwashing the bricklayer with SABS approved product.The	Sum	1.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 G CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
G.3.4		Crushed stone on reservoir roof (19 mm clean washed aggregate, 80 mm thick)	m³	20.0		
G.3.5		Lightning Protection including certification for 2 x 350kl reservoir	Sum	1.0		
Total Carried Forward To Summary						

11/11/2019

Contractor

Witness 1

11/11/2019

Witness 2

11

Employer

11

Witness 1

11

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION GE:PRECAST CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
GE	SANS 1200GE	PRECAST CONCRETE (STRUCTURAL)				
		Borehole Stations				
GE.1		BH: H06-1480				
GE.1.1	8.3.1.2	Remove topsoil to nominal depth 150mm,stockpile	m²	25.0		
	8.3.4	Importing of Materials				
		Earth filling supplied by the contractor, compacted to				
GE.1.2		a) Borrow Pit	m³	5.0		
GE.1.3	8.2.1	Provide Precast Borehole Station Units as shown on drawing no WS-EZM-01D11	No	1.0		
GE.1.4	8.2.2	Erection of Precast Borehole Station Units as shown on drawing no WS-EZM-01F1	m³	1.0		
	8.2.4	Concrete Paving Slabs				
GE.1.5		Cast 200mm thick reinforced concrete floor for	m³	2.0		
GE.2		FENCING AND GATES				
		The following work's are to be carried out as per contract drawings				
GE.3		FENCING				
		Refer to Drawing No: WS-EZM-01F1				
		Supply and erection of fencing complete in accordance with the manufacturers specifications to Drawing No: WS-EZM-01F1				
GE.3.1		Concrete palisade fence panels, 2m wide formed with 10 heavy duty slats, 2.4m high complete with cross beams.	m	80.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION GE:PRECAST CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
GE.3.2		Concrete main post, 3000mm long complete with anchors	No	40.0		
GE.3.3		Steel anchor post, 3000mm long, complete with bracing and anchors to drawing	No	2.0		
GE.3.4		Concrete anchor (400x400x600)mm	m³	4.0		
GE.3.5		New gates: Supply and erect double leaf gates complete to Drawing No: WS-EZM-01F1	No	1.0		
GE.4		BH: H06-2578				
GE.4.1	8.3.1.2	Remove topsoil to nominal depth 150mm, storkpile	m²	25.0		
	8.3.4	Importing of Materials Earth filling supplied by the contractor, compacted to				
GE.4.2		a) Borrow Pit	m³	5.0		
GE.4.3	8.2.1	Provide Precast Borehole Station Units as shown on drawing no WS-EZM-01D11	No	1.0		
GE.4.4	8.2.2	Erection of Precast Borehole Station Units as shown on drawing no C19-PLS-01D11	m³	1.0		
	8.2.4	Concrete Paving Slabs				
GE.4.5		Cast 200mm thick reinforced concrete floor for	m³	2.0		
GE.5		FENCING AND GATES The following work's are to be carried out as per contract drawings				
GE.6		FENCING Refer to Drawing No: WS-EZM-01F1				
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION GE:PRECAST CONCRETE (STRUCTURAL)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
GE.6.1		Supply and erection of fencing complete in accordance with the manufacturers specifications to Drawing No: WS-EZM-01F1 Concrete palisade fence panels, 2m wide formed with 10 heavy duty slats, 2.4m high complete with cross beams.	m	80.0		
GE.6.2		Concrete main post, 3000mm long complete with anchors	No	40.0		
GE.6.3		Steel anchor post, 3000mm long, complete with bracing and anchors to drawing	No	2.0		
GE.6.4		Concrete anchor (400x400x600)mm	m³	4.0		
GE.6.5		New gates: Supply and erect double leaf gates complete to Drawing No: MP-06D20	No	1.0		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200H: STRUCTURAL STEELWORK (STEEL RESERVOIR)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
H	SANS 1200H	SECTIONAL STEEL RESERVOIR				
H.1	SANS 1200 D	EARTHWORKS				
H.2	1200 C	CLEARING				
H.2.1	8.2.1	Clear Site incl. remove trees up to 1 m girth to approved areas off Site	m ²	225.0		
H.3	1200 DA	EXCAVATION				
H.3.1	8.3.1	Remove topsoil to nominal depth 150 mm, stockpile, and maintain	m ²	34.0		
	8.3.2	Excavate in all materials and backfill or place embankment for:				
H.3.2		Tank foundation	m ³	113.0		
H.3.3		Compact excavated surface to 95% MOD. AASHTO density	m ³	113.0		
H.3.4		Use excavated material to construct earth berm as indicated on drawing, compacted to 93% MOD. AASHTO density	m ³	30.0		
H.3.5		Spoil excess material to designated site within 0,5km	m ³	4.0		
		Extra-over item 8.3.2 for excavation in:				
H.3.6		Hard rock material	m ³	147.0		
H.4		FINISHINGS				
H.4.1	8.3.6	Apply 75 mm thick topsoil to cut slopes and plant local grass sods	m ³	10.0		
H.5	1200 GA	CONCRETE				
H.6	8.2	FORMWORK				
H.6.1	8.2.1	Rough	m ²	110.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200H: STRUCTURAL STEELWORK (STEEL RESERVOIR)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
H.6.2	8.2.2	Smooth, including 25 mm x 25 mm chamfers to exposed edges	m ²	110.0		
H.7	8.1.2	REINFORCEMENT				
		Mild steel bars				
H.7.1		1) 8 mm	t	0.2		
		High-tensile steel bars				
H.7.2		1) 10 mm	t	3.0		
H.7.3		2) 12 mm	t	3.0		
H.7.4	8.3.2	High-tensile welded mesh of mass 3,11 kg/m ²	m ²	688.0		
H.8	8.4	CONCRETE				
H.8.1	8.4.2	Blinding layer in 50 mm thick, 15MPa concrete	m ²	11.0		
H.8.2	8.4.3	Strength concrete, Grade 25MPa to foundation, plinths and concrete open channel	m ³	31.0		
	8.4.4	Unformed surface finishes				
H.8.3		Wood-floated	m ²	110.0		
H.8.4		Steel-floated	m ²	110.0		
H.8.5	8.7	Supply and apply 5 mm thick epoxy grout under steel support plates	m ²	0.4		
H.8.6	8.8	Provide and install 80 mm x 8 mm thick flat bar supports to top of concrete foundation plinths, to details given on drawing	m ³	56.0		
H.8.7		Construct valve chamber as per detail drawings	No.	5.0		
H.9		STEEL TANK				
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200H: STRUCTURAL STEELWORK (STEEL RESERVOIR)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
H.9.1		Supply, erect, install and commission one 750 kl hot dipped galvanized pressed sectional steel tank, in accordance with SANS 121-2000, ISO 1461-1999, tank complete (As supplied by Structa Technology or similar), in accordance with SANS 10329:2004. Price to exclude all the pipe items listed under PIPEWORK below. Tank to be installed on a concrete foundation and pedestals measured elsewhere.	Sum	1.0		
H.10		ESKOM ELECTRICAL CONNECTIONS				
H.10.1		(1) Payment to ESKOM for Electrical Connection to Package Plant	Prov Sum	1.0	300,000.00	300,000.00
H.10.2		(a) Percentage adjustment for Item H.10.1 For contractors's overheads,administration charges and profit	%	300,000.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
L	SANS 1200L	MEDIUM-PRESSURE P I P E L I N E S				
	8.2.1	Supply, lay, joint, bed (class B bedding) and test Flowtite nominal pressure (PN)30, stiffness class (SN) 5000, Nominal diameter(DN)150				
L.1		150mm Diameter	m	4,600.0		
		Supply, lay, joint, bed (class B bedding) and test Flowtite nominal pressure (PN)30, stiffness class (SN) 5000, Nominal diameter(DN)150				
	8.2.1	Disinfect pipes				
L.2		150mm Diameter (Flowtite)	m	4,600.0		
	8.2.2	Flowtite pressure bends (PN 30)				
L.3		150mm Diameter 11.25°	No	18.0		
L.4		150mm Diameter 22.5°	No	7.0		
L.5		150mm Diameter 45°	No	5.0		
L.6		150mm Diameter 90°	No	1.0		
		Extra over items 8.2. for supply, install, bed and test the following Pipe line Flange adapter (flowtite), including cutting of pipes, couplings, etc				
L.7		Flowtite 150mm pipe flange (PN30)	No	60.0		
		Extra over items 8.2.1 for supply, install, bed and test the following flowtite End Caps, including cutting of pipes, couplings, etc				
L.8		Flowtite 150mm PN30 endcap	No	1.0		
L.1		VALVES				
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
L.1.1	8.2.3	Supply and Install the following gate valves as shown on drawing no WS-EZM-01D2 80mm Dia (150mm pipeline)	No	6.0		
L.1.2	8.2.3	Supply and Install the following Air Valves as shown on drawing no WS-EZM-01D1 50mm Dia (150mm pipeline)	No	6.0		
L.1.3	8.2.3	Supply and Install the following Scour Valves as shown on drawing no WS-EZM-01D7 80mm Dia (150mm pipeline)	No	3.0		
L.1.4	8.2.5	Supply, install, encase in concrete (where spesified) and test cast iron and steel specials, valves, pipes and coupling. WS- EZM-01D10 Special B	No	6.0		
L.1.5		Special C	No	2.0		
L.1.6		Special D	No	2.0		
L.1.7		Special D1	No	2.0		
L.1.8		Special E	No	2.0		
L.1.9		Special F	No	2.0		
L.1.10		Special G	No	4.0		
L.1.11		Special H	No	2.0		
L.1.12		Special J	No	4.0		
L.1.13		Special K	No	2.0		
L.1.14		Special L	No	2.0		
L.1.15		Special M	No	2.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
L.1.16	8.2.5	Special N	No	4.0		
L.1.17		Special O	No	2.0		
L.1.18		Special P	No	2.0		
		Supply, install, encase in concrete (where spesified) and test cast iron and steel specials, valves, pipes and coupling. Refer to drawing WS-EZM-01D6				
L.1.19		Special 1	No	2.0		
L.1.20		Special 2	No	2.0		
L.1.21		Special 3	No	1.0		
L.1.22		Special 4	No	2.0		
L.1.23		Special 5	m	2.0		
L.1.24		Special 6	No	1.0		
L.1.25	1200 LB PSLB 8.2.4	Concrete encasing of pipes at stream and river crossings including 100 kg/m3 reinforcement as per drawing WS-EZM-01RVR1	m³	10.0		
L.2		PUMPS				
L.2.1		"Supply, delivery and installation of a pump with a head of 357m and yield 5L\S complete with a 18.5kw motor, switch gear and all electrical works".	Sum	1.0		
L.2.2		"Supply, delivery and installation of a pump with a head of 175m and yield 0.5L\S complete with a 11kw motor, switch gear and all electrical works".	Sum	1.0		
L.3		BOREHOLE WATER TREATMENT PLANT				
L.3.1		Supply, delivery and installation of Borehole Treatment Plant per the specification	Prov Sum	1.0	1,800,000.00	1,800,000.00
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
L.3.2		(a) Percentage adjustment for Items above for contractors's overheads,administration charges and profit	%	1,800,000.0		
L.4		RAW WATER PLASTIC TANK				
L.4.1		Supply, erect, install and commission one plastic 10000l jojo vertical tank or similar, complete with all fittings to connect to 150mm diameter inlet and outlet pipes	Sum	1.0		
L.5		ANCILLARIES				
	8.2.11	Anchor/thrust blocks and pedestals in strength concrete 25 Mpa/19mm, including all formwork, reinforcement, etc				
L.5.1		Thrust blocks	m³	36.0		
L.6		CHAMBERS AND MANHOLES				
	8.2.13	Valve and hydrant chambers				
		Valve chambers				
		1. Supply, install and backfill Valve chamber complete including all materials and labour for the following types as shown on drawing WS-EZM-01D1				
L.6.1		a) Precast Concrete ring types- 1500mm Diameter	No	8.0		
L.6.2		2. Construct and backfill Valve chamber complete including all materials and labour as shown on drawing EWS-AZ-01D3	No	5.0		
L.7		EXISTING SERVICES				
L.7.1		(a) Locating, exposing, protecting, upgrading and finishing of existing services	Prov Sum	1.0	1,000,000.00	1,000,000.00
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
L.7.2		(b) Relocating existing services as well as point repairs	Prov Sum	1.0	1,500,000.00	1,500,000.00
L.7.3		(c) Detecting of Existing services	Prov Sum	1.0	500,000.00	500,000.00
L.7.4		(d) Percentage adjustment for Items L.7.1 to L.7.3 For contractors's overheads,administration charges and profit	%	3,500,000.00		
L.8		ESKOM ELECTRICAL CONNECTIONS				
L.8.1		(1) Payment to ESKOM for Electrical Connection for BH06-2578& BH06-1480	Prov Sum	1.0	900,000.00	900,000.00
L.8.2		(a) Percentage adjustment for Item L.8.2 For contractors's overheads,administration charges and profit	%	900,000.00		
L.9	SA 1200 LF	MARKINGS AND MARKER POSTS				
	8.2.8	Marker posts				
L.9.1		Type as per drawing WS-EZM-01D9	No	8.0		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 LB BEDDING (PIPES-RETICULATION)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
LB		BEDDING FROM TRENCH EXCAVATIONS				
	8.2.1	Provision of bedding material from trench excavations				
LB.1		Selected granular material	m ³	120.00		
LB.2		Selected fill material	m ³	120.00		
LB.1		BEDDING BY IMPORTATION				
	8.2.2	Provision of bedding material by importation from other necessary excavations within the freehaul distance				
LB.1.1		Selected granular material	m ³	30.00		
LB.1.2		Selected fill material	m ³	30.00		
LB.2		BEDDING FROM COMMERCIAL SOURCES				
	8.2.2	Provision of bedding material by importation from commercial sources selected by the Contractor				
LB.2.1		Selected granular material	m ³	800.00		
LB.2.2		Selected fill material	m ³	800.00		
LB.3		SUB-SURFACE DRAINAGE IN TRENCHES				
LB.3.1		Supply and install subsoil drainage system 19mm stone	m ³	120.0		
LB.3.2		Filter fabric, Batatex 200 or similar	m ²	200.0		
LB.3.3		Dump rock	m ³	60.0		
		Gabions:				
LB.3.4		Foundation trench excavation and backfilling	m ³	20.0		
Total Carried Forward						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SECTION 1200 LB BEDDING (PIPES-RETICULATION)

ITEM NO	PAYMENT	DESCRIPTION	UNIT	QTY	RATE	AMOUNT (RAND)
Brought Forward						
LB.3.5	8.2.5	Surface preparation for bedding the gabions	m ²	40.0		
LB.3.6		Installation of 2,0 x 1,0 x 1,0 m galvanized gabion boxes	m ³	40.0		
LB.3.7		Installation of 1,0 x 1,0 x 1,0 m galvanized gabion mattresses	m ³	40.0		
LB.4		OVERHAUL				
LB.4.1		Overhaul of material for bedding cradle and selected fill blanket				
		1 Overhaul	m ³ km	0.00		
Total Carried Forward To Summary						

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SUMMARY OF SECTIONS

SECTION	DESCRIPTION	AMOUNT (RAND)
A1	PRELIMINARY AND GENERAL	
A2	REGULATORY OBLIGATIONS, PROVISIONAL SUMS, PRIME COST ITEMS DAYWORKS AND TEMPORARY WORKS	
A3	SECTION 1200 A DAYWORKS AND TEMPORARY WORKS	
C	SECTION 1200 C SITE CLEARANCE	
D	SECTION 1200 D EARTHWORKS (PIPE TRENCHES)	
G	SECTION 1200 G CONCRETE (STRUCTURAL)	
GE	SECTION GE:PRECAST CONCRETE (STRUCTURAL)	
H	SECTION 1200H: STRUCTURAL STEELWORK (STEEL RESERVOIR)	
L	SECTION 1200 L MEDIUM-PRESSURE P I P E L I N E S (RISING MAIN)	
LB	SECTION 1200 LB BEDDING (PIPES-RETICULATION)	
	Sub-total	
	CONTINGENCIES (10%)	
	Sub-total	
	VAT (15%)	
Total Carried Forward To Summary Of Schedules		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

SUMMARY OF SCHEDULES

SCHEDULE	DESCRIPTION	AMOUNT (RAND)
1	Provision of Water Services to The Communities of Eenzaam (Work Package 1)	
Total		

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

PART C3 Scope of Work

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.1 DESCRIPTION OF THE WORKS

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.1 DESCRIPTION OF THE WORKS

1.1 Employer’s Objectives

The employer's objectives are to deliver public infrastructure using labour-intensive methods and subcontractors where possible. The works in this contract are to be executed using both conventional and labour-intensive construction methods according to the Special Public Works Programme (SPWP) as prescribed in the guidelines of the Expanded Public Works Program (EPWP).

The following prerequisites will apply for the appointment of sub-contractor:

- All subcontractors used will comply with the general conditions of the specific goals.
- The Subcontractor will preferably be from the community where the work is executed.
- Otherwise, sub-contractors will be from the Sekhukhune District Municipality Regions in the proximity of the community where the works are executed or other Sekhukhune Municipality Regions.
- Prior to site establishment, the successful Bidder will submit details of the sub-contractors to be used in the execution of the Works.

Labour-intensive construction methods shall be implemented using temporarily employed local workers who are unemployed according to the project specification. The main contractor must provide NQF level 2 training to the Subcontractors.

It must be noted that an established contractor, in terms of the prescribed category of the CIDB, will be appointed. Only certain components of the project, under division B in the bill of quantities, will be executed in terms of the guidelines and requirements of the EPWP. The rates prescribed in the Government Gazette of 12th May 2017: Regulation Gazette No.10717 Volume 623, Number 40841 must be used. Sub-contractors shall be permitted to submit claims to the main contractor on a fortnightly basis. The sub-contractor must be paid by the main contractor within 7 days of presenting the correct and acceptable invoice. The main contractor must allow for financing such payouts, and failure to adhere will result in a penalty amount of R1,000/day. In addition, failure of sub-contractors to make payment for labour will be penalised 50% of the processed payment by the main contractor.

The contractor must familiarise him/her with the abovementioned requirements and price this document accordingly.

The employer’s objectives are to deliver public infrastructure using labour-intensive methods and, in so doing, provide workplace training opportunities to learners who have a Learnership Agreement with the Construction Education and Training Authority.

1.2 Overview of the works

Tlou Integrated Tech has been appointed by the Sekhukhune District Municipality as a Consulting Engineer to render professional services and act as an agent in terms of the Construction Regulations, 2014, of the Occupational Health and Safety Act (Act 85 of 1993) for the Provision of Water Services to The Communities of Eenzaam (Work Package 1).

1.3 Extent of the works

The key component of this project is the construction of a 4.6 km GRP rising main to the existing reservoir in Eenzaam village, the Installation of a 750 kl steel tank, the installation of valves and construction of Valve Chambers, installation of a Water Purification Package System; Resealing, Cleaning & Disinfecting the Existing Concrete Reservoir and Eskom Connections to the boreholes and package system. The pipe lengths to be installed in the Eenzaam are tabulated below.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Area	Dia. & Make	Total pipe length per Area (m)	Borehole Pump Station (no)	Reservoir (KL)
Eenzaam	150 GRP	4600	2	750

(a) Conventional construction methods

- Reinstatement of disturbed surfaces to similar as before, including landscaping and regressing.
- The excavation of the trenches and installation of the pipes will be done conventionally in sections where there is hard rock.

(b) Labour-intensive construction methods (SPWP)

- Establishment of the contractor's camp and Employer's Agent's offices
- Clearing and grubbing
- Relocation of existing services
- The preparation of the bedding in pipe trenches.
- Backfilling and compaction of the pipe trenches.
- Fencing
- Exposing of existing services
- The excavation of the trenches and installation of the pipes
- Construction of Valve manholes and chambers

1.4 Location of the works

Eenzaam is a village in Limpopo, South Africa. It is 65km from Groblersdal, on the Northeastern side of Sekhukhune District Municipality. The grid reference is 24°58'29.32"S and 29°52'27.89"E. Eenzaam is situated in a relatively low rainfall area of the country (<600mm/yr).

1.5 Geotechnical Information

The site is situated on the coarse-grained Nebo Granite of the Lebowa Granite Layered Suite of the Bushveld Complex.

1.6 Features Requiring Special Attention

1.6.1 Existing Services

All existing services shall be indicated to the contractor, who will then assume full responsibility for maintaining them in good running order. It shall be understood that the production of the existing plant shall in no way be impaired during the contract.

1.6.2 Surveying and Cadastral Beacons (including Standpegs)

The Contractor shall be held responsible for the cost incurred in replacing or repositioning any cadastral beacons which may have been disturbed by his actions.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Under no circumstances shall cadastral beacons be replaced by unauthorised persons, and the Engineer shall be informed immediately of such disturbed beacons. The Engineer shall arrange for the replacement of any beacons by a competent Land Surveyor.

1.7 **Supplying of Materials**

The contractor shall supply all materials required for this contract and ensure that no delay is caused by shortages. Therefore, the required material shall be ordered well in advance.

While care had been taken in calculating the quantities, the Contractor shall check the quantities before ordering. No claims for payment of excess or incorrect materials due to such shall be entertained.

1.8 **Quality Control**

It is the responsibility of the Contractor to deliver work of quality and accuracy that is in accordance with the specifications and drawings, and the Contractor shall, at his own cost, provide a quality control system and provide experienced Engineers, Foreman, Surveyors, Technicians and other Technical Personnel together with the necessary transport, instruments and plant to ensure that proper supervision and positive control be applied on the job at all times.

The cost of all supervision and control, including tests, performed by the Contractor shall be included in the relevant rates for the different items when tendering, except where a separate provision has been made in the sections of the specifications.

The Contractor's attention is drawn to the stipulations of the different sections of the specifications regarding the minimum frequency of tests to ensure proper quality control. The Contractor shall increase this frequency if he deems fit to ensure appropriate control.

The Contractor shall, at the completion of each part of the work and requesting approval thereof from the Engineer, submit all applicable test results, measurements and levels to indicate that it conforms with the relevant specifications.

1.9 **General**

Although every effort has been made to ensure the accuracy of the information contained in this bid document, the results are based upon fieldwork and limited laboratory testing only. It is thus possible that localised soil conditions at variance to those described in the report may be encountered.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.2 ENGINEERING

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.2 ENGINEERING

C3.2.1 STANDARDS AND CODES OF PRACTICE

The following design standards for civil engineering infrastructure will apply.

- I. Guidelines for the provision of engineering services and amenities in residential township development by National Housing Board (Red book)
- II. General Condition of Contract for Construction Works (2015) (Third Edition) by the South African Institution of Civil Engineers.
- III. Standardised Specification 719 as supplied by the South African Bureau of Standards

C3.2.2 DESIGN AND SPECIFICATIONS

Table 1:

DESCRIPTION	DESIGN CRITERIA
Annual average daily demand	650 litres /house/day
Fire flow at any one hydrant under the condition of domestic peak flows (one hydrant at a time)	15l/s
Daily Peak Factor (DPF)	2
Summer Peak Factor (SPF)	1.35
Minimum residual head	10m
Maximum head	90m
Pipe materials	GRP, uPVC class 12 to SABS 966 Part1
Pipe sizes	150mm diameter minimum, 90mm, 110mm, 160mm, 200mm, 250mm, 315mm and 400mm
Boundary roughness (K-Value)	0.1mm
Pipe cover (min)	1.0m
Pipe cover (max)	1.5m under streets
Single erf connections	20mm HDPE Class 12
Commercial erf connections	32mm HDPE Class 12
Connection valves	Cobra ball valves
Fire risk category	Low risk – group 4
Location of hydrants	Distance apart 240m maximum. Hydrants must be positioned opposite communal erf pegs and between 0.3 and 0.6m away from them. No hydrants may be placed closer than one erf length to any intersection.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Valves	Resilient seal gate valves, anti-clockwise closing, with compression-type seals and non-rising spindle (SABS 664). All valves shall be at least Class 16
Location of valves	Valves are to be placed opposite splay corner pegs in networks. If a section is shut off for maintenance, not more than 60 dwelling units shall be without water, and not more than four valves are to be closed in doing so.
Domestic water meters	Aqua-loc water meter

C3.2.4: LIST OF DRAWINGS

DRAWING NO	DESCRIPTION
WS-EZM-01LP	Locality Plan
WS-EZM-01L1	Pipe Layout Plan
WS-EZM-01RSV1	Reservoir Complex Layout Plan
WS-EZM-01LS1	Long-Section 1 of 5
WS-EZM-01LS2	Long-Section 2 of 5
WS-EZM-01LS3	Long-Section 3 of 5
WS-EZM-01LS4	Long-Section 4 of 5
WS-EZM-01LS5	Long-Section 5 of 5
WS-EZM-01D1	Precast Air Valve Chamber
WS-EZM-01D2	Precast Concrete Valve Box
WS-EZM-01D3	Typical Layout or Meter Chambers
WS-EZM-01D4	Anchor and Thrust Block Details
WS-EZM-01D5	Yard Connection
WS-EZM-01D6	Typical Water Details 1 of 2
WS-EZM-01D7	Typical Water Details 2 of 2
WS-EZM-01D8	General Details
WS-EZM-01D9	Concrete Marker Block
WS-EZM-01D10	Borehole Discharge Pipework
WS-EZM-01D11	Borehole Pump House Details
WS-EZM-01D12	Borehole Pump House Foundation layout
WS-EZM-01F1	Typical Fencing Detail
WS-EZM-01RVR1	Typical River Crossing Detail

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.3 PROCUREMENT

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.3 Procurement

C3.3.1 Preferential Procurement Procedures

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the preferencing schedule.

C3.3.2 Scope of Mandatory Subcontract Work

In areas where required by the Employer's Agent, the Contractor will be required to make use of local emerging contractors registered with CIDB in accordance with the subcontracting procedures described hereunder. **The 30% of the work MUST be subcontracted to local SMME subcontractors.**

Competitive tenders shall be invited in respect of each of the above portions of the works in accordance with the relevant provisions of the latest edition of the CIDB Standard for Uniformity in Construction Procurement. The Contract Data in the associated procurement documents shall be based on the use of BIFSA Non-Nominated Subcontract for use with the JBCC Series 2000 Principal Building Agreement / CIDB Standard subcontract (labour only) / JBCC series 2000 Nominated / Selected Subcontract Agreement / SAFCEC General conditions of subcontract (2003 edition) (select appropriate option) / NEC Engineering and Construction Subcontract / NEC Engineering and Construction Short Subcontract with minimal project specific variations and amendments that do not change their intended usage.

The Employer and the Contractor shall evaluate the tenders received in accordance with the provisions of the Standard Conditions of Tender contained in Annex F of the Standard for Uniformity in Construction Procurement. The evaluation panel shall comprise equal representatives from the Employer and the Contractor.

The Contractor shall, without delay, enter into a contract with the successful tendering subcontractor based on their accepted tender submission. The Contractor shall remain responsible for providing the subcontracted portion of the works as if the work had not been subcontracted.

C3.3.3 Preferred subcontractors/suppliers

Local emerging contractors must be Black Enterprises. A black enterprise (BE) is defined as a company or economic activity owned by black persons and where there is substantial management control by Black People. Ownership refers to economic interest, while management refers to the membership of any board or similar governing body of the enterprise. The Broad-Based Black Economic Empowerment Act No. 53 of 2003 principles must apply to BEs.

Enterprises must comply with the following:

- Business must be registered within the Sekhukhune District Municipality boundaries,
- Owners must reside within the Sekhukhune District Municipality.

C3.3.4 SUBCONTRACTING PROCEDURES

The contractor shall advertise and call for competitive tenders for each portion of the works that are required to be subcontracted in terms of the contract in accordance with the relevant provision of the latest edition of the CIDB Standard for Uniformity in Construction Procurement. The Contract Data in the associated procurement documents shall be based on the FIDIC form of subcontracting with minimal project-specific variations and amendments that do not change their intended usage.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

The Employer and the Contractor shall evaluate the tenders received in accordance with the provisions of the Standard Conditions of tender. The evaluation panel shall comprise equal representatives from the Employer and the Contractor.

The Contractor shall, without delay, enter into a contract with the successful tendering subcontractor based on their accepted tender submission.

The Contractor shall remain responsible for providing the subcontracted portion of the work as if it had not been subcontracted.

- Note:**
- 1. The CIDB Best Practice Guideline D1, Subcontracting Arrangements, provides guidance on selecting a suitable form of subcontract.
 - 2. Provision in the Pricing Data should be made for provisional sums for portions of the works that are to be subcontracted in this manner

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.4 CONSTRUCTION

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.4 CONSTRUCTION

C3.4.1 Works specifications

The applicable “Standard Specifications” shall be the document “Standard Specifications for Municipal Civil Engineering Works, Third Edition 2005”, read together with the Particular Specifications.

Bidders, Contractors and Subcontractors shall obtain their own copies of the document “Standard Specifications for Municipal Civil Engineering Works, Third Edition 2005” for tendering purposes and for use for the duration of the Contract from the Sekhukhune District Municipality and shall bear all expenses in this regard.

The Standard Specifications have been written to cover all types of municipal civil engineering works and it may therefore cover work not applicable to this contract.

The Particular Specifications, together with the Drawings and Bill of Quantities, clearly indicate the sections of the Standard Specifications that apply to this contract.

Section C3.6 covers references to the Particular Specifications in the Standard Specifications as well as variations and additions to the Standard Specifications.

Section C3.7 covers corrections and amendments to the Standard Specifications for Municipal Civil Engineering Works, Third Edition 2005

C3.4.2 Site Facilities

1. Water Supply

The contractor should note that water is scarce in Eenzaam and surrounding villages. The contractor should make his own arrangements for the supply of potable water for his personnel and the site office.

2. Electricity Power Supply

The contractor shall make his own arrangements for the supply of electricity power to suit his and the Engineer’s requirements and operations. The cost of providing connections for transformer substations and switch gear, generators fuel, and /or overhead power lines or underground cables required to supply the electric power shall be included in the rates entered in the Schedule.

The cost of electric power consumption for construction, rock drilling, machinery operations, lighting, ventilation, and domestic use is to be included in the rates in the schedule of Quantities for the various construction and operations.

3. Access Roads

Where the locality of works requires it, the Contractor shall grade or construct. And keep in good and constant repair temporary access roads connecting public roads in the vicinity with

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

the works. Such roads must be of a sufficiently high standard for reliable access of heavy transport vehicles in all weathers and shall communicate with all parts of the works.

4. Use of Site

All notice boards, sign boards, and advertisements at the site shall be subject to the Engineer's approval. The Contractor shall take all precautions to preserve trees other than those that must be removed to fulfil the contract.

The contractor shall maintain the site in a clean, orderly and sanitary condition and shall take all necessary steps and precautions to prevent the pollution of the surrounding area by his employees or animals in any way. These steps and precautions shall be to the satisfaction of the Engineer and Medical Officer of Health of Sekhukhune District Municipality.

5. Precautions against Nuisance

The contractor's attention is drawn to the fact that operations are being conducted in a semi-urban area and in the presence of traffic. Special precautions must be taken to protect the public and to prevent unnecessary noise, dust or other nuisance.

Plant used on the works shall be as efficiently silenced as possible and noisy operations will be permitted only between the hours of 7H00 am and 5H00 pm. Any work outside normal hours will be permitted only on the written authority of the Engineer.

Whenever machinery is excavating or loading material which is liable to form a dust nuisance, an effective method of spraying water over the cut area and loaded material shall be installed. Tarpaulins shall be provided to cover trucks and prevent dust blowing from loads during transport.

Any rock or debris falling from trucks on the roads in use by the public shall be removed immediately. Precautions shall be taken to prevent fouling of public roads of completed construction by trucks transporting muddy material. The engineer may order the contractor continuously to broom off and clean roads where the mud tracking of vehicles or falling debris may constitute a danger to the travelling public.

6. Sanitary Accommodation

The contractor shall provide, maintain, move to position as required and finally remove proper sanitary accommodation at each work. Front sanitary accommodation shall be properly screened and its use strictly enforced. The situation of sanitary accommodation prescribed in terms of the Sanitary General By-Laws shall be approved by the Engineer as being convenient for the person whose use it is intended.

The sanitary accommodation provided must be adequately ventilated. Properly disinfected and kept in a thoroughly clean condition at all times.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

The contractor shall make arrangements for the provision of the sewer connection in the case of water closets or the removal of pails in the case of pail closets.

The contractor shall bear all costs associated with providing sanitary accommodation. Compensation for these costs will be made under the relevant item in the schedule of Quantities.

7. Work in Servitudes

The contractor shall give 7 days advance notice to both the Engineer and the property owner of his intention to commence work in servitude. The contractor shall not permit his workmen and labourers to use the servitude as a temporary right-of-way and shall carry out the expeditiously and with minimum inconvenience to the occupiers and to owners of adjacent property.

The contractor shall take all necessary precautions to protect people’s livestock, buildings, and property. The soil shall be kept segregated, and all gardens, fences, paths, etc., shall be reinstated to their former condition.

Where acquisition of servitude has been finalised it may not be possible to obtain continuity of the work. The contractor will be required temporarily to omit such sections until instructed that the work may proceed.

No extra payment will be made to the contractor should it be necessary to omit sections and return to them later. It is not intended, however, that the contractor should be called upon to return to the Site after all other sections of the contract have been completed and the contractor has removed his plant and equipment.

Trees removed in servitude shall remain the property of the stand owners if required by them.

8. Access to Premises

The contractor shall maintain adequate access to all public and private properties at all times unless otherwise sanctioned by the Engineer. Details of the proposed methods of providing access shall be submitted to the Engineer for approval before such access is restricted. Any claims arising from impeded access shall be wholly the Contractor's responsibility.

Provision shall be made to allow sanitary services to stand to be unimpeded.

Where necessary to permit access or egress, the contractor shall provide for the laying of planks or other excavated and filled works or ever concrete or asphalted surfaces in order to protect the work from damage.

Any temporary wooden bridges shall be provided with suitable tubular or other handrail, and horizontal members shall be placed at 0,3m, 0.9m and 1,2m above the level of the boards.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

Vehicular access shall be maintained to properties at the end of each day's work unless the Contractor has made an alternative arrangement with the owners.

9. Waterways

Free waterways shall be maintained in gutters, drains, and streams. Etc and existing conditions shall not be changed by deposition spoil in waterways or by diverting water into private property.

The contractor shall settle all claims and make good any damage at his own expense should flooding of public property occur through waterways being obstructed or diverted as a result of his operations.

C3.4.3 Plant and construction equipment

The contractor is encouraged to hire plants and construction equipment from the local community where possible is encouraged.

All items of plant used on the works shall be approved, modern, efficient plant, well suited to the purpose for which the contractor uses them and shall be properly maintained items of plant which leak oil or which, in the opinion of the Engineer's generate excessive noise, smoke, or other nuisance shall be removed from the works. The Engineer's decision in this respect shall be final and binding upon the Contractor

All vehicles used on the works are to be in sound mechanical condition and shall conform to and be operated in accordance with the Limpopo Provincial Ordinance and the Limpopo Provincial Road Traffic regulations. All vehicles must be fully insured against accident or loss, including third-party risk, and the Contractor shall produce evidence of this if required by the Engineer.

The contractor shall be deemed to have established the extent to which mechanical plant can be used for excavating and refilling before the submission of his tender. The Engineer's authority to use a mechanical plant will not be unreasonably withheld, but if, in the Engineer's opinion, circumstances exist which make it desirable that the use of plant should be suspended either temporarily or permanently, the contractor shall change the method of performing the work affected at his own cost and he shall be deemed to have no cause for claim if any order issued by the Engineer results in the mechanical plant having to stand idle for a period of any duration whatsoever or having to be removed.

In particular, where excavating except by hand methods is impossible due to proximity to existing structures or services, the engineer's withholding of authority to use mechanical plant shall be deemed reasonable for the purpose of this clause.

C3. 4.5 Materials
1. General

All material supplied shall be to SANS, JASWIC and the General Managers applicable specification as amended or where no such specification, to the approval of the Engineer. Specifications not contained in the document may be examined by arrangement at the water and sanitation Division. It will be required from each contractor to supply proof of conformation to the relevant SANS specifications of all material envisaged to be used on the contract to the Engineer for his approval.

2. Storage

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

All materials shall be stored in storage areas agreed upon by the Engineer and fenced with 1 8 m high chain link fencing and a lockable gate. Pipes shall be stacked on the ground and covered to prevent deterioration through ultraviolet attack.

C3.4.6 General Matters

1. Consumer Complaints

Save in respect of the liability arising from clause 21, the contractor's responsibility in respect of no water or poor pressure complaints arising out of the execution of the contract shall be limited to ensuring that an adequate cold-water supply exists to the complainant's property.

2. Advertisements in the Media and Notifications to consumers

The Engineer will arrange any media advertisement necessary for warning the public of any shut down of supply necessary, in his opinion, for the proper execution of the works. The contractor must, however, give at least 14 (fourteen) days' notice to the Engineer of his requirements in this respect. Specifically, media advertisements will be arranged when the number of consumers affected by a shutdown is such that issuing notices to individual consumers, as provided hereunder, is impracticable. Planned interruptions of water supply shall only be permitted between 09h00 and 15h00 unless otherwise authorised in writing by the Engineer.

The contractor shall give all consumers affected at least 24 hours' notice in writing of his proposals in regard to every planned interruption of water supply necessary for the execution of his work. Failure to do so will result in the suspension of work for a period as determined by the Engineer.

The contractor shall give written notice to all consumers adjacent to the planned route of work to be done. This notice shall be given well in advance of the starting date of construction. The notice will inform the residence that all grass, irrigation and valuable must be removed beforehand.

3. Use of Explosives

Explosiveness shall not be used without the written permission of the Engineer.

C3.4.7 Construction Issues

1. Excavation, backfilling and reinstatement

Excavation, backfilling, and reinstatement shall be carried out in accordance with the project specification and the standard specification for municipal civil engineering work. All excavations shall be performed in terms of the Construction Regulation 2014 of the Occupational Health and Safety Act.

2. Clearing and Grubbing

If any paving is to be removed to place the new water pipeline in position the rate for the breaking out and removal of the paving shall be claimed under 8.3.2.1 section 1200D in the schedule of Quantity. No clearing and grubbing will be paid where the new pipelines are to be laid on the sidewalk (area between the road and the erf boundary fence)

It must be noticed that the area between the erf boundary and the road must be clean, with no stones or rocks which can damage any machine used to cut the lawn.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

3. Excavations

a) Trenches-General

Trenches shall be backfilled level with adjacent surfaces immediately after pipe laying is completed. Should pipe laying not be complete before it is due to cease for the day, the Engineer shall be entitled to instruct the Contractor to backfill the trench and re-excavate it the following morning in order to complete pipe laying. The cost of the above shall be included in the Contractor's rates for excavation.

Pads shall be fitted to the outriggers of the excavating plant to prevent damage to the road surface. Damage to any surfaces beyond the trench widths specified shall be repaired at the Contractor's expense.

b) Trenches Roads

Even if a trenching machine is used, road surfaces shall first be cut with a diamond-tipped saw or other approved method. After the trench has been backfilled and compacted, the road surface has to be cut again 200mm from the edge on both sides of the trench.

The length of the premix cut shall be measured and paid for under 8.3.21. Section 1200D as provided in the schedule of Quantities. The complete closure of any road shall not be permitted without the written consent of the Engineer.

During the time the trenches have been backfilled and the Municipality reinstates the road surfaces, the Contractor will be responsible for the road's maintenance.

The trench will be backfilled above the selected material with G4 material in 150mm layers stabilised with 3% cement, compacted to 95% MOD AASHTO and paid for under 8.3.21. Section 1200D as provided in the schedule of Quantities. No haulage will be paid separately, but the rate for haulage must be included in 8.2.5 Section 1200LB.

c) Trenches –Paving and driveways act

The last 450mm of backing in the trench will be done with G4 material compacted to 95% MOD AASHTO payment in accordance with 8.3.21. Section 1200D, no haulage is payable.

d) Removal of Excavated Material

Excavated material shall not remain on the work site for more than 48 hours.

The Contractor's scheduled rates shall cover the cost of complying with this restriction, including, inter alia, the cost of temporarily removing off-site excavated material suitable for use as backfill or bedding and then returning it to the site. No haulage will be paid separately, but the rate for haulage must be included in 8.2.5. Section 1200LB.

e) Maintenance of Excavations

Existing mains are generally local at a cover depth of 0.6m to 1.5m, and excavation to at least this depth will be required for tie-ins, etc.

The contractor shall be solely and entirely responsible for maintaining excavations in a safe condition, and this responsibility shall be in no way diminished by any instruction by the Engineer to take additional or improved protected or precautionary measures. It should be noted by Bidders that plastic tape is not regarded as adequate protection around excavations and its use for that purpose shall not be allowed.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Barricades with two (2) horizontal bars will be used. The top bar must be at least 1.2m high. Both bars must be chevron painted-red white. The rate must include full compensation for the moving and maintenance of all barricades for the duration of the contract.

f) Depth of Exactions

The minimum cover to new mains shall be 1 200mm.

g) Intermediate Material

No intermediate material will be paid under this contract. Only soft or hard materials will be paid.

Hard material will be classified as material for which mechanical plant, such as compressors, jackhammers, or blasting, is required.

4. Testing of Backfill Material

The compacted density of the backfill material shall be in accordance with section 202 of the standard specification.

If the required compacted density cannot be achieved with the excavated material, G4 material will be imported and compacted to the required density for base layers. Payment will be made under 8.3.21. Section 1200D of the Standard Specification and no haulage will be paid separately, but the rate for haulage must be included in 8.2.5. Section 1200LB

The Contractor will be required to submit at least three(3) lab tests for compaction, or as required by the Engineer, per block completed and one per road crossing. No payment will be approved if the tests have not been included in the rates, and no additional payment will be made for the compaction tests.

5. Reinstatement

All repairs to Premix Surfaces Kerbings. Interlocking Blocks, paving Slabs and Bricks will be carried out by the compaction tests.

6. INSPECTION AT INTERMEDIATE STAGES OF CONSTRUCTION

The contractor shall call for an inspection of the works at the following remediate stages of construction.

- I) After completion of the trench excavation and of the trench bottom, and before any pipe is laid
- II) After the selected backfill material has been placed around the pipe and before the remainder of the trench is backfilled.

Work shall not progress through the specified stages without the approval of the Engineer or his representative on site.

Failure to comply with the provision of this clause shall result in the suspension of work for a period as determined by the Engineer.

7. EXTENSION OF TIME DUE TO UNPREDICTABLE WEATHER CIRCUMSTANCES

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Extension of time will be considered for normal adverse weather conditions but only for abnormal rainfall or saturated conditions and will be calculated in accordance with Sub-Clause 5.12.2.2 method 1 of the Special Conditions of Contract.

The rainfall records for Nebo station 0592474_W (Pretoria Forum) from 1961 to 1990 are given in the column below. The average values of Rn and Nn can be taken as the norm for this contract.

Month	Rn	Nn
January	136	4.4
February	75	2.5
March	82	2.4
April	51	1.8
May	13	0.5
June	7	0.3
July	3	0
August	6	0.2
September	22	0.7
October	71	2.2
November	98	3.5
December	110	3.7

8. PIPE AND MANHOLE TESTS

Maximum system test pressure (STP) shall be conducted on completed pipelines.

Requirements to pass the test

- No leaks
- No components break
- Pressure reading rises/remains static over 30 minutes. If in doubt, leave for 90 minutes; maximum allowable drop in 90 minutes = 20kPa

All leaks shall be made good, and any pipe special or fitting found to be defective shall be removed and replaced at the Contractor's expense.

9. Replacement of Leads

a) Trenchless Construction

A horizontal boring or auger machine shall be used for the installation of pipes under paved surfaces and road crossing where soil condition permits any plant used for the purpose of demonstrating whether trenchless construction is practical or not shall be in good order. Where soil conditions preclude the use of boring or auger machines under paved surfaces and road crossing. Leads shall be installed by open trenching.

Approval for open trenching must be obtained from the Engineer under these circumstances, and trenches shall be backfilled immediately after completion of pipe laying should pipe laying not be complete before work is due to cease for the day, the Engineer shall be entitled to instruct the Constructor to backfill the trench and re-excavate it the following morning in order to complete pipe laying. The cost of the above shall be included in the contractor's rates for excavation.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

If a trenching machine is used for road crossing, the road shall first be cut with a diamond-tipped saw or other approved method. All trenches across the road shall be cut at right angles to the kerb. Damage to the road surface beyond the trench widths specified shall be repaired at the Contractor's expense.

The length on premix cut shall be measured and paid for under item provided for in the schedule of quantities (refer to 8.3.2.1 Section 1200D)

C3.4.4 Contractor’s Employees

1. MINIMUM EMPLOYMENT CONDITIONS FOR CONVENTIONAL CONSTRUCTION WORKS

Contractors shall comply with the Basic Conditions of Employment Act (Act No 75 of 1997).

As a determination has not been made in terms of the aforesaid Act for the building sector, the minimum employment conditions which will apply to this Contract shall be guided by the Sectoral Determination: Civil Engineering Sector published in the Government Gazette dated 2 March 2001.

The following minimum conditions shall apply to this Contract, and Contractors shall include such conditions in employment contracts.

1.1 Employment contracts

The Contractor shall enter into an employment contract with every one of his/her employees, including short-term contracts, i.e. contracts in which employment commencement and employment termination dates are specified. Short-term employment contracts will also apply to an employee employed for only one day.

1.2 Normal working hours

Normal working hours are from 07:00 to 17:00 from Monday to Friday. A tea break is taken from 09:00 to 09:15 and lunch from 12:30 to 13:00.

Actual hours to work and be paid for is 9 hours per day. If a lunch break of one (1) hour is taken, then the normal working day will be as follows:

Morning work sessions from 07:00 to 12:00, lunch break from 12:00 to 13:00, and afternoon sessions from 13:00 to 17:00.

1.3 Minimum wages

Minimum wages shall be according to the Government Gazetted rates for the Department of Labour. For a full day’s work, the hourly rate shall be multiplied by 9. Normal 5-day week hours of work shall be 45 hours, and the wage shall be calculated according to the applicable hourly rate. Overtime pay shall be 1.5 times the ordinary wage.

An employee shall be paid fortnightly.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

1.4 Short time (excluding short time due to inclement weather)

If for reasons which may be ascribed to the employee, e.g. arriving late for work or taking an afternoon off, the hours not worked shall be deducted from the daily wage calculation.

1.5 Short time resulting from inclement weather

- i. If the Contractor informs his/her employees that no work will be done the following day due to inclement weather, no payment will be due to the employee for such a day.
- ii. If the Contractor has not informed his/her employees that no work will be done due to inclement weather and no work or less than four (4) hours of work is possible during a day, the Contractor must pay the employee for four (4) hours of work. If more than four (4) hours of work is done, the Contractor shall pay the employee for the number of hours worked.

1.6 Vacation leave

If an employee has been in full-time employment for more than four (4) months, he/she shall be entitled to 1 day's paid leave for every seventeen (17) days the employee worked or was entitled to payment.

1.7 Family Responsibility Leave

If an employee has been in full time employment for more than four (4) months, he/she shall be entitled to three days paid leave in a leave cycle of thirty-six (36) months of employment:

- i. When the employee's child is born;
- ii. When the employee's child is sick;
- iii. In the even of death of the employee's spouse or life partner, parent, grandparent, child or grandchild.

The employee shall provide the required proof to the Contractor of the event, failing which the leave shall be unpaid leave.

1.8 Maternity leave

At least four (4) months of unpaid leave.

1.9 Sick leave

The employee shall be entitled to one (1) day's paid sick leave of normal wages for every twenty-six (26) days worked.

If an employee is absent for three (3) or more consecutive days, the employee shall provide a sick certificate from a registered medical practitioner to qualify for sick leave payment. If such a certificate is not provided, no sick leave payment will be due to the employee.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

1.10 Piece work

Irrespective of the quantity of work done under a piece work system during a working week, the employee shall be entitled to a minimum of a week’s wages determined as if no piece work applied.

The Contractor or employee may terminate an employment contract by giving notice of termination of not less than:

- i. On short period contracts, i.e. a contract which states from which date work employment commences and on which day employment terminates, the terms of the employment contract shall apply;
- ii. One week if employee has been employed for four (4) weeks or less, unless it is a short-term project;
- iii. Two (2) weeks if employee has been employed for more than four (4) weeks but not more than one (1) year;
- iv. Four (4) weeks if employee has been employed for more than one year.

2. EMPLOYMENT CONDITIONS FOR LABOUR INTENSIVE WORKS AND CONSTRUCTION

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

This clause 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.

2.1 Terminology

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

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2.2 Terms of Work

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

2.3 Normal Hours of Work

- 2.3.1 An employer may not set tasks or hours of work that require a worker to work:
 - (a) more than forty hours in any week;
 - (b) on more than five days in any week; and
 - (c) for more than eight hours on any day.
- 2.3.2 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.
- 2.3.3 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.

2.4 Meal Breaks

- 2.4.1 A worker may not work for more than five hours without taking a meal break of at least thirty minutes duration.
- 2.4.2 An employer and worker may agree on longer meal breaks.
- 2.4.3 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.
- 2.4.4 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.

2.5 Special Conditions for Security Guards

- 2.5.1 A security guard may work up to 55 hours per week and up to eleven hours per day.
- 2.5.2 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.

2.6 Daily Rest Period

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

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.

2.7 Weekly Rest Period

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

2.8 Work on Sundays and Public Holidays

- 2.8.1 A worker may only work on a Sunday or public holiday to perform emergency or security work.
- 2.8.2 Work on Sundays is paid at the ordinary rate of pay.
- 2.8.3 A task-rated worker who works on a public holiday must be paid –
 - (a) the worker’s daily task rate, if the worker works for less than four hours;
 - (b) double the worker’s daily task rate, if the worker works for more than four hours.
- 2.8.4 A time-rated worker who works on public holiday must be paid –
 - (a) the worker’s daily rate of pay, if the worker works for less than four hours on the public holiday;
 - (b) double the worker’s daily rate of pay, if the worker works of more than four hours on the public holiday.

2.9 Sick Leave

- 2.9.1 Only workers who work four or more days per week have the right to claim sick-pay in terms of this clause.
- 2.9.2 A worker who is unable to work on account of illness or injury is entitled to claim one day’s sick leave for every full month that the worker has worked in terms of a contract.
- 2.9.3 A worker may accumulate a maximum of twelve days’ sick leave in a year.
- 2.9.4 Accumulated sick-leave may not be transferred from one contract to another contract.
- 2.9.5 An employer must pay a task-rated worker the worker’s daily task rate for a day’s sick leave.
- 2.9.6 An employer must pay a time-rated worker the worker’s daily rate for a day’s sick leave.
- 2.9.7 An employer must pay a worker sick pay on the worker’s usual payday.
- 2.9.8 Before paying sick-pay, an employer may require a worker to produce a certificate stating that the worker was unable to work on account of sickness or injury if the worker is –
 - (a) absent from work for more than two consecutive days; or
 - (b) absent from work on more than two occasions in any eight-week period.
- 2.9.9 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.
- 2.9.10 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 Disease Act.

2.10 Maternity Leave

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

- 2.10.1 A worker may take up to four consecutive month's unpaid maternity leave.
- 2.10.2 A worker in not entitled to any payment or employment-related benefits during maternity leave.
- 2.10.3 A worker must give her employer reasonable notice of when she will start maternity leave and when she will return to work.
- 2.10.4 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.
- 2.10.5 A worker may begin maternity leave –
 - (a) four weeks before the expected date of birth; or
 - (b) on an earlier date –
 - i. if a medical practitioner, midwife or certified nurse certifies that it is necessary for the health of the worker or that of her unborn child; or
 - ii. if agreed to between employer and worker; or
 - (c) on a later date, if a medical practitioner, midwife or certified nurse has certified that the worker is able to continue to work without endangering her health.
- 2.10.6 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.
- 2.10.7 A worker who returns to work after maternity leave has the right to start a new cycle of twenty-four months of employment unless the SPWP on which she was employed has ended.

2.11 Family Responsibility Leave

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

2.12 Statement of Conditions

- 2.12.1 An employer must give a worker a statement containing the following details at the start of employment –
 - (a) the employer's name and address and the name of the SPWP;
 - (b) the tasks or job that the worker is to perform; and
 - (c) the period for which the worker is hired or, if this is not certain, the expected duration of the contract;
 - (d) the worker's rate of pay and how this is to be calculated;
 - (e) the training that the worker will receive during the SPWP.
- 2.12.2 An employer must ensure that these terms are explained in a suitable language to any employee who is unable to read the statement.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

2.12.3 An employer must supply each worker with a copy of these conditions of employment.

2.13 Keeping Records

2.13.1 Every employer must keep a written record of at least the following –

- (a) the worker’s name and position;
- (b) in the case of a task-rated worker, the number of tasks completed by the worker;
- (c) in the case of a time-rated worker, the time worked by the worker;
- (d) payments made to each worker.

2.13.2 The employer must keep this record for a period of at least three years after the completion of the SPWP.

2.14 Payment for the Labour Intensive Component of the Works

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

2.14.1 An employer must pay all wages at least monthly in cash or by cheque or into a bank account.

2.14.2 A task-rated worker will only be paid for tasks that have been completed.

2.14.3 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.

2.14.4 A time-rated worker will be paid at the end of each month.

2.14.5 Payment must be made in cash, by cheque or by direct deposit into a bank account designated by the worker.

2.14.6 Payment in cash or by cheque must take place –

- (a) at the workplace or at a place agreed to by the worker;
- (b) during the worker’s working hours or within fifteen minutes of the start or finish of work;
- (c) in a sealed envelope, which becomes the property of the worker.

2.14.7 An employer must give a worker the following information in writing –

- (a) the period for which payment is made;
- (b) the number of tasks completed or hours worked;
- (c) the worker’s earnings;
- (d) any money deducted from the payment;
- (e) the actual amount paid to the worker.

2.14.8 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.

7.14.9 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.

2.15 Deductions

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- 2.15.1 An employer may not deduct money from a worker's payment unless the deduction is required in terms of law.
- 2.15.2 An employer must deduct and pay to the SA Revenue Services any income tax that the worker is required to pay.
- 2.15.3 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.
- 2.15.4 An employer may not require or allow a worker to –
- (a) repay any payment except an overpayment previously made by the employer by mistake;
 - (b) state that the worker received a greater amount of money than the employer actually paid to the worker; or
 - (c) pay the employer or any other person for having been employed.

2.16 Health and Safety

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

2.17 Compensation for Injuries and Diseases

- 2.17.1 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.
- 2.17.2 A worker must report any work-related injury or occupational disease to their employer or manager.
- 2.17.3 The employer must report the accident or disease to the Compensation Commissioner.
- 2.17.4 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.

2.18 Termination

- 2.18.1 The employer may terminate the employment of a worker for good cause after following a fair procedure.
- 2.18.2 A worker will not receive severance pay on termination.

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

- 2.18.3 A worker is not required to give notice to terminate employment. However, a worker who wishes to resign should advise the manager the employer in advance to allow the employer to find a replacement.
- 2.18.4 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 of the balance for the 24-month period.
- 2.18.5 A worker who does not attend required training events, without good reason will have terminated the contract. However, the worker may be re-engaged if a position becomes available for the balance of the 24-month period.

2.19 Certificate of Service

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

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

3. LABOUR INTENSIVE COMPETENCIES OF SUPERVISORY AND MANAGEMENT STAFF

Established contractors shall only engage supervisory and management staff in labour intensive works who have either completed, or for the period 1 April 2004 to 30 June 2005, are registered for training towards, the skills programme outlined in Table 1.

Emerging contractors shall have personally completed, or for the period 1 April 2004 to 30 June 2005 be registered on a skills programme for the NQF level 2-unit standard. All other sites supervisory staff in the employ of emerging contractors must have completed, or for the period 1 April to 2004 to 30 June 2005 be registered on a skills programme for, the NQF level 2-unit standards or NQF level 4-unit standards.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

TABLE 1: SKILLS PROGRAMME FOR SUPERVISORY AND MANAGEMENT STAFF

Personnel	NQF level	Unit standard titles	Skills programme description
Team leader/ supervisor	2	Apply Labour Intensive Construction Systems and Techniques to Work Activities	This unit standard must be completed, and
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	any one of these 3-unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Foreman/ supervisor	4	Implement labour intensive Construction Systems and Techniques	This unit standard must be completed, and
		Use Labour Intensive Construction Methods to Construct and Maintain Roads and Stormwater Drainage	any one of these 3-unit standards
		Use Labour Intensive Construction Methods to Construct and Maintain Water and Sanitation Services	
		Use Labour Intensive Construction Methods to Construct, Repair and Maintain Structures	
Site Agent/ Manager (i.e the contractor's most senior representative that is resident on the site.	5	Manage Labour Intensive Construction Processes	Skills Programme against this single unit standard

Details of these skills programmes may be obtained from the CETA ETQA manager (e-mail: Gerard@ceta.co.za, tel: 011 265 5900)

4. EMPLOYMENT OF UNSKILLED AND SEMI-SKILLED WORKERS IN LABOUR-INTENSIVE WORKS

4.1 Requirements for the Sourcing and Engagement of Labour

- 4.1.1 Unskilled and semi-skilled labour required for the execution of all labour-intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.
- 4.1.2 The rate pay set for the SPWP is R 248.22 per task or per day.
- 4.1.3 Tasks established by the contractor must be such that:
 - (a) the average worker completes 5 tasks per week in 40 hours or less, and
 - (b) the weakest worker completes 5 tasks per week in 55 hours or less.
- 4.1.4 The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 4.1.3.
- 4.1.5 The Contractor shall, through all available community structures, inform the local

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

community of the labour-intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:

- (a) where the head of the household has less than a primary school education;
- (b) that have less than one full time person earning an income;
- (c) where subsistence agriculture is the source of income;
- (d) those who are not in receipt of any social security pension income.

4.1.6 The Contractor shall endeavour to ensure that the expenditure on the employment of temporary workers is in the following proportions:

- (a) 60 % women;
- (b) 20 % youth who are between the ages of 18 and 35; and
- (c) 2 % on persons with disabilities.

4.2 Specific Provisions Pertaining to SANS 1914-5

4.2.1 Definitions

Targeted labour: Unemployment persons who are employed as local labour on the project.

4.2.2 Contract participation goals

4.2.2.1 The contract does not specify a contract participation goal. However, the contract participation goal shall be measured in the performance of the contract to quantify the employment provided to targeted labour.

4.2.2.2 The wages and allowances used to calculate the contract participation goal shall, with respect to both time-related and task rated workers, comprise all wages paid and any training allowance paid in respect of agreed training programmes.

4.2.3 Terms and conditions for the engagement of targeted labour

Further to the provisions of clause 3.3.2 of SANS 1914-5, written contracts shall be entered into with targeted labour.

4.2.4 Variations to SANS 1914-5

4.2.4.1 The definition for net amount shall be amended as follows:

The Financial value of the contract upon completion, exclusive of any value added tax or sales tax which the law requires the employer to pay the contractor.

4.2.4.2 The schedule referred to in 5.2 shall in addition reflect the status of targeted labour as women, youth and persons with disabilities and the number of formal training provided to targeted labour.

4.3 Training of Targeted Labour

4.3.1 The contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.

4.3.2 The cost of the formal training of targeted labour, shall be measured and paid for in the schedule of quantities of this contract document.

4.3.3 The contractor shall do nothing to dissuade targeted labour from participating in training programmes and shall take all reasonable steps to ensure that each beneficiary is

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

provided with two days of formal training for every 22 days worked.

- 4.3.4 The contractor shall pay workers who attend formal training an allowance equal to 100% of the task rate or daily rate in terms of 4.3.3 above.

The Contractor must provide the Employer with proof of compliance with the requirements of 4.3.2 to 4.3.4 prior to submitting the final payment certificate.

5. COMMUNITY LIAISON OFFICER

- 5.1 The successful Bidder shall enter into an agreement with the Ward Councilor/Ward Committee whereby the Ward Councilor shall provide to the Contractor the following if necessary:

- a) A Community Liaison Officer (CLO) for liaison with the recipient community, who, as part of his/her duties, will also act as a Labour Desk Officer (LDO) for labour recruitment.

- 5.2 The CLO shall attend all site and other meetings concerning the project.

- 5.3 The agreement shall make provision for the payment by the Contractor to the CLO of a maximum amount calculated as follows:

Wage per month = R 6 500

- 5.4 Only one CLO shall be appointed per project. If the project spans over more than one Ward, the relevant Ward Councilors shall agree on one CLO to be appointed by the Contractor. Should no agreement be found as envisaged, the relevant Project Manager, together with the Executive Director of Integrated Community Development or their nominees, will interview prospective appointees and, at their discretion, appoint such CLO.

Notwithstanding the above, if the vastness of the project requires the use of more than one CLO, this will be permitted, provided that the total monthly sum paid to all CLOs shall not exceed the amount allowed for in paragraph 5.3.

- 5.5 Should the Contractor experience any difficulties with the community, these difficulties shall immediately be brought to the attention of the Department/Project Manager, who shall arrange a meeting with the relevant Ward Councilor(s) and the CLO to resolve such difficulties.

- 5.6 The main Contractor shall ensure that any Sub-Contractor he may appoint shall adhere to these conditions but also be subject to the provisos applicable to the duration of such sub-contract.

- 5.7 Should any of the above conditions be less favourable than any Bargaining Council Agreement or Act applicable to the Contractor, the more favourable condition will apply.

C3.4.5 Existing services

The contractor shall protect all existing services.

C3.4.6 Site establishment

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

1. Contractor’s Campsite

The contractor shall provide a suitable site for his camp and for accommodating the workforce. The choice of the site for the establishment of the camp and offices and the layout thereof shall be approved.

The campsite shall be cleared and grubbed, and properly fenced with a security fence around the perimeter. The Contractor is to provide his own security at the camp or on the site if required, at his own expense.

After the contract is completed, the Contractor shall remove all his temporary buildings, plant, and equipment. The site shall be made good and left in a neat and tidy condition before a certificate of completion is issued.

2. Water Supply

The Contractor shall make his own arrangements for potable and construction water. He shall request permission from the ward councillors and local water committees to use water from the existing boreholes. Water from the Perennial stream in the area may be used for construction purposes. Water quality shall be verified before use in concrete.

3. Power Supply

The Contractor shall make his own arrangements.

4. Ablution Facilities

The Contractor shall provide sufficient portable chemical latrine units at each construction area. The latrine units shall be serviced daily and kept in a hygienic and orderly state to the engineer's approval. No separate payment shall be made for this requirement, and the costs thereof shall be deemed to be included in the rates billed for the contractor's time-related obligations.

5. Cellular Telephone

The contract requires the contractor to equip his site agent(s) with a cellular telephone to allow effective communication between the contractor's supervisory personnel and the engineer's supervisory staff. All the applicable contact details must be made available to the Employer and the staff on site. All costs associated with the provision of cellular telephones for the contractor's personnel shall be deemed to be included in rates billed for time-related charges.

6. Site Facilities required by the Employer’s Agent

One site office of approximately 30m² complete with sufficient lighting and power points.
Two desks, ten chairs, one conference table and two steel filing cabinets.
Three carports for his exclusive use and a net shade cover will suffice.
An ablution unit for his exclusive use.

The engineer does not require housing for personnel or laboratory facilities.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.4.7 Suspension Cost

PAYMENT

Item	Unit
SANS 1200A The PRELIMINARY AND GENERAL	
A1.1.17 Suspension Cost	
(i) De-establishment	Number
(ii) Re-establishment	Number
(iii) Suspension period	month
(iv) Employers Agent's cost	prime cost sum (PC) sum"

The rates tendered under Suspension Cost shall represent full compensation for Cost for Suspension of Work as per amended Condition of Contract clause 5.11.4.

Payment of sub-items A1.1.17(i) and A1.1.18(ii) shall be made for the number of de-establishments and re-establishments of all Personnel and Goods (Contractor's Equipment, Materials, Plant and Temporary Works) as instructed by the Employer's Agent.

Payment of sub-item A1.1.19(iii) shall be made monthly, pro rata for parts of a month, from the date on which the Contractor has suspended progress of all of the Works in terms of General Conditions of Contract Clause 5.11 and commenced with de-establishment of the site, until permission or instruction to proceed with the works is given by the Employer's Agent.

The Prime Sum in sub-item A1.1.20(iv) is provided to cover the cost of the Employers Agent and Supervision Team during the period of suspension of the works. The amounts certified by the Employer shall be made to the Employer's Agent, within 30 days of it being certified by the Employer."

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

LIMPOPO PROVINCE

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PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.5 MANAGEMENT

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.5 MANAGEMENT

1. Construction Programme

The Contractor shall submit a suitable and realistic construction programme within the period stated in the Contract Data for the consideration of the Employer’s Agent.

The programme shall be in the form of a Gantt chart and shall include the following details:

- A work breakdown structure, identifying the major activity groups.
- For each activity group, further details regarding the scheduled start and end dates of individual activities will be provided.
- The linkages between activities shall be clearly indicated, and the logical network upon which the programme is based shall be separately submitted to the engineer if requested. Any constraints shall be classified as being time-related or resource-related.
- The critical path(s) shall be clearly indicated, and floats on non-critical activities shall be shown.
- The Contractor shall indicate the working hours per day, night, week and month allowed for in the programme.
- Where relevant, the Contractor shall state the production rates for key activities, e.g. earthworks, etc.

Together with the programme as detailed above the contractor shall submit to the Employer’s Agent a cash flow projection, indicating projected monthly invoice amounts. The cash flow projection shall be updated at monthly intervals to reflect actual payments to date and anticipated further payments.

The programme will be reviewed at the monthly site meetings, at which the Contractor shall provide sufficient detail to allow the comparison of completed work per activity that has fallen behind. The updated programme shall be submitted to the Engineer at least two days prior to the monthly meetings.

If the programme has to be revised by reason of the Contractor falling behind his programme, he shall produce a revised programme showing how he intends to regain lost time in order to ensure completion of the Works within the time for completion as defined in Clause 5.6.1 of the General Conditions of Contract or any granted extension of time. Any proposal to increase the tempo of work must be accompanied by positive steps to increase production by providing more labour and plant on site, or by using the available labour and plant on site, or by using the available labour and plant in a more efficient manner.

Failure on the part of the Contractor to submit the programme or to work according to the programme or revised programmes shall be sufficient reason for the Employer’s Agent to take steps as provided in Clause 5.7.1 of the General Conditions of Contract.

The approval by the Engineer of any programme shall have no contractual significance other than that the Employer’s Agent will be satisfied that the work is carried out according to such

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

programme and that the Contractor undertakes to carry out the work in accordance with the programme. It shall not limit the right of the Employer’s Agent to instruct the Contractor to vary the programme if required by circumstances. The Contractor also referred to Clause 5.6.2 of the General Conditions of Contract when drawing up his programme.

2. Sequence of the works

The sequence of the works will be in accordance with the approved programme. The works should be programmed to allow for the installation of the pipeline network to suit the budgeted cash flow and construction period.

3. Accommodation of traffic

The following contains the Employer’s general requirements for accommodating the traffic during construction:

The travelling public shall have the right of way on public roads and the contractor shall make use of approved methods to control the movement of his equipment and vehicles so as not to constitute a hazard on the road.

Failure to maintain road signs, warning signs, etc, in a good condition shall constitute ample reason for the engineer to bring the works to a stop until the road signs, etc, have been repaired to his satisfaction.

The contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of this document and the South African Road Traffic Signs Manual Volume 2 Chapter 13.

The contractor shall submit proposals in connection with directional signs to the engineer for approval prior to construction.

Sufficient signage shall be provided, erected and relocated as necessary by the contractor to reroute traffic onto the deviations.

4. Extension of time on account of abnormal rainfall

Extension of time due to abnormal rainfall shall be determined by means of Method 1 if rainfall records or values derived from rainfall records are supplied in the Scope of Work; otherwise, Method 2 shall apply. Method 1 and 2 are defined and described in the Contract Data.

In the case where Method 2 applies, the following wording shall be included:

Extension of time resulting from abnormal rainfall or other forms of inclement weather for items on the critical path of the programme shall be calculated according to the requirements of Method 2 (Critical-path method). The value of “n” working days per calendar month as specified in this clause shall be two (2) working days. If no abnormal rainfall or other inclement weather periods occur during a specific calendar month (or months), the n-values as specified shall not be taken as

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

accumulating over the contract period. If the n-days allowed for in the programme of work are not taken up by standing time due to abnormal rainfall or inclement weather conditions, they will fall away and will not be considered in extension of time claims which may arise later during the contract period.

A working day, or portion thereof, shall be considered as lost when the engineer agrees that no work could have been undertaken on any item falling within the critical path. The contract extension of time arising from inclement weather shall be agreed upon between the engineer's and the contractor's representatives. The days upon shall be recorded in the minutes of the monthly site meetings.

5. Community participation

Community participation consists of the engagement of Project Steering Committees (PSC). A PSC will be established for the town by the Ward Councilor. The functions of the PSC will be to:

- Assist in monitoring the project.
- Ensure that the community provides assistance to the contractor so that he can execute the contract in accordance with the specifications and within time.
- Encourage the community to participate in the Labour Intensive construction.
- Identify skills, skilled personnel and suppliers in the towns.

The PSC will not have the power to:

- Give any instructions to the contractor, except through the engineer.
- Become involved in the daily operations of the contractor or interfere with the contract works.

A monthly meeting will be held with the PSC to discuss relevant matters. The site agent and resident engineer will attend the meetings. The contractor will have to report on progress, deviations from the programme, financial matters, community-related aspects, general problems and cooperation at the meeting. The PSC members will not receive any remuneration for attending, and they must provide their own transport.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

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PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C3.6 PARTICULAR SPECIFICATIONS AND VARIATIONS AND ADDITIONS TO THE STANDARD SPECIFICATIONS

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

C3.6 PARTICULAR SPECIFICATIONS AND VARIATIONS AND ADDITIONS TO THE STANDARD SPECIFICATIONS

The following references from, and variations and additions to the Standard Specifications will be valid for this Contract.

The clauses and pay items in this portion of the Particular Specifications are numbered "B" followed by a number corresponding to the number of the relevant clause or pay item in the Standard Specifications. New clauses and pay items not covered by clauses or pay items in the Standard Specifications, if included here, are also designated "B" followed by a number. These numbers follow on the last clause or pay item number used in the relevant section of the Standard Specifications.

SERIES 1: ANCILLARY WORK

Add the following:

“SECTION 107: GENERIC LABOUR INTENSIVE SPECIFICATION

Scope

This specification establishes general requirements for activities which are to be executed by hand involving the following:

- a) trenches having a depth of less than 1.5 metres
- b) stormwater drainage
- c) low-volume roads and sidewalks

Precedence

Where this specification conflicts with any other standard or specification referred to in the Scope of Works to this Contract, the requirements of this Contract shall prevail.

Hand excavateable material

Hand excavateable material is material:

- a) granular materials:
 - i) whose consistency when profiled may, in terms of table 1, be classified as very loose, loose, medium dens, or dense; or
 - ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 15 blows of a dynamic cone penetrometer is required to penetrate 100mm;
- b) cohesive materials:

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

- i) whose consistency when profiled may in terms of table 107.1 be classified as very soft, soft, firm, stiff and stiff / very stiff; or
- ii) where the material is a gravel having a maximum particle size of 10mm and contains no cobbles or isolated boulders, no more than 8 blows of a dynamic cone penetrometer is required to penetrate 100mm;

- Note*
- 1) A boulder, a cobble and gravel are material with a particle size greater than 200mm, between 60 and 200mm.
 - 2) A dynamic cone penetrometer is an instrument used to measure the insitu shear resistance of a soil comprising a drop weight of approximately 10 kg which falls through a height of 400mm and drives a cone having a maximum diameter of 20mm (cone angle of 60° with respect to the horizontal) into the material being used.

Table 107. 1: Consistency of materials when profiled

GRANULAR MATERIALS		COHESIVE MATERIALS	
CONSISTENCY	DESCRIPTION	CONSISTENCY	DESCRIPTION
Very loose	Crumbles very easily when scraped with a geological pick	Very soft	Geological pick head can easily be pushed in as far as the shaft of the handle
Loose	Small resistance to penetration by sharp end of a geological pick	Soft	Easily dented by thumb; sharp end of a geological pick can be pushed in 30-40mm; can be moulded by fingers with some pressure
Medium dense	Considerable resistance to penetration by sharp end of a geological pick	Firm	Indented by thumb with effort; sharp end of geological pick can be pushed in up to 10mm; very difficult to mould with fingers; can just be penetrated with an ordinary hand spade
Dense	Very high resistance to penetration by the sharp end of geological pick; requires many blows for excavation	Stiff	Can be indented by thumb-nail; slight indentation produced by pushing geological pick point into soil; cannot be moulded by fingers
Very dense	High resistance to repeated blows of a geological pick	Very stiff	Indented by thumb-nail with difficulty; slight indentation produced by blow of a geological pick point

Trench excavation

All hand excavateable material in trenches having a depth of less than 1.5 metres shall be excavated by hand.

Compaction of backfilling to trenches (areas not subject to traffic)

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Backfilling to trenches shall be placed in layers of thickness (before compaction) not exceeding 100mm. Each layer shall be compacted using hand stampers.

- a) to 90% Proctor density;
- b) such that in excess of 5 blows of a dynamic cone penetrometer (DCP) is required to penetrate 100mm of the backfill, provided that the backfill does not comprise more than 10% gravel of size less than 10mm and contains no isolated boulders, or
- c) such that the density of the compacted trench backfill is not less than that of the surrounding undisturbed soil when tested comparatively with a DCP.

Excavation

All hand excavateable material including topsoil classified as hand excavateable shall be excavated by hand. Harder material may be loosened by mechanical means prior to excavation by hand.

The excavation of any material which presents the possibility of danger or injury to workers shall not be excavated by hand.

Clearing and grubbing

Grass and small bushes shall be cleared by hand.

Shaping

All shaping shall be undertaken by hand.

Loading

All loading shall be done by hand, regardless of the method of haulage.

Haul

Excavation material shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Offloading

All material, however transported, is to be off-loaded by hand, unless tipper-trucks are utilized for haulage.

Spreading

All material shall be spread by hand.

Compaction

Small areas may be compacted by hand provided that the specified compaction is achieved.

Contractor

Witness 1

Witness 2

Employer

Witness 1

Witness 2

Grassing

All grassing shall be undertaken by sprigging, sodding, or seeding by hand.

Stone pitching and rubble concrete masonry

All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, must be collected, loaded, offloaded and placed by hand.

Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.

Grout shall be mixed and placed by hand.

Manufactured Elements

Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry unit and edge beams shall not individually, have a mass of more than 320kg. In addition the items shall be large enough so that eight workers can conveniently and simultaneously acquire a proper hand hold on them.”

Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

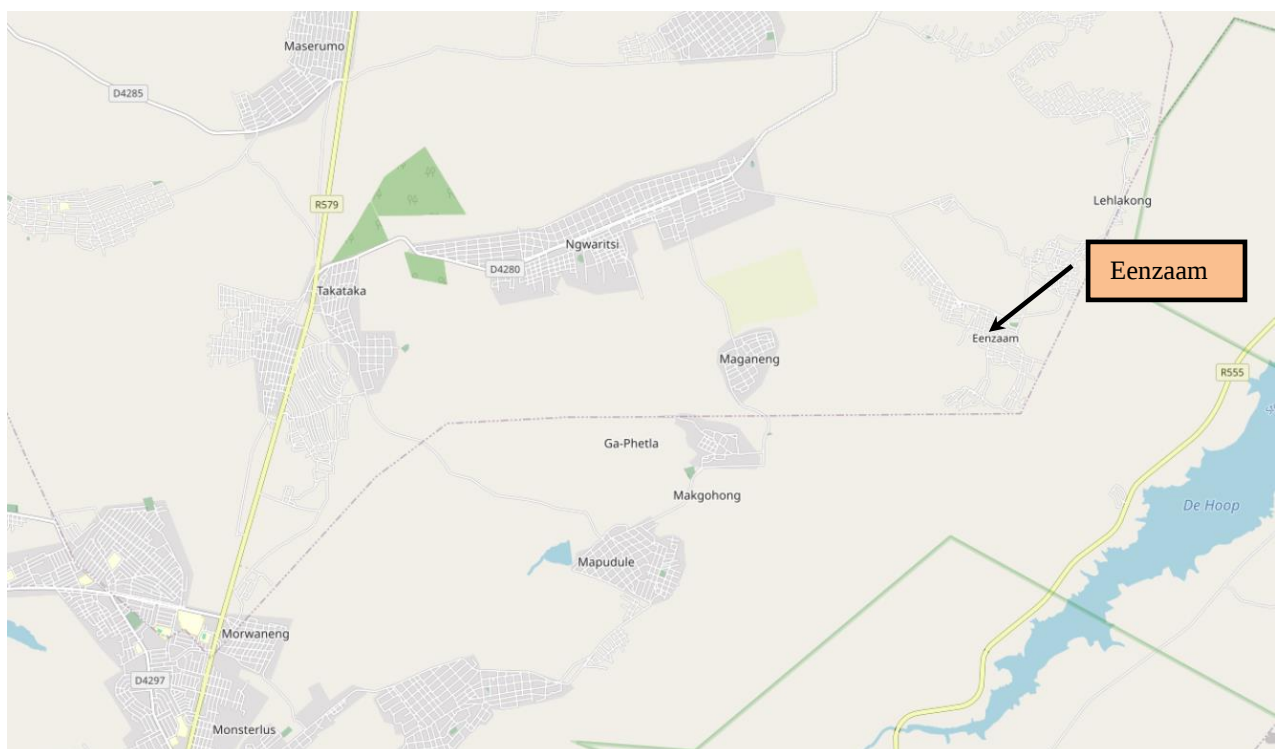
LIMPOPO PROVINCE

SEKHUKHUNE DISTRICT MUNICIPALITY

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM (WORK PACKAGE 1)

C4 Site Information

C4.1 LOCALITY PLAN



Contractor	Witness 1	Witness 2	Employer	Witness 1	Witness 2

C4.2 TENDER DRAWINGS

LOCALITY PLAN
EENZAAM



GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED. WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

G	
F	
E	
D	
C	
B	
A	28/08/24 • Issued for tender

REV	DATE	DESCRIPTION

CLIENT



PRINCIPAL AGENT



TIOU
INTEGRATED TECHNICS

AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERED SCHEDULE	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	

PROJECT DESCRIPTION
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EENZAAM
(WORK PACKAGE 1)

DRAWING TITLE			
LOCALITY PLAN			
DRAUGHTSMAN	MW NGOMA	MW NGOMA	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

CLIENT SIGNATURE	ENGINEER'S SIGNATURE
SIZE	DRAWINGS NUMBER
	WS-EZM-01LP
	REV
PROJECT NUMBER	
SK03/1-1/2024/2025	

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED. WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE MEWEED ON SITE BY THE CONTRACTOR BEFORE COMMENCING WORK

LEGEND:

ROADWAY

PROPOSED ROAD INTERSECTION

LOCALITY NAME

DOWNPOUT

RAIN FALLS

SCALE

DOWNPOUT NAME

WATER TREATMENT PLANT

G		
F		
E		
D		
C		
B		
A	26/08/2024	Issued for tender
REV	DATE	DESCRIPTION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA

TOTAL BUILDING AREA

COVERED SCHEDULE

SITE AREA

COVERED PERCENTAGE (%)

FLOOR AREA RATIO (FAR)

PROJECT DESCRIPTION

PROVISION OF WATER SERVICES TO THE COMMUNITIES OF BENJAM (WORK PACKAGE 1)

DRAWING TITLE

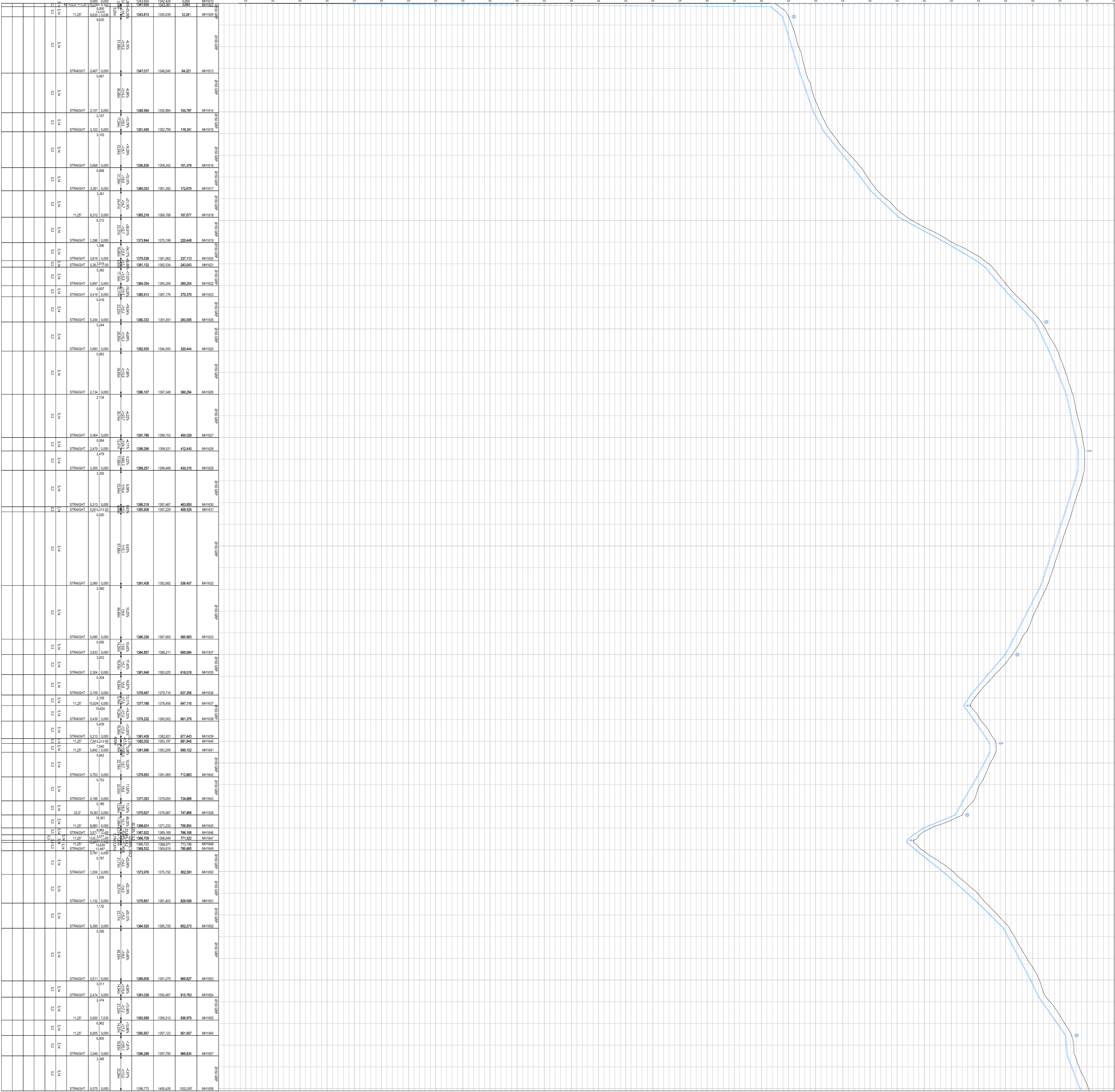
PRE LAYOUT PLAN

DRAUGHTSMAN	MM NGOMA	MM NGOMA	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

CLIENT SIGNATURE		ENGINEERS SIGNATURE	
SIZE		DRAWINGS NUMBER	
		WS-EZM-01.1	
		REV	

PROJECT NUMBER
SK8/3/1-11/2024/2025

REFERENCE		DATE	BY	REVISION
DISTANCE (m)		12/01/2024	MM	1
GROUND LEVEL		12/01/2024	MM	1
PERMITS LEVEL		12/01/2024	MM	1
SLOPE LENGTH		12/01/2024	MM	1
CHANGE IN DIRECTION		12/01/2024	MM	1
FITTINGS		12/01/2024	MM	1
HYDRAULICS		12/01/2024	MM	1
CLASSIFICATION		12/01/2024	MM	1
GEOLOGICAL DATA		12/01/2024	MM	1



GENERAL NOTES	
• DRAWING SHOULD NOT BE SCALED. WORK TO BE DONE ON SITE BY THE CONTRACTOR BEFORE COMMENCING WORK.	

G	
F	
E	
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C	
B	
A	
REV	DATE
DESCRIPTION	
CLIENT	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

PRINCIPAL AGENT	
TOTAL BUILDING AREA	
COVERED PERCENTAGE (%)	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERZANJAN (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 1 OF 5	
DRAWINGSMAN	
DATE	
SCALE	
AS SHOWN	
DESIGNED	
APPROVED	

- GENERAL NOTES**
- DRAWINGS SHOULD NOT BE SCALED. WORK TO DIMENSIONS SHOWN.
 - ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING P. WORK.

REV	DATE	DESCRIPTION
A	26/08/24	Issued for construction
B		
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CLIENT

REVISION

DESCRIPTION



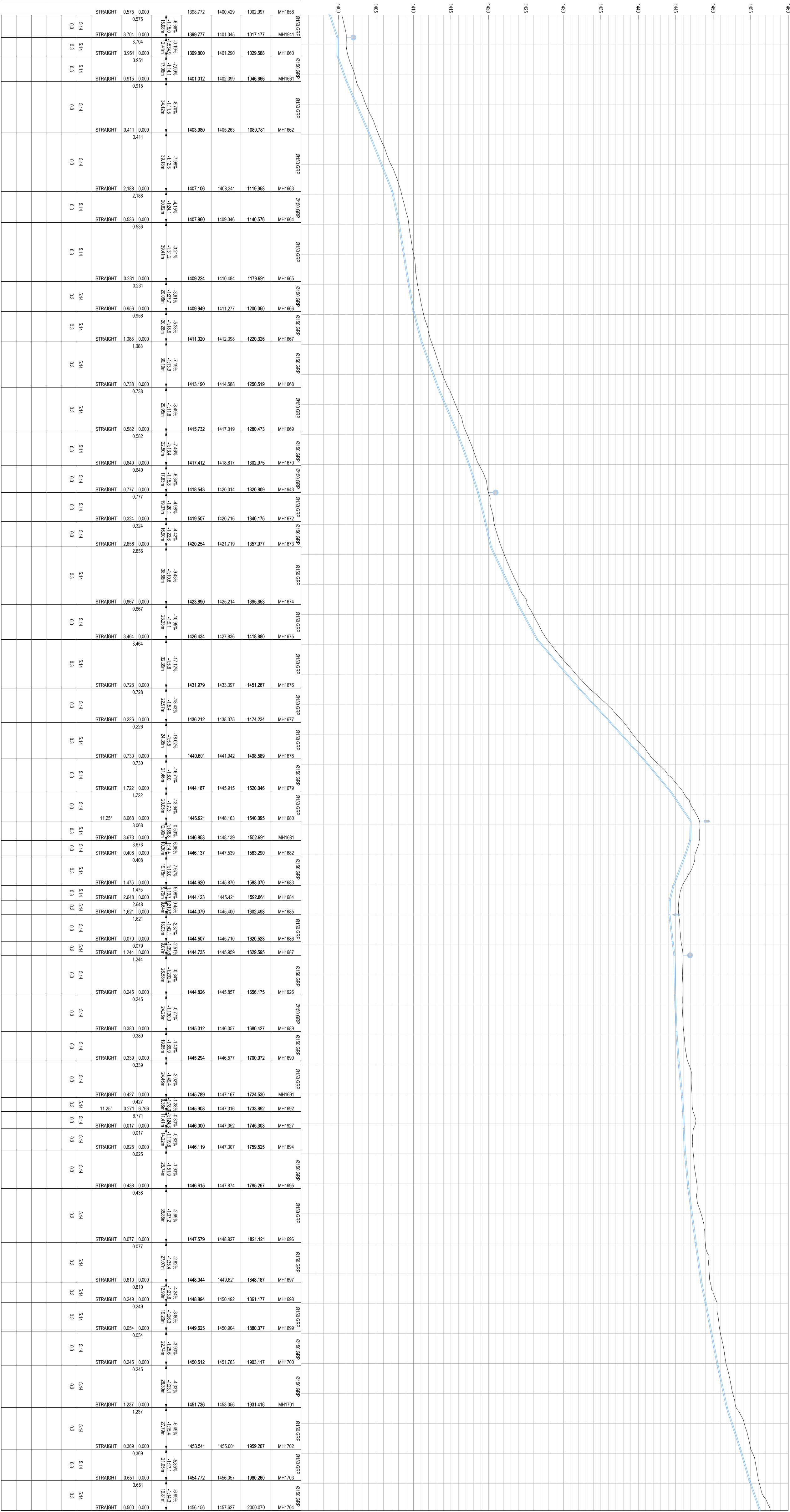
PRINCIPAL AGENT



GROUND FLOOR AREA	
AREA SCHEDULE	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	
COVERAGE PERCENTAGE (%)	
FLOOR AREA/RATIO (FAR)	
PROJECT DESCRIPTION	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ENZAMAM (WORK PACKAGE 1)	
DRAWING TITLE	
LONG-SECTION 2 OF 5	

DRAUGHTSMAN	MM NGOMA	DESIGNED	MM NGOMA
SCALE	AS SHOWN	APPROVED	

CLIENT SIGNATURE		ENGINEER'S SIGNATURE	
SITE		REV	
WS-EZH-Q1-LS2			
PROJECT NUMBER			
SK9/31-11/2024/2025			



REFERENCE	MH1655
DISTANCE (m)	1022.097
GROUND LEVEL	1401.045
PIPE INVERT LEVEL	1398.772
SLOPE / LENGTH	1:1000
CHANGE IN DIRECTION	0.000
FITTINGS	0.000
HYDRAULICS	0.000
CLASSIFICATION	0.000
GEOLOGICAL DATA	0.000

NGL: - - - - -
EGL: - - - - -
SLOPE: 1:1000
Horizontal: 1:1000
Vertical: 1:200
DATUM: 1365.000

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED. WORK TO FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING F.WORK

G			
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C			
B			
A	26/08/24	Issued for tender	
REV	DATE	DESCRIPTION	
CLIENT			



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERED PERCENTAGE	
SITE AREA	
COVERED PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROJECT DESCRIPTION	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ENDAAM (WORK PACKAGE 1)	

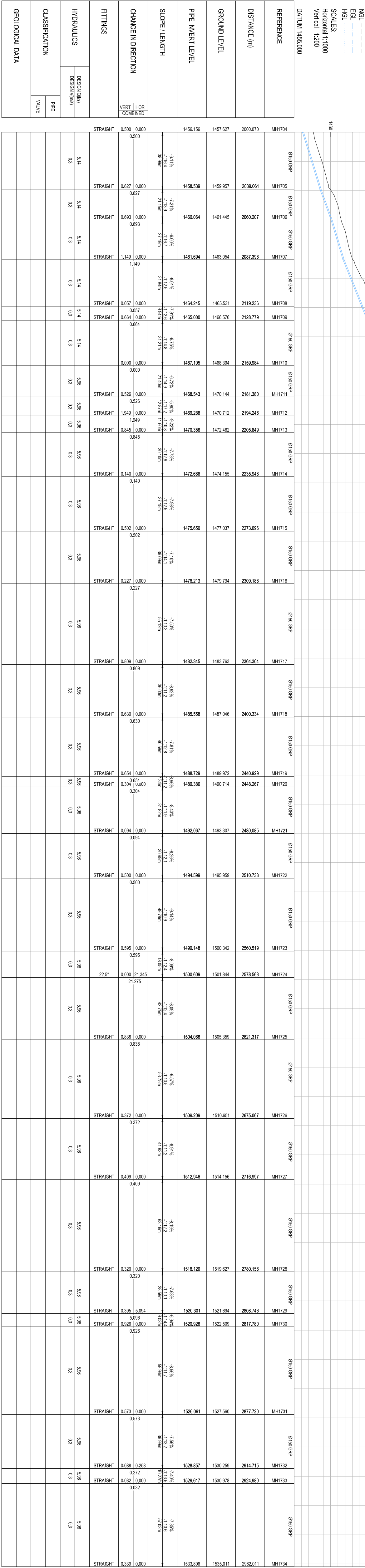
DRAWING TITLE	
LONG-SECTION 3 OF 5	
DRAUGHTSMAN	IMM NGOMA
DATE	AUG 2024
SCALE	AS SHOWN
DESIGNED	IMM NGOMA
APPROVED	SI. KENYA

ENGINEER'S SIGNATURE

CLIENT SIGNATURE

SIZE	DRAWINGS NUMBER	REV
	WS-F2M-01LS3	
PROJECT NUMBER		

SK/8/31-1/2024/2025



- ## GENERAL NOTES
- DRAWING SHOULD NOT BE SCALED. WORK TO FIGURED DIMENSIONS ONLY
 - ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

REFERENCE	DISTANCE (m)	GROUND LEVEL	PIPE INVERT LEVEL	SLOPE LENGTH	CHANGE IN DIRECTION	VERTICAL		FITTINGS	HYDRAULICS	CLASSIFICATION		GEOLOGICAL DATA
						VELOCITY	ELEVATION			PIPE	VALVE	
MH1724	2682.011	1535.011	1531.806		STRAIGHT	0.339	0.000					
MH1735	3029.127	1538.438	1536.987		STRAIGHT	0.046	1.402					
MH1736	3034.457	1539.316	1537.342		STRAIGHT	0.20	1.400					
MH1737	3080.341	1541.927	1540.568		STRAIGHT	0.814	0.000					
MH1738	3145.908	1545.617	1544.215		STRAIGHT	0.862	0.000					
MH1739	3150.888	1545.783	1544.427		STRAIGHT	0.330	0.000					
MH1740	3194.269	1547.748	1546.444		STRAIGHT	0.342	0.000					
MH1741	3211.791	1548.824	1547.360		STRAIGHT	0.764	6.489					
MH1742	3240.070	1550.705	1549.217		STRAIGHT	0.516	0.000					
MH1744	3270.545	1553.350	1551.962		STRAIGHT	0.508	0.000					
MH1745	3280.509	1554.007	1552.273		STRAIGHT	0.000	1.568					
MH1904	3289.400	1554.311	1553.017		STRAIGHT	0.180	0.000					
MH1746	3294.004	1554.498	1553.144		STRAIGHT	0.35	0.000					
MH1747	3311.478	1554.917	1553.520		STRAIGHT	0.802	0.000					
MH1748	3346.818	1555.088	1553.783		STRAIGHT	0.037	0.000					
MH1749	3363.737	1555.293	1555.901		STRAIGHT	0.049	0.000					
MH1750	3385.410	1555.556	1554.091		STRAIGHT	0.229	0.000					
MH1751	3405.911	1555.389	1554.112		STRAIGHT	0.209	2.488					
MH1752	3419.413	1555.440	1554.192		STRAIGHT	0.138	0.000					
MH1753	3486.411	1555.746	1554.514		STRAIGHT	0.127	0.000					
MH1754	3501.886	1555.916	1554.633		STRAIGHT	0.000	1.568					
MH1755	3503.003	1555.978	1555.978		STRAIGHT	2.90	1.138					
MH1756	3517.018	1555.887	1555.466		STRAIGHT	1.522	0.000					
MH1757	3545.047	1555.316	1557.864		STRAIGHT	0.228	0.000					
MH1758	3598.745	1560.369	1562.673		STRAIGHT	0.142	0.000					
MH1759	3642.052	1560.056	1566.660		STRAIGHT	0.789	0.000					
MH1760	3721.544	1576.384	1575.087		STRAIGHT	0.588	0.000					
MH1761	3771.329	1582.485	1585.807		STRAIGHT	0.137	0.000					
MH1762	3802.712	1586.151	1584.493		STRAIGHT	1.276	0.000					
MH1763	3820.929	1587.500	1586.166		STRAIGHT	0.728	0.000					
MH1764	3841.454	1589.329	1587.798		STRAIGHT	0.27	1.700					
MH1765	3847.896	1589.739	1588.248		STRAIGHT	22.5	11.257					
MH1946	3862.176	1590.562	1589.200		STRAIGHT	1.820	0.000					
MH1767	3880.982	1591.135	1589.837		STRAIGHT	0.106	0.000					
MH1768	3881.728	1591.160	1589.839		STRAIGHT	4.2	1.138					
MH1769	3886.549	1591.294	1589.154		STRAIGHT	0.000	1.000					
MH1767	3908.488	1592.565	1591.458		STRAIGHT	0.010	0.000					
MH1768	3931.728	1593.										

REV	DATE	DESCRIPTION
A	25.08.24	Issued for tender
B		
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PRINCIPAL AGENT

GROUND FLOOR AREA	AREA SCHEDULE	

TOTAL BUILDING AREA		COVERAGE SCHEDULE	
SITE AREA	COVERAGE PERCENTAGE (%)	FLOOR AREA RATIO (FAR)	PROJECT DESCRIPTION
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF EERZAM (WORK PACKAGE 1)			

DRAWING TITLE			
LONG-SECTION 4 OF 5			
DRAUGHTSMAN	MY NGOMA	MY NGOMA	DESIGNED
DATE	AUG 2024	SL. KEKANA	APPROVED
SCALE	AS SHOWN		

CLIENT SIGNATURE		ENGINEER'S SIGNATURE	
.....			
SIZE	DRAWINGS NUMBER	REV	
	WS-EZM-01-LS4		

PROJECT NUMBER
SK8/3/1-11/2024/2025

GENERAL NOTES

- DRAWINGS SHOULD NOT BE SCALED. WORK TO FIGURED DIMENSIONS ONLY.
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING F.WORK

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B	28/08/24 Issued for tender
A	
REV	DATE
REVISION	
CLIENT	



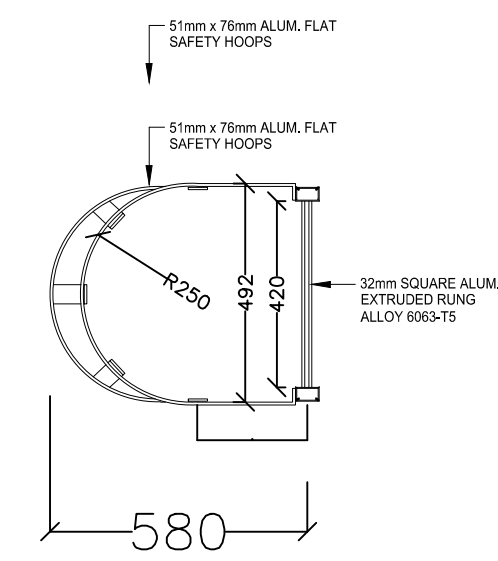
PRINCIPAL AGENT



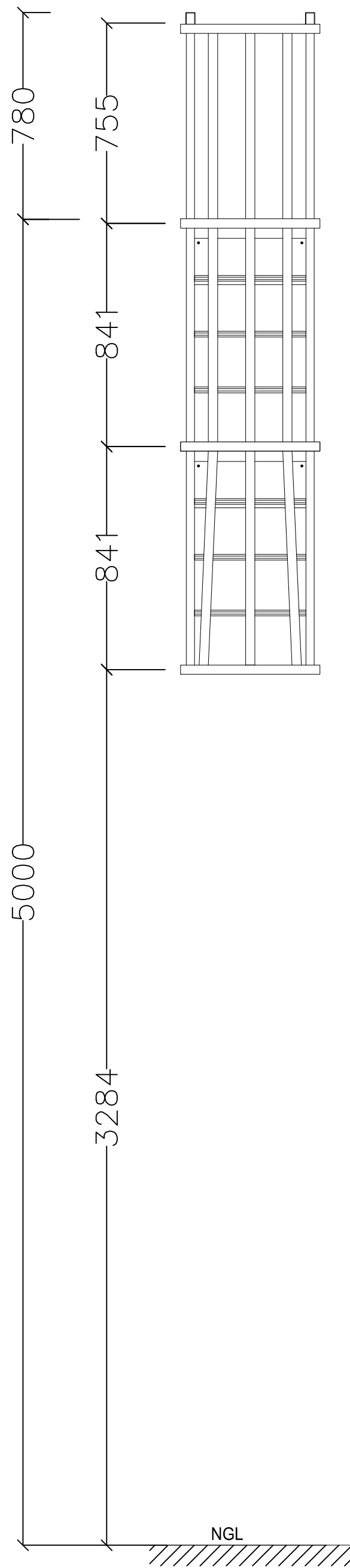
AREA SCHEDULE	
GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	
COVERAGE PERCENTAGE (%)	
FLOOR AREA RATIO (FAR)	
PROJECT DESCRIPTION	
PROVISION OF WATER SERVICES TO THE COMMUNITIES OF ERERUAM (WORK PACKAGE 1)	

DRAWING TITLE	
LONG SECTION 5 OF 5	
DRAUGHTSMAN	MMW NGOMA
DATE	AUG 2024
SCALE	AS SHOWN
DESIGNED	MMW NGOMA
APPROVED	SL KEMANA

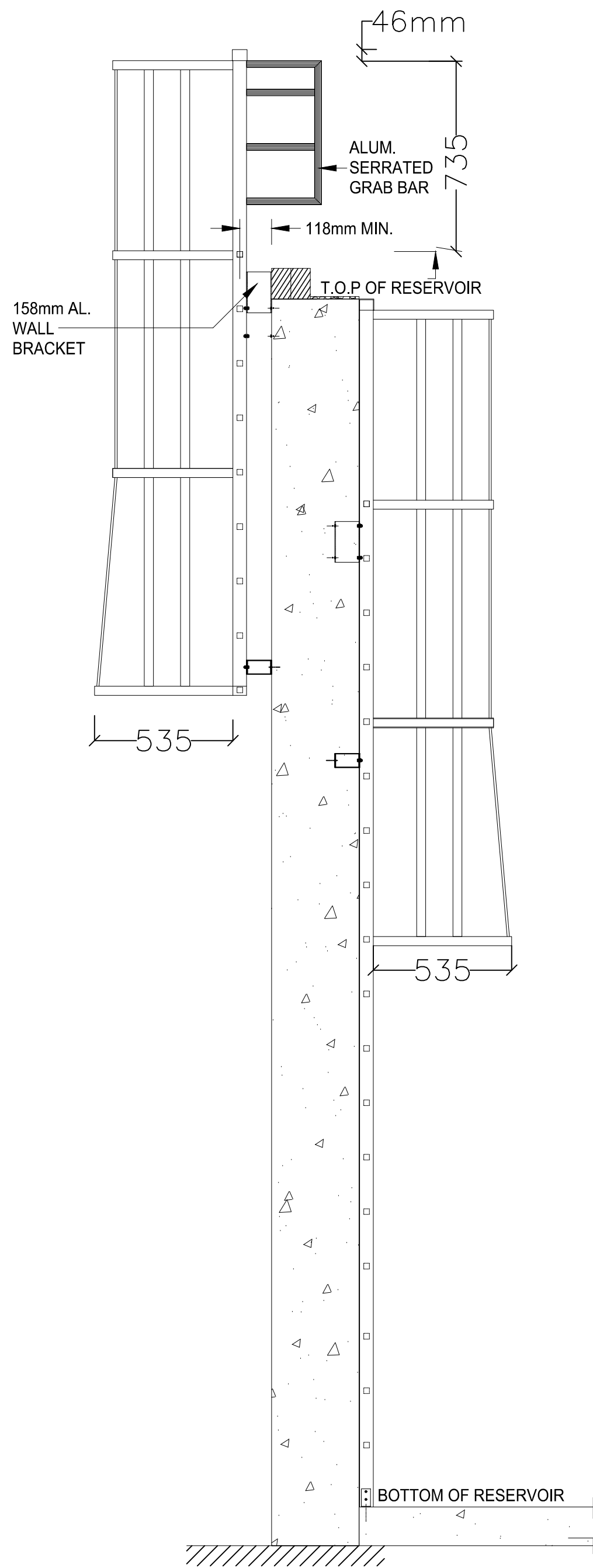
CLIENT SIGNATURE	
ENGINEERS SIGNATURE	
SIZE	DRAWINGS NUMBER
WS-E2M-01/SS	REV
PROJECT NUMBER	
SK/3/1-11/2024/2025	



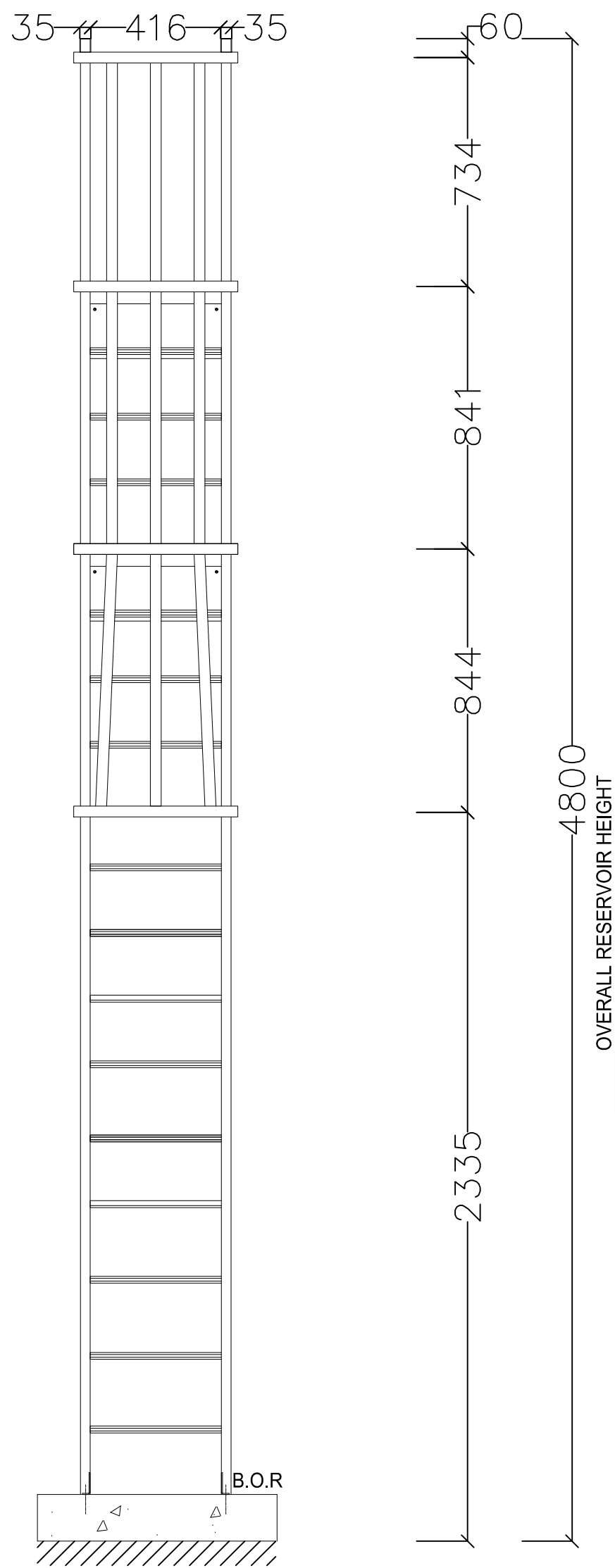
LADDER PLAN



FRONT ELEVATION
OUTSIDE RESERVOIR



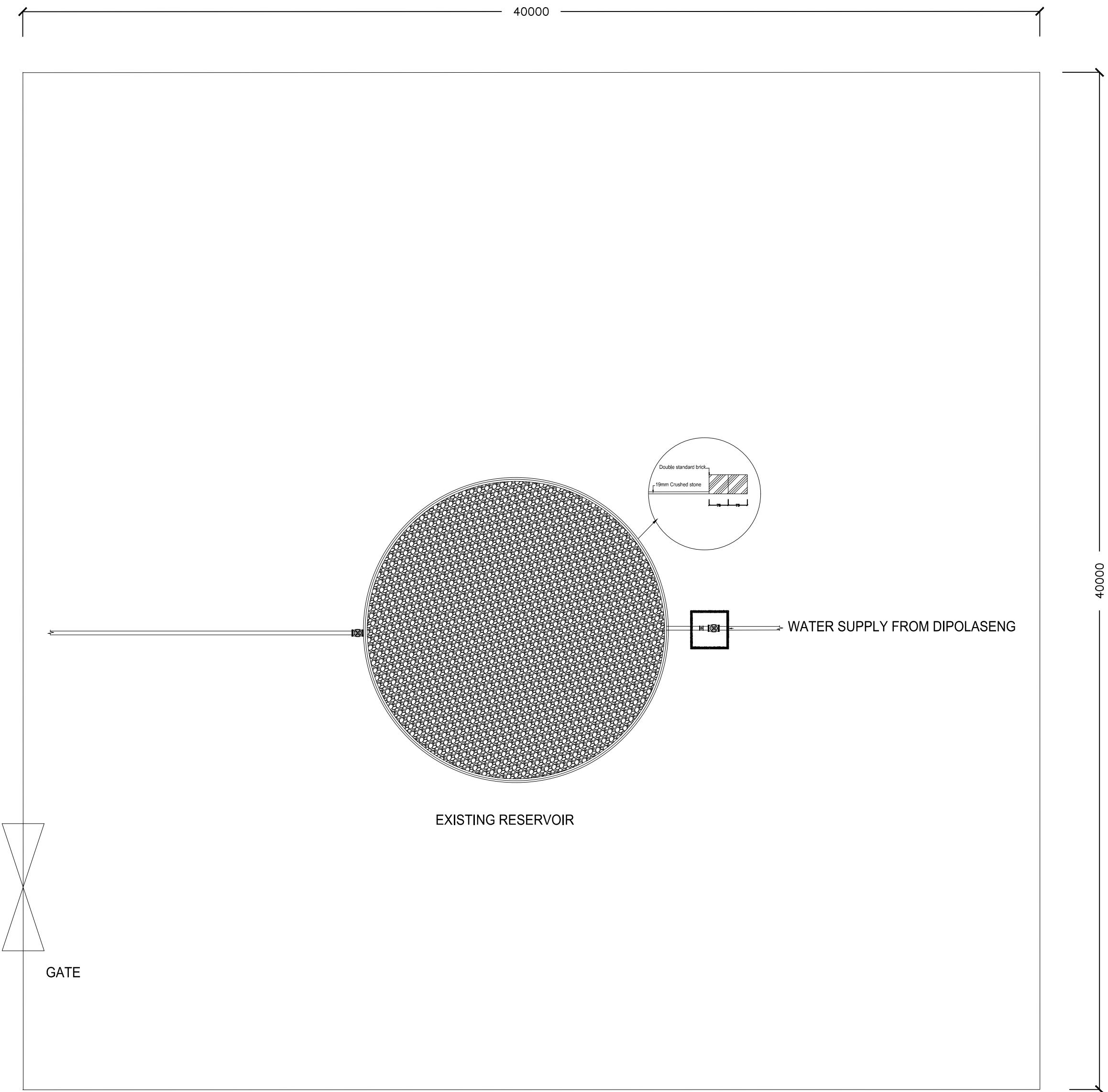
SIDE ELEVATION



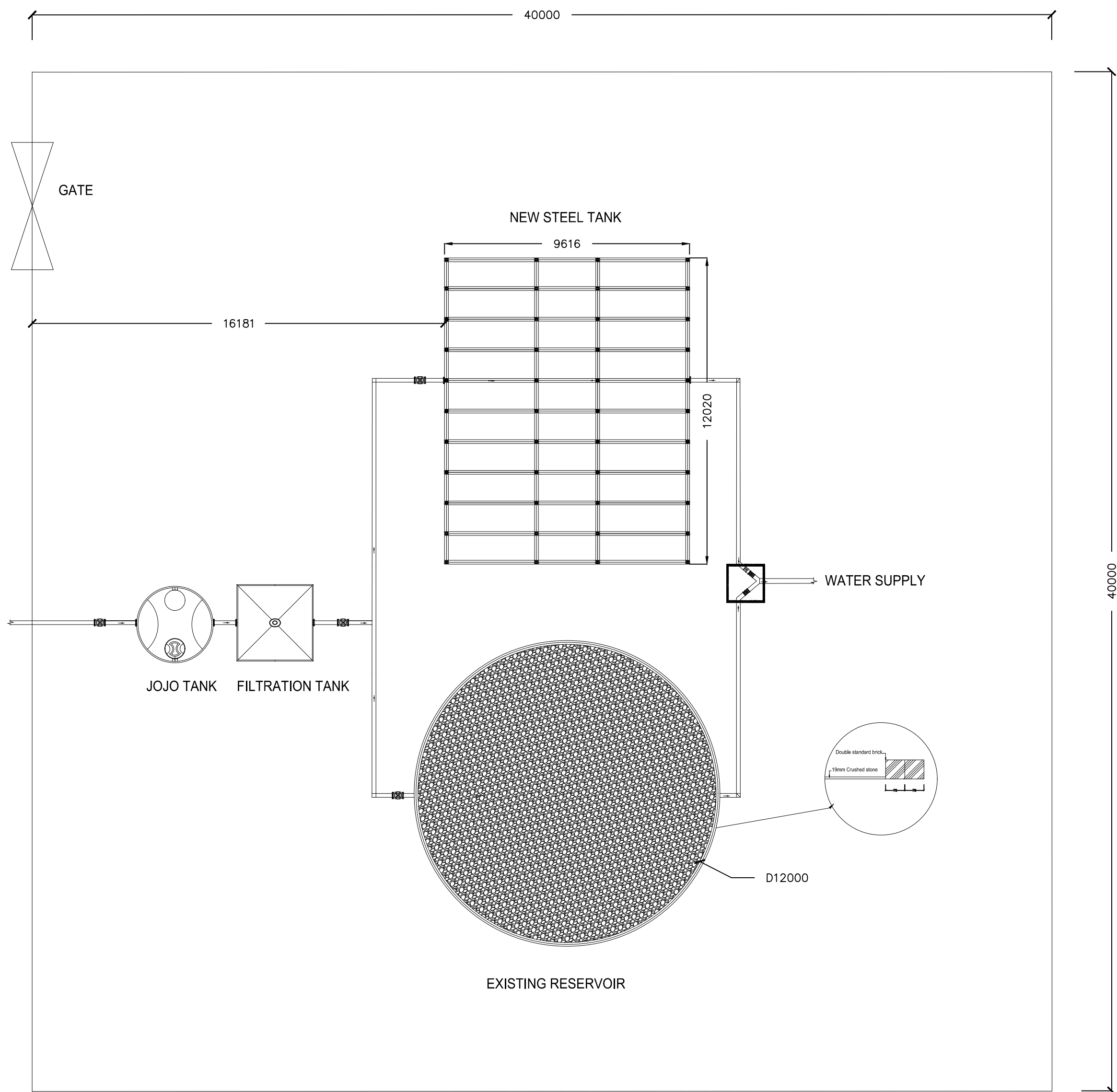
FRONT ELEVATION
INSIDE RESERVOIR

RESERVOIR STEEL LADDER

ITEM N°	DESCRIPTION	SYMBOL	QUANTITY
①	ISOLATING VALVE		7
②	BULK METER		2



RESERVOIR LAYOUT DIPOLASENG



RESERVOIR COMPLEX LAYOUT LEKOROKOROLANENG

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

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A		• Issued for tender
REV	DATE	26/08/24
	DESCRIPTION	

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

RESERVOIR COMPLEX LAYOUT PLAN

DRAUGHTSMAN	PS TEISHO	DESIGNED	
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

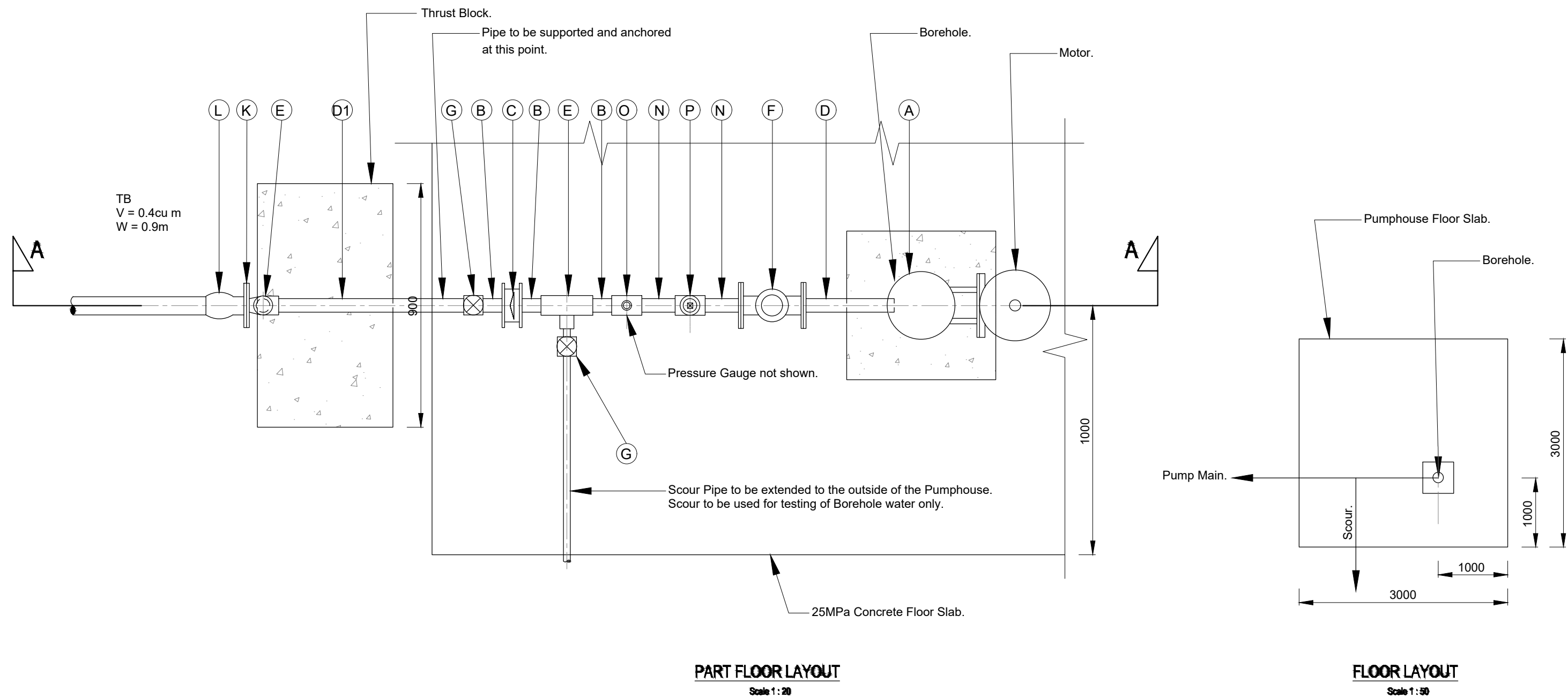
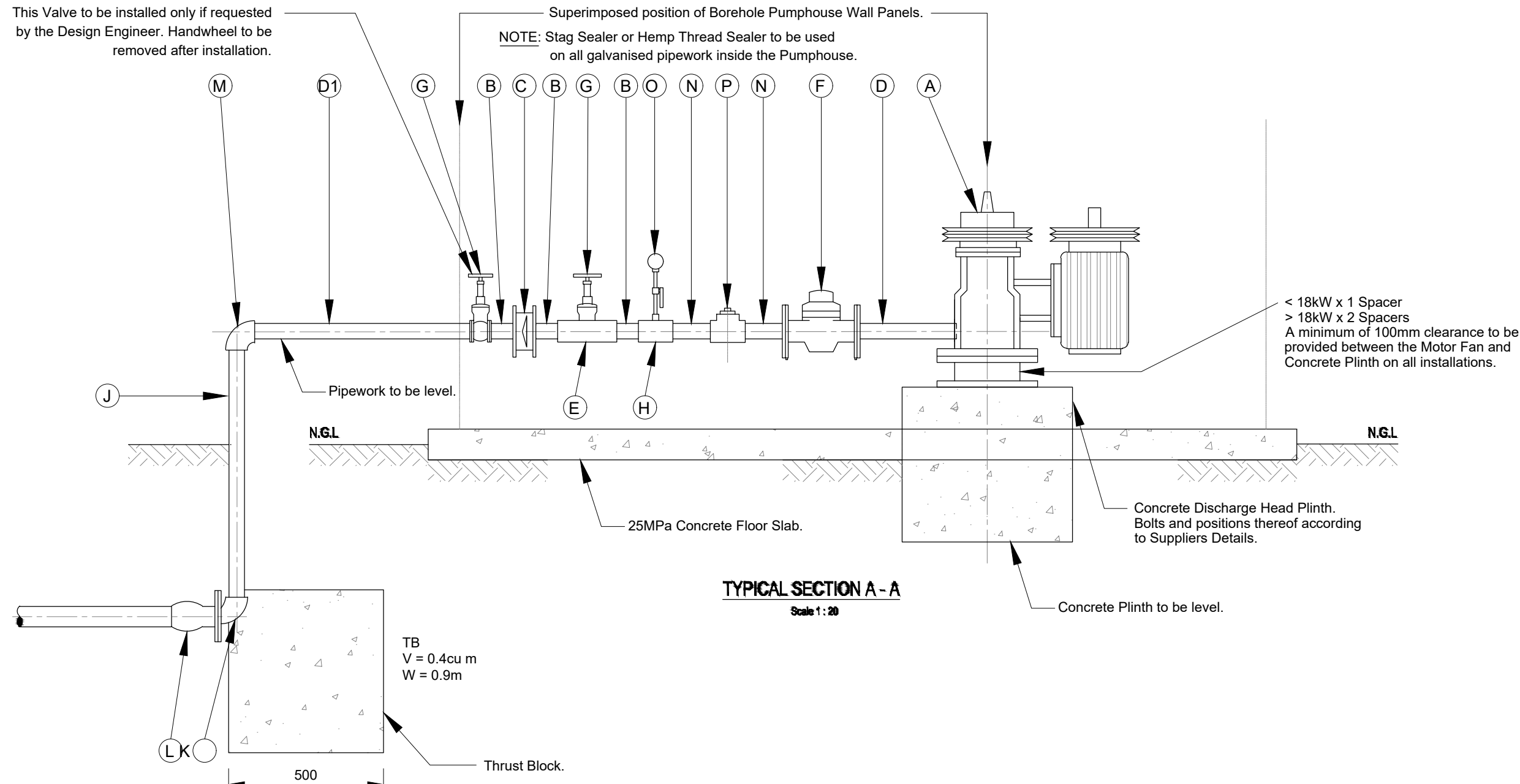
GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WATER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE	ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01RSV1	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



SABS 1123 - 1977 FLANGE DRILLING TABLE						
TABLE 1 000/4 - STEEL SCREWED BOSS FLANGES						
FLANGE (mm)			BOLT (mm)		DRILLING (mm)	
ND	D	t	DIA.	No.	DIA.	PCD
6	75	8	M10	4	11	50
8	80	8	M10	4	11	55
10	90	8	M12	4	14	60
15	95	8	M12	4	14	65
20	105	8	M12	4	14	75
25	115	8	M12	4	14	85
32	140	10	M16	4	18	100
40	150	10	M16	4	18	110
50	165	10	M16	4	18	125
65	185	10	M16	4	18	145
80	200	12	M16	8	18	160
100	220	12	M16	8	18	180
*125	250	14	M16	8	18	210
150	285	16	M20	8	22	240
* Non preferred size						

SCHEDULE OF FITTINGS						
REF.	ND	DESCRIPTION	WALL t mm	FLANGE DRILLING	TREATMENT GALVANIZED PAINT EPOXY RESIN	QUANTITY
A	-	A Rotary Pump Discharge Assembly, complete with Spacer Box and Motor Mounting Bracket. Discharge Head to have 2 x 20 ND holes drilled in base. Electrical Installations 2 off, and Diesel Installations 1 off 20N HD Polyethylene Type IV Class 6 Sleeve Pipe (from Pump Unit to Discharge Head), strapped to columns at maximum 3m centres with heavy duty cable ties. Sleeve Pipe to stand 200mm proud of Discharge Head Base Plate, and to be complete with 15ND Nylon Insert Plug.	-	-	-	1 Set
B	*	Heavy Duty Galvanised Barrel Nipple.	-	-	*	4 no.
C	*	Wafer Pattern Non-Return Valve, suitable for 1000 kPa pressure, supplied with two heavy duty Galvanised Screw-on Flanges. Drilled SABS 1123 Table 1000/4.	-	-	*	1 Set
D	*	300mm Long, heavy duty galvanised Pipe Piece, threaded both ends.	-	-	*	1 no.
D1	*	700mm Long, heavy duty galvanised Pipe Piece, threaded both ends. (Exact length to be determined on Site.)	-	-	*	1 no.
E	*	Heavy duty galvanised Equal Tee.	-	-	*	1 no.
F	*	Flanged Water Meter with two heavy duty Galvanised Screw-on Flanges, drilled SABS 1123 Table 1000/4.	-	-	*	1 set
G	*	Brass Female Fullway Gate Valve suitable for 1000 kPa pressure.	-	-	-	2 no.
H	*25	Heavy duty galvanised Reducing Tee.	-	-	*	1 no.
J	*	1.5m (Corrected Rr) long heavy duty galvanised Pipe, threaded both ends.	-	-	*	2 no.
K	*	90 Degree heavy duty galvanised male/female Elbow, complete with a heavy duty galvanised Screw-on Flange. Drilled SABS 1123 Table 1000/4.	-	-	*	1 Set
L	*	Flanged Adaptor for PVC Pipes, drilled SABS 1123 Table 10.	-	-	-	1 no.
M	*	90 Degree heavy duty galvanised female Elbow.	-	-	*	1 no.
N	*	125mm Long heavy duty galvanised Pipe, threaded both ends.	-	-	*	2 no.
O	8	100mmØ Glycoline-filled Pressure Gauge, reading from 0 - 1600 kPa complete with 2 x 8 x 75mm long MGI Pipe threaded both ends, and 1 x 8mm female threaded Ball-O-Top Isolating Cock.	-	-	*	1 Set
P	*6	Heavy duty galvanised Tee, complete with plug fitted to branch (for Pressure Switch on Electrical Installations.)	-	-	*	1 Set
*** NOTE: For DN of all fittings, refer to relevant Nodal description in Document.						

GENERAL NOTES

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- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

G		
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A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

BOREHOLE DISCHARGE PIPEWORK

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

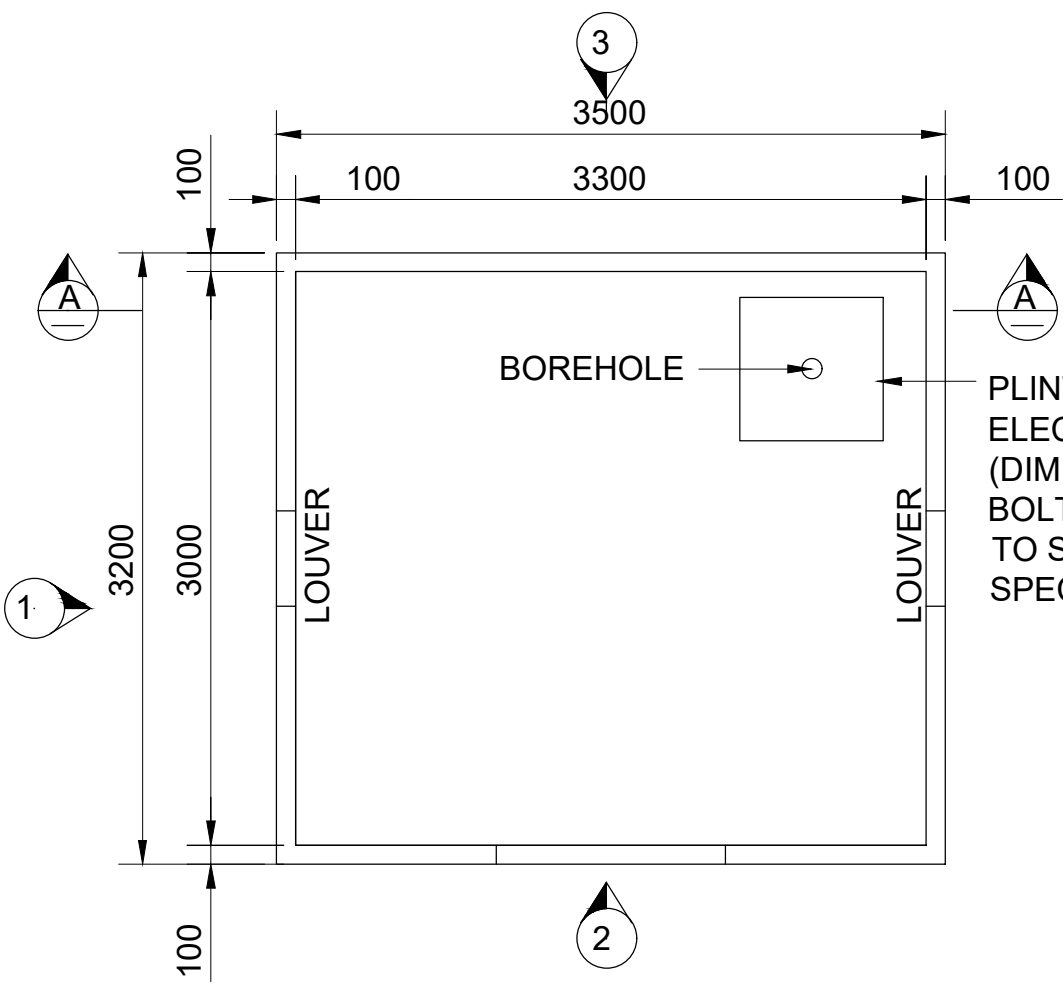
CLIENT SIGNATURE

ENGINEERS SIGNATURE

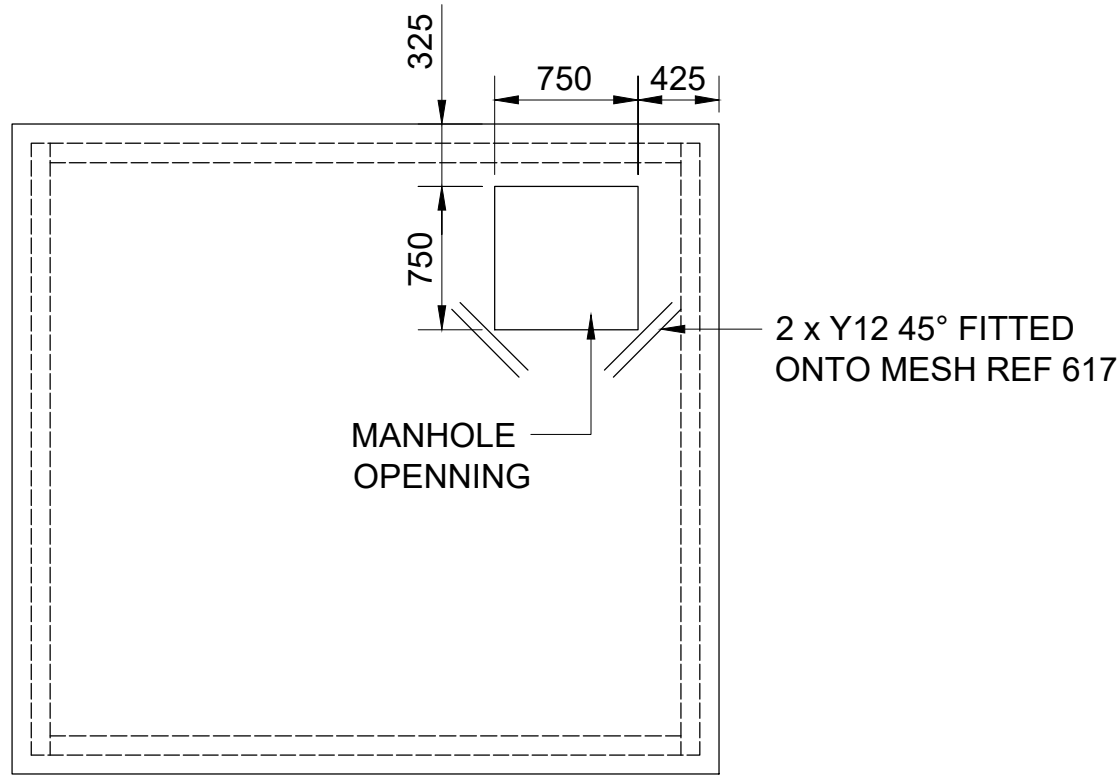
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A1	WS-EZM-01D10	0

PROJECT NUMBER

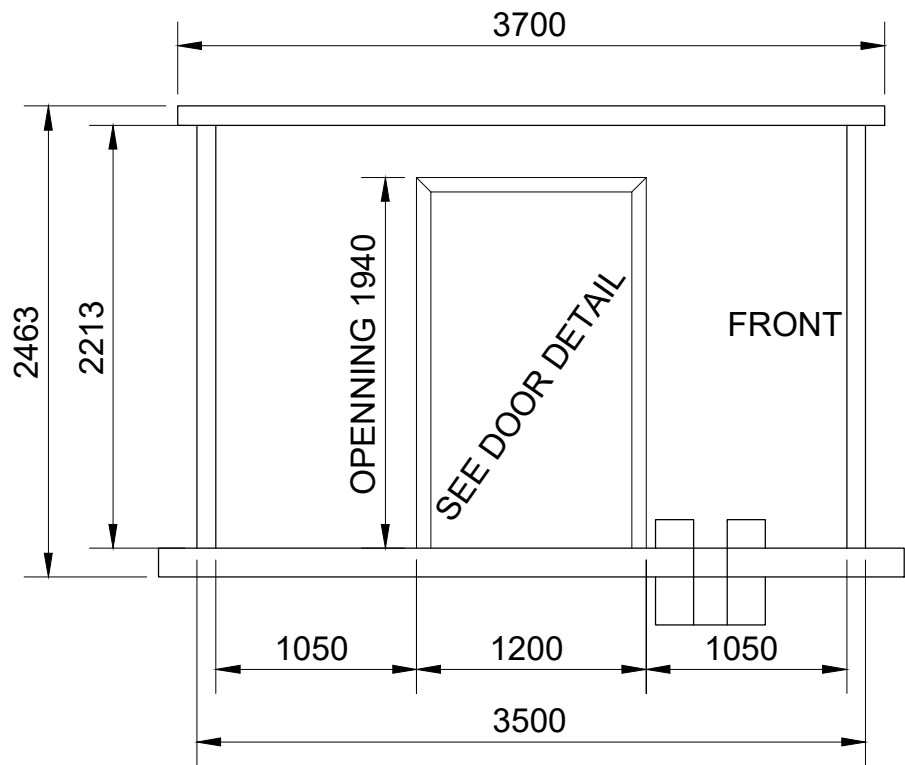
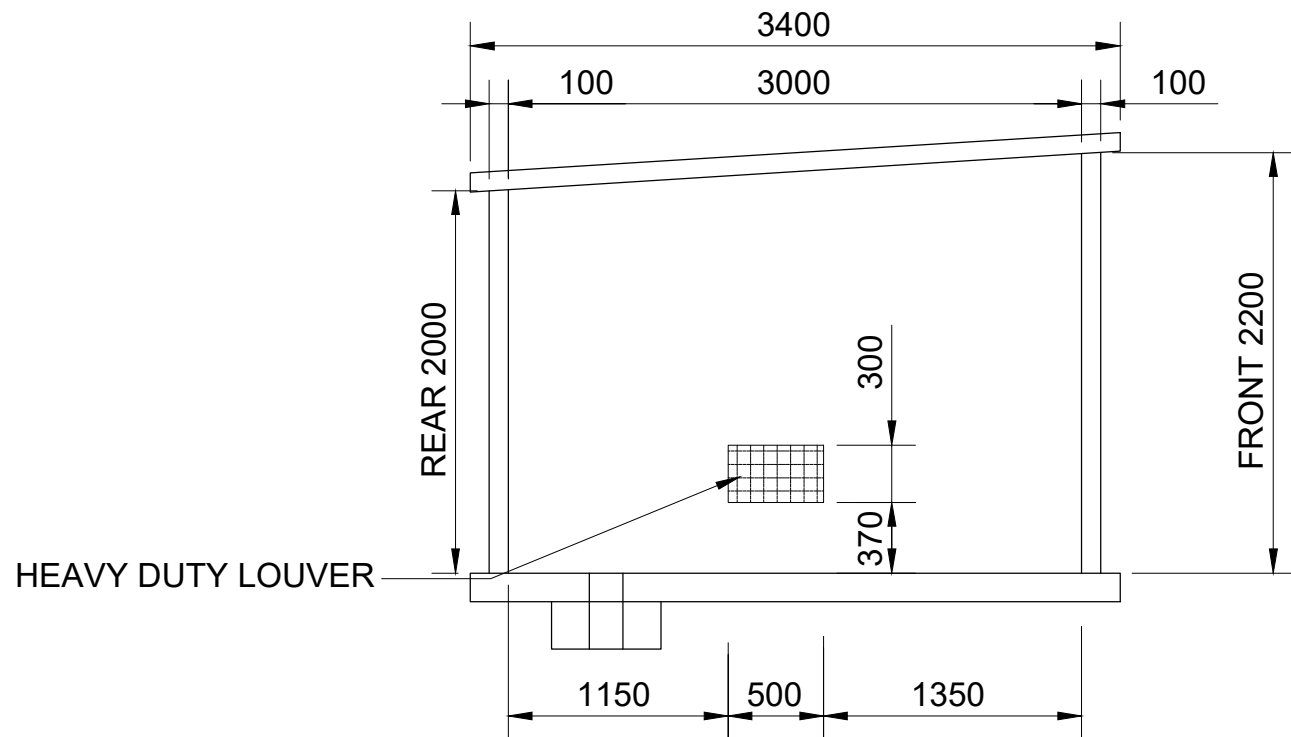
SK8/3/1-11/2024/2025



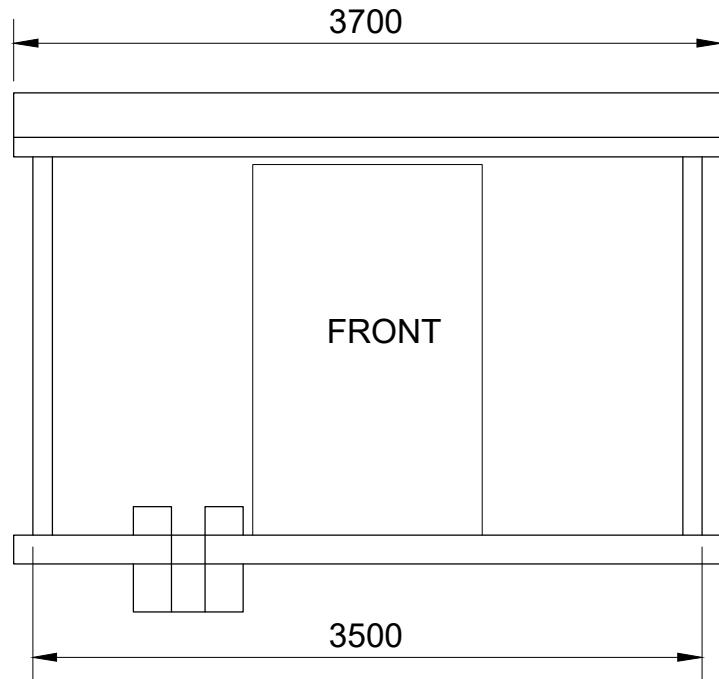
PUMPHOUSE FLOOR LAYOUT
SCALE 1:50



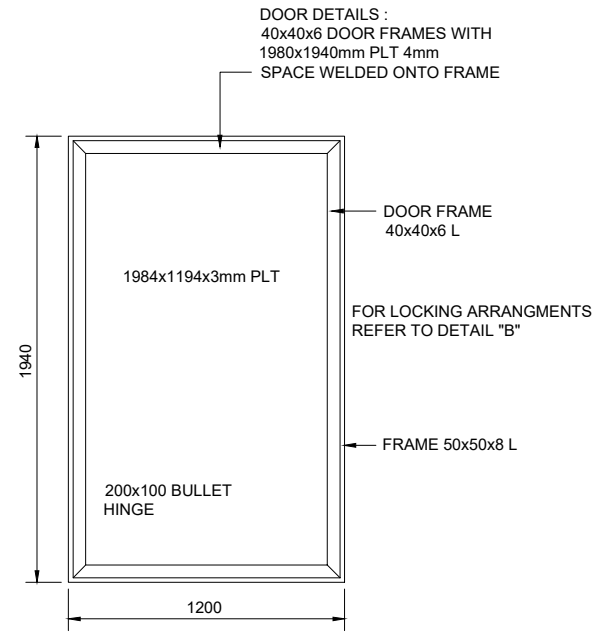
ROOF SLAB LAYOUT
SCALE 1:50



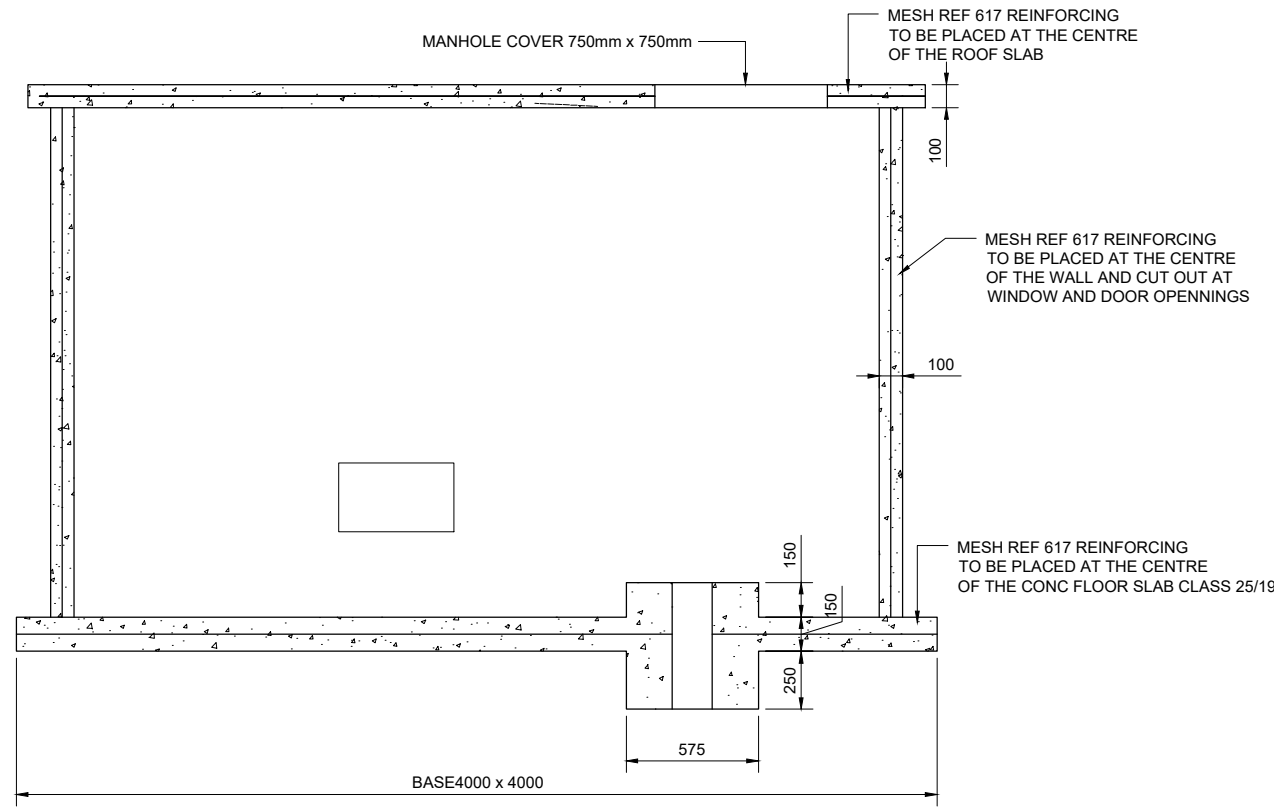
ELEVATION 2
SCALE 1:50



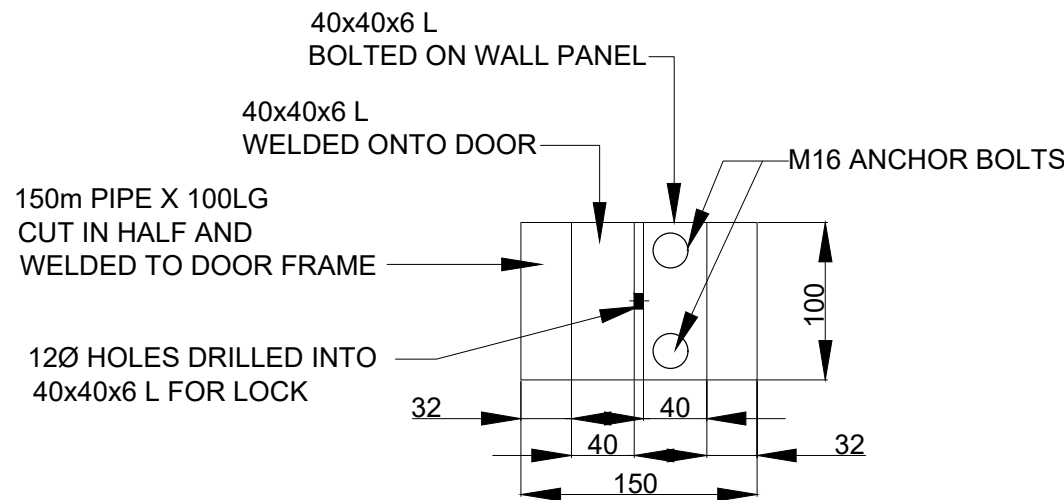
ELEVATION 3
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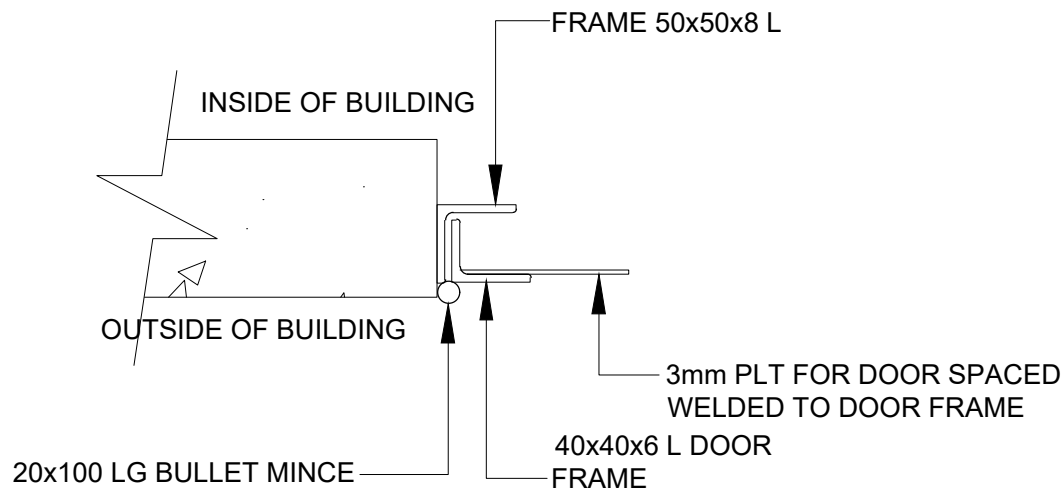
DOOR DETAIL
SCALE 1:20



SECTION A - A
SCALE 1:20



DETAIL B
SCALE 1:5



DETAIL A
SCALE 1:5

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

G		
F		
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B		
A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

BOREHOLE PUMP HOUSE DETAILS

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

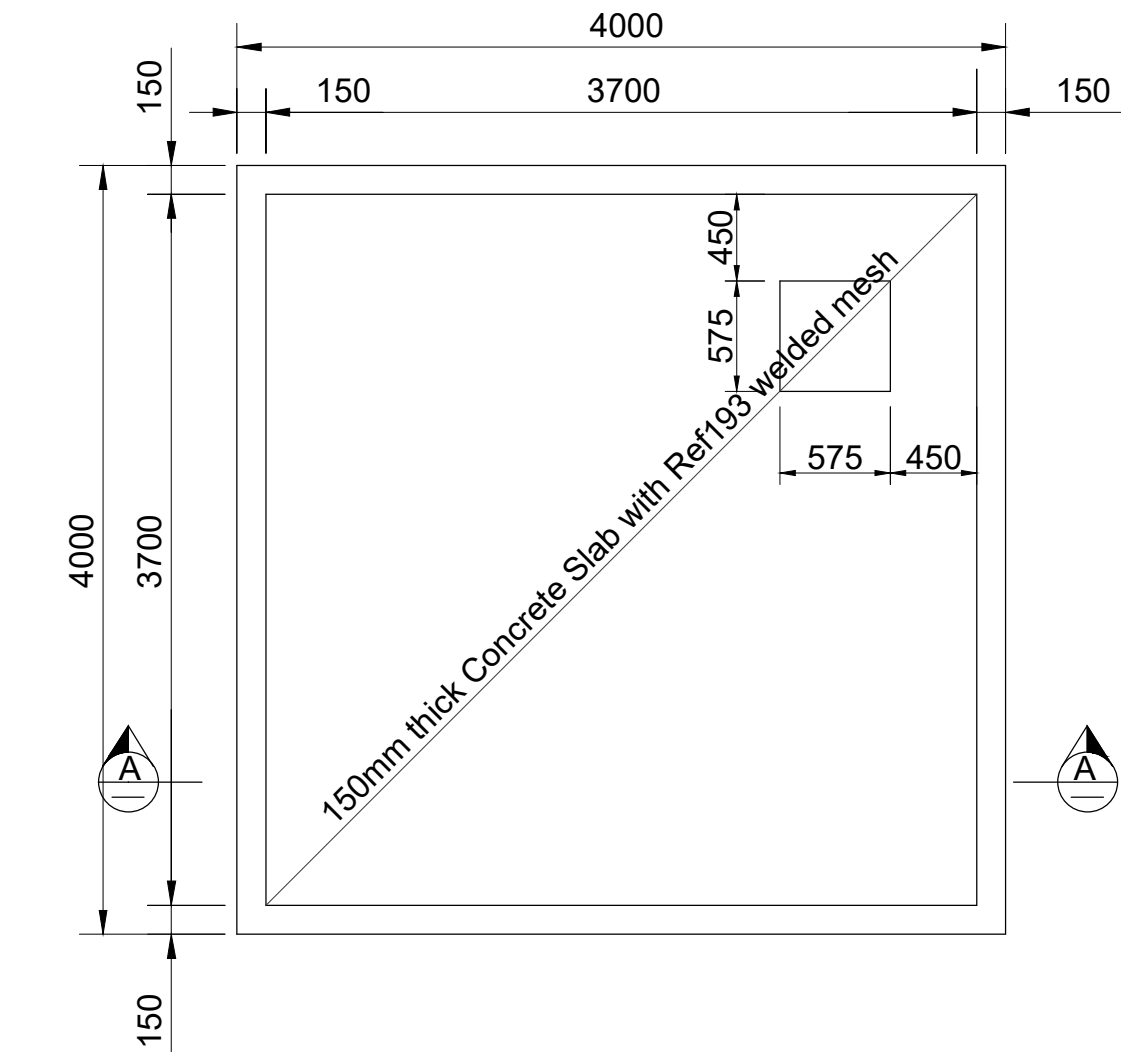
CLIENT SIGNATURE

ENGINEERS SIGNATURE

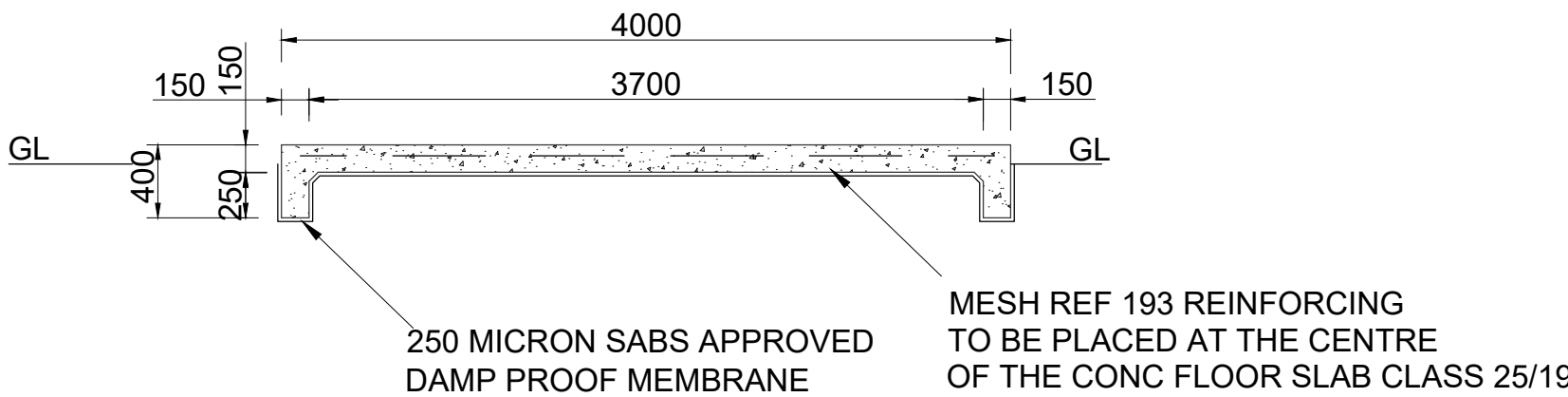
SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D11	0

PROJECT NUMBER

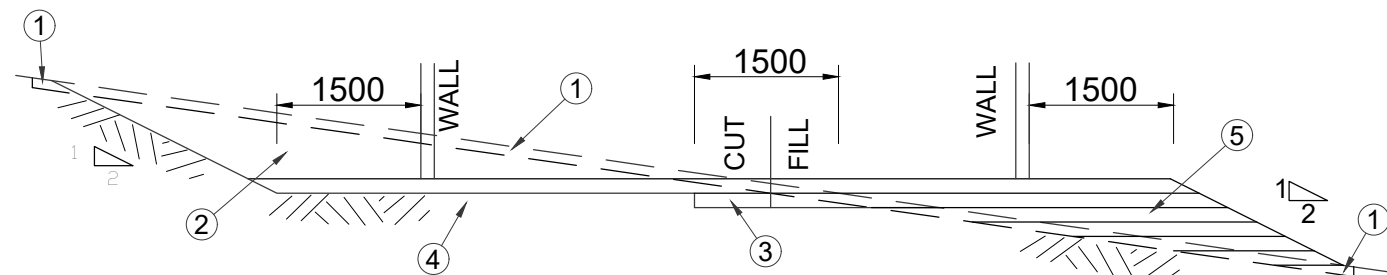
SK8/3/1-11/2024/2025



PUMPHOUSE FOUNDATION LAYOUT
SCALE 1:50



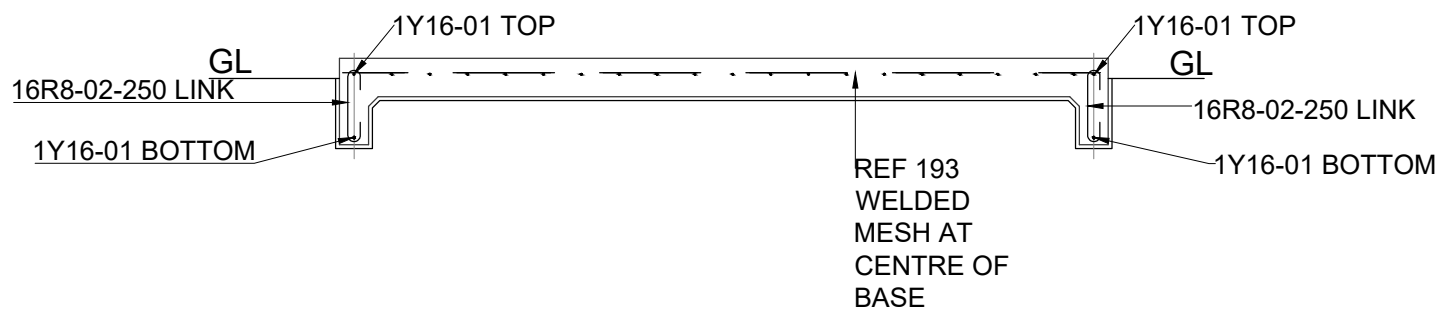
SECTION A-A
SCALE 1:50



TYPICAL BUILDING PLATFORM

CONSTRUCTION OF BUILDING PLATFORMSON SITES WITH STEEP SLOPES

- 1 REMOVE 100mm TOPSOIL 1m WIDER THAN EXCAVETION LIMIT FOR FOUNDATION
 - 2 EXCAVATE TO STOCKPILE TO LEVEL OUT THE PLATFORM.
 - 3 EXCAVATE EXTRA 150mm DEEP x 1.5m WIDE ON CUT / FILL LINE.
 - 4 RIP, WATER AND COMPACT IN-SITU FORMATION WHILE MEASSURING THE DROP IN THE SURFACE AFTER EVERY 4 PASSES OF THE ROLLER(BOMAG 212D OR PD IS RECOMMENDES) . STOP WHEN THE DROP IS LESS THAN 2mm PER 4 PASSES.
 - 5 BACKFILL AND COMPTCT TO 93 % MOD. AASHTO DENSITY IN 150mm LAYERS AT OPTIMUM MOISTURE CONTENT. TOP LAYER TO BE 150mm TYPE G7 MATERIAL COMPACTED TO 95 % MOD. AASHTO DENSITY.
- NB THE PLATFORM MUST BE THOROUGHLY WATERED BEFORE THE FILL IS PLACED.



REINFORCING DETAILS
SCALE 1:50

GENERAL NOTES

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G		
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A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT

PRINCIPAL AGENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

BOREHOLE PUMP FOUNDATION DETAILS

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

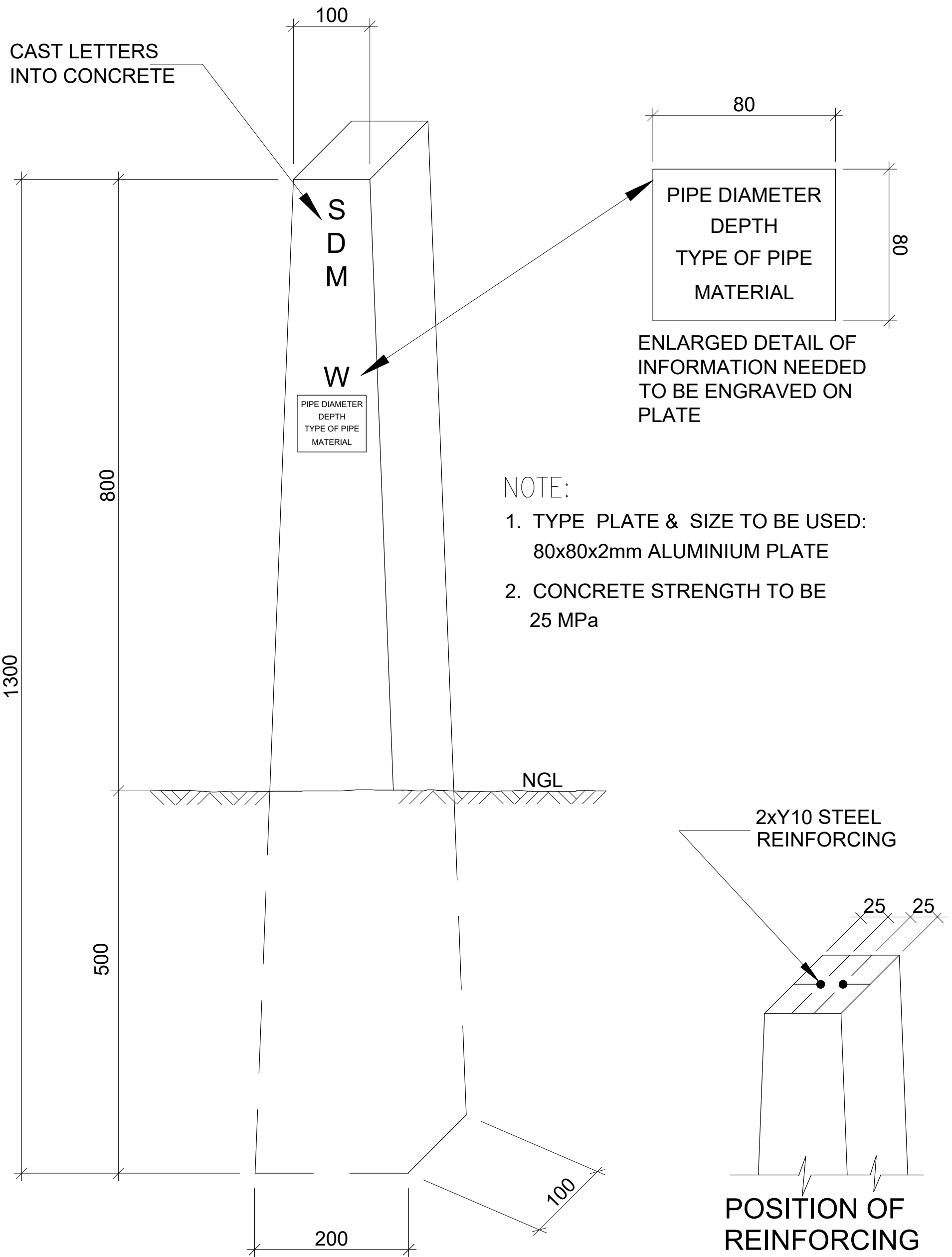
CLIENT SIGNATURE

ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D12	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



PLAN

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
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G		
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B		
A	26/08/24	• Issued for tender
REV	DATE	DESCRIPTION

REVISION
CLIENT



PRINCIPAL AGENT



AREA SCHEDULE	
GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

CONCRETE MARKER BLOCK

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

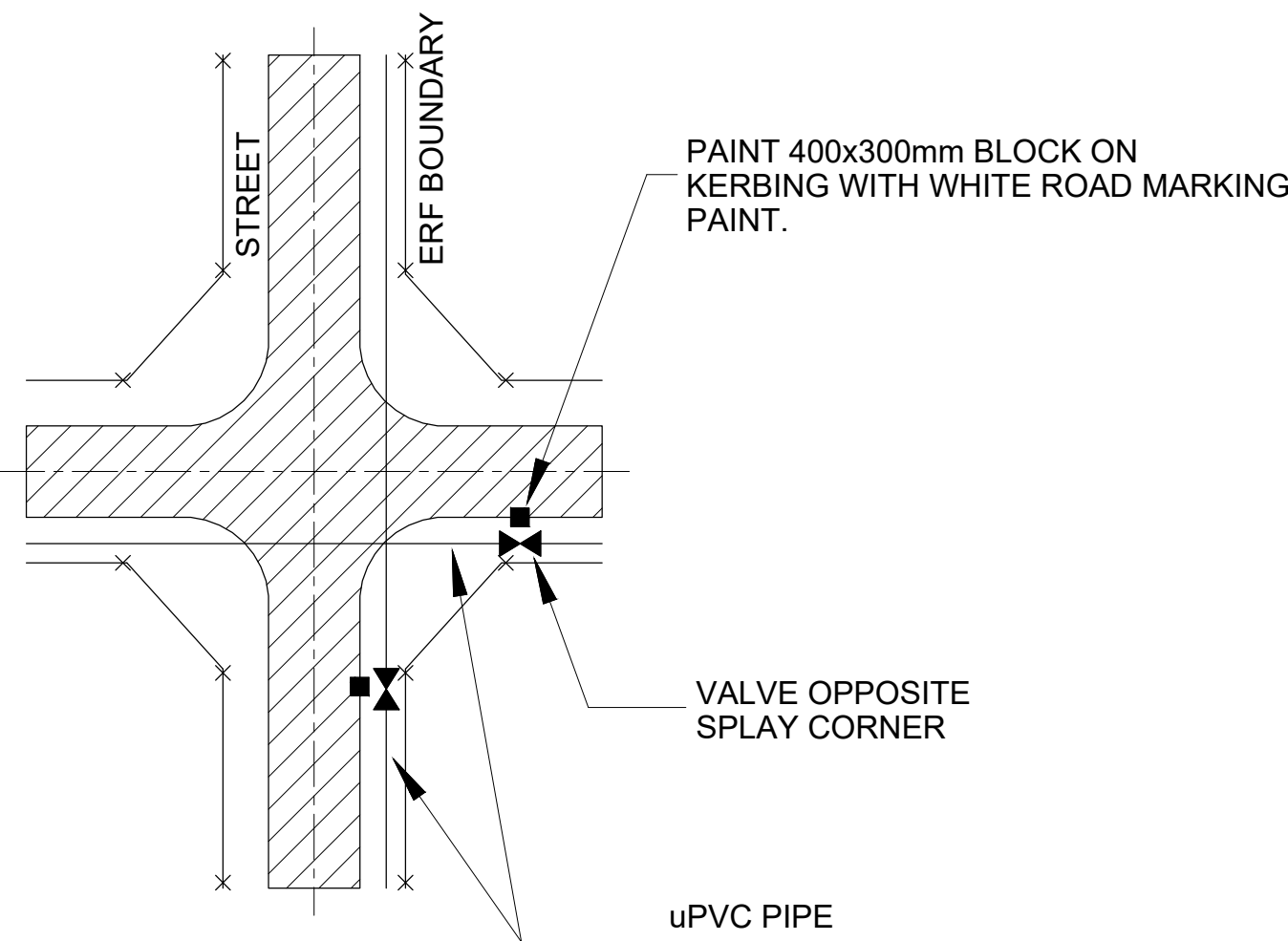
CLIENT SIGNATURE

ENGINEERS SIGNATURE

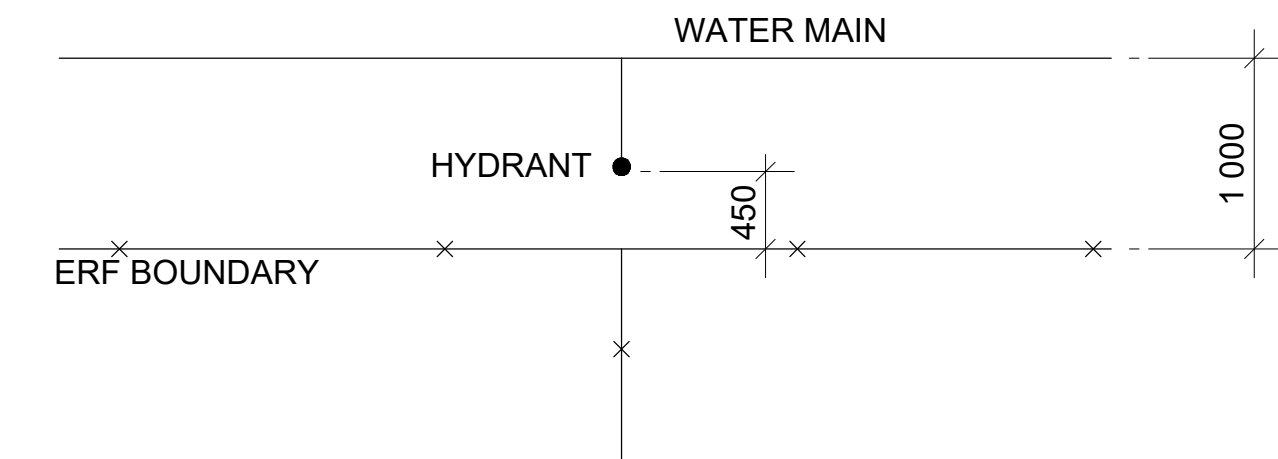
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A1	WS-EZM-01D9	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



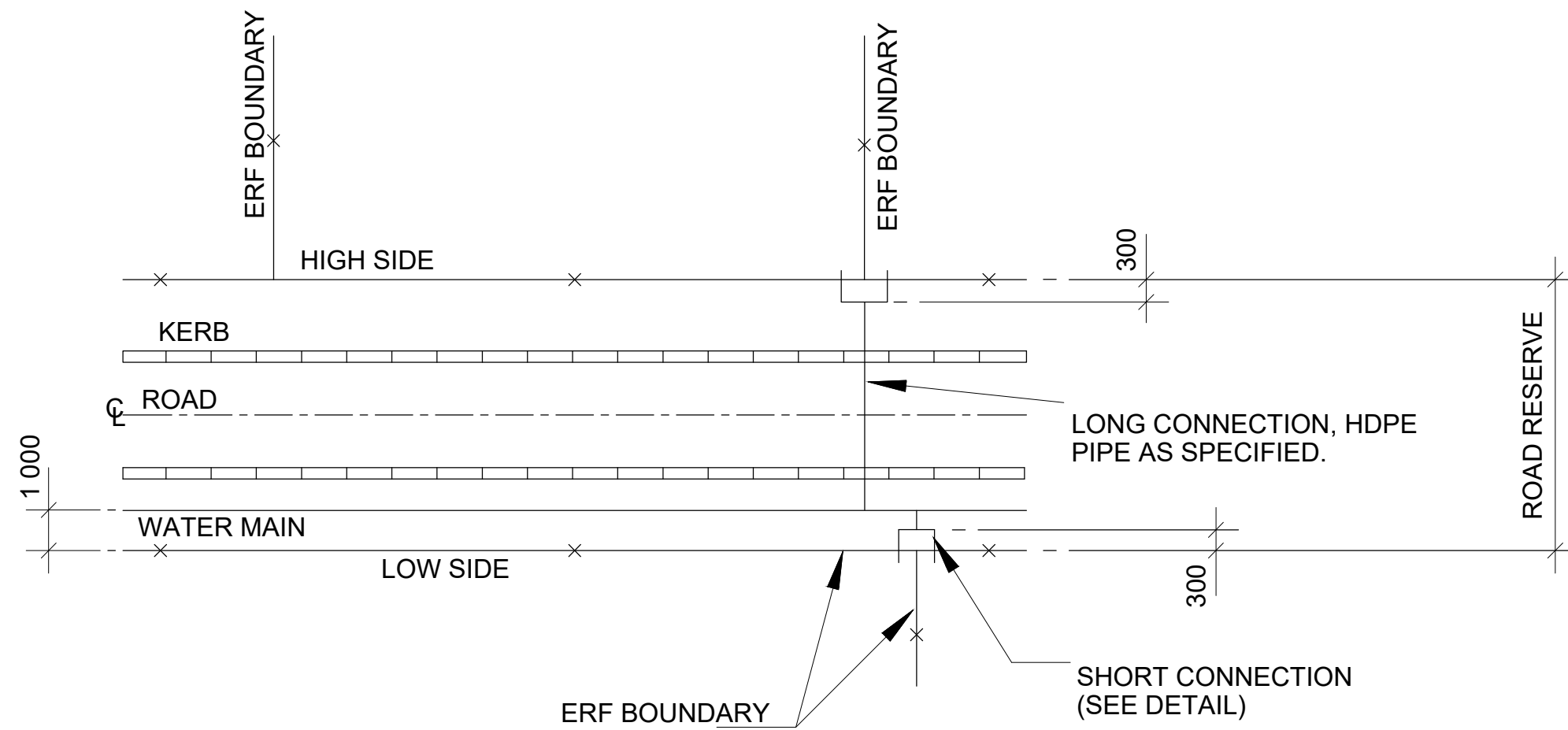
PIPE & VALVES AT INTERSECTION



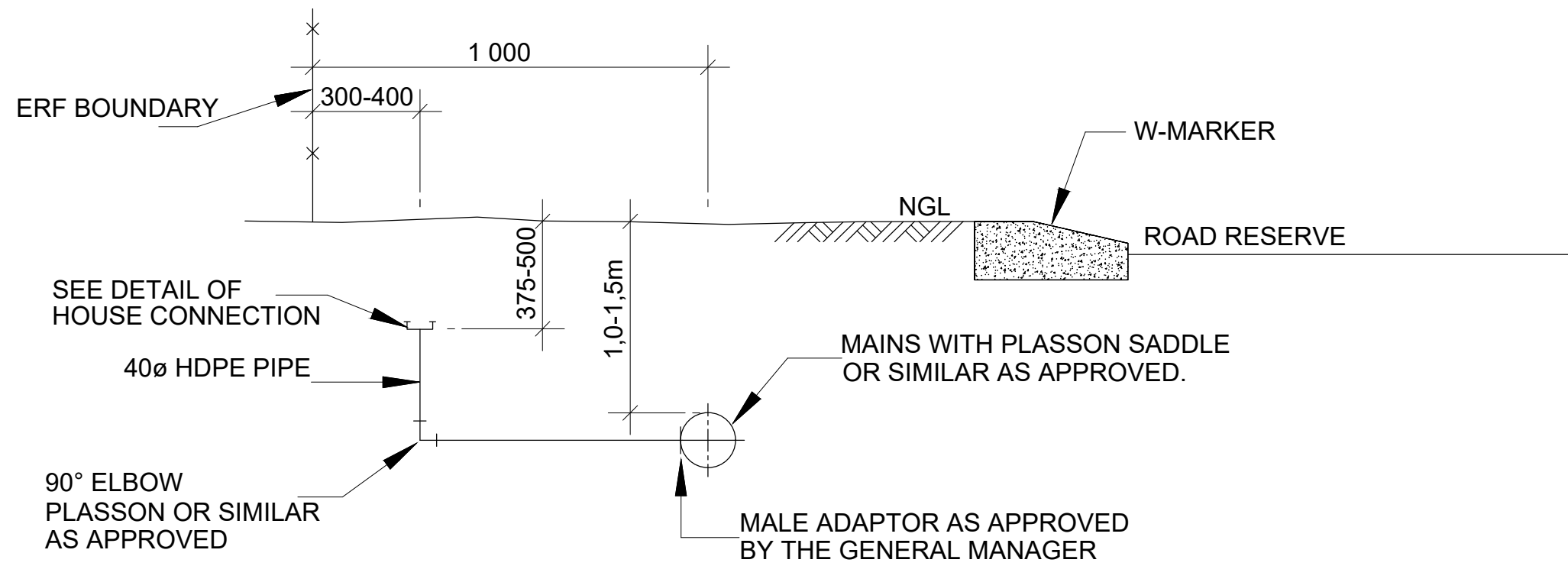
HYDRANT LOCATION

NOTES:

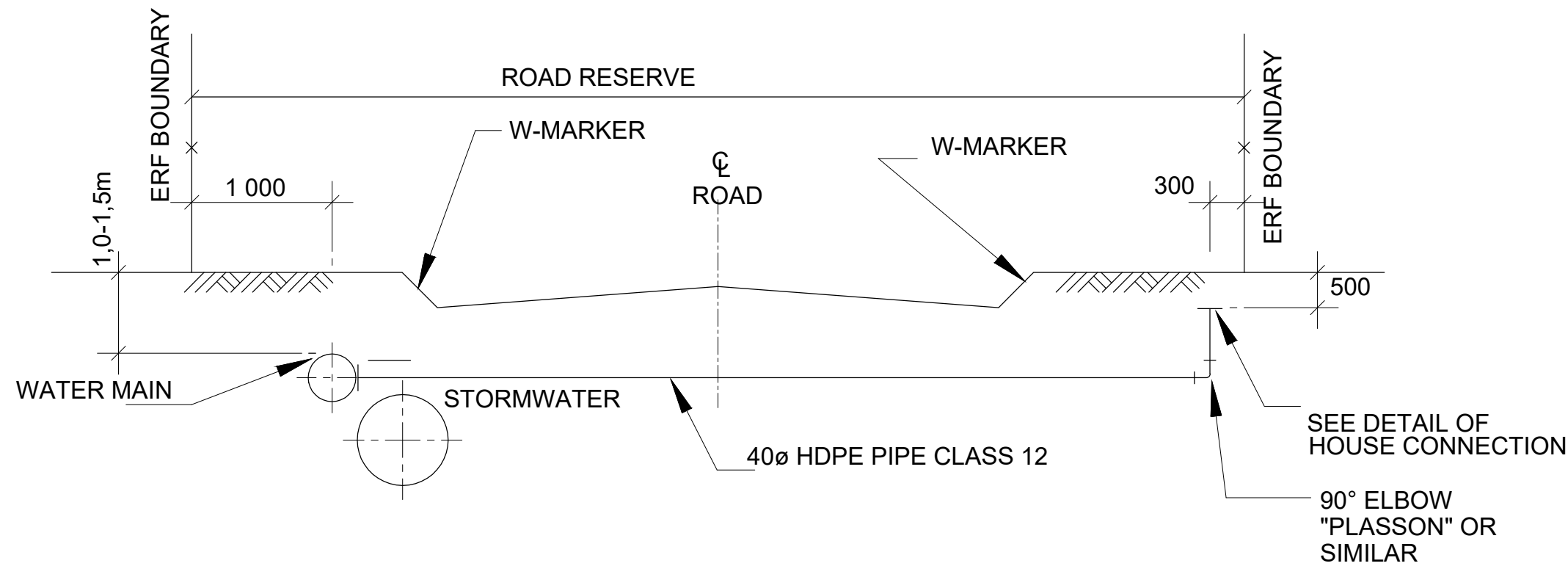
1. ALL SPECIAL RESIDENTIAL ERVEN, 32-25ø HDPE PIPE, UNLESS PERMISSION HAS BEEN OBTAINED FROM GENERAL MANAGER.
2. PAINT 400x300mm BLOCK ON KERBING WITH WHITE ROAD MARKING PAINT.
3. THE LETTER "W" IS TO BE FORMED IN THE CONCRETE KERB TO IDENTIFY THE POSITIONS OF THE ROAD CROSSINGS OF ALL THE RETICULATION AND ERF CONNECTION PIPELINES.
4. WHEN ROAD RESERVE IS LESS THAN 13m, SEE DRAWING NO. PLN001_1a & PLN001_2a.
5. ALL HOLES DRILLED FOR CONNECTIONS ON uPVC PIPES MUST NOT EXCEED 25ø.



PLAN : ROAD RESERVE



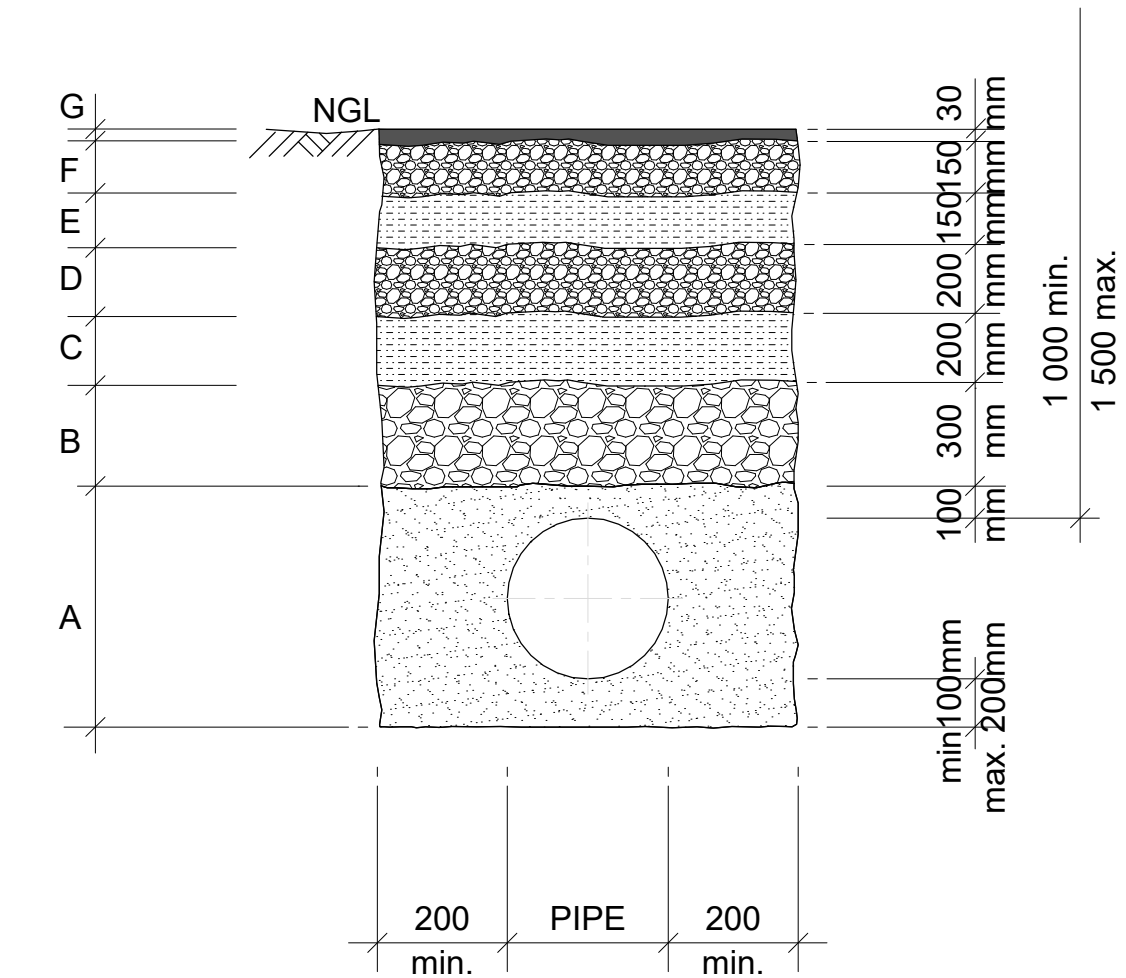
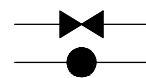
SECTION : SHORT CONNECTION



SECTION : LONG CONNECTION

LEGEND

VALVE
HYDRANT



- A: BEDDING CRADLE OF SELECTED GRANULAR MATERIAL (COMPACTED)
- B: SELECTED FILL BLANKET (AGGREGATE max. 10mm)
- C: SELECTED GRANULAR MATERIAL (COMPACTED)
- D: SELECTED FILLING (G5) (COMPACTED)
- E: BASE NATURAL GRAVEL (C4) (COMPACTED)
- F: SUBBASE IMPORTED NATURAL GRAVEL (G5) (COMPACTED)
- G: ASPHALT (30mm GRADED ASPHALT)

TYPICAL CROSS SECTION OF PIPE TRENCH FOR FLEXIBLE PIPES

GENERAL NOTES

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REV	DATE	DESCRIPTION
A	26/08/24	Issued for tender

REVISION	CLIENT
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AREA SCHEDULE	
GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION
EENZAAM WATER SUPPLY

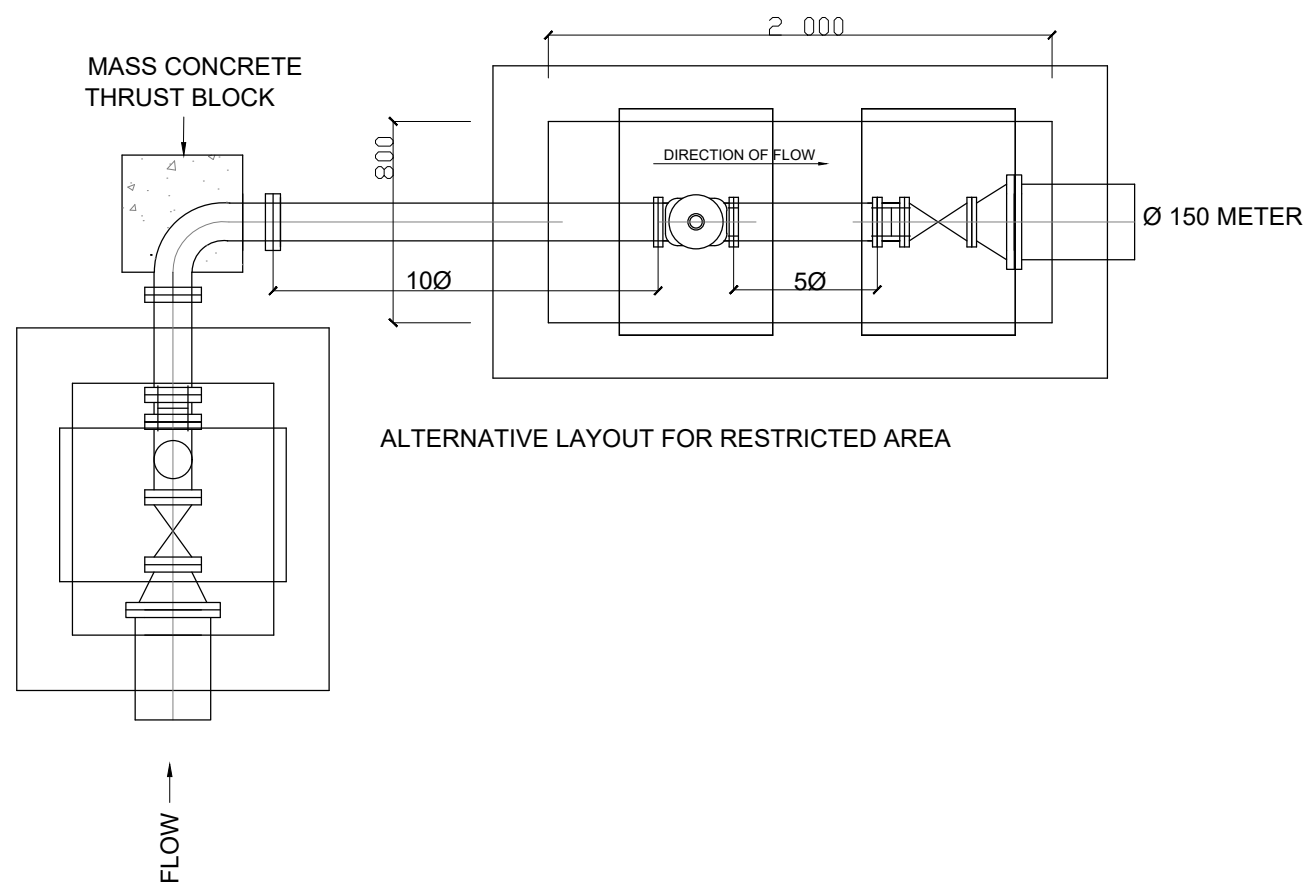
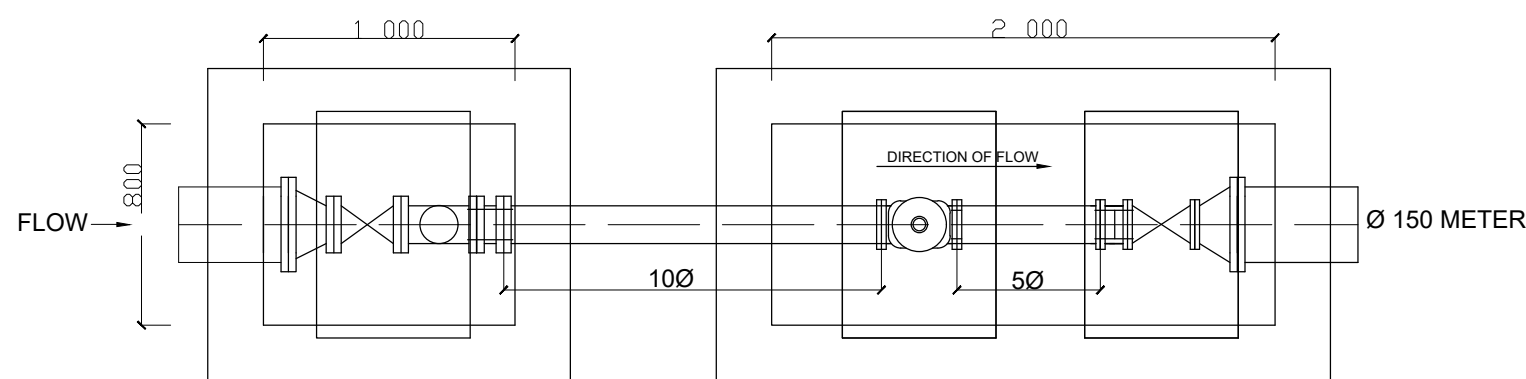
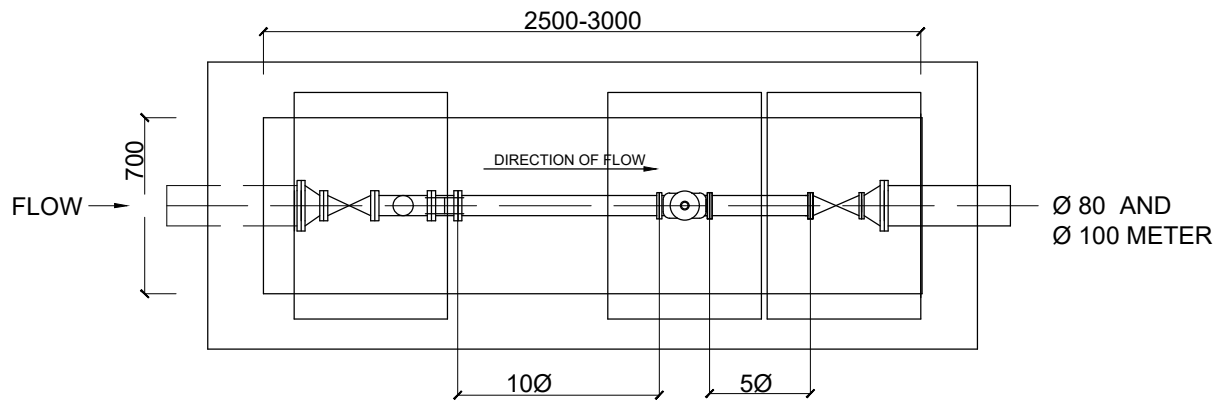
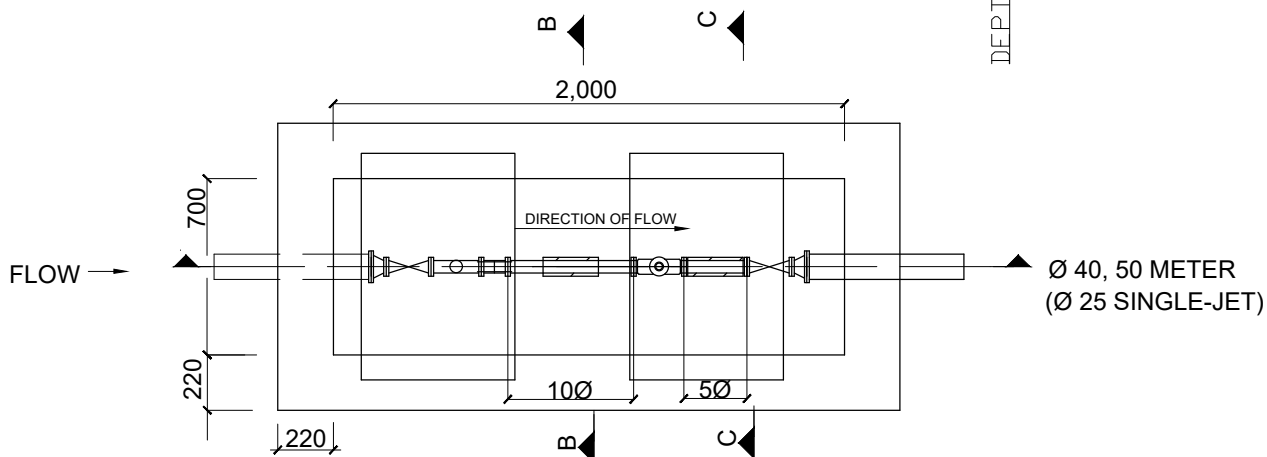
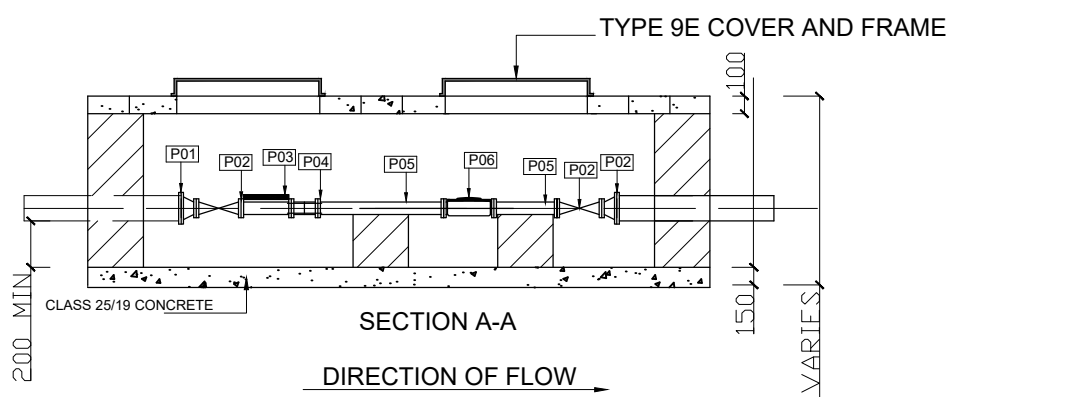
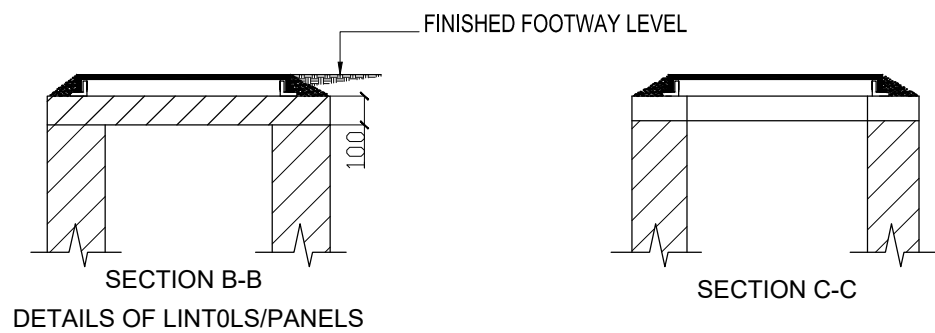
DRAWING TITLE
GENERAL DETAILS

DRAUGHTSMAN	DATE	SCALE	DESIGNED	APPROVED
PS TOGBO	AUG 2024	AS SHOWN	S ZULU	SL KEKANA

CLIENT SIGNATURE		ENGINEERS SIGNATURE	

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D8	0

PROJECT NUMBER
SK8/3/1-11/2024/2025



METER CHAMBER FITTINGS BASE DIMENSIONS						
BASED ON METER DIAMETER						
METER SIZE	RECOMMENDED SINGLE CHAMBER		RECOMMENDED TWO CHAMBER			
	DIMENSION		DIMENSION			
	LENGTH	WIDTH	UPSTREAM VALVE		DOWNSTREAM METER, PIPE & VAVLE	
			LENGTH	WIDTH	LENGTH	WIDTH
50	2.000	700				
80	2.500	700				
100	3.000	700				
150			1000	800	2000	800

FLANGE ADAPTOR GAP

METER DIAMETER	FLANGE ADAPTOR GAP
50	18
80	18
100	18
150	18
200	18
250	18
300	32
400	32
500	32
600	32
800	32

PIPE AND FITTING SCHEDULE	
ITEM	DISCRIPTION
P01	REDUCER
P02	VALVE(RSV)
P03	STRAINER
P04	FLANGE ADAPTOR
P05	PIPE LENGTH
P06	METER

NOTES

- COVERS AND FRAMES TO SABS 558 TO BE HINGED STEEL OR HINGED CAST IORN OR HINGED DUCTILE IRON OR POLYMER CONCRETE MEDIUM DUTY IN FOOTWAY.
- BRICKS SHALL BE GENERAL PURPOSE BURNT CLAY BRICKS COMPLYING WITH SABS 227 OR CLASS S14 CALCIUM SILICATE BRICKS COMPLYING WITH SABS 282.
- TABLE SUGGESTED CHAMBER SIZES TO BE CONFIRMED ON SITE.
- SIZES Ø 250 AND ABOVE MUST BE DESIGNED TO SUIT LOCATION AND CIRCUMSTANCES.
- THESE COVER DETAILS ARE FOR NO VEHICULAR ACCESS.

Reducer Diameter Table

Included Angle

Tan(16/2) Degrees 0.14

Reducer Length ((D1-D2)/2)tan(16/2)

Supply Pipe Diam (D1)	Meter Diameter (D2)						
	50	80	100	150	200	250	300
50	0						
80	107	0					
100	178	71	0				
150	356	249	178	0			
200	534	427	356	178	0		
250	712	605	534	534	178	0	
300	890	783	712	1.246	356	178	0

Supply Pipe Diam (D1)	Meter Diameter (D2)						
	300	350	400	450	500	600	800
350	178	0					
400	356	178	0				
450	534	356	178	0			
500	712	534	356	178	0		
600	1.068	890	712	534	356	0	
800	1.779	1.601	1.423	1.246	1.068	712	0

METER INSTALLATION CRITERIA

UPSTREAM REQUIREMENTS 10 * METER DIAMETER OF STRAIGHT PIPE

DOWNSTREAM REQUIREMENTS 5 * METER DIAMETER OF STRAIGHT PIPE

- THIS DRAWING AND TABLES SERVE AS GUIDELINE FOR THE DETERMINATION OF CHAMBER DIMENSIONS THAT ARE BASED ON THE SELECTED METER DIAMETER.
- THE REQUIRED LENGTH OF STRAIGHT PIPEWORK UPSTREAM AND DOWNSTREAM LENGTHS OF THE METER ARE BASED ON THE METER DIAMETER.
- ALL FLANGED VALVE, STRAINER AND METER DIMENSIONS MUST BE VERIFIED BEFORE THE CHAMBER DIMENSION ARE FINALISED.
- THE DIMENSIONS FOR FLANGED VALVES, STRAINERS AND METERS ARE BASED ON THE FOLLOWING GATE VALVES : SABS 664 : 1999-SPECIFICATION-CAST IRON GATE VALVES FOR WATERWORKS. WP-TYPE METERS : INVENSYS (MEINECKE) 2002 PRODUCTS CATALOGUE.

STRAINERS : INVENSYS (MEINECKE) DATA SHEET.

REDUCERS WHERE USED MAY BE LOCATED OUTSIDE THE CONSTRUCTED CHAMBERS.

THE REDUCER DIMENSION TABLE BELOW SERVES AS A GUIDE FOR FABRICATION.

NOTE THE RECOMMENDED GAP ALLOWED FOR FLANGED ADAPTOR JOINTS.

THE CHAMBER DIMENSIONS GIVEN ARE INSIDE DIMENSIONS.

THE TABLE BELOW GIVE THE OPTION TO CONSTRUCT MULTIPLE CHAMBERS IN THE CASE OF LARGER METER SIZES

OR TO SUIT CONDITIONS ON SITE.

THE USE OF VIKING-JOHNSON COUPLING IS TO BE DISCOURAGE.

11. ALL CUSTOMER METER INSTALLATIONS TO BE SEALED (SEE DWG 9 FOR DETAILS).

METER SIZE	RECOMMENDED TWO CHAMBER				RECOMMENDED THREE CHAMBER					
	DIMENSION				DIMENSION					
	UPSTREAM VALVE		DOWNSTREAM METER, PIPE & VAVLE		UPSTREAM VALVE		METER		DOWNSTREAM VAVLE	
	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH	LENGTH	WIDTH
200	1000	800	2000	800						
250	1500	800	2500	800						
300	1500	1500	3000	1500						
400					2000	1400	1000	1500	1000	1500
500					2000	1500	1000	1500	1000	1500
600					2000	1600	1000	1500	1000	1500
800					2500	1800	1000	2000	1000	2000

APPROVED METER TYPE

Sizes (Nom Dia)	Customer Type / End Use	Approve Meter Type	Class	Strainer Required
15 - 20	Domestic	Volumetric (Brass Bodied)	C	No
15 - 20	Domestic	Volumetric (Plastic Bodied)	C	No
25	Industrial / Commercial / Domestic	Single-Jet (or Volumetric)	C (C)	Yes (No)
40 - 100	Industrial / Commercial	Single-Jet	C	Yes
150 & Up	Industrial / Commercial	Woltmann WP-Type	B	Yes
50 - 300	Bulk Metering / Water Magagement	Woltmann WP-Type	B	No
300 & Up	Bulk Metering / Water Management	Electro-Magnetic Force (or Woltmann WP-Type)	(B)	No (No)
100 (Min)	Fire Service - Type A	Woltmann WP-Type	B	No
80, 100	Fire Service - Type B	Single-Jet	C	Yes
25,40,50, 80 & 100	Fire Service - Type C	Single-Jet	C	Yes

NOTES

- VOLUMETRIC METERS ARE AVAILABLE WITH BOTH BRASS AND PLASTIC BODIES. GENERALLY, PLASTIC METERS ARE INSTALLED IN LESS SECURE AREAS.
- FOR CUSTOMER METER SIZES 25mm, VOLUMETRIC METERS MAY BE INSTALLED AS AN ALTERNATIVE TO SINGLE-JET METERS.
- FOR BULK METER SIZES 350mm AND UP, WOLTMANN WP-TYPE METERS MAY BE INSTALLED AS AN ALTERNATIVE TO EMF METERS WHERE THERE IS A LACK OF A POWER SUPPLY OR FOR SECURITY REASONS.
- REFER TO THE STANDARD JW LAYOUT DRAWING FOR FIRE CONNECTIONS DRAWING No DWG 8 : METER FIRE CONNECTIONS.

GENERAL NOTES

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A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

TYPICAL LAYOUT FOR METER CHAMBERS

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

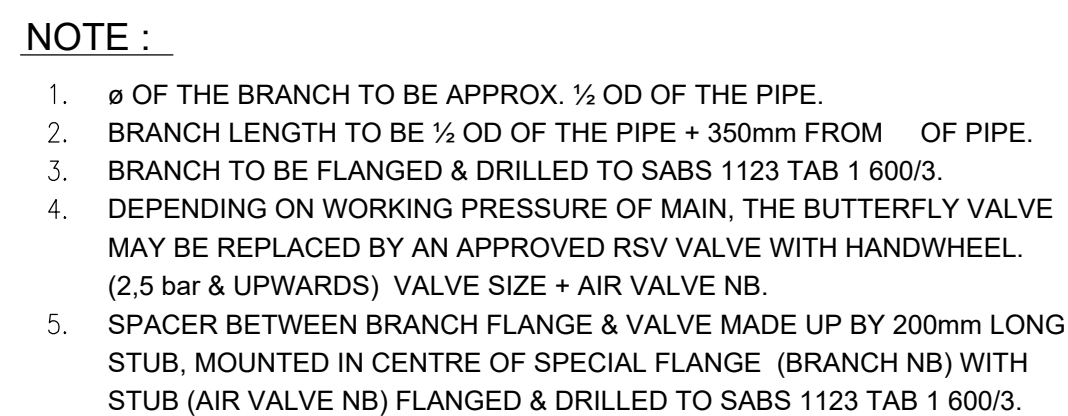
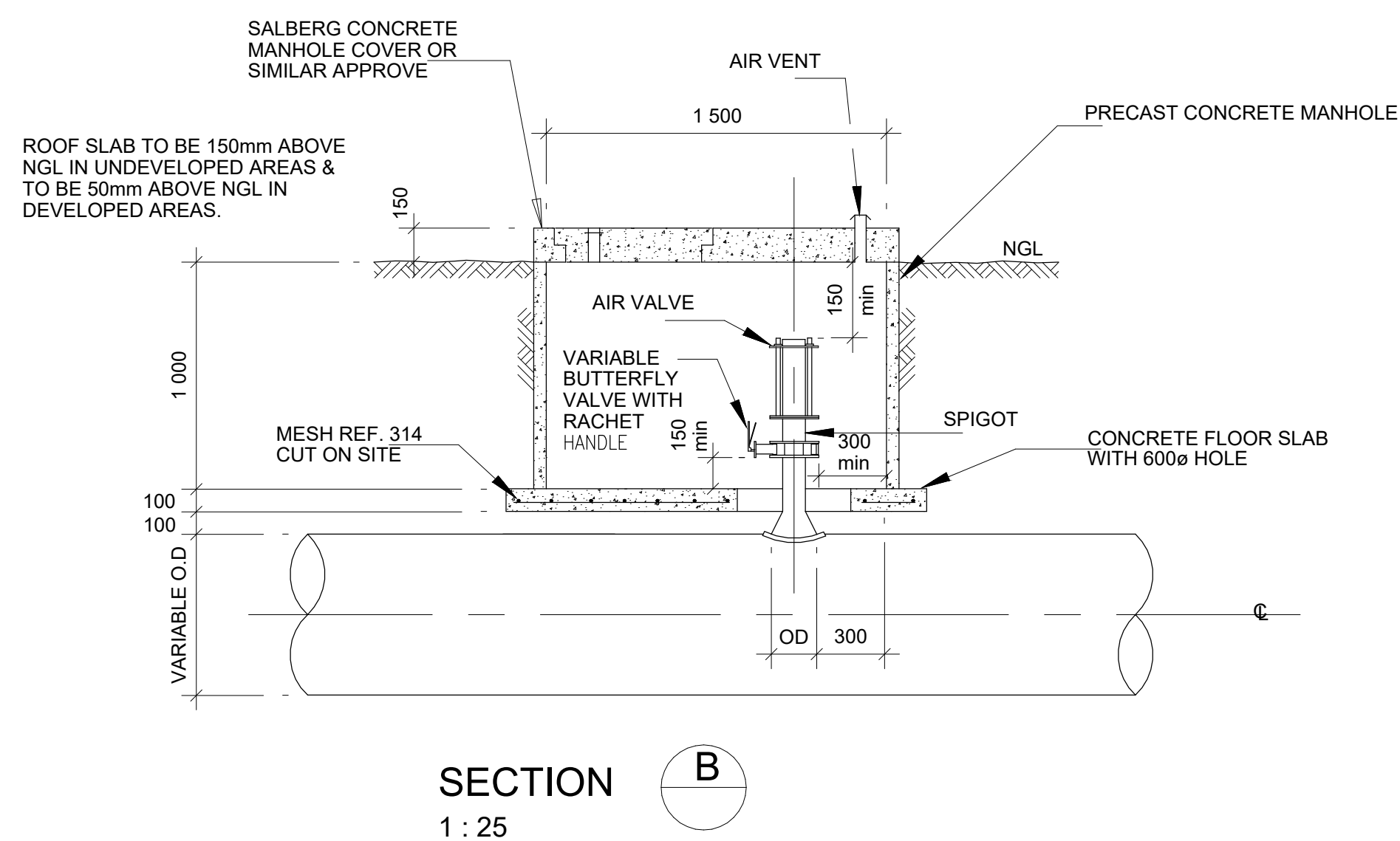
CLIENT SIGNATURE

ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D3	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
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A	26/08/24	• Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT

**PRINCIPAL AGENT**

AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	

COVERAGE SCHEDULE

SITE AREA	000.00m ²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

PRECAST AIR VALVE CHAMBER

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

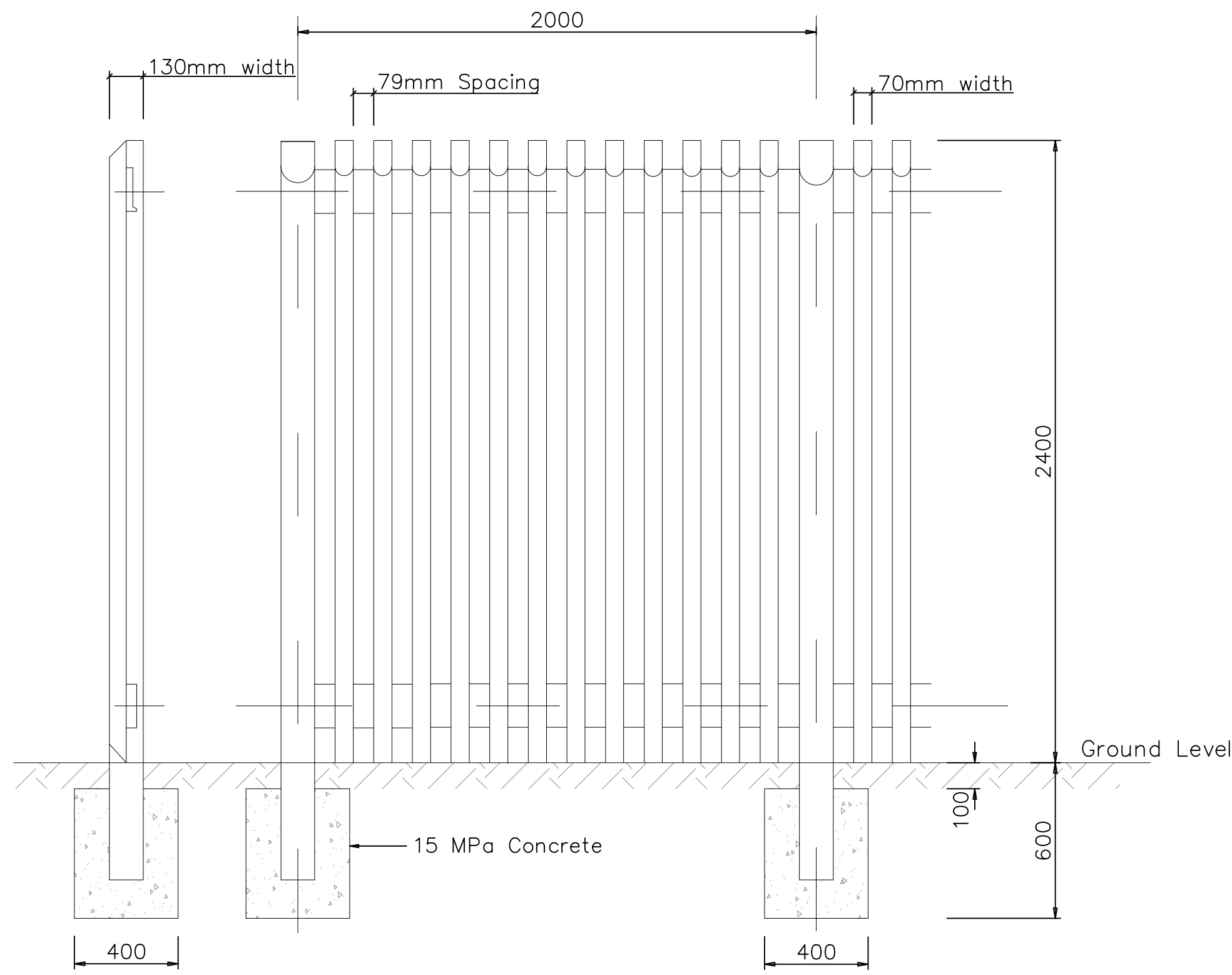
GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE	ENGINEERS SIGNATURE
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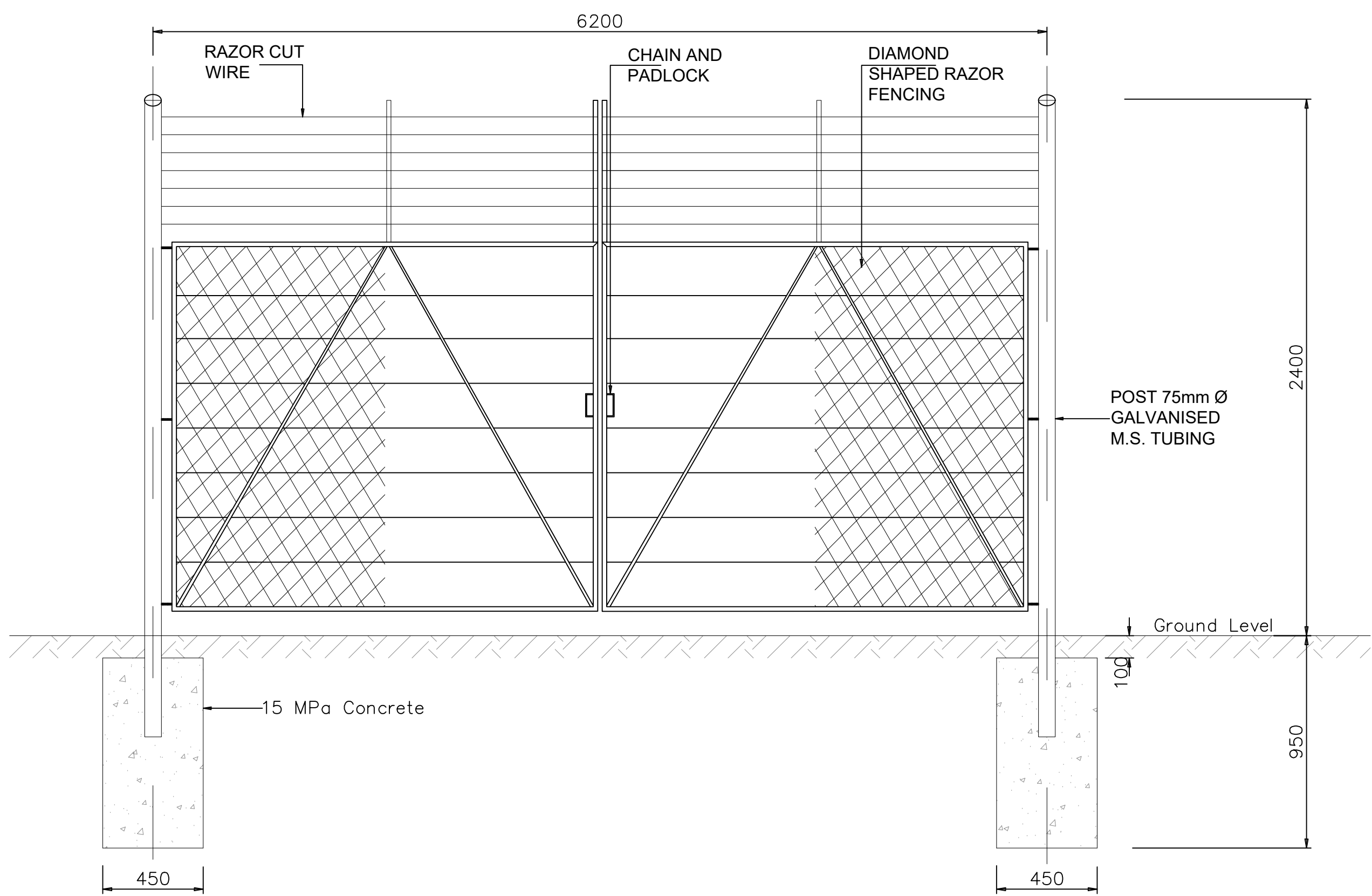
SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D1	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



PRECAST CONCRETE FENCE
SCALE 1:20



GATE DETAIL
SCALE 1:20

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
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A		• Issued for tender
REV	DATE	26/08/24
	DESCRIPTION	

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

TYPICAL FENCING DETAIL

DRAUGHTSMAN	PS TEISHO	DESIGNED
DATE	AUG 2024	SL KEKANA
SCALE	AS SHOWN	APPROVED

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE

ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01F1	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



- NOTES:
1. 2m LONG 'Y' STANDARD DRIVEN INTO RIVER BED BEHIND GABIONS AT 500mm C/C
 2. GABIONS TO BE PROVIDED AT RIVER CROSSINGS AS INDICATED ON DWG OR INSTRUCTED BY ENGINEER
 3. GABIONS TO BE AS PER DRAWING WITH 80x100mm MESH TYPE AND 3.0mm Ø GALVANISED WIRE, FILLED WITH STONE AS PER SPECIFICATIONS



GENERAL NOTES
• DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY • ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

G		
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A		• Issued for tender
REV	DATE	DESCRIPTION

REVISION
CLIENT

**PRINCIPAL AGENT**

AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m ²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

TYPICAL RIVER CROSSING DETAIL

DRAUGHTSMAN	PS TEISHO		DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE	ENGINEERS SIGNATURE
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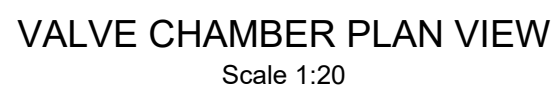
SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01RVR1	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



- ① 150mm GRP STUBB FLANGE ADAPTOR
- ② DN150 FLANGED GMS PIPE PIECE (700mm LONG)
- ③ DN150 CLASSIC FLANGED RESILIENT SEAL VALVE, WATERWORKS PATTERN, CLOCKWISE CLOSING, WITH NON-RISE SPINDLE AND HANDWHEEL, IN ACCORDANCE WITH SABS 864 (AVK SERIES 43/60 DUCTILE IRON OR APPROVED EQUIVALENT)
- ④ DN150 CLASS 16 FLANGED STRAINER
- ⑤ DN150 FLANGED GMS PIPE PIECE (500mm LONG)
- ⑥ BULK WATER METER
- ⑦ DN150 CLASS 16 FLANGED BALL CHECK VALVE (AVK SERIES 53 DUCTILE IRON OR APPROVED EQUIVALENT)



- ① 150mm HDPE STUBB FLANGE ADAPTOR
- ② DN150 FLANGED GMS PIPE PIECE (700mm LONG)
- ③ DN150 CLASSIC FLANGED RESILIENT SEAL VALVE, WATERWORKS PATTERN, CLOCKWISE CLOSING, WITH NON-RIISING SPINDLE AND HANDWHEEL, IN ACCORDANCE WITH SABS 664 (AVK SERIES 43/60 DUCTILE IRON OR APPROVED EQUIVALENT)
- ④ DN150 FLANGED GMS PIPE PIECE (500mm LONG)
- ⑤ DN150 CLASS 16 FLANGED BALL CHECK VALVE (AVK SERIES 53 DUCTILE IRON OR APPROVED EQUIVALENT)



GENERAL NOTES	
•	DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
•	ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

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A	26/08/24	● Issued for tender
REV	DATE	DESCRIPTION

REVISION
CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m ²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

TYPICAL WATER DETAILS 1 OF 2

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

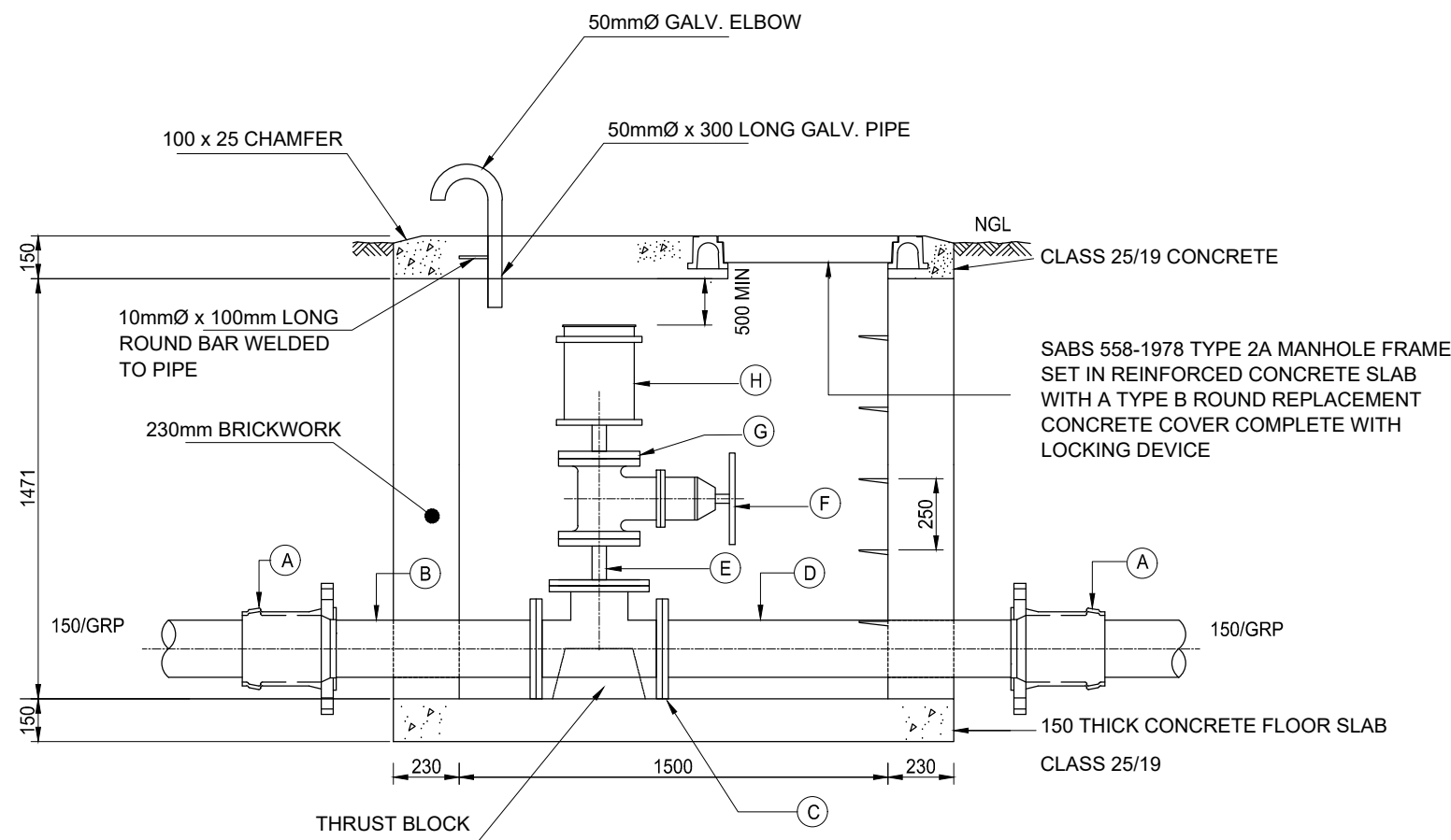
GREATER SEKHUKHUNE
DISTRICT FOR ENZAAM WETER
SUPPLY

CLIENT SIGNATURE	ENGINEERS SIGNATURE
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SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D6	0

PROJECT NUMBER

SK8/3/1-11/2024/2025



1500 x 1000mm AIR VALVE CHAMBER DETAIL
TYPICAL SECTION
Scale 1:25

NOTES FOR PIPE FITTINGS:

1. ALL BOLTS, NUTS AND WASHERS TO BE GALVANISED
2. ALL FRAMES ACCORDING TO SABS 1123-1977 (100/3)
3. CONCRETE CLASS 25/19 WITH MIN. COVER 30mm
4. STEP IRONS; POLYPROPULENE COATED 12mm HIGH TENSILE STEEL SUCH AS CALCAMITE OR SIMILAR
5. MANHOLE COVER AND FRAME TO BE MEDIUM DUTY VANDAL PROOF CONCRETE INFILL WITH LOCKABLE COVER

SCHEDULE OF FITTINGS	
A.	150mm FLANGE ADAPTER TO SUIT PIPE MATERIAL AND DIAMETER
B.	DN 150 FLANGED GMS PIPE PIECE (700mm LONG)
C.	IN-LINE FLANGED REDUCING TEE: (SEE FITTINGS TABLE ON THIS DRAWING.)
D.	DN 150 FLANGED GMS PIPE PIECE (1200mm LONG)
E.	50ND FLANGED REDUCING SPECIAL, ONE END FLANGED TO SUIT REDUCING TEE, OTHER END FLANGED TO SUIT VALVE (SEE FITTINGS TABLE ON THIS DRAWING.)
F.	50 ND FLANGED WATERWORKS PATTERN RESILIENT SEAL GATE VALVE TO SABS 664 WITH HAND WHEEL, NON-RISING SPINDLE, AND CLOCKWISE CLOSING: CLASS 16
G.	50ND GMS SCREWED BOSS FLANGE, DRILLED TO SABS 1600/4
H.	50 ND 'VENT-O-MAT' OR EQUIVALENT APPROVED DOUBLE ACTING AIR VALVE: MODEL 050 RBX 2511

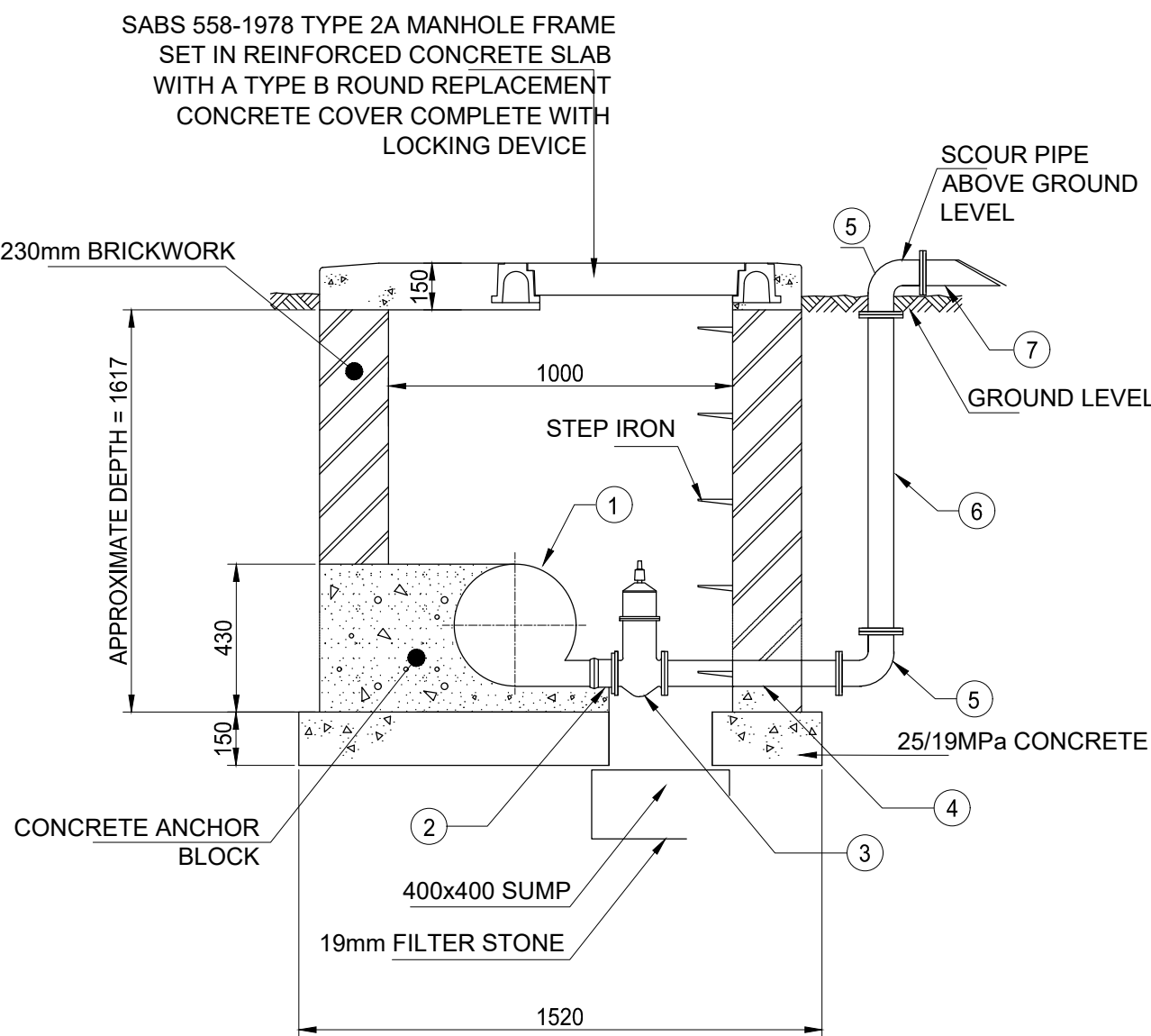
NOTE:
ALL FLANGES TO BE DRILLING TO TABLE SABS 1123-1977 (1600/3) UNLESS OTHERWISE SPECIFIED

FITTINGS TABLE		
PIPE DIA. ND	TEE	REDUCER
50	TEE	65x50
65	TEE	80x50
80	TEE	65x50
100	100x65 TEE FLANGED	100x50
150	150x100 TEE FLANGED	150x50
200	200x150 TEE FLANGED	150x50
250	250x150 TEE FLANGED	200x50
300	300x200 TEE FLANGED	200x50
350	350x250 TEE FLANGED	250x50
400	400x250 TEE FLANGED	250x50
450	450x300 TEE FLANGED	300x50

NOTE:
FOR uPVC PIPES TEE TO BE FLANGED WITH 2 x FLANGE ADAPTERS

NOTE

1. SCOUR OUTLET PIPE MUST BE AT THE NATURAL LOW SIDE OF THE VALVE CHAMBER
2. SCOUR VALVE CHAMBER 1000x1000mm
3. STEEL PIPES MARKED 3 / 4 / 5 / 6 MUST BE HOT DIPPED GALVANISED AS PER DIMENSIONS GIVEN BELOW.
 - ①. CAST IRON SCOUR VALVE T-JUNCTION WITH 100mm Ø OUTLET
 - ②. 100mm Ø FLANGED ADAPTOR
 - ③. 100mm Ø FLANGED GATE VALVE
 - ④. 100mm Ø FLANGED GALVANISED STEEL PIPE 500mm LONG
 - ⑤. 100mm Ø flanged 90° BEND
 - ⑥. 100mm Ø FLANGED GALVANISED STEEL PIPE LENGTH AS REQUIRED
 - ⑦. 100mm Ø GALVANISED OUTLET ONE END FLANGED OTHER END BEVELLED 30° WITH HINGED LID
4. DEPTH OF SCOUR VALVE CHAMBER TO FIT PIPE DEPTH
5. COVER TO REINFORCING 30mm
6. GROUND TO BE SHAPED SO THAT WATER DRAINS AWAY FROM THE SCOUR VALVE BOX



1000 x 1000 mm SCOUR VALVE DETAIL
Scale 1:20

GENERAL NOTES

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A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

TYPICAL WATER DETAILS 2 OF 2

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

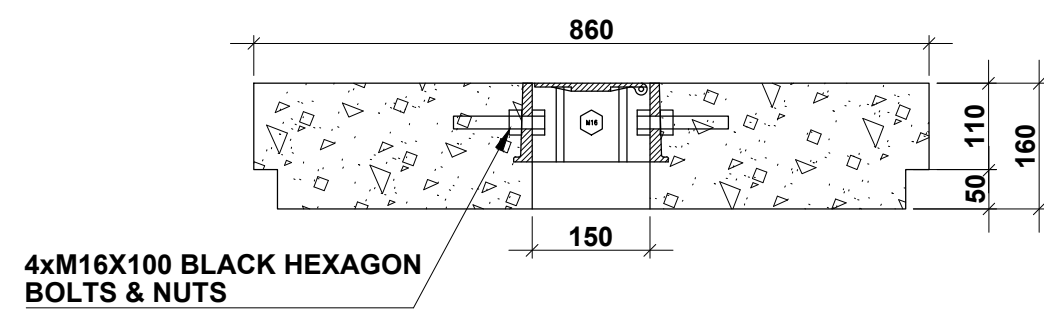
GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE	ENGINEERS SIGNATURE
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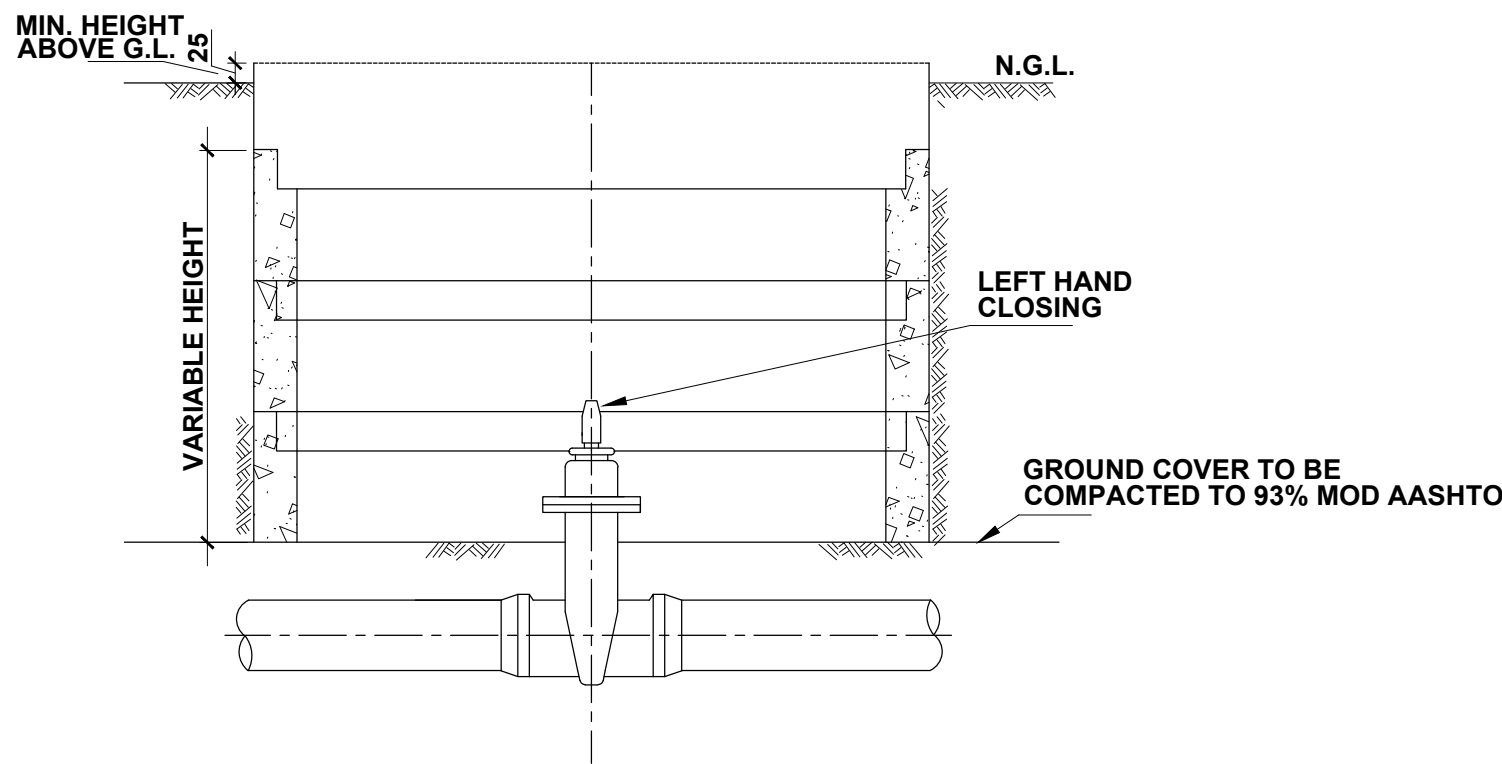
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A1	WS-EZM-01D7	0

PROJECT NUMBER

SK8/3/1-11/2024/2025

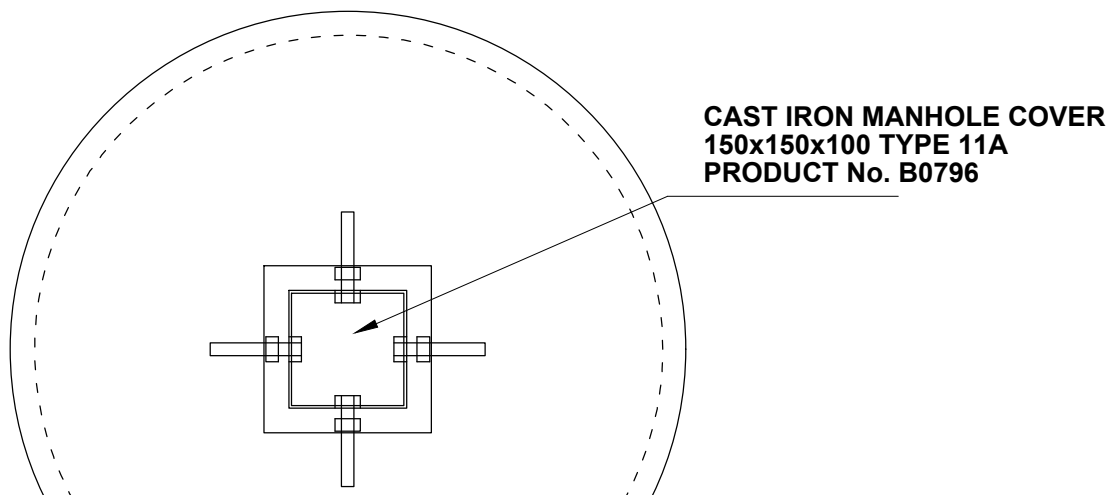


SECTION: VALVE BOX LID



SECTION DETAIL OF VALVE BOX FOR PIPES

VALVE CHAMBER				
INNER ø	EFFECTIVE LENGTH	WALL THICKNESS	OUTER ø	APPROXIMATE WEIGHT MASS
mm	mm	mm	mm	Kg
750	250,500,1000	55	860	340



PLAN

VALVE CHAMBER LID			
INNER ø	WALL THICKNESS	OUTER ø	APPROXIMATE WEIGHT MASS
mm	mm	mm	Kg
750	160	860	307

STANDARD SPECIFICATIONS: PRECAST
CONCRETE VALVE BOX

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

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26/08/24

Issued for tender

REV

DATE

DESCRIPTION

REVISION

CLIENT

PRINCIPAL AGENT

TLOU
INTEGRATED TECH cc

AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	

COVERAGE SCHEDULE

SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

PRECAST CONCRETE VALVE BOX

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR ENZAAM WETER SUPPLY (WORK PACAGE 1)

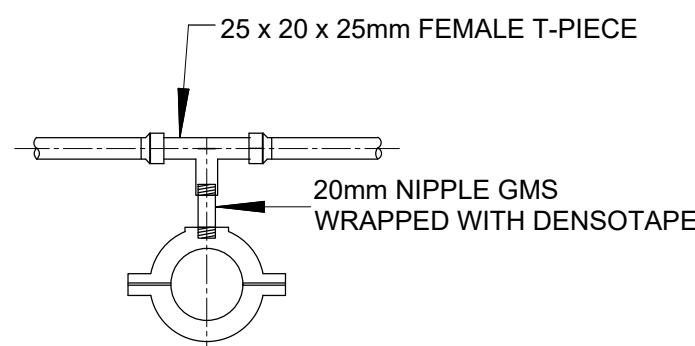
CLIENT SIGNATURE

ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
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PROJECT NUMBER

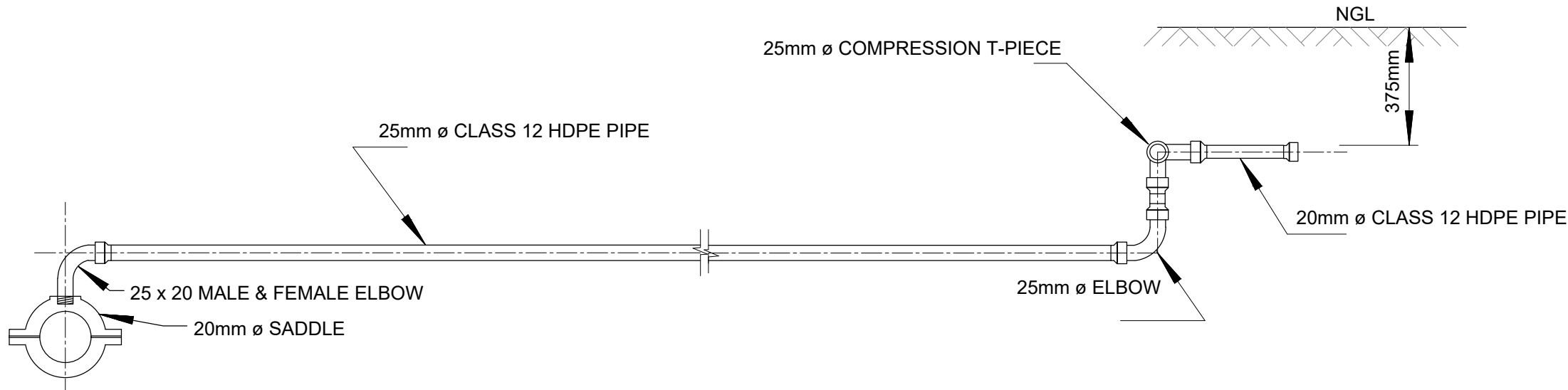
SK8/3/1-11/2024/2025



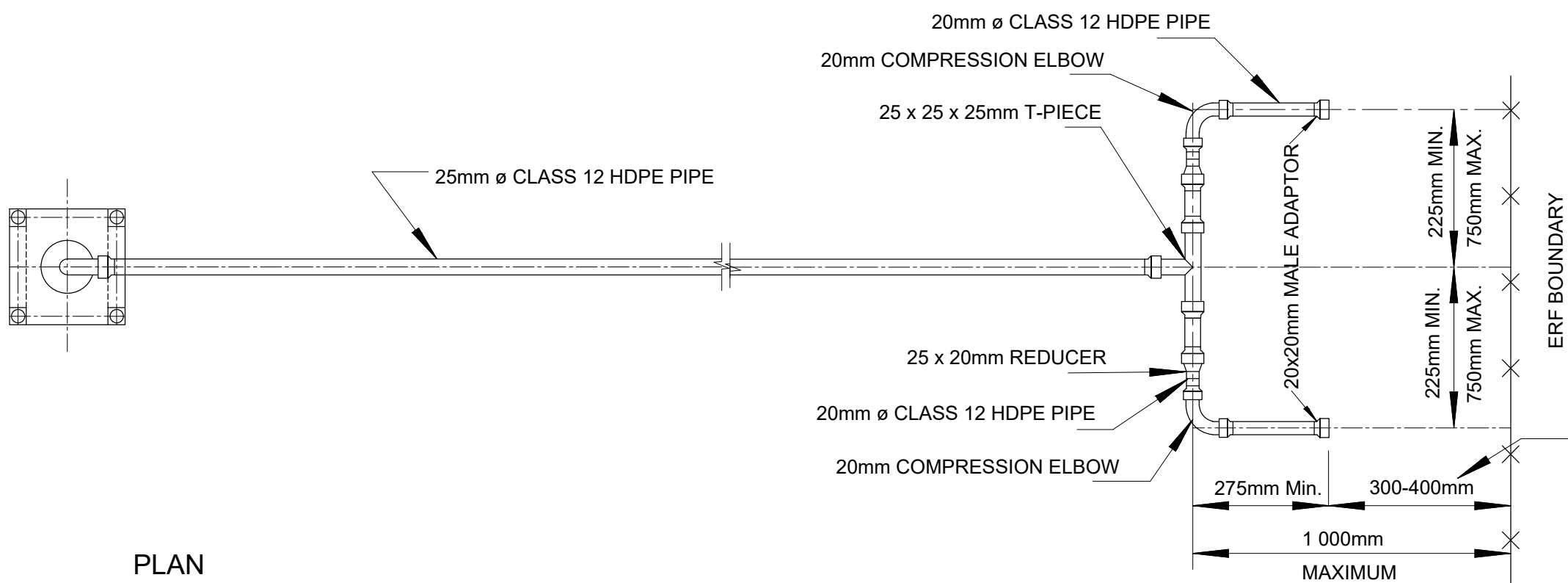
DETAIL

NOTE:

DIMENSION MAY BE ENLARGED ON SITE
DEPENDING ON WHETHER AN ELECTRIC
METER BOX IS TO BE INSTALLED BETWEEN
CONNECTIONS.

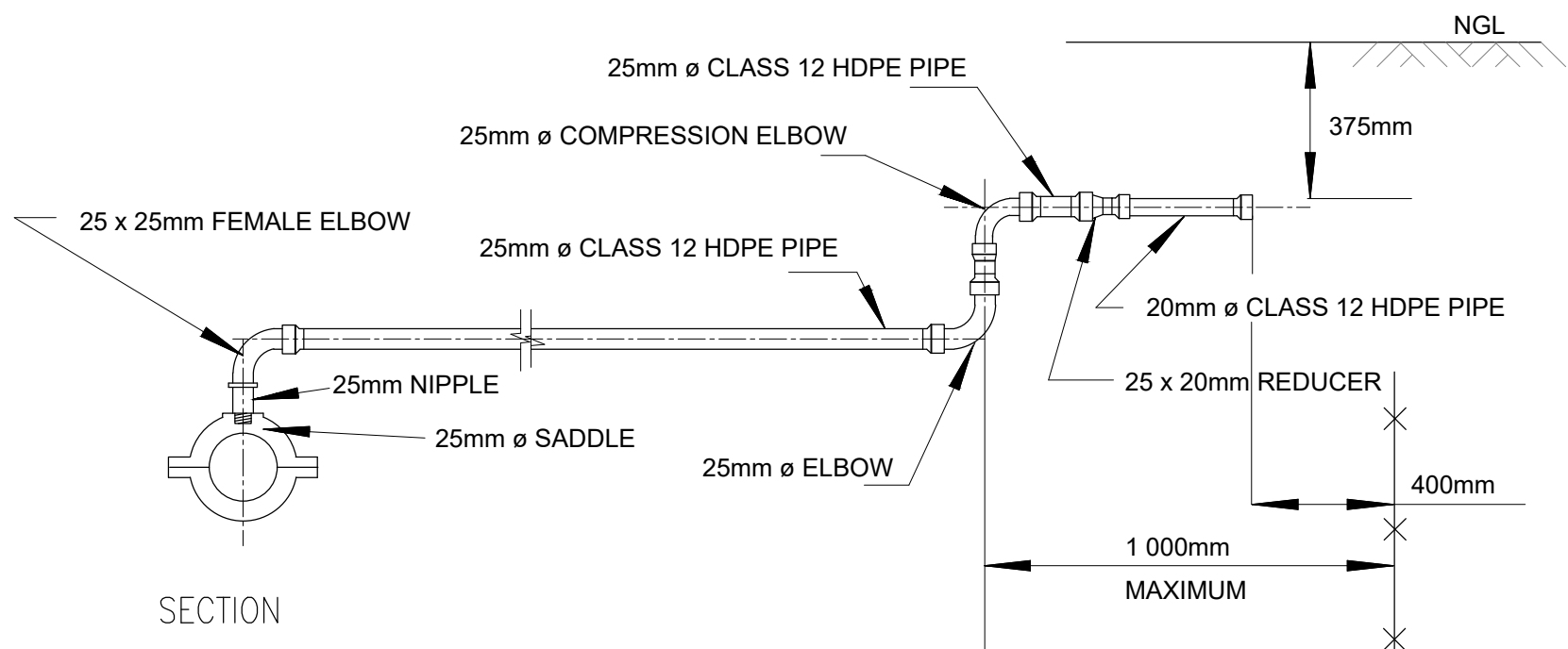


SECTION

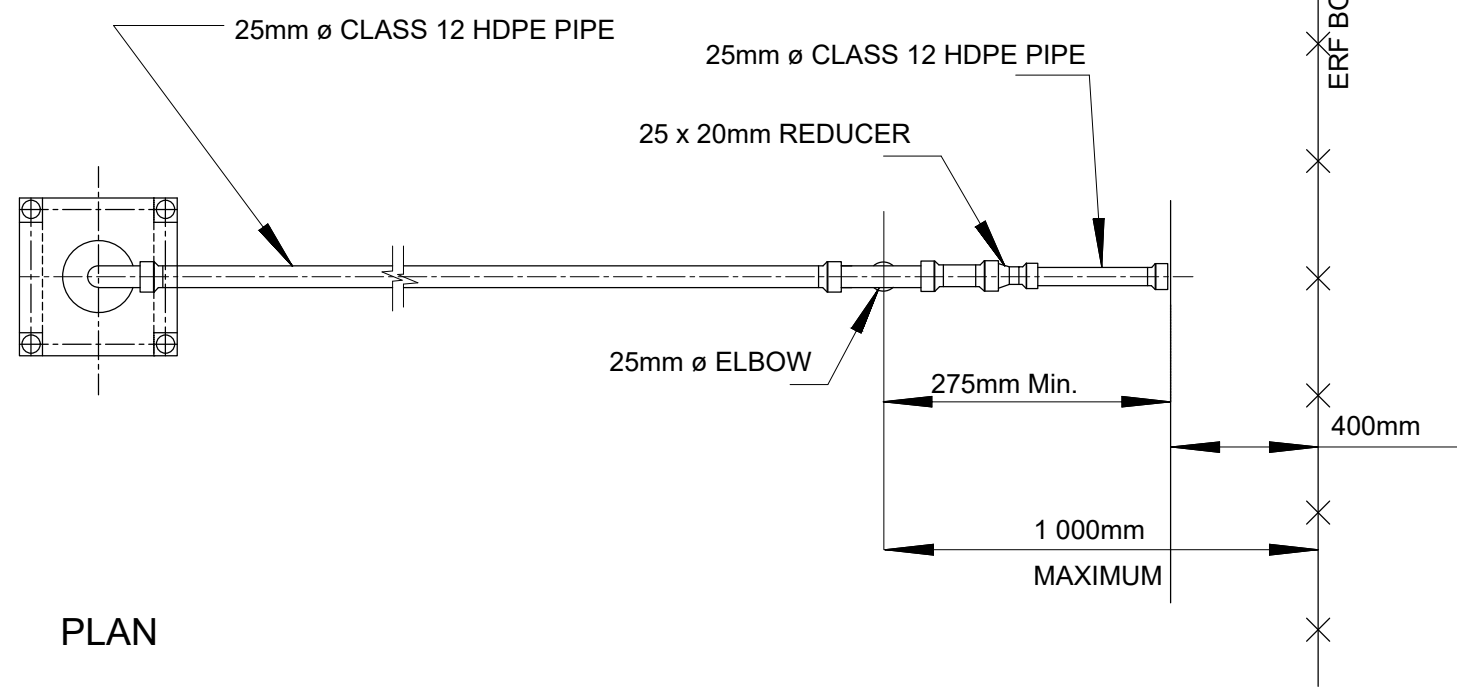


PLAN

DOUBLE ERF CONNECTION



SECTION



PLAN

SINGLE ERF CONNECTION

GENERAL NOTES

- DRAWING SHOULD NOT BE SCALED, WORK TO FIGURED DIMENSIONS ONLY
- ALL DIMENSIONS AND LEVELS ARE TO BE VIEWED ON SITE BY THE CONTRACTOR BEFORE COMMENCING IF WORK

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A	26/08/24	Issued for tender
REV	DATE	DESCRIPTION

REVISION

CLIENT



PRINCIPAL AGENT



AREA SCHEDULE

GROUND FLOOR AREA	
TOTAL BUILDING AREA	
COVERAGE SCHEDULE	
SITE AREA	000.00m²
COVERAGE PERCENTAGE (%)	0.000%
FLOOR AREA RATIO (FAR)	0.0000

PROJECT DESCRIPTION

EENZAAM WATER SUPPLY

DRAWING TITLE

YARD CONNECTION

DRAUGHTSMAN	PS TEISHO	S ZULU	DESIGNED
DATE	AUG 2024	SL KEKANA	APPROVED
SCALE	AS SHOWN		

GREATER SEKHUKHUNE DISTRICT FOR
ENZAAM WETER SUPPLY
(WORK PACAGE 1)

CLIENT SIGNATURE

ENGINEERS SIGNATURE

SIZE	DRAWINGS NUMBER	REV
A1	WS-EZM-01D5	0

PROJECT NUMBER

SK8/3/1-11/2024/2025