



INDEPENDENT DEVELOPMENT TRUST

BID DOCUMENT

FOR

COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION: CLUSTER: 3E – MNGENI SPS

BID No.: DoEEC/13/2021

PROJECT No.: DBE01ECAR019

CLIENT:

INDEPENDENT DEVELOPMENT TRUST
Palm Square Business Centre
Silverwood House
Bonza Bay Road
Beacon Bay
EAST LONDON
Tel: 043 711 6000

PRINCIPAL AGENT:

BOSCH PROJECTS PTY LTD
57 Western Avenue
Vincent
EAST LONDON
Tel: 043 721 1717

FEBRUARY 2022

NAME OF BIDDER :

CRS No. : _____

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

TABLE OF CONTENTS

THE TENDER:

PART T1: Tendering Procedures

- T1.1 Tender Notice and Invitation to Tender
- T1.2 Tender Data
- T1.3 Tender Conditions

Part T2: Returnable Documents

- T2.1 List of Returnable Documents (T2.1A to T2.1E)
- T2.2. List of Returnable Schedules (T2.2A to T2.2G)

THE CONTRACT:

Part C1: Agreement and Contract Data

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data
- C1.3 Form of Guarantee

Part C2: Pricing Data

- C2.1 Pricing Instructions
- C2.2 Bills of Quantities

Part C3: Scope of Work

- C3.1 General
- C3.2 Matters Relating to the Standard Specifications
- C3.3 Environmental Management Procedures
- C3.4 Contractor's Health and Safety Specifications

Part C4: Site Information

- C4.1 General
- C4.2 Locality Plan
- C4.3 Description of the Site
- C4.4 Existing Service

ANNEXURES:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

RESPONDENTS INFORMATION SHEET

*This form **MUST** be filled in by all respondents to this Tender*

Name of Organisation / Joint Venture / Consortium	
Physical Address	
Postal Address	
Contact Name	
Telephone Number	
Fax Number	
Cell Number	
Email Address	

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

TENDER DOCUMENT CHECKLIST

Tenderers must complete this document checklist to ensure that all information is completed in the Tender Document.

ITEMS	CHECKED
1) Correct Tender Offer of Amount carried forward to Form of Offer and Acceptance in Section C1	
2) All pages requiring signatures signed by Tenderer	
3) Bills of Quantities	
i) Section Summaries and Final Summary Completed in BLACK INK	
ii) Corrections crossed out and initialled	
4) All returnable Documents and Schedules submitted	
T2.1.A: Central Supplier Database Registration Report.	
T2.1.B: CIDB registration print out	
T2.1.C: Certificate of Good Standing with Workman Compensation Commissioner (COIDA/FEM)	
T2.1. D: Proof of Company Registration	
T2.1. E: Certified Copies of ID's Owners/Directors	
T2.2.A: Record of Addenda to Tender Documents	
T2.2.B: Compulsory Questionnaire	
T2.2.C: Resolution for signatory	
T2.2.D: Schedule of Proposed Sub-Contractors.	
T2.2.E: Compulsory briefing meeting Certificate.	
T2.2.F: Additional Particulars Concerning Tenders.	
T2.2.G: Preference schedule: Broad Based Black Economic Empowerment Status	
SBD1: Invitation to Bid	
SBD4: Declaration of Interest	
SBD6.1: Preference Points Calim Form	
SBD6.2: Declaration Certificate for Local Production and Content	
SBD8: Declaration of Bidders Past Supply Chain Management Practices	
SBD9: Certificate of Independent Bid Determination	

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021



PART T1 : TENDERING PROCEDURES
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ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021



INDEPENDENT DEVELOPMENT TRUST

BID NOTICE No: DoEEC/13/2021: 25 February 2022

Note: BID closes on Tuesday, 25 March 2022 @ 11:00

The Independent Development Trust (IDT) on behalf of the **Department of Basic Education (DBE)** hereby invites prospective service providers to submit bids for the completion of water supply construction works on the projects in the Eastern Cape Province as listed on the table below:

CIDB tender value range grading as reflected in the Register of Contractors will be used as indicated below:

Name of Cluster	Name of Projects	Town	IDT Project Number	EMiS Number	CIDB Grading	Compulsory Site Inspection Meeting	Principal Agent
3E	Mngeni SPS 29,455719 - 31,101433	Lusikisiki	DBE01ECAR019	200400330	3CE/GB or higher	Not Applicable	Andre Naude Bosch Projects 043 721 1717

No Compulsory Site Inspection Meeting will take place because of Covid-19 Regulations. Bidders are advised to go and view the site on their own time to assess site conditions. A Zoom meeting will be held on Friday 04 March 2022 at 10:00 am for any queries relating to this tender. The link for the Zoom meeting is as follows: Meeting ID: 961 8514 5469 Passcode: 550734

Join Zoom Meeting

<https://idt-org-za.zoom.us/j/96185145469?pwd=RzExTkFFRmtLS0l0aFNXNDZF2Smp0QT09>

Bid Documents which must be completed and submitted are available for download on IDT website: www.idt.org.za/business-opportunities/current-tenders or National Treasury eTender on: www.treasury.gov.za from **Friday 25 February 2022**. Due to COVID 19, no bid documents will be sold. All documents must be downloaded and printed by the bidders from the abovementioned sites.

Bidders shall meet the following compulsory requirements before being evaluated further on functionality, price and B-BBEE:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Mandatory Requirements/Documents:

1. Valid copy of a Letter of Good Standing (Workman's Compensation, COIDA) or FEM Letter of Good Standing; If a Joint Venture then all partners must submit the Compensation for Occupational Injuries and Diseases Act (COIDA) Registration Certificate.
2. Fully Completed and Signed Standard Bidding Documents
 - Invitation to Bid (SBD 1)
 - Declaration of Interest (SBD 4)
 - Preference Points Claim Forms (SBD 6.1)
 - Local Production and Content (SBD 6.2) **(including all the annexures C, D & E. Bidders must return Annexure C. All blanks spaces must be completed. Bidders to indicate items that are not applicable.)**
 - Declaration of Bidder's Past Supply Chain Management Practices (SBD 8)
 - Certificate of Independent Bid Determination (SBD 9)
3. Proof of National Treasury (NT) Central Supplier Database (CSD) report (Joint Ventures must submit CSD Registration for JV or for both JV partners)
4. Signed and duly completed Original Certificate/Affidavit of Authority for Signatory
5. Signed Notarized Joint Venture or consortium Agreement Between Parties showing project sharing percentage (where applicable)
6. Proof of valid and active CIDB grading designation certificate (Joint Ventures must submit valid and active consolidated CIDB grading registration certificate)
7. A detailed CIPC document with all the original certified (not older than 3 months) ID's of all directors listed in CIPC.
8. Record of Addenda to the tender document
9. Fully completed Signed Form of Offer and Acceptance
10. Fully priced and completed Bills of Quantities, Electrical and Mechanical Installations (in INK), inclusive of Preliminaries completed in a split format (e.g. Time related, Value related & Fixed) (original IDT document)

NB: Failure to comply with any of the above-mentioned requirements will result in automatic disqualification of the bid response.

Non-Mandatory Returnable Documents:

1. B-BBEE Certificate (Original/Original Certified Copy)
2. Tax Compliance Letter with a unique pin

Local Production and Content (SBD 6.2)

1. Bidders are hereby notified that the minimum threshold for local production and content for steel construction materials is tabulated below. Bidders are to identify components relevant for the scope of work bidding for.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Steel Construction Materials	Components	Local Content Threshold
Fabricated Structural Steel	Latticed steelwork, reinforcement steel, columns beams, plate girders, rafters, bracing, cladding supports, stair stringers & treads, ladders, steel flooring, floor grating, handrailing & balustrading, scaffolding, ducting, gutters, launders, downpipes and trusses	100%
Joining / Connecting Components	Gussets, cleats, stiffeners, splices, cranks, kinks, doglegs, spacers, tabs and brackets	100%
Frames	Doors and Windows	100%
Roof and Cladding	Bare steel cladding, galvanised steel cladding, colour coated cladding	100%
Fasteners	Bolts, nuts, rivets and nails	100%
Wire Products	All fencing products: all barbed wire and mesh fencing, fabric/mesh reinforcing, gabions, wire rope/strand and chains, welding electrodes, nails/tacks, spring and screws	100%
Ducting & Structural Pipework	Non-conveyance tubing fabricated from steel sheeting and plate with structural supports	100%
Gutters, downpipes & launders	Fabricated materials made from sheeting associated with roof drainage systems	100%

2. Bidders are further notified that bids in respect of steel and components for construction must contain a specific bidding condition which states that:
 - 2.1 Only locally produced or locally manufactured steel products and components for construction with a stipulated minimum threshold for local production and content will be considered.
 - 2.2 If the quantity of steel products and components for construction required cannot be wholly sourced from South African (SA) based manufacturers and/or at the designated local content threshold stipulated in the above table at any time, bidders and the procuring entities should obtain a written exemption from **the DTI**. **The DTI**, in consultation with the procuring organ of state and the local industry, will consider the exemption applications on a case-by-case basis.
 - 2.3 Bidders must clearly indicate in their bids the quantities to be supplied and the level of local content for each product.
3. The exchange rate to be used for the calculation of local production and content must be the exchange rate published by the South African Reserve Bank (SARB) at 12:00 on the date of advertisement of bid; and only the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 must be used to calculate local content.
4. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the formula disclosed in SBD 6.2 inserted in the bid document

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Preferences are offered to Tenderers who have a proven track record in the building industry with special emphasis on similar facilities. Only Tenderers who are competent in the advertised work, will be evaluated on an 80/20 criteria based on the Treasury Regulations of 2017, where functionality will be evaluated as follows:

Criteria Points Allocation

Evaluation Criteria

STAGE 1 – Functionality –

Bidders are to obtain a minimum of **60** points of the total functionality points to be considered for the next stage

FUNCTIONALITY

Functionality area	Points
Capacity to Deliver	20
Previous Experience	40
Capability: Resources	30
Programme Schedule	5
Project Specific OHS	5
Total	100 Points

DESCRIPTION OF FUNCTIONALITY FOR ALLOCATION OF POINTS:

- 1. Capacity to Deliver (20 points)**
 - A. Current Commitments (10 points)
 - B. Plant (10 points)
- 2. Previous Experience: Project Specific Track Record (40 points)**
 - A. Track Record (15 points)
 - B. References (25 points)
- 3. Capability Resources: Qualification and Competencies (30 points)**
 - A. Capability Resources (5 points)
 - B. Qualification and Key Staff (15 points)
 - C. Years of Experience (10 points)
- 4. Programme Schedule (5 points)**
- 5. Project Specific OHS (5 points)**

STAGE 2 – Price and B-BBEE –

In order to claim and be awarded B-BBEE points, Bidders must submit fully completed Preference Points Claim Forms (SBD 6.1) with an original or an original certified copy of B-BBEE certificate (not older than 3 months), issued by SANAS or Accredited Verification Agency or an original Sworn Affidavit signed by a Commissioner of Oaths and Joint Ventures (JV) must submit an original certified copy of a consolidated B-BBEE Status Level Contributor Certificate obtained from SANAS Accredited Verification Agency, no consolidated Sworn Affidavit will be considered. (Note - An incomplete affidavit will not be acceptable, Sworn Affidavits for EME's and QSE's must be originals. No copies of affidavits will be accepted for claiming B-BBEE points)

(Failure to submit will render Bidder scoring Nil points in this regard)

B-BBEE points are allocated as follows:

Tender : Cluster 3E - Mngeni SPS

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Price	80 points
B-BBEE Status Level Contributor	20 points
TOTAL	100 points

Allocation of points for B-BBEE Status Level Contributor:

B-BBEE Status Level Contributor	Points
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-contributor	0

Bidders that do not get a positive response from the IDT within a period of **90** days from the closing date, should understand that their Bids have not been successful.

For enquiries, please contact:

PROVINCE	CLUSTER	CONTACT PERSON FOR ENQUIRIES	CONTACT NUMBERS	EMAIL ADDRESSES
Eastern Cape	3E	Andre Naude (Technical)	043 721 1717 Bosch Projects	naudea@boschprojects.co.za
		Mamikie Mashele (SCM)	015 295 0000 IDT	MamikieM@idt.org.za

DEPOSIT/RETURN OF BID DOCUMENTS:

- Telegraphic, telephonic, telex, facsimile, electronic and/or late bids will not be accepted
- Requirements for sealing, addressing, delivery, opening and assessment of bids are stated in the Bid Data document
- All bids must be submitted on the official forms - (not to be re-typed)
- Bids will not be opened in public

BID DOCUMENTS MAY BE POSTED TO: N/A	OR	DEPOSITED IN THE BID BOX AT: INDEPENDENT DEVELOPMENT TRUST, PALM SQUARE BUSINESS PARK, SILVERWOOD HOUSE, BONZA BAY ROAD, BEACON BAY, EAST LONDON
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**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

SDB 1

1. PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	DoEEC/13/2021	CLOSING DATE:	25 March 2022	CLOSING TIME:	11H00
DESCRIPTION	ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION: CONTRACT 3E MNGENI SPS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
Independent Development Trust					
Palm Square Business Park					
Silverwood House, Bonza Bay Road					
Beacon Bay 5241					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	Mamikie Mashele		CONTACT PERSON	MS T Memani	
TELEPHONE NUMBER	(015) 295 0000		TELEPHONE NUMBER	043 721 1717	
FACSIMILE NUMBER			FACSIMILE NUMBER	043 721 1719	
E-MAIL ADDRESS	MamikieM@idt.org.za		E-MAIL ADDRESS	memanit@boschprojects.co.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NO.					
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]					

TENDER NO: DoEEC/13/2021

Tender : Cluster 3E - Mngeni SPS

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

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, GENERAL CONDITIONS OF CONTRACT 2015 (GCC 2015) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A GCC CONTRACT.**

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:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T1.2: Tender Data

T1.2 TENDER DATA

The Conditions of Tender in Section T1.2 are the **Standard Conditions of Tender** as contained in Annex C of CIDB Standard for Uniformity in Construction Procurement (August 2019). This standard is issued in terms of sections 4(f), 5(3)(c) and 5(4)(b) of the Construction Industry Development Board Act 38 of 2000 read with Regulation 24 of the Construction Industry Development Regulations, 2004 (as amended) issued in terms of section 33.

The Tender Data shall be read with the Standard Conditions of Tender in order to expand on the Tenderer's obligations and the Employer's undertakings in administering the Tender process in respect of the project under consideration.

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 the tender data and the Standard Conditions of Tender.

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

TENDER DATA APPLICABLE TO THIS TENDER

C1.1.1 The Employer for this Contract is : **Independent Development Trust (IDT)**

C.1.2 Tender Documents

The Tender Documents issued by the Employer consist of the following:

TENDER

Part T1: Tendering Procedures
T1.1 : Tender Notice and Invitation to Tender
T1.2 : Tender Data
T1.3 : Standard Conditions of Tender Annex C

Part T2: Returnable Documents
T2.1 : List of Returnable Documents
T2.2 : Returnable schedules and forms

CONTRACT

Part C1 Agreements and Contract Data
C1.1 : Form of Offer and Acceptance
C1.2 : Contract Data
C1.3 : Performance of Guarantee

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C1.4	Agreement in Terms of Section 37(2) of the Occupational Health and Safety Act (Act No. 85 Of 1993)
C1.5 :	Adjudication Board Member Agreement
C1.6 :	IDT Beneficiary Reconciliation Form (BRF)
Part C2	Pricing Data
C2.1 :	Pricing Instructions
C2.2 :	Bills of Quantities
Part C3	Scope of Work
C3.1 :	Description of the Works
C3.2 :	Construction Specifications
Part C4	Site Information
C4.1 :	Site locality plan
Annexures	
A1 :	Construction Health & Safety Specification
A2 :	Environmental Management Plan
A3 :	Drawings

"The General Conditions of Contract for Construction Works" – 2015 (3rd Edition) as published by the South African Institution of Civil Engineering. This publication is available and tenderers must obtain copies at their own cost from the South African Institution of Civil Engineering (SAICE), Private Bag X200, Halfway House 1685, Tel: (011) 805 5947, Fax: (011) 805 5971, e-mail: civilinfo@saice.org.za.

THE "STANDARD SPECIFICATION FOR CIVIL ENGINEERING CONSTRUCTION" SANS 1200. This document is obtained separately and tenders shall obtain their copies at their own cost from the SANS offices, Private Bag X 191, Pretoria, 0001. Tel no. (012) 428 6883, Fax (012) 428 6928, email: info@SANS.co.za

The Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the Construction Regulations 2003 (Government Gazette No 25207 of 18 July 2003, Notice No R1010). This document is obtainable separately, and Tenderers shall obtain their own copies.

Bid Documents which must be completed and submitted are available for download on IDT website: www.idt.org.za/business-opportunities/current-tenders or National Treasury eTender on: www.treasury.gov.za from Friday 25 February 2022 Due to COVID 19, no bid documents will be sold. All documents must be downloaded and printed by the bidders from the abovementioned sites.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.1.4 The Employer's agent is:

Company : Bosch Projects(Pty) Ltd
Name : André Naudé / Thabisa Memani
Address : 57 Western Avenue,
: Vincent
: East London
: 5247

Tel: 043 – 721 1717

Fax : 043 – 721 1719

E-mail address : naudea@boschprojects.co.za memanit@boschprojects.co.za

C.2.1 Eligibility

A Tenderer will not be eligible to submit a Tender if:

the Contractor submitting the Tender is under restrictions or has principals who are under restriction to participate in the Employer's procurement due to corrupt or fraudulent practices;

the Tenderer does not have the legal capacity to enter into the contract;

the Contractor submitting the Tender is insolvent, in receivership, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of the foregoing;

The Tenderer does not comply with the legal requirements stated in the Employer's procurement policy;

The Tenderer cannot demonstrate that he possesses the necessary professional and technical qualifications and competent, financial resources, equipment and other physical facilities, managerial capability, personnel, experience and reputation to perform the contract;

The Tenderer cannot provide proof that he is in good standing with respect to duties, taxes, levies and contributions required in terms of legislation applicable to the work in the contract.

Only those Tenderers who are registered with the Construction Industry Development Board or are capable of being so registered within 10 working days from the closing date for Tender : Cluster 3E - Mngeni SPS

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

submission of Tenders, in a contractor-grading equal to or higher than a contractor grading designation, as stated in the Tender Notice and Invitation to Tender, (e.g., 3CE/GB etc), and as defined in the Regulations (June 2004), in terms of the CIDB Act No 38 of 2000, are eligible to submit Tenders for this contract.

C.2.7 Clarification Meeting

No Compulsory Site Inspection Meeting will take place because of Covid-19 Regulations. Bidders are advised to go and view the site on their own time to assess site conditions. A Zoom meeting will be held 04 March 2022 at 10:00 for any queries relating to this tender.

C.2.12 Alternative Tenders

If a Tenderer wishes to submit an alternative Tender offer, the only criteria permitted for such an alternative Tender offer are:

Individual Items

Individual items offered as alternatives to items in the Bill of Quantities will be considered.

Alternative Designs

Where a Tenderer desires to submit alternative Tender involving modifications to the design or method of construction that would alter the character of the Tender, the following procedure must be observed:

The alternative offer must be accompanied by supporting information, drawings, calculations and a priced alternative Bill of Quantities to enable its technical acceptability, construction time and price to be fully assessed. Such information, drawings and Bill of Quantities must be sufficient for proper evaluation of the Tendered alternative, otherwise the offer will not be considered.

Any alternative Tender involving modifications to design will be assessed on its merits and may be accepted. An accepted alternative design will become the design for the purpose of the contract.

If an alternative design with its priced Bill of Quantities has been accepted, the sum thus Tendered for the alternative will not be subject to re-measurement and will be the final amount payable to the Contractor, except only for variations arising from:

Changes in design parameters ordered by the Engineer;

Changes not arising from any failure or fault of the Contractor, but from modifications requested by the Engineer.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

A decision whether or not to adopt a technically acceptable modified design will be governed by the amount of the overall saving and the advantages to the Employer which the modified design can be reliably expected to achieve. Matters to be considered in arriving at the overall saving will include the effect of any deferment in starting date arising from extra time needed for the preparation of an amended contract for signature.

The Tenderer will be liable for all costs necessary for the Engineer to check the alternative design offered.

C.2.13 Submitting a Tender Offer

C.2.13.3 Tender offers shall be submitted as an original only.

C. 2.13.5 Delivery of Tender

The Employer's address for delivery of Tender offers and identification details to be shown on each Tender offer package are:

Location of Tender box:

East London

INDEPENDENT DEVELOPMENT TRUST,
PALM SQUARE BUSINESS PARK, SILVERWOOD HOUSE,
BONZA BAY ROAD,
BEACON BAY,
EAST LONDON

Identification Details :

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI). COMPLETION OF
WATER SUPPLY PROJECTS IN OR TAMBO REGION: CLUSTER: 3E – MNGENI SPS (TENDER NO:
DoEEC/13/2021)**

C 2.13.6 A two-envelope procedure will not be followed.

C.2.15 Closing Time

The closing time for submission of Tender Offers is on Tuesday, 25 March 2022 @ 11:00. The employer reserves the right to withdraw any invitation to tender and or re-advertise or to reject any tender or to accept part of it. The Employer does not bind itself to accepting the lowest tender. Telephonic, telegraphic, telex, electronic or e-mailed Tenders will not be accepted.

C.2.16 Tender offer validity

The Tender Offer validity period is 90 days from the closing time for submission of Tenders.

C.2.19 Access

Access shall be provided for inspections and testing by personnel acting on behalf of the Employer.

C.2.22 Return of Tender Documents

Where a Tenderer who received a Tender document does not submit a Tender, the tender documents issued to him must be returned to the Employer within 14 days after the closing date for submission of Tenders.

C.2.23 Certificates

The following certificates must be provided with the Tender:

- Tax Compliance Letter with unique pin
- Letter of Good Standing (COIDA)
- Detailed Bill of Quantities (BOQ)
- CIDB Grading Certificate
- Owner's Identity Document.

(Provision is made in Section T2.2 for the inclusion of some of the forms listed above.)

C.3.4 Opening of Tender Submissions

Bids will not be opened in public

C.3.11 Tender Evaluation of Tender Offers

C3.11.1 The procedure for evaluation of responsive Tender Offers will be Method 2: Financial Offer and Preferences.

Evaluations of responsive Tenderers will be based on two (2) stages for points scoring as detailed hereunder:

Stage 1 – Functionality

Tenderers are to obtain a minimum of 60% (60 Points) of the functionality points to be considered for the next stage.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

❑ **Breakdown of the functionality points:**

Functionality area	Points
Capacity to Deliver	20
Previous Experience	40
Capability: Resources	30
Programme Schedule	5
Project Specific: OHS	5
Total	100 points

Stage 2 – Price and B-BBEE Status Level Contributor

Evaluations will be based on a points system 80/20 system

Price	80 points
B-BBEE status Level Contributor	20 points
TOTAL	100 points

ALLOCATION OF FUNCTIONALITY POINTS

1. Capacity to Deliver (20 points)	Current Commitments (10 points)	Between 5 and more = 5 points
	Contractors are to specify current workload and the value of projects. Use the provided pages in returnable document and include contactable details for each project	Between 1 and 4 = 10 points
	Plant (10 points)	Bakkie = 2 points
		Truck = 2 points
	Proof of ownership for plant should be valid registration papers	Bomag / tamping hammer = 2 points
	For Hiring/Leasing valid proof of leasing/hiring letter from hiring/leasing company and valid form of agreement would be acceptable, specify plant if hiring	TLB / Excavator = 2 points
	Plant to be used to be relevant scope of work and specific to the project and proof to be attached	Concrete mixer = 2 points
	If NO proof of ownership is provided, then no points will be allocated. If NO proof of hiring/leasing letter from hiring/leasing company no points will be allocated	No proof = 0 points

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

2. Previous Experience: Project Specific Track Record (40 points)	Track Record (15 points)	5 or more similar projects and value = 15 points
		4 similar projects and value = 12 points
	Profile or track record of previous work done not older than 5 years which must include relevant projects in nature and value. Use the provided pages in returnable document and include contactable details for each project	3 similar projects and value = 9 points
	Bidders must submit final completion certificates for completed projects.	2 similar projects and value = 6 points
	Failure to submit final completion certificates will result in no points being awarded	1 similar project and value = 3 points
	References (25 points)	5 or more references = 25 points
		4 references = 20 points
	Projects listed under track recorder are the only ones to be referenced.	3 references = 15 points
		2 references = 10 points
	Reference letter must be from a client, must indicate the value of project as well as the time frame allocation in completing the project and must be signed and stamped and scored	1 reference = 5 points
	Use only the provided pages in returnable document for references	0 references = 0 points
3. Capability Resources: Qualification and Competencies (30 points)	A. Resources (5 points)	Project specific organogram submitted with clearly defined roles and responsibilities note not a company organogram = 5 points
	Contractors are required to submit a project specific organogram	Project specific organogram submitted with no clearly defined roles and responsibilities = 3 points
		Project specific organogram not submitted = 0 points

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

3. Capability Resources: Qualification and Competencies (30 points) (Continued)	B. Qualification of Key staff (15 points)	
	There must be CV's and original certified qualifications, with certification date being within a period of 6 months on the date of closing bids; of relevant individuals to the project e.g., Project Manager/Construction Manager, Site Manager/Agent and Foreman, of the relevant project	
	Project Manager/Construction Manager	Holding a Degree related to the construction environment = 5 points
		Holding Diploma related to the construction environment = 3 points
		Holding a Certificate related to the construction environment = 1 points
		None submission of original certified qualifications = 0 points
	Site Agent	Holding a Degree related to the construction environment = 5 points
		Holding Diploma related to the construction environment = 3 points
		Holding a Certificate related to the construction environment = 1 point
		None submission of original certified qualifications = 0 points
	Foreman	Holding a Degree related to the construction environment = 5 points
		Holding Diploma related to the construction environment = 3 points
		Holding a Certificate related to the construction environment = 1 point
		Recognition for Prior Learning (RPL) = 0.5 points
		None submission of original certified qualifications or RPL = 0 points

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

3. Capability Resources: Qualification and Competencies (30 points) (Continued)	C. Years of Experience (10 points)	
	Relevant individuals must possess the relevant experience must be clearly reflected in the CV.	
	Project Manager/Contracts Manager	Over 6 Years of experience = 2 points
		Less than 6 Years of experience = 1 point
	Site Agent	Over 6 Years of experience = 4 points
		Less than 6 Years of experience = 2 points
	Foreman	Over 6 Years of experience = 4 points
		Less than 6 Years of experience = 2 points
4. Programme Schedule (5 points)	Programme Schedule (5 points)	
	Programme schedule must be project specific submitted with the below:	
	Construction Activities	2 points
	Activity duration and overall project duration	2 points
	Construction sequence	1 point
	Program schedule not submitted	0 points
5. Project Specific OHS (5 points)	Project Specific OHS (5 points)	
	Bidders must provide a project specific OHS plan complying with the latest act in line with the scope of works, must adhere to COVID 19 precautionary measures and protocols, in-line with regulations issued in terms of section 27(2) of the Disaster Management Act of 2002, and must outline the following:	
	Legal requirement and regulations	1 point
	Safety Management Plan	1 point
	Brief CVs with original certified qualification of relevant individual to the project	2 points
	Risk Management	1 point
	If project Specific OHS plan not submitted / OHS plan submitted is generic and not project specific, then no points will be awarded	0 points

C.3.13 Acceptance of Tender Offer

C.3.13.1 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 Tenderer;
- (b) a valid original Tax Clearance Certificate, or a photocopy of the original certificate, certified by a commissioner of oaths, is included with this Tender;
- (c) Tenderer's declaration of compliance with the Occupational Health and Safety Act No 85 of 1993 and the Construction Regulations 2003 as well as the Tenderer's health and safety plan, is included with his Tender submission;
- (d) a Tenderer who submitted a Tender as a Joint Venture has included an acceptable Joint Venture Agreement with his Tender;
- (e) the Tenderer or a competent authorised representative of the Contractor who submitted the Tender has attended the compulsory clarification meeting or site inspection;
- (f) 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 Regulations 2003 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.
- (g) The Tenderer 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.
- (h) The Tenderer 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 this effect.
- (i) The Tenderer has indicated and declared where or not a spouse, child or parent of the Tenderer is in the service of the State.
- (j) The Employer is satisfied that the Tenderer or any of his principals have not influenced the Tender offer and acceptance by the following criteria:
 - (i) 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;
 - (ii) having acted in a fraudulent or corrupt manner in obtaining or executing this Contract;
 - (iii) having approached an officer or employee of the Employer or the Employers Agent with the object of influencing the award of a Contract in the Tenderer's favour;
 - (iv) having entered into any agreement or arrangement, whether legally binding or not, with any other person, firm or company to refrain from Tendering for this Contract or as to the amount of the Tender to be submitted by either party;
 - (v) having disclosed to any other person, firm or company other than the Employer, the exact or approximate amount of this proposed Tender;

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

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.

C.3.17 Copies of contract

The number of paper copies of the signed contract to be provided by the Employer is one.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T1.3 TENDER CONDITIONS

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Project title:	ASIDI WATER AND SANITATION PROGRAMME: COMPLETION OF WATER PROJECTS CLUSTER: 3E – MNGENI SPS		
Tender No:	DoEEC/13/2021		
Invitation date:	25 February 2022	Closing date:	25 March 2022
Closing time:	11:00am	Validity period	90 days

Clause number (refer to Annex C)	Wording
C.1	GENERAL
C.1.1	Actions
C.1.1.1	The Independent Development Trust as the employer and each tenderer submitting a tender offer shall comply with these conditions of tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.
C1.1.2	The Independent Development Trust and the tenderer 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. Tenderers 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.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	<i>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.</i> <i>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.</i>
C.1.1.3	The Independent Development Trust shall not seek, and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with and complete the contract within the stipulated completion time. Failure to complete will result in penalties being applied and tendered being blacklisted with CIDB and National Treasury.
C.1.2	Tender documents The documents issued by the employer for the purpose of a tender offer are listed in the tender data.
C.1.3	Interpretation
C.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 tender.
C.1.3.2	These conditions of tender, the tender data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the invitation to tender.
C.1.3.3	For the purposes of these conditions of tender, the following definitions apply: a) conflict of interest means any situation in which: i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfil his or her duties impartially; ii) an individual or tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	iii) incompatibility or contradictory interests exist between an employee and the tenderer who employs that employee. b) comparative offer means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration; c) 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; d) 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;
C.1.4	Communication and Employer's Agent Each communication between the employer and a tenderer 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 tenderer. The name and contact details of the employer's agent are stated below: The employer's representative is (Principal Agent): Bosch Projects (PTY) LTD 57 Western Avenue Vincent East London 5247 Email: memanit@boschprojects.co.za Project Director : André Naudé Project Manager: Thabisa Memani

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.1.5	Cancellation and re-invitation of tenders
C.1.5.1	An employer 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 engineering and construction works specified in the invitation; b. funds are no longer available to cover the total envisaged expenditure; or c. no acceptable tenders are received. d. there is a material irregularity in the tender process.
C1.5.2	The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised
C1.5.3	An employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.
C.1.6	Procurement procedure
C.1.6.3	Proposal procedure using two stage system - Not applicable.
C.2	TENDERER'S OBLIGATIONS
C.2.1	Eligibility Only those tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to 3 or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a 3 CE/GB Civil Engineering/General Building class of construction work or higher, are eligible to have their tenders evaluated. Please note that your registration should be valid on the day of evaluation as well as on the day of award.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	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 3 CE/3GB Civil Engineering/General Building or higher class of construction work; or not lower than one level below the required grading designation in the class of works construction works under considerations and possess the required recognition status. 3. Contractor can only submit one tender per cluster as a joint venture partner or individual company, not both. 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 3CE / 3GB Civil Engineering/General Building or higher class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations.
C.2.4	Confidentiality and copyright of documents Bidder to treat confidential all matters arising in connection with the bid. Use and copy the documents issued by The Independent Development Trust only for the purpose of preparing and submitting a bid offer in response to the invitation.
C.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.
C.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.
C.2.7	Briefing meeting No Compulsory Site Inspection Meeting will take place because of Covid-19 Regulations. Bidders are advised to go and view the site on their own time to assess site conditions. A Zoom meeting will be held 04 March 2022 at 10:00 am for any queries relating to this tender.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	The link for the Zoom meeting is as follows: Meeting ID: 961 8514 5469 Passcode: 550734 Join Zoom Meeting https://idt-org-za.zoom.us/j/96185145469?pwd=RzExTkFFRmtLS0l0aFNXNDZF2Smp0QT09 Bid Documents which must be completed and submitted are available for download on IDT website: www.idt.org.za/business-opportunities/current-tenders or National Treasury eTender on: www.treasury.gov.za from Monday 25 February 2022 Due to COVID 19, no bid documents will be sold. All documents must be downloaded and printed by the bidders from the abovementioned sites.
C.2.8	Seek clarification Tenderers should request clarification of the tender documents, if necessary, by notifying the Employer's Representative indicated in the Tender Notice and Invitation to Tender in writing at least five working days before the closing time stated in the tender data.
C.2.9	Insurance The Independent Development Trust accepts that the submission of a Tender shall be constructed as an acknowledgment by the Tenderer that she/he will provide her/his own insurance for this contract to safeguard the works against damages and the public injuries, diseases etc.
C.2.10	Pricing of tender offer
C.2.10.3	Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data
C.2.11	Alterations to documents 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 tenderer. All signatories to the tender offer shall initial all such alterations. Erasures and the use of masking fluid are prohibited.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.2.13	Submitting a tender offer
C.2.13.1	Submit one tender offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the contract data and described in the scope of works, unless stated otherwise in the tender data.
C.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 legibly in non-erasable ink.
C.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.
C.2.13.4	Sign the original of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers 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.
C.2.13.5	Seal the original tender offer marking the as "ORIGINAL" Tender shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.
C.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 tenderer's name and contact address.
C.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.
C.2.13.8	Accept that the employer will 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.
C.2.13.9	Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.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
C.2.15	Closing time The closing time for submission of tender offers is: Tuesday, 25 March 2022 @ 11:00
C.2.16	Tender offer validity The Tender Offer validity period is 90 days “If the tender validity expires on a Saturday, Sunday or public holiday, the Tender Offer shall remain valid and open for acceptance until the closure of business on the following working day.” The validity period may be extended in writing by the Employer.
C.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 competitive position of tenderers or substance of the tender offer is sought, offered, or permitted. Note: Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.2.18	Provide other material
C.2.18.1	Provide, on request by the employer, any other material or equipment that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment.
C.2.18.2	Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the employer's request, the employer may regard the tender offer as non-responsive.
C2.18.3	Dispose of samples of materials provided for evaluation by the employer, where required.
C.2.19	Inspections tests and analysis
	The Tenderer must provide access during working hours to his premises for inspections on request.
C.2.20	Submit securities, bonds and policies
	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.
C.3	THE EMPLOYER'S UNDERTAKINGS
C.3.2	Issue addenda
	If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who collected tender documents

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C3.3	Return late tender offers Late tenders will not be returned.
C3.4 C3.4.1 C3.4.2	Opening of Tender submissions Unless the two-envelope system is to be followed, open valid Tender submissions in the presence of Tenderers' agents who choose to attend at the time and place stated in the Tender data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened. Announce at the public meeting held immediately after the opening of Tender submissions, at a venue indicated in the Tender data, the name of each Tenderer whose Tender offer is opened, where applicable, the total of his prices, number of points claimed for its BBBEE status level and time for completion for the main tender offer only. Make available the record outlined in C.3.4.2 to all interested persons upon request.
C.3.8 C.3.8.1 C.3.8.2	Test for responsiveness Determine, after opening and before detailed evaluation, whether each tender offer properly received: a) complies with the requirements of these Conditions of Tender, b) has been properly and fully completed and signed, and 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: a) Detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work, b) Significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or c) Affect the competitive position of other tenderers presenting responsive tenders if it were to be rectified.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	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.
C.3.9	Arithmetical errors, omissions and discrepancies
C.3.9.1	Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.
C.3.9.2	Check the tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for: a) the gross misplacement of the decimal point in any unit rate; b) omissions made in completing the pricing schedule or bills of quantities; or c) arithmetic errors in: (i) line-item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or (ii) the summation of the prices.
C.3.9.3	Notify the tenderer of all errors or omissions that are identified in the tender offer and either confirm the tender offer as tendered or accept the corrected total of prices.
C.3.9.4	Where the tenderer elects to confirm the tender offer as tendered, correct the errors as follows: a) If bills of quantities or pricing schedules 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 shall be corrected. b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern, and the tenderer will be asked to revise selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

C.3.10	Clarification of a Tender offer Obtain clarification from a Tenderer on any matter that could give rise to ambiguity in a contract arising from the Tender offer.
C.3.11	Evaluation of tender offers The tenders will be evaluated for responsiveness, price and preference. Apply the 80/20 Preference Point system where a maximum of eighty (80) points will be awarded for price and twenty (20) points will be awarded for B-BBEE. After price and preference have been scored, arithmetic check and a risk assessment will be conducted for those tenderers that are responsive. The Independent Development Trust is obligated to undertake risk assessment before accepting offers. In doing the risk assessment the following must be considered. 1. Employer is restricted in accordance with clause 4.(4) of the Construction Regulations, 2014, to only appoint a Contractor whom he is satisfied has the necessary competencies and resources to carry out the work safely. 2. Employer is obligated by standards of uniformity to tender to evaluate if the Contractor can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract. In this contract the risk assessment will be conducted in relation to the key areas below: • Technical qualifications & Technical Competence The bidder to submit CV's and original certified qualifications, with certification date being within a period of 6 months on the date of closing bids; of the following key personnel:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	• Project Manager/Contracts Manager • Site Agent • Foreman • OHS officer If a company does not meet the above minimum requirements, it will be considered high risk. • Capacity Current project under construction and locality of projects. If a company has more than 5 projects, it will be considered a risk after taking into consideration of current projects status and performance. • Reliability Completed at least five projects with each project having similar scope of works and value. If a company has completed less than 5 projects over the period stipulated it will be considered a high risk and It will not be passing the risk assessment. • Experience and reputation At least three contactable references from three reputable organisations on similar water infrastructure projects completed (Final Completion) in the past 5 years (E.g., Implementing Agents, Municipalities and Provincial/National Government etc.) If a company has less than 3 contactable references it will be considered a high risk and it will not be passing the risk assessment. • Commercial Risk and Financial resources Price offered does not pose risk to completion of the project and is market related. It will not detrimentally affect the scope, quality, time of completion of the works as identified in the Scope of Work.
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**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

	An offer that is considered to be significantly low compared to the market related price/cost norm will be considered a high risk. • Construction Implementation Plan (Brief report) A construction implementation plan must be developed to address the following “ • Human resource deployment (Contracts manager/ OHS officer/Skilled labour/unskilled labour etc.) and number to be employed, and their role and responsibilities on the project. • Materials procurement plan (Which materials will procure, How, where and when will the materials be procured to support the construction programme. • How will the health and safety be implemented, managed and monitored? (COVID 19 regulations) • What plant and equipment will be used and how will they be sourced and from where? • How will quality control and assurance be managed. • Detailed Construction programme • Cash flow projections to support the detailed construction programme. A sound plan that covers all of the above key areas and is based on known information will be considered to be less of a risk. A plan that does not cover all the areas and is less detailed will be considered a high risk. Contractor may be called in to present the plan and they must be accompanied by the key staff indicated above on item 1. As part of risk assessment, the Bidders give The Independent Development Trust the right to request for enquiries from previous and/or current employers about bidder's performance
C.3.12	Insurance provided by the employer The Employer will not take out any insurance.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.3.13	Acceptance of tender offer Accept the tender offer; if in the opinion of the employer, it does not present any risk and only if the tenderer: a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement; b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract; c) has the legal capacity to enter into the contract; d) complies with the legal requirements, if any, stated in the tender data; and e) is able, in the opinion of the employer, to perform the contract free of conflicts of interest. Add the following: A Tender Offer will only be accepted on condition that such acceptance is not prohibited in terms of the Public Finance Management Act.
C.3.14 C.3.14.1	Prepare contract documents If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the Tender documents to take account of: a) Addenda issued during the Tender period, b) Inclusion of some of the returnable documents, c) Other revisions agreed between the employer and the successful Tenderer. d) Complete the schedule of deviations attached to the form of offer and acceptance, if any.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C.3.15	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.
C.3.17	Provide copies of the contracts One signed copy of contract shall be provided by the Employer (per cluster) to the successful Tenderers. For record purposes the contractors should buy a copy of the contract for use as reference during contract administration.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021



PART T2 : RETURNABLE DOCUMENTS
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**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.1 : List of Returnable Documents and Returnable Schedules

T2.1 List of Returnable Documents

1. Statutory Returnable documents

- T2.1.A: Central Supplier Database Registration Report. (If not registered on day of award, tenderer will be disqualified)
- T2.1.B: CIDB registration print out (Registration will be verified online and if not valid on day of award, tenderer will be disqualified)
- T2.1.C: Certificate of Good Standing with Workman Compensation Commissioner (COIDA/FEM). (Registration will be verified online and if not valid on day of award, tenderer will be disqualified).
- T2.1. D: Proof of Company Registration
- T2.1. E: Certified Copies of ID's Owners/Directors

T.2.2 List of Compulsory Returnable Schedules

The tenderer is required to fully complete and/or submit the following documents with the tender. Tenderer to note non-completion of SBD 6.2 will result into disqualification

2. Returnable schedules that will be used for Evaluation:

- T2.2.A: Record of Addenda to Tender Documents
- T2.2.B: Compulsory Questionnaire
- T2.2.C: Resolution for signatory
- T2.2.D: Schedule of Proposed Sub-Contractors.
- T2.2.E: Valid Tax Compliance Status Pin. (Validity will be verified on- line during supply chain management processes)
- T2.2.F: Additional Particulars Concerning Tenders.
- T2.2.G: Preference schedule: Broad Based Black Economic Empowerment Status
- SBD 1: Invitation to Bid
- SBD 4: Declaration of Interest.
- SBD 6.1: Preference Point Claim Form in terms of the preferential procurement regulations 2017.
- SBD 6.2: Declaration certificate for local production and content for designated sectors. Tenderer to ensure the form is completed and signed. Failure to complete and sign will result into disqualification.
- SBD 8: Declaration of Bidders Past Supply Chain Management Practices.
- SBD 9: Certificate of Independent Bid Determination.
- C1.1 Form of Offer and Acceptance (must be completed per cluster - Failure to complete and sign will result into disqualification.)

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.3 Objective Risk Assessment Criteria

- T2.3.1: Technical Qualifications & Technical Competence
- T2.3.2: Company Capacity
- T2.3.3: Reliability
- T2.3.4: Plant and Equipment Schedule
- T2.3.5: Construction Implementation Plan (Brief report)

Returnable schedules that will be incorporated into the contract:

- C1.1 Form of Offer and Acceptance
- C1.2 Contract Data
- C1.3 Form of Guarantee or Deduction on Payment
- C1.4 Agreement in Terms of Section 37(2) of the Occupational Health and Safety Act (Act No. 85 of 1993)
- C1.5 Adjudication Board Member Agreement
- C1.6 IDT Beneficiary Reconciliation Form (BRF)
- C2.2 Bill of Quantities

T2.1 STATUTORY RETURNABLE DOCUMENTS

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.1. A: Central Supplier Database (CSD) Registration Report.

Kindly affix a Summary of the Company CSD Report.

If not registered on day of award, tenderer will be disqualified.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.1. B: Copy of CIDB print-out

Tenderer to attached CIDB print-out. Registration will be verified online and if not valid on day of award, tenderer will be disqualified)

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

**T2.1. C: Certificate of Good Standing with Workman's Compensation
Commissioner. (CIDA)**

Tender to attached Certificate of Good Standing with Workman's Compensation Commissioner.
Validity of certificate will be verified online

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.1. D: Proof of Company Registration

Tenderer to attach proof of company registration (CIPRO CERTIFICATE)

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

T2.1. E: Certified Copies of ID's Owners/Directors

Tenderer to attach Owner/Director's certified copies of Identity Document(s)

T2.2 List of Compulsory Returnable Schedules

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T 2.2.A - Record of Addenda to tender documents

We confirm that the following communications received from The Independent Development Trust before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: Addenda to be attached with tender documents is compulsory.

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

Attach additional pages if more space is required.

	Date	
Signed		
Name		Position
Enterprise		
name		

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T.2.2. B - Compulsory Enterprise Questionnaire

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

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

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

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

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

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

Section 5: Particulars of companies and close corporations

Company registration number
.....

Close corporation number
.....

Tax reference number
.....

Section 6: Record in the service of the state

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

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| ☐ a member of any provincial legislature | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the National Assembly or the National Council of Province | ☐ an employee of Parliament or a provincial legislature |
| ☐ a member of the board of directors of any municipal entity | |
| ☐ an official of any municipality or municipal entity | |

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

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

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

*Insert separate page if necessary

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

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

- | | |
|--|---|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act 1 of 1999) |
| ☐ a member of any provincial legislature | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the National Assembly or the National Council of Province | ☐ an employee of Parliament or a provincial legislature |
| ☐ a member of the board of directors of any municipal entity | |
| ☐ 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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

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

- i) authorizes The Independent Development Trust to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;
- ii) confirms that the 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;
- iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;
- iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and
- iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Date

Signed

Name

Position

*Enterprise
name*

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

T.2.2.C: Resolution for Signatory

Project title:	ASIDI WATER AND SANITATION PROGRAMME: COMPLETION OF WATER PROJECTS CLUSTER: 3E – MNGENI SPS
Tender No:	DoEEC/13/2021

A: CERTIFICATE OF AUTHORITY FOR SIGNATORY (COMPULSORY FOR COMPLETION)

Signatory for companies shall confirm their authority hereto by attaching a duly signed and dated copy of the relevant resolution of the board of directors to this form on the company letter head.

An **example** is given below:

“By resolution of the board of directors passed at a meeting held on _____

Mr/Ms _____, whose signature appears below, has been duly authorised to

sign all documents in connection with the tender for Contract No. **DoEEC/15/2021**

and any Contract which may arise there from on behalf of (Block Capitals) _____

SIGNED ON BEHALF OF THE COMPANY: _____

IN HIS/HER CAPACITY AS: _____

DATE: _____

SIGNATURE OF SIGNATORY: _____

WITNESSES:

1. _____ SIGNATURE: _____

2. _____ SIGNATURE: _____

T.2.2.D: Schedule of Proposed Subcontractors

We notify you that it is our intention to employ the following Subcontractors for work in this contract. If we are awarded a contract, we agree that this notification does not change the requirement for us to submit the names of proposed Subcontractors in accordance with requirements in the contract for such appointments. If there are no such requirements in the contract, then your written acceptance of this list shall be binding between us. Contractor is required not to subcontract more than 25% of the work and the contractor has to attach subcontractor BBBEE & CK documents.			
	Name and address of proposed Subcontractor	Nature and extent of work	Previous experience with Subcontractor.
1.			
2.			
3.			
4.			
5.			

Signed _____

Name _____

Enterprise name _____

Date _____

Position _____

T2.2.E: Tax Compliance Status and Pin Requirements

It is a condition of bid that the taxes of the successful bidder must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the bidder's tax obligations.

- Tender to attach tax compliance status and pin number document. Validity will be verified online during supply chain management processes.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T.2.2.F: Additional Particulars Concerning Tenderers

Project title:	ASIDI WATER AND SANITATION PROGRAMME: COMPLETION OF WATER PROJECTS CLUSTER 3E – MNGENI SPS
Tender No:	DoEEC/13/2021

**a) SURETIES AS SECURITY (OPTIONAL FOR THOSE THAT CHOOSE TO PROVIDE
CONSTRUCTION GUARANTEE AS SECURITY)**

Since I/we propose to furnish one surety as security, the following particulars are provided:

1.1 Name of surety:

.....
...

.....
...

Address of surety:

.....
...

.....
...

Bank of surety:

.....
...

.....
...

Branch:

.....
...

.....
...

b) Bank Details and Bank Rating

Contractor's Bank Details –

Bank Name:

Address:

Account Number:

Contact Person:

Tel No.:

Fax No.:

A letter of intent from the proposed guarantor is attached to this page.

The tenderer's Bank Rating must also be attached to this page.

T2.2.G: Preference schedule: Broad Based Black Economic Empowerment Status

SBD4: Declaration of Interest

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes an advertised competitive bid, a limited bid, a proposal or written price quotation). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

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

2.1 Full Name of bidder or his or her representative:

2.2 Identity Number.....

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

.....
.

2.4 Registration number of company, enterprise, close corporation, partnership agreement
or
trust.....

2.5 Tax Reference Number:
.....

2.6 VAT Registration Number:
.....

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.

¹"State" means –

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

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

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

2.7.1 If so, furnish the following particulars:

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

.....

Name of state institution at which you or the person connected to the bidder is employed:

.....

Position occupied in the state institution:

.....

Any other particulars:

.....

.....

.....

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

2.7.2.1 If yes, did you attach proof of such authority to the bid document? **YES / NO**

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.

2.7.2.2 If no, furnish reasons for non-submission of such proof:

.....

.....

.....

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months? **YES / NO**

2.8.1 If so, furnish particulars:

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

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

2.9.1 If so, furnish particulars.

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

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

2.10.1 If so, furnish particulars.

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

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract? **YES/NO**

2.11.1 If so, furnish particulars:

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Income Tax Reference Number	State Employee Number / Persal Number

4 DECLARATION

I, THE UNDERSIGNED (NAME).....

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

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 23 OF THE GENERAL CONDITIONS OF CONTRACT SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of bidder

SBD 6.1: Preference Points Claim Form in Terms of the Preferential Procurement Regulations 2017

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

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

1. GENERAL CONDITIONS

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

- the 80/20 system for requirements with a Rand value 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

- a) The value of this bid is estimated to not exceed R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable; or
- b) Either the 80/20 or 90/10 preference point system will be applicable to this tender (*delete whichever is not applicable for this tender*).

1.3 Points for this bid shall be awarded for:

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

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

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

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

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

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“prices”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

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

80/20 or

90/10

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for price of bid under consideration
 P_t = Price of bid under consideration
 $P_{\min}$ = Price of lowest acceptable bid

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

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

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

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

- 6.1 B-BBEE Status Level of Contributor: . = 20 (maximum of 10 or 20 points)
(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

7. SUB-CONTRACTING

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

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

7.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(Tick applicable box)

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

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

a) Designated Group: An EME or QSE which is at last 51% owned by:	EME √	QSE √
b) Black people		
c) Black people who are youth		
d) Black people who are women		
e) Black people with disabilities		
f) Black people living in rural or underdeveloped areas or townships		
g) Cooperative owned by black people		
h) Black people who are military veterans		
OR		
i) Any EME		
j) Any QSE		

8. DECLARATION WITH REGARD TO COMPANY/FIRM

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

8.2 VAT registration number:.....

8.3 Company registration number:.....

8.4 TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

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

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

COMPANY CLASSIFICATION

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

[TICK APPLICABLE BOX]

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

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

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

WITNESSES

1.

2.

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

DATE:

ADDRESS

.....

.....

Te

SBD 6.2: Declaration Certificate for Local Production and Content for Designated Sectors

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

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

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9) makes provision for the promotion of local production and content.
- 1.2. Regulation 9. (1) prescribes that in the case of designated sectors, where in the award of bids local production and content is of critical importance, such bids must be advertised with the specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for bids referred to in paragraph 1.2 above, a two-stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

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

Where

- x is the imported content in Rand
y is the bid price in Rand excluding value added tax (VAT)

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

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

1.6 A bid may be disqualified if –

- (a) this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation; and
- (b) the bidder fails to declare that the Local Content Declaration Templates (Annex C, D and E) have been audited and certified as correct.

2. Definitions

- 2.1. **“bid”** includes written price quotations, advertised competitive bids or proposals;
- 2.2. **“bid price”** price offered by the bidder, excluding value added tax (VAT);
- 2.3. **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.4. **“designated sector”** means a sector, sub-sector or industry that has been designated by the Department of Trade and Industry in line with national development and industrial policies for local production, where only locally produced services, works or goods or locally manufactured goods meet the stipulated minimum threshold for local production and content;
- 2.5. **“duly sign”** means a Declaration Certificate for Local Content that has been signed by the Chief Financial Officer or other legally responsible person nominated in writing by the Chief Executive, or senior member / person with management responsibility (close corporation, partnership or individual).
- 2.6. **“imported content”** means that portion of the bid price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or its subcontractors) and which costs are inclusive of the costs abroad (this includes labour or intellectual property costs), plus freight and other direct importation costs, such as landing costs, dock duties, import duty, sales duty or other similar tax or duty at the South African port of entry;
- 2.7. **“local content”** means that portion of the bid price, which is not included in the imported content, provided that local manufacture does take place;
- 2.8. **“stipulated minimum threshold”** means that portion of local production and content as determined by the Department of Trade and Industry; and
- 2.9. **“sub-contract”** means the primary contractor’s assigning, leasing, making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract.

3. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

Steel Construction Materials	Components	Local Content Threshold
Fabricated Structural Steel	Latticed steelwork, reinforcement steel, columns beams, plate girders, rafters, bracing, cladding supports, stair stringers & treads, ladders, steel flooring, floor grating, handrailing & balustrading, scaffolding, ducting, gutters, launders, downpipes and trusses	100%
Joining / Connecting Components	Gussets, cleats, stiffeners, splices, cranks, kinks, doglegs, spacers, tabs and brackets	100%
Frames	Doors and Windows	100%
Roof and Cladding	Bare steel cladding, galvanised steel cladding, colour coated cladding	100%
Fasteners	Bolts, nuts, rivets and nails	100%
Wire Products	All fencing products: all barbed wire and mesh fencing, fabric/mesh reinforcing, gabions, wire rope/strand and chains, welding electrodes, nails/tacks, spring and screws	100%
Ducting & Structural Pipework	Non-conveyance tubing fabricated from steel sheeting and plate with structural supports	100%
Gutters, downpipes & launders	Fabricated materials made from sheeting associated with roof drainage systems	100%

4. Does any portion of the services, works or goods offer have any imported content?
(**Tick applicable box**)

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

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

The relevant rates of exchange information are accessible on www.reservebank.co.za.

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

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

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

5. Were the Local Content Declaration Templates (Annex C, D and E) audited and certified as correct?

(Tick applicable box)

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

5.1. If yes, provide the following particulars:

- (a) Full name of auditor:
- (b) Practice number:
- (c) Telephone and cell number:
- (d) Email address:

(Documentary proof regarding the declaration will, when required, be submitted to the satisfaction of the Accounting Officer / Accounting Authority)

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

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

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

IN RESPECT OF BID NO. DOEE/13/2021

ISSUED BY: (Procurement Authority / Name of Institution): I
INDEPENDENT DEVELOPMENT TRUST (IDT)

NB

1. The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
2. Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thdti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of
(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011; and
 - (ii) the declaration templates have been audited and certified to be correct.

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

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

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product have been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement Regulations, 2011 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

SATS 1286.2011

Annex C

Local Content Declaration - Summary Schedule

Note: VAT to be excluded from all calculations

	EU	GBP

Tender item no's		List of items	Calculation of local content					Tender summary				
			Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)	
Signature of tenderer from Annex B												
									(C20) Total tender value	R 0		
									(C21) Total Exempt imported content	R 0		
									(C22) Total Tender value net of exempt imported content	R 0		
									(C23) Total Imported content	R 0		
									(C24) Total local content	R 0		
									(C25) Average local content % of tender			
Date:												

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.		Note: VAT to be excluded from all calculations
(D2) Tender description:		
(D3) Designated Products:		
(D4) Tender Authority:		
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula	

EU R 9.00 GBP R 12.00

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	
										This total must correspond with Annex C - C 21	

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

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

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments	
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)	
(D52) Total of foreign currency payments declared by tenderer and/or 3rd party					R 0	
(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above					R 0	
					This total must correspond with Annex C - C 23	

Signature of tenderer from Annex B _____

Date: _____

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

SATS 1286.2011

Annex E

Local Content Declaration - Supporting Schedule to Annex C

(E1)	Tender No.	
(E2)	Tender description:	
(E3)	Designated products:	
(E4)	Tender Authority:	
(E5)	Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
(E9) Total local products (Goods, Services and Works)			R 0

(E10) **Manpower costs** (Tenderer's manpower cost) R 0

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.) R 0

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.) R 0

(E13) Total local content R 0

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

SBD8: Declaration of Bidder's Past Supply Chain Management Practices

- 1 This Standard Bidding Document must form part of all bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The bid of any bidder may be disregarded if that bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

4.3.1	If so, furnish particulars:		
4.4	Was any contract between the bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		

CERTIFICATION

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

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

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

SBD9: Certificate of Independent Bid Determination

- 1 This Standard Bidding Document (SBD) 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 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD 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 (SBD 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.

SBD 9: Certificate of Independent Bid Determination

I, the undersigned, in submitting the accompanying bid:

Bid Number : DoEEC/13/2021

**Accelerated Schools Infrastructure Delivery Initiative (ASIDI) Completion of Water Supply
Projects In Or Tambo Region: Cluster: 3E – Mngeni SPS**

in response to the invitation for the bid made by:

INDEPENDENT DEVELOPMENT TRUST (IDT)

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

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

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

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

T2.3 Objective Risk Assessment Criteria

The Independent Development Trust is obligated to undertake risk assessment before accepting offers. In doing the risk assessment the following must be considered.

Employer is restricted in accordance with clause 4.(4) of the Construction Regulations, 2014, to only appoint a Contractor whom he is satisfied has the necessary competencies and resources to carry out the work safely.

Employer is obligated by standards of uniformity to tender to evaluate if the Contractor can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.3.1: Technical Qualifications & Technical Competence

The bidder to submit the following key person CV's and qualifications

- Project Manager/Construction Manager
- Site Agent
- Foreman
- OHS officer

If a company does not meet the above minimum requirements, it will be considered high risk.

Provide details of key personnel below

Name and Surname	Position	Qualification	CV attached	Certified certificate attached	No. of years of relevant experience
	Contract Manager				
	Site Agent				
	Foreman				
	OHS Office				

Failure to attach CV and certified qualification copies may result in NOT passing the risk assessment. INDEPENDENT DEVELOPMENT TRUST reserves the right to request the Tender to provide the documentation within 24 hrs failing which it will result in the tenderer not passing the risk assessment.

Signed on behalf of the Tenderer		Date	
----------------------------------	--	------	--

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

T2.3.2: Company Capacity

List current projects under construction and locality of projects.

If a company has more than 5 projects, it will be considered a risk after taking into consideration of current projects status and performance.

Provide details of current projects

Name of Project	Locality of Project (nearest town)	Client	Duration of Project	Current Progress (%) at time of submission of Tender	Client Contact Person & Contact No.	Contractual Completion date

Failure to declare all current projects may result in NOT passing the risk assessment. INDEPENDENT DEVELOPMENT TRUST reserves the right to request other Employers to provide the information on current projects being undertaken by the company.

Signed on behalf of the Tenderer		Date	
----------------------------------	--	------	--

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DōEEC/13/2021

T2.3.3: Reliability

Completed at least five projects with each project having a value of at least R 1,000 000.00 and above.

If a company has completed less than 5 projects over the period stipulated it will be considered a risk.

Provide details of completed projects

Name of Project	Locality of Project	Value of Project	Original Completion date	Revised Completion date	Actual Completion date

Tenderer to attached Practical Completion Certificate. Failure to provide requested documentation may result in NOT passing the risk assessment. INDEPENDENT DEVELOPMENT TRUST reserves the right to request the Tender to provide the documentation within 24 hrs failing which it will result in the tenderer not passing the risk assessment.

Signed on behalf of the Tenderer		Date	
----------------------------------	--	------	--

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

T2.3.4: Plant and Equipment Schedule

The Tenderer must state below what items of construction plant will be immediately available for this Contract, what construction plant will become available by virtue of outstanding orders, and what further construction plant will be acquired or hired for the work should he be awarded the Contract. The Contractor must also state which plant is owned by him, and which is leased or subject to hire purchase agreement. Additional sheets may be attached if necessary.

(a) Construction Plant Immediately Available

DESCRIPTION, SIZE, CAPACITY	NUMBER

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

T2.3.4: Plant and Equipment Schedule (cont.)

(b) Construction Plant that will be Hired or Acquired

The TENDERER must state the arrangements made and the intended delivery date.

DESCRIPTION, SIZE, CAPACITY	OWNED OR HIRED	NUMBER

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

T2.3.5: Experience and Reputation

At least three contactable references from reputable organisations on similar water infrastructure projects completed (Final Completion) in the past 5 years (E.g. Implementing Agents, Municipalities and Provincial/National Government etc.)

If a company has less than 5 contactable references it will be considered a high risk and will result in the company NOT passing the risk assessment.

The following form (next page) is to be completed by the client and is to be supported in each case accompanied by Signed Appointment Letter; Final Completion Certificate and is to be signed and stamped by the client

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

PROJECT # 1

PROJECT NAME:

Type of project:

Client:

Project Amount:

Contract Duration and Actual Contract Duration:

DESCRIPTION	INDICATE YES/NO
Has the above-mentioned project reached final completion within reasonable as stipulated in the contract	

Any other remarks considered necessary to assist in evaluation of the Contractor?

.....

.....

Client's contact person: **Telephone:**

I hereby declare that to the best of my knowledge, information completed above is true and correct and I understand that I will be held responsible for any misrepresentation.

Client's Signature: **Date:**

STAMP

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

PROJECT # 2

PROJECT NAME:

Type of project:

Client:

Project Amount:

Contract Duration and Actual Contract Duration:

DESCRIPTION	INDICATE YES/NO
<i>Has the above-mentioned project reached final completion within reasonable as stipulated in the contract</i>	

Any other remarks considered necessary to assist in evaluation of the Contractor?

.....

.....

Client's contact person: **Telephone:**

I hereby declare that to the best of my knowledge, information completed above is true and correct and I understand that I will be held responsible for any misrepresentation.

Client's Signature: **Date:**

STAMP

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

PROJECT # 3

PROJECT NAME:

Type of project:

Client:

Project Amount:

Contract Duration and Actual Contract Duration:

DESCRIPTION	INDICATE YES/NO
Has the above-mentioned project reached final completion within reasonable as stipulated in the contract	

Any other remarks considered necessary to assist in evaluation of the Contractor?

.....

.....

Client's contact person: **Telephone:**

I hereby declare that to the best of my knowledge, information completed above is true and correct and I understand that I will be held responsible for any misrepresentation.

Client's Signature: **Date:**

STAMP

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

PROJECT # 4

PROJECT NAME:

Type of project:

Client:

Project Amount:

Contract Duration and Actual Contract Duration:

DESCRIPTION	INDICATE YES/NO
Has the above-mentioned project reached final completion within reasonable as stipulated in the contract	

Any other remarks considered necessary to assist in evaluation of the Contractor?

.....
.....

Client's contact person: **Telephone:**

I hereby declare that to the best of my knowledge, information completed above is true and correct and I understand that I will be held responsible for any misrepresentation.

Client's Signature: **Date:**

STAMP

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

PROJECT # 5

PROJECT NAME:

Type of project:

Client:

Project Amount:

Contract Duration and Actual Contract Duration:

DESCRIPTION	INDICATE YES/NO
Has the above-mentioned project reached final completion within reasonable as stipulated in the contract	

Any other remarks considered necessary to assist in evaluation of the Contractor?

.....

.....

Client's contact person: **Telephone:**

I hereby declare that to the best of my knowledge, information completed above is true and correct and I understand that I will be held responsible for any misrepresentation.

Client's Signature: **Date:**

STAMP

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

T2.3.5: Construction Implementation Plan (Brief report)

A construction implementation plan must be developed to address the following:

- Human resource deployment (Contracts manager/ OHS officer/Skilled labour/unskilled labour etc.) and number to be employed, and their role and responsibilities on the project.
- Materials procurement plan (Which materials will procure, How, where and when will the materials be procured to support the construction programme.
- How will the health and safety be implemented, managed and monitored? (COVID 19 Regulations)
- What plant and equipment will be used and how will they be sourced and from where?
- How will quality control and assurance be managed.
- Detailed Construction programme
- Cash flow projections to support the detailed construction programme.

A sound plan that covers all of the above key areas and is based on known information will be considered to be less of a risk. A plan that does not cover all the areas and is less detailed will be considered a high risk. Contractor may be called in to present the plan and they must be accompanied by the key staff indicated above on item 1.

INDEPENDENT DEVELOPMENT TRUST reserves the right to request the Tender to provide the documentation within 24 hrs failing which it will result in the tenderer being eliminated

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEEC/13/2021**



PART C1 : AGREEMENT AND CONTRACT DATA

C1.1 Form of offer and Acceptance

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

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:

COMPLETION OF WATER PROJECTS IN THE OR TAMBO DISTRICT MUNICIPALITY: CLUSTER: 3E–MNGENI SPS TENDER NO: DoEEC/13/2021

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

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

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

Rand.....

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

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

for the tenderer

Signature:.....Date.....

Name:.....

Capacity:

Name and address of organization.....

.....

.....

Name and signature of witness:

Name:.....

Signature:.....Date.....

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY: (cross out block which is not applicable)

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is: 	OR	Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are:
---	----	---

(if applicable):

Trading under the name and style of:

.....

AND WHO IS:

Represented herein, and who is duly authorised to do so, by:
Mr/Mrs/Ms:

.....
In his/her capacity as:

.....

Note:

A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.

SIGNED FOR THE TENDERER:

Name of Representative	Signature	Date

WITNESSED BY:

Name of Witness	Signature	Date

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

The official documents..... ☒

The official alternative..... ☐

Own alternative (only if documentation makes provision therefore) ☐

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

SECURITY OFFERED:

- a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:
- i. cash deposit of 10 % of the Contract Sum. Yes ☐ No ☐
 - ii. fixed performance guarantee of 10% of the contract sum . Yes ☐ No ☐
 - iii. cash deposit of 10% of the Contract Sum and a payment reduction of 5% of the value certified in the payment certificate. Yes ☐ No ☐
 - iv. fixed performance guarantee of 10% of the Contract Sum and a payment reduction of 5% of the value certified in the payment certificate. Yes ☐ No ☐
 - v. If the Contractor fails to select the security to be provided in this Contract, Clause 6.2.2 of General Conditions of Contract, 2015 shall apply. Also, the Employer reserves the right to select the type of security to be provided in this Contract.

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

The Tenderer elects as its domicilium citandi et executandi in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

.....
.....

Other Contact Details of the Tenderer are:

Telephone No.: Cellular Phone No.:

Fax No.:

Postal address:

.....

Banker : Branch :

Branch Code : Account number :

Registration No of Tenderer at Department of Labour :

CIDB Registration Number :

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

Acceptance

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part 1 Agreement and contract data, (which includes this agreement)
- Part 2 Pricing data
- Part 3 Scope of work.
- Part 4 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 Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The Tenderer shall within 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 fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect, if delivered by hand on the day of delivery, or if delivered by courier within two working days after submission by the Employer to the courier services for a door-to-door delivery to the Tenderer, provided that the Employer notifies the Tenderer of the tracking number within 24 hours of such submission. Unless the Tenderer (now Contractor) within seven working days of the date of such submission notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

FOR THE EMPLOYER:

Signature:.....Date.....

Name:.....

Capacity:

Name of Employer: The Independent Development Trust (IDT)
Palm Square Business Park
Silverwood House
Beacon Bay
East London
5241

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

As witnesses:

Witness 1

Signature:.....Date.....

Name:.....

Witness 2

Signature:.....Date.....

Name:.....

SCHEDULE OF DEVIATIONS:

Notes:

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

.....

.....

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

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

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

For the Tenderer:

Signature:.....Date.....

Name:.....

Capacity:

Name and address of organization.....

.....

.....

As witnesses:

Witness 1

Signature:.....Date.....

Name:.....

Witness 2

Signature:.....Date.....

Name:.....

For the Employer:

Signature:.....Date.....

Name:.....

Capacity:

Name of Employer: The Independent Development Trust (IDT)
 Palm Square Business Park
 Silverwood House
 Beacon Bay
 East London
 5241

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

As witnesses:

Witness 1

Signature:.....Date.....

Name:.....

Witness 2

Signature:.....Date.....

Name:.....

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

Confirmation of Receipt

The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the.....(day) of(month) 20.....(year)

at(place)

For the Contractor:

.....
Signature

.....
Name

.....
Capacity

Signature and name of witness:

.....
Signature

.....
Name

C1.2 Contract Data

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

C1.2 Contract Data

Part 1: Data provided by the Employer

Conditions of Contract

The General Conditions of Contract 2015 for Construction Works, Third Edition (GCC 2015) published by the South African Institution of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this contract and is obtainable 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 contract.

The Contract Data and General Conditions of Contract shall have precedence over the Drawings, Scope of Work and Standardised Specifications in the interpretation of any ambiguity or inconsistency.

Contract Specific Data

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition (2015), are applicable to this Contract:

Clause	Data
1.1.1.13	The Defects Liability Period is 12 months .
1.1.1.14	The time for achieving Practical Completion is 4 months , inclusive of the 14-day period referred to in Clause 5.3.2 below, and inclusive of non-working days referred to in Clause 5.8.1 below, but exclusive of special non-working days (Clause 5.8.1).
1.1.1.15	The name of the Employer is Independent Development Trust
1.1.1.16	The name of the Employer's Agent is Bosch Projects (Pty) Ltd.
1.1.1.35	"Drawings" means all drawings, calculations and technical information forming part of the Contract Documents and any modifications thereof or additions thereto from time to time approved in writing by the Employer's Agent or delivered to the Contractor by the Employer's Agent.
1.1.1.36	Letter of Notification means the letters of formal notification, signed by the Employer, of the decision of the Supply Chain Management Bid Adjudication Committee sent to all tenderers. The notification of the decision does not form part of the Employer's Acceptance of the successful tenderer's Offer and no rights shall accrue.
1.2.1	DELIVERY OF NOTICES The following three additional sub-clauses, covering alternative methods of communication, apply:
1.2.1.3	Sent by facsimile or email during office hours or otherwise.
1.2.1.4	Posted to the addressee for certified delivery by the postal Authorities.
1.2.1.5	Delivered by a courier service and signed by addressee.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

Clause	Data										
1.2.1.2	The Employer's address for receipt of communications is: <table> <tr> <td>Physical address:</td><td>Postal address:</td></tr> <tr> <td>Palm Square Business Park</td><td>P O Box 2679</td></tr> <tr> <td>Silverwood House</td><td>Beacon Bay</td></tr> <tr> <td>Beacon Bay</td><td>East London</td></tr> <tr> <td>5241</td><td>5241</td></tr> </table> Telephone No: (043 711 6000) Fax No: (043) 748 5370 Email: GregA@idt.org.za	Physical address:	Postal address:	Palm Square Business Park	P O Box 2679	Silverwood House	Beacon Bay	Beacon Bay	East London	5241	5241
Physical address:	Postal address:										
Palm Square Business Park	P O Box 2679										
Silverwood House	Beacon Bay										
Beacon Bay	East London										
5241	5241										
1.2.1.2	The Employer's Agent's address for receipt of communications is: <table> <tr> <td colspan="2">Bosch Projects (Pty) Ltd</td></tr> <tr> <td>Physical address:</td><td>Postal address:</td></tr> <tr> <td>57 Western Avenue</td><td>PO Box 13530</td></tr> <tr> <td>Vincent</td><td>East London</td></tr> <tr> <td>East London, 5247</td><td>5217</td></tr> </table> Telephone No: (043) 721 1717 Fax No: (043) 721 1719 Email: naudea@boschprojects.co.za / mdutyulwas@boschprojects.co.za	Bosch Projects (Pty) Ltd		Physical address:	Postal address:	57 Western Avenue	PO Box 13530	Vincent	East London	East London, 5247	5217
Bosch Projects (Pty) Ltd											
Physical address:	Postal address:										
57 Western Avenue	PO Box 13530										
Vincent	East London										
East London, 5247	5217										
2.1.4	The following additional clause applies:- "Without limiting the generality of the afore going, the Schedule of Rates and Prices shall include : (a) The provision and use of all labour, plant, tools instruments, templates, materials, transport and all other appliances that may be required for satisfactorily protecting and efficiently carrying out the works without interruption or delay. (b) The provision and housing of adequate staff and labour force and the provision of false work of every kind and description necessary for the due and proper performance of the Contract. (c) The execution of the Works in orderly and progressive manner until it has been completed. Time being of the essence of the Contract the progressive development of the Works shall be arranged so that the time from the start to the finish of the construction of the said Works shall not exceed the time laid down in the Tender. (d) The inclusion in the tendered rates for all and any of the general liabilities such as Establishment Charges, legal contingencies, regulations, risks or damage, Royalties and all other overhead charges. The submission of a tender shall be considered prima facie evidence that the Contractor has complied with the requirements of this clause and has satisfied himself as to all circumstances and local conditions which may influence or affect his Tender."										

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

Clause	Data
2.4.3	The following additional clause applies:- In the event of any discrepancy or conflict between any parts of the Contract Documents, the order of precedence shall be as follows: 1. Project Specifications 2. Special Conditions of Contract 3. General Conditions of Contract 4. Conditions of Tender 5. Standardised/Particular Specifications 6. Contract Drawings 7. Schedule of Quantities
3.1.3	The Employer's Agent shall obtain the specific approval of the Employer before executing any of his functions or duties according to the following Clauses of the General Conditions of Contract: 1. Clause 3.2.1 Nomination of Employer's Agent's Representative 2. Clause 3.2.4 Employer's Agent's authority to delegate 3. Clause 5.8.1 Non-working times 4. Clause 5.11.1 Suspension of the Works 5. Clause 5.12.4 Acceleration instead of extension of time
4.5.2	The Occupational Health and Safety Act (Act No. 85 and Amendment Act No. 181) of 1993 and Construction Regulations 2003 will in all respects be applicable to this contract and the Contractor, as Mandatory in terms of clause 1(1) (xxviii) of the Act, shall assume full responsibility for compliance with the Act and the Regulations." (See Clause 5.2 in Part 5 of the Contract).
5.3.1	The documentation required before commencement with the Works Instruction is issued are: 1 Approved Works Permit (In terms with Construction Regulations, 2014, Reg 3 and 5) 2 Initial programme (Refer to Clause 5.6) 3 Security (Refer to Clause 6.2) 4 Insurance (Refer to Clause 8.6) 5 Letter of Good Standing from the Compensation Commissioner (if not insured with a Licensed Compensation Insurer)
5.3.2	The time to submit the documentation required in points 2 to 5 in Clause 5.3.1 above (excluding the approved Works Permit) is 14 days before commencement with the Works.
5.4.3	The Contractor shall bear all costs and charges for special and temporary rights of way required by him in connection with access to the Site.
5.5.1	The Works shall be completed within Four Months.
5.6.1	The Contractor shall deliver his <u>programme of work within 14 days</u> from the Commencement Date.
5.8.1	The non-working days are Sundays. The special non-working days are: (1) All gazetted public holidays falling outside the year end break. (2) The year end break commencing after the 15 December and ending after the first Monday after the 3rd of January.
5.13.1	The penalty for failing to complete the Works is <u>0.1% of the contract value</u> per day.

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

Clause	Data
5.14.5.2	The Defects Liability Period is 12 months measured from the date of the Certificates of Completion.
5.16.3	The latent defect period is 10 years.
6.2.1	The Contractor shall deliver to the Engineer, as part of the documentation required commencement with the Works execution in accordance with Clause 5.3.1, at his cost, the type of security for the due performance of the Contract, as selected in the Contract Data.
6.2.2	If the Contractor fails to select the security to be provided or if the Contractor fails to provide the selected security within the time period stated in Clause 5.3.2, or if the performance guarantee shall differ substantially from the pro forma, it shall be deemed that the Contractor has selected a security of 10 per cent retention of the value of the Works.
6.5.1.2.3	The percentage allowances to cover overhead charges for daywork are as follows: • 15% of the gross remuneration of workmen and foremen actually engaged in the daywork; • 15% on the net cost of materials actually used
6.10.1.5	No allowance will be made for work done, or for materials and equipment for which daywork rates have been quoted at tender stage.
6.10.3	The percentage retention on amounts due to the contractor is 10% and the limit on retention is 5% of the Contract Price.
8.2.1	From the date of the on which the Site is handed over to the Contractor to the date of the issue of a Certificate of Completion, the Contractor shall take full responsibility for the care of the Works and of all Plant intended for incorporation into the Works and materials on site intended for incorporation into the Works; Provided that, if in terms of Clause 5.14.7 the Engineer shall issue a Certificate of Completion in respect of any part of the Works, the Contractor shall cease to be responsible for the care of such part and responsibility therefor shall pass to the Employer.
8.6.1	Insurance to be effected by Contractor.
8.6.1.1.2	The value of plant and materials supplied by the Employer to be included in the insurance sum is NIL
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is Nil
8.6.1.2	Special risk insurance issued by SASRIA is required.
8.6.1.3	The limit of indemnity for liability insurance is R 2 000 000.00

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

Clause	Data
10.5.3	1. The Adjudicator shall be paid at the negotiated hourly rate in respect of all time spent upon or in connection with the adjudication including time spent travelling. 2. The Adjudicator shall be reimbursed in respect of all disbursements properly made including, but not restrict to: (a) Printing, reproduction and purchase of documents, drawings, maps, records and photographs (b) Telegrams, telex, faxes and telephone calls (c) Postage and similar delivery charges (d) Travelling, hotel expenses and other similar disbursements (e) Room charges (f) Charges for legal or technical advice obtained in accordance with the Procedure 3. The Adjudicator shall be paid an appointment fee of R7,500.00. This fee shall become payable in equal amounts by each Party within 14 days of the appointment of the Adjudicator, subject to an Invoice being provided. This fee will be deducted from the final statement of any sums which shall become payable under item 1 and/or item 2 of the Contract Data. If the final statement is less than the appointment fee the balance shall be refunded to the Parties. 4. The Adjudicator is currently registered for VAT. 5. Where the Adjudicator is registered for VAT it shall be charged additionally in accordance with the rates current at the date of invoice. 6. All payments other than the appointment fee (item 3) shall become due 14 days after receipt of invoice thereafter interest shall be payable at 5% per annum above the Reserve Bank base rate for every day the amount remains outstanding.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

Part 2: Data provided by the Contractor

The contractor is advised to read *The General Conditions of Contract for Construction Works, Third Edition, 2015* published by the South African institution of civil engineering, Private Bag X200, Halfway House, 1685, in order to understand the implications of this data which is required to be completed. Copies of these conditions of contract may be obtained from www.saice.org.za

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

Clause	Data										
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: e-mail:										
1.1.1.14	The time for achieving Practical Completion is as stipulated in Clause 1.1.1.14 under Part 1: Data provided by the Employer										
6.2.1	The security to be provided by the Contractor shall be: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Type of security</th><th>Contractor's Choice. Indicate "Yes" or "No"</th></tr> </thead> <tbody> <tr> <td>Cash Deposit of 10% of the Contract Sum</td><td></td></tr> <tr> <td>Performance Guarantee of 10% of the Contract Sum</td><td></td></tr> <tr> <td>Cash deposit of 10% of the Contract Sum plus retention of 5% of the value of the Works.</td><td></td></tr> <tr> <td>Performance guarantee of 10% of the Contract Sum plus retention of 5% of the value of the Works.</td><td></td></tr> </tbody> </table>	Type of security	Contractor's Choice. Indicate "Yes" or "No"	Cash Deposit of 10% of the Contract Sum		Performance Guarantee of 10% of the Contract Sum		Cash deposit of 10% of the Contract Sum plus retention of 5% of the value of the Works.		Performance guarantee of 10% of the Contract Sum plus retention of 5% of the value of the Works.	
Type of security	Contractor's Choice. Indicate "Yes" or "No"										
Cash Deposit of 10% of the Contract Sum											
Performance Guarantee of 10% of the Contract Sum											
Cash deposit of 10% of the Contract Sum plus retention of 5% of the value of the Works.											
Performance guarantee of 10% of the Contract Sum plus retention of 5% of the value of the Works.											
6.5.1.2.3	The percentage allowance to cover overhead charges is%.										
Clause	Data										
6.8.3	The variation in cost of special materials is:										

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

	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	
*State unit in appropriate column ++ When called upon to do so, the contractor shall substantiate the above rates or prices with acceptable documentary evidence from the supplier.				

C1.3 Performance Guarantee

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

C1.3 PERFORMANCE GUARANTEE

The performance guarantee is to contain the wording of the pro-forma document included in ***The General Conditions of Contract for Construction Works***, published by the South African institution of civil engineering. Copies of these conditions of contract may be obtained from the South African institution of Civil Engineering, Private Bag x200, Halfway House, 1685, at www.saice.org.za

Herewith a copy of the pro-forma document.

PERFORMANCE GUARANTEE

For use with the General Conditions of Contract for Construction Works, 2015:

GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical Address:

“Employer” means:

“Contractor” means:

“Employer’s Agent” means:

“Works” means:

“Site” means:

“Contract” means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

“Contract Sum” means: The accepted amount inclusive of tax of R

Amount in words:

.....

“Guaranteed Sum” means: The maximum aggregate amount of R

Amount in words:

.....

“Expiry Date” means: at the issue of the Completion Certificate.

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

CONTRACT DETAILS

Employer's Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

1. FIXED PERFORMANCE GUARANTEE

- 1.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 1.2 The Guarantor's period of liability shall be from and including the date on which the Performance Guarantee is signed, up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, or the date of payment in full of the Guaranteed Sum, whichever occurs first.
- 1.3 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

2. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

- 2.1 The Guarantor hereby acknowledges that:
 - 2.1.1 Any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship.
 - 2.1.2 Its obligation under this Performance Guarantee is restricted to the payment of money.
- 2.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:
 - 2.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;
 - 2.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;
 - 2.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.
- 2.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:
 - 2.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or
 - 2.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 3.3; and
 - 2.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 2.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
- 2.5 Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

- 2.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
- 2.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
- 2.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may consider fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
- 2.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
- 2.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
- 2.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
- 2.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrates' Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

Date

Guarantor's signatory (1)

Capacity

Guarantor's signatory (2)

Capacity

Witness signatory (1)

Witness signatory (2)

**C1.4 : AGREEMENT IN TERMS OF SECTION 37(2) OF THE
OCCUPATIONAL HEALTH AND SAFETY ACT (ACT NO. 85 OF 1993)**

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

**C1.4 AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH
AND SAFETY ACT (ACT NO. 85 OF 1993)**

THIS **AGREEMENT** made between:

.....
(hereinafter referred to as “the Employer”) of the one part, herein represented by:

.....
in his capacity as

AND:

.....
(hereinafter referred to as “the Mandatory”) of the other part, herein represented by:

.....
In his capacity as

.....
and being duly authorized to act as Mandatory on behalf of the Contractor; WHEREAS the Employer is desirous that certain works be constructed, viz

TENDER NO: DoEEC/13/2021

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

and has accepted a tender by the Mandatory for the construction, completion and defects correction of such works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the contract documents pertaining to this Contract.
2. This Agreement shall hold good from its commencement date, which shall be the date on which the site is handed over to the Mandatory by an order in writing from the Employer's Agent, to either:
 - (a) The date of the final certificate issued in terms of **clause 5.16.1 of the General Conditions of Contract 2015** (hereinafter referred to as “the GCC”), as applicable to this Contract, or
 - (b) The date of termination of the contract in terms of **clause 9** of the GCC.
3. The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as “The Act”, together with its amendments and with special reference to the following Sections of The Act:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

-
- | | | |
|-------|-------------------|--|
| (i) | Section 8: | General duties of employers to their employees; |
| (ii) | Section 9: | General duties of employers and self-employed persons to persons other than employees; |
| (iii) | Section 37: | Acts or omissions by employees or mandatories; and |
| (iv) | Sub-section 37(2) | relating to the purpose and meaning of this Agreement. |

(b) The procedure and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.

4. In addition to the requirements of Clause 6.3 of the General Conditions of Contract and all relevant requirements of the Contract, the Mandatory agrees to execute all the works forming part of this Contract and to operate and utilize all machinery, plant and equipment in accordance with the Act.
5. The Mandatory is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.

In witness thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

At For and on behalf of the **EMPLOYER** on

this the day of20.....

SIGNATURE:

CAPACITY:

As witnesses:

Witness 1

Signature:.....Date.....

Name:.....

Witness 2

Signature:.....Date.....

Name:.....

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

NAMES: (1)

.....

(2)

.....

At for and on behalf of the **MANDATORY** on
this the day of20.....

SIGNATURE:

CAPACITY:

As witnesses:

Witness 1

Signature:.....Date.....

Name:.....

Witness 2

Signature:.....Date.....

Name:.....

C1.5 ADJUDICATION BOARD MEMBER AGREEMENT

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

C1.5 ADJUDICATION BOARD MEMBER AGREEMENT

This **Agreement** is entered into between:

.....
Adjudication Board Member: (Name)

physical address: *postal address:*

.....

.....

e-mail address:

telephone number and mobile number:

.....
Contractor: (Name)

physical address: *postal address:*

.....

.....

e-mail address:

telephone number and mobile number:

.....
Employer: (Name)

physical address: *postal address:*

.....

.....

e-mail address:

telephone number and mobile number:

The Contractor and the Employer will hereinafter be collectively referred to as the Parties.

The Parties entered into a Contract for **ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI) COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION: CLUSTER: 3E – MNGENI SPS**

which provides that a dispute under or in connection with the General Conditions of Contract for Construction Works, Third Edition (2015) must be referred to (*ad-hoc adjudication/standing adjudication*).

The undersigned natural person has been appointed to serve as Adjudication Board Member and together with the undersigned Parties agree as follows:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

1. The Adjudication Board Member accepts to perform his duties in accordance with the terms of the Contract, the General Conditions of Contract for Construction Works' Adjudication Board Rules and this Agreement.
2. The Adjudicator undertakes to remain independent and impartial of the Contractor, Employer and Employer's Agent for the duration of the Adjudication Board proceedings.
3. The Adjudication Board Member agrees to serve for the duration of the Adjudication Board proceedings.
4. The Parties may at any time, without cause and with immediate effect, jointly terminate this Agreement.
5. Unless the Parties agree, the Adjudication Board Member shall not act as arbitrator or representative of either Party in any subsequent proceedings between the Parties under the Contract. No Party may call the Adjudication Board Member as a witness in any such subsequent proceedings.
6. The standing Adjudication Board's duties shall end upon the Adjudication Board Member(s) receiving notice from the Parties of their joint decision to disband the Adjudication Board.
7. The Adjudication Board Member shall be paid in respect of time spent upon or in connection with the adjudication including time spent traveling:
 - 7.1 A monthly retainer of R..... for..... months, and/or
 - 7.2 A daily fee of R.....based on ahour day, and/or
 - 7.3 An hourly fee of R.....and/or
 - 7.4 A non-recurrent appointment fee of R..... which shall be accounted for in the final sums payable.
8. The Adjudication Board Member's expenses incurred in adjudication work shall be reimbursed at cost.

On submission of an invoice for fees and expenses to the Parties, the Parties shall pay the full amount within 28 days of receipt of the invoice. Late payment of such invoice shall attract interest at prime plus 3% points compounded monthly at the prime rate charged by the Adjudication Board Member's bank.

This Agreement is entered into by:

CONTRACTOR

Contractor's signature:

Contractor's name:

Place:

Date:

-and –

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**

EMPLOYER

Employer's signature:

Employer's name:

Place:

Date:

-and-

ADJUDICATION BOARD MEMBER

Adjudication Board Member's signature:

Adjudication Board Member's name:

Place:

Date:

C1.6 IDT BENEFICIARY RECONCILIATION FORM (BRF)

A : Project Information	 	
	Programme Name _____ Programme Number _____ Month _____ Year _____ Project Name _____ Project Number _____ Site name (if applicable) _____	
	<u>Contractor Stamp/Logo</u>	
B : Accountability	<u>CONTRACTOR REPRESENTATIVE</u> Name _____ Please print Name and Surname Sign _____ Date _____	
	<u>IDT REPRESENTATIVE</u> Name _____ Please print Name and Surname Sign _____ Date _____	

C : Beneficiary Information	No.	Name	Surname	Gender	New	ID Number								RSA ID	OTHER	No. of Days Worked	Signature
	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
	9																
	10																
	11																
	12																
	13																
	14																
PAGE 1	Please print Name and Surname				Tick	Please insert 13-digit ID								Please Tick		Please print	

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021**



PART C2 : PRICING DATA

C2.1 Pricing Instructions

C2.1 PRICING INSTRUCTIONS

1. The Conditions of Contract, the Contract Data, the Specifications (including the Project Specifications) and the Drawings shall be read in conjunction with the Bill of Quantities.
2. The Bill comprises items covering the Contractor's profit and costs of general liabilities and of the construction of Temporary and Permanent Works

Although the Bidder is at liberty to insert a rate of his own choosing for each item in the Bill, he should note the fact that the Contractor is entitled, under various circumstances, to payment for additional work carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the Contractor inserted in the Bill. Clause 8 of each Standardized Specification, and the measurement and payment clause of each Particular Specification, read together with the relevant clauses of the Project Specifications, all set out which ancillary or associated activities are included in the rates for the specified operations.

3. Measurement and payment shall be in accordance with the relevant provisions of clause 8 of each of the SANS 1200 Standardised 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 SANS 1200-A, General.

Descriptions in the Bills of Quantities are abbreviated and comply generally with those in the SANS 1200 Standardised Specifications.

4. Descriptions in the Bill of Quantities are abbreviated and may differ from those in the Standardized and Project Specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. The Bill has been drawn up generally in accordance with the latest issue of Civil Engineering Quantities. Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bill or, when relevant, to the Civil Engineering Quantities, the requirement of the appropriate Standardized, Project, or Particular Specification as the case may be, shall prevail.
5. Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.
6. The amounts and rates to be inserted in the Bill of Quantities shall be the full inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Bid is based.
7. An amount or rate shall be entered against each item in the Bill of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bill.

The Bidder shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

consequently given in the quantity column, the bided rates shall apply should work under these items actually be required.

Should the Bidder group a number of items together and bid one sum for such group of items, the single bided sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil.

The bided rates, prices and sums shall, subject only to the provisions of the Conditions of Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.

8. The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bill of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bill of Quantities and the quantities certified for payment. Ordering of materials is not to be based on the Bill of Quantities.
9. For the purposes of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:
 - a. Unit: The unit of measurement for each item of work as defined in the Standardized, Project or Particular Specifications
 - b. Quantity: The number of units of work for each item
 - c. Rate: The payment per unit of work at which the Bidder bids to do the work
 - d. Amount: The quantity of an item multiplied by the bided rate of the (same) item
 - e. Sum: An amount bided for an item, the extent of which is described in the Bill of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units
10. The units of measurement indicated in the Bill of Quantities are metric units. The following abbreviations may appear in the Bill of Quantities:

mm	=	millimetre
m	=	metre
km	=	kilometre
km-pass	=	kilometre-pass
m ²	=	square metre
m ² -pass	=	square metre-pass
h	=	hour
ha	=	hectare
m ³	=	cubic metre
m ³ -km	=	cubic metre-kilometre
kW	=	kilowatt
kN	=	kilonewton
l	=	litre
kl	=	kilolitre
kPa	=	kilopascal
MPa	=	megapascal
No	=	number
kg	=	kilogram

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS
TENDER NO: DoEEC/13/2021

t	=	ton (1 000 kg)
W/day	=	Work Day
%	=	percent
PC Sum	=	Prime Cost Sum
Prov Sum	=	Provisional Sum

11. The cost of all samples and tests as may be required to ascertain and check the quality of materials and workmanship or any part of the works are deemed to be included in the relevant rates in the Bill of Quantities. The Contractor shall at his/her own expense take levels and prepare cross sections as required for the measurement and computation of excavation and fill quantities etc.
12. Value Added Tax (VAT) shall not be included in the individual rates but is to be added as a total at the end of the summary.
13. All materials to be provided by the Contractor will be SANS, ISO or JASWIC approved where such a specification exists, whether specifically stated in the schedule or not.
14. Where a particular make of item is specified, the words “or similar approved” shall mean approval by the Engineer in writing.

C2.2 BILLS OF QUANTITIES

C2.2 BILLS OF QUANTITIES

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A	SABS 1200A	SECTION A : PRELIMINARY AND GENERAL				
A1	8.3	FIXED CHARGED ITEMS				
A1.1	8.3.1	Contractual Requirements	Sum	1		
A1.2	8.3.2	Establish Facilities on the Site:	Sum	1		
	8.3.2.1	Facilities for Engineer (SABS 1200 AB) :				
A1.3		a) Nameboard (1No.)	Sum	1		
	8.3.2.2	a) Facilities for Contractor				
A1.4		Offices and storage sheds	Sum	1		
A1.5		Workshop	Sum	1		
A1.6		Plant	Sum	1		
A1.7		Ablution and latrine facilities	Sum	1		
A1.8		Tools and equipment	Sum	1		
A1.9		Water supplies, electric power and communications	Sum	1		
A1.10		Dealing with water (Subclause 5.5)	Sum	1		
A1.11		Access (Subclause 5.8)	Sum	1		
A1.12	8.3.3	Other fixed-charged obligations	Sum	1		
A2	8.4	TIME-RELATED ITEMS				
A2.1	8.4.1	Contractual Requirements	Months	4		
A2.2	8.4.2	Operate and maintain facilities on the Site for duration of construction, except where otherwise stated:	Months	4		
A2.2.1	8.4.2.1	Facilities for Engineer :	Months	4		
	8.4.2.2	Facilities for Contractor :				
A2.2.2		a) Offices and storage sheds	Months	4		
A2.2.3		b) Workshops	Months	4		
A2.2.4		c) Laboratories	Months	4		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
A2.2.5		d) Living accommodation	Months	4		
A2.2.6		e) Ablution and latrine facilities	Months	4		
A2.2.7		f) Tools and equipment	Months	4		
A2.2.8		g) Water supplies, electric power and communications	Months	4		
A2.2.9		h) Dealing with water (Subclause 5.5)	Months	4		
A2.2.10	8.3.4	Remove Contractor's Site establishment on completion	Sum	1		
A2.2.11	8.4.3	Supervision	Months	4		
A2.2.11.1	8.4.3	C.L.O	Months	4	R 5,000.00	R 25,000.00
A2.211.2	8.4.3	Inservice-Trainee Technician	Months	4	R 6,500.00	R 32,500.00
A3	ANNEX B	Occupational Health & Safety Obligations (Annex B BOQ Section 1:OHS) Compilation and submission of Health & Safety Plan for approval by the client	Sum	1		
A3.3.1		Preparation of the Contractor's site-specific Health and Safety Plan & Risk Assessment	Sum	1		
A3.3.2		Principal Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Sum	1		
A3.3.3		Provision of Personal Protective Equipment (PPE)	Sum	1		
A3.3.4		Cost of medical certificates and medical surveillance	Sum	1		
Carried forward						

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A3.3.5	ANNEX B	Induction training	No	1		
A3.3.6		Provision of First Aid Boxes to GSR requirements	No	1		
A3.2		Occupational Health & Safety Obligations for COVID-19 (Annex B BOQ Section 2:COVID-19)				
A3.2.1		Update of the Contractor's site specific COVID-19 Health and Safety Plan	Sum	1		
A3.2.2		Principal Contractor's initial obligations in respect of the COVID-19 Workplace Regulations and COVID-19 Construction Sector Regulations	Sum	1		
A3.2.3		Provision of Personal Protective Equipment (PPE)	Sum	1		
A3.2.4		Cost of medical certificates and medical surveillance	Sum	1		
A3.2.5		Initial (baseline) medical examinations (quantity to be aligned with risk assessment and scaling in employment)	Sum	1		
A3.2.6		Periodic and exit examinations (quantity to be aligned with risk assessment and scaling in employment)	Sum	1		
A3.2.7		Supply and fix COVID-19 signs	Sum	1		
A3.2.8		Cleaning materials and Hand sanitizers	Sum	1		
A3.2.9		Other COVID-19 requirements not mentioned above	Sum	1		
A3.2.10		Principal Contractor's initial obligations in respect of the COVID-19 Workplace Regulations and COVID-19 Construction Sector Regulations	Sum	1		
A3.2.11		Separate office (16m2) with windows and a door for use by COVID-19 Compliance Officer	Sum	1		

C2.2 BILLS OF QUANTITIES

		including electricity connection and supply				
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A3.3		j) Compliance with Construction Regulations (OHS Act) and COVID-19 regulations				
		Comply with Health and Safety Requirements including COVID-19 regulations for the duration of the contract				
A3.3.1		Monthly disinfection of facilities	Month	4		
A3.3.2		Supply and upkeep of hand sanitizer dispensers and consumables (paper towel)	Month	4		
A3.3.3		COVID-19 Compliance Officer (In Addition to H&S Officer) Provision of a full time COVID-19 Compliance Officer (Anticipated Period)	Month	4		
A3.3.4		Principal Contractor's time related obligations in respect of the COVID-19 Workplace Regulations (Anticipated Period)	Month	4		
Carried forward						

C2.2 BILLS OF QUANTITIES

SEE PAGE 57 FOR NOTES

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFER S	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A3.3.5	ANN EX D	Principal Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations	Month	4		
A3.3.6		Provision of a full time Construction Health and Safety Officer (SACPCMP Registered)	Month	4		
A3.3.7		Weekly COVID-19 toolbox talks	Month	4		
A3.3.8		Provision and upkeep of infrared handheld thermometer	Month	4		
A3.3.4		k) Compliance with requirements of the Environmental Regulations				
A3.3.1		1. Attend to all matters relating to the implementation and compliance with the environmental regulations for the project except where separately specified.	Sum	1		
A3.3.2		2. Marking out of project work sites.	Sum	1		
A3.3.3		3. Provision of firefighting equipment.	Sum	1		
A3.3.4		4. Provision of spill control equipment.	Sum	1		
A3.3.5		5. Provision and appointment of an Environmental Control Officer for the site and carrying out of audits at fortnightly intervals and reporting at monthly meetings.	Sum	1		
Carried forward						

SECTION A : PRELIMINARY AND GENERAL						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
A3.4		Compliance with requirements of the Environmental Regulations				
A3.4.1		1. Providing information and Method Statements as directed by the Project Environmental Control Officer (PECO) or Engineer.	each	1		
A3.4.2		2. Provision of specific seed mix and application to areas for application as directed by the PECO or Engineer.	kg	1		
A3.4.3		3. Provision of training to contract staff on environmental compliance.	Sum	1		
A3.5		Compliance with SANS 1921 - 6 Part 6 HIV/AIDS Awareness.				
A3.5.1		Conduct HIV/AIDS Awareness Programme on site for not less than 90% of the workers inclusive of all direct and indirect costs.	Sum	1		
A3.5.2		Provide and maintain condom dispenser.	No.	1		
A3.5.3		Provide and maintain HIV/AIDS awareness posters.	No.	1		
A3.5.4		Provide information regarding the voluntary testing of construction workers, and counselling, support and care.	Sum	1		

C2.2 BILLS OF QUANTITIES

A3.6		Compliance with SANS 1921 - 6 Part 6 HIV/AIDS Awareness.				
A3.6.1		Conduct HIV/AIDS Awareness Programme on site for not less than 90% of the workers inclusive of all direct and indirect costs.	Sum	1		
A3.6.2		Provide and maintain condom dispenser.	No.	1		
A3.6.3		Provide and maintain HIV/AIDS awareness posters.	No.	1		
A3.6.4		Provide information regarding the voluntary testing of construction workers, and counselling, support and care.	Sum	1		
	TOTAL CARRIED TO SUMMARY					

SECTION B : BULK PUMPING MAIN						
ITEM NO.	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
B	SANS 1200 DB (PSDB)	SECTION B : BULK PUMPING MAIN				
B1	8.3.1 a)	SITE CLEARANCE				
B1.1	8.3.1 a)	Clear vegetation and trees of girth up to 1m to a width of 3m	m	190		
B1.2	8.3.1 c)	Remove topsoil to a depth of 100mm on pipeline route, stockpile, maintain and reinstate.	m ²	20		
		EXCAVATION				
	8.3.2	Excavate in all materials for trenches and dispose of surplus/unsuitable material, for trench depth:				
B1.3		Exceeding 0.00m but not exceeding 1.0m.	m ³	20		
		BACKFILL				
B1.4		Backfill and compact by hand (Labour intensive Construction) in all materials for pipes up to including 50mmØ	m ³	20		
		MEDIUM PRESSURE PIPELINES				
B1.5		Supply ,handle, lay and bed joint with couplings and disinfect				
B1.5.1		50mmØ HDPE	m	190		
B1.2		Supply and install all fittings, fix and make good all leakages.	Sum	1		
		Pressure test				
B1.3		Pressure test	No	1		
B1.4		CONCRETE				
B1.4.1		Concrete Testing	m3	1		
B3		Connect to Municipal Main				
B3.1		Connect to municipal pipeline, include excavations, backfill, compaction, fittings, valves, pressure test and laying 50mmØ HDPE up to max. length 500m	Psum	1	100,000.00	100,000.00
TOTAL CARRIED TO SUMMARY						

SECTION C : RETICULATION AND FITTINGS						
ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C1	SANS 1200 DB (PSDB)	SECTION C : RETICULATION AND FITTINGS EARTHWORKS (PIPE TRENCHES)				
C1.1	8.3.1	Site clearance and removal of topsoil				
C1.1.1	8.3.1(c)	Remove topsoil to nominal depth of 150mm, stockpile and maintain	m ²	200		
C1.2.2		Replace topsoil and local grasses in accordance with the Environmental Specifications	m ²	200		
C1.2		Excavation				
C1.2.1	8.3.2(a)	Excavate in all materials for pipe trenches, backfill, compact, and dispose of surplus material for:				
C1.2.1.1		Pipes not exceeding 63mm NB Exceeding 0.0 m but not exceeding 0.8m	m	200		
C1.2.1.2		Exceeding 0.8 m but not exceeding 1.5 m	m			
C1.2.2.3		Pipes 75 to 110mm NB Exceeding 0.0 m but not exceeding 0.8m	m	0		
C1.2.2.4		Exceeding 0.8 m but not exceeding 1.5 m	m	0		
C1.2.2	8.3.2(b)	Extra-over items 2.1 above for:				
C1.2.3.1		1) Intermediate excavation	m ³	10		
C1.2.3.2		2) Hard rock excavation	m ³	10		
C1.2.3	8.3.2(c)	Excavate and dispose of unsuitable material from trench bottom (provisional)	m ³	12		
C1.3	8.3.3	Excavation Ancillaries				
C1.3.1	8.3.3.1	Make up deficiency in back-fill material (Provisional)	m ³	20		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION C : RETICULATION AND FITTINGS						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
C1.3.2	8.3.3.3	Compaction in road reserves	m ³	10		
C1.3.3	8.3.3.4	Overhaul on material hauled in excess of 1.0km (approved by Engineer).	m ³ k m			
C1.4	8.3.5	Existing Services that Intersect or Adjoin a Pipe Trench				
C1.4.1	8.3.5 a)	Existing Services that Intersect a trench	No.	1		
C1.4.2	8.3.5 b)	Existing Services that Adjoin the Pipe Trench	m	5		
C1.5	8.3.6	Finishing				
	8.3.6.1(a)	Reinstate road surfaces complete with all courses				
C1.5.1.		(a) Gravel surfacing	m ²	5		
C2	SANS 1200 L (PSL)	MEDIUM PRESSURE PIPELINES				
C2.1		Supply, lay and bed HDPE pipes complete, including appropriate couplings and disinfect for :				
C2.1.1		50 mm NB Class10 HDPE pipe	m	100		
C2.1.2		32 mm NB Class10 HDPE pipe	m	0		
C2.1.3		25 mm NB Class10 HDPE pipe	m	100		
C2.2		Extra over item C2.1 above for supply, delivery and installation of compression type fittings for use with HDPE piping :				
C2.1.1		50 mm NB Class10 HDPE pipe	m	100		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION C : RETICULATION AND FITTINGS						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
C2.1.2		25 mm NB Class10 HDPE pipe	m	100		
C2.2		Extra over item C2.1 above for supply, delivery and installation of compression type fittings for use with HDPE piping :				
		Reducing Couplings :				
C2.2.1		50 - 25 mm	No.	1		
C2.2.2		Equal Tee's : 50 mm	No.	3		
C2.2.3		25 mm	No.	2		
C2.3	8.2.3	Extra over item C2.1 above for Supply, Fixing and Bedding of Valves complete (chambers measured elsewhere)				
C2.3.1		Chromium plated ball valve complete with couplings and a lever for operation: 25 mm diameter Class 9	No.	4		
C2.3.3		Isolating valve: 50mm NB PN16 brass gate valve complete with 2x 2" Male Adapters:	No.	2		
C2.4	8.2.11 (b)	Anchor / thrust blocks and pedestals				
C2.4.1		20/19 concrete	m ³	2		
C2.4.2		Formwork	m ³	2		
C2.5	8.2.13	Valve chambers complete for :				
C2.5.1		Isolating Valves	No.	2		
C3	SANS 1200 LB (PSLB)	BEDDING (PIPES)				
C3.1	8.2.1	Provision of bedding from trench excavation:				
Carried forward						
SECTION C : RETICULATION AND FITTINGS						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						

C2.2 BILLS OF QUANTITIES

C3.1.2		b) Selected fill blanket material up to 300mm above pipe	m ³	42		
C3.2	8.2.2	Provision of imported bedding from:				
C3.2.1		a) Selected fill material	m ³	15		
C.4		STORAGE RESERVOIR				
	SANS 1200 DA (PSD)	EARTHWORKS				
C4.1	8.3.1	a) Remove topsoil to nominal depth of 150mm, stockpile and maintain.	m ²	7		
C4.2		b) Excavate in all materials and use for embankment or backfill or dispose of as ordered for reservoir foundations.	m ³	2		
C4.3	8.3.6	Replace topsoil as instructed by Engineer	m ²	7		
C6		ELECTRICAL				
C6.1		Supply and install (in accordance with manufacturer's instructions) 1 No. single float, weighted ball MiniMatic float valve (with changeover) to storage reservoir.	No.	1		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION C : RETICULATION AND FITTINGS						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
C6.2		Electrical control panel: Supply, deliver and install waterproof IP66 compliant electrical Control Panel, complete with incoming power supply isolator and float switch controls. Rate to include supply and installation of a 15A MCB at source DB	No.	1		
C6.3		Galvanised conduit: Supply, deliver and install 19mm dia. galvanised conduit from overflow of storage reservoir to control panel, including glands, locknuts, couplings, saddles, etc.	m	6		
C6.4		Low voltage cables: Supply, deliver and install 4.0mm ² PVC 2-core underground armoured cable. (Rate to include for installation in ducts, trenches, etc. - excavations measured elsewhere)	m	190		
C6.5		Control cabling: Supply, deliver and install of 0.75mm ² cable, including all fastening materials, lugs, etc	m	6		
C6.6		Low voltage terminations: Supply, deliver and install cable terminations, including all fastening materials, glands (metallic for power supply and compression for control), shrouds, lugs, insulating materials, etc for:				
C6.6.1		Power supply cabling C6.4	No.	2		
C.7		MISCELLANEOUS				
C.7.1		STANDPIPES. Standpipes tap new including valve @chamber DWG 6035/54/008	No.	2		
C.7.2		Drainage trench complete as per drawing 6035/045/008	No.	2		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION C : RETICULATION AND FITTINGS						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
C.7.3		Supply and install Aqualoc Monobox or equal approved, with flow restrictor/valve	No.	2		
C.7.4		Supply Aqualoc Service set, complete with all fittings	no.	2		
C.7.5		Pressure test and sterilize reticulation	No	1		
TOTAL CARRIED TO SUMMARY						

C2.2 BILLS OF QUANTITIES

SECTION D : ELEVATED WATER TANK						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
D1	SANS 1200 D (PSD)	ELEVATED POLYETHYLENE WATER TANK				
D1.1	8.4.4	Supply and deliver 10 000L circular water tank 2.200m diameter x 3.080m high, complete with a 40ND MGI plug fitted to opening above inlet and sufficient 4mm diameter galvanised steel wire for anchoring to the tank stand platform . Tank to be erected complete with inlet and outlet pipework and brackets, all as detailed on Drawing No. 6035/54/005	No.	1		
D1.2		Fix and make good all elevated tank stands as per Drawing No. 6035/045/005 (Including cross bracing , fixing of tank stands as per Drawing No 6035/54/005)	No.	1		
D2		Corrosion Protection				
D2.1		Remove all rust, loose paint and make good as per the original specification including application of the final coat.	No	1		
D3		RAINWATER POLYETHYLENE TANK				
D3.1	8.4.4	Erect 10 000L circular water tank 2.200m diameter x 3.080m high, complete with a 40ND MGI plug fitted to opening above inlet and sufficient 4mm diameter galvanised steel wire for anchoring to the tank stand platform. Tank to be erected complete with inlet and outlet pipework and brackets, all as detailed on Drawing No. 6035/54/005	No	1		
Carried forward						

SECTION D : ELEVATED WATER TANK						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
D3.2		Install 1x5000L circular water tank 1.810 diameter x 2.275m high, complete with tie-down wire, lid, inlet, outlet etc. Tank to be set on a 100mm thick slab reinforced with Ref.193 mesh, cast on backfilled concrete block surround of 9" blocks laid on 600x200mm deep concrete footings, including concrete gulley slab with metal outlet grating securely fixed into concrete. All constructed as detailed on Drawing No. 6035/054/007	No	2		
D4		DEMOLISH TANK BASE				
D4.1		Demolish existing tank base structure including rainwater tank gulley and related soakaway as per Drawing No 6035/054/007 and Drawing No 6035/054/017.	No	2		
D4.2		Dispose rubble material to a site comply to environmental requirements pr as ordered by engineer.	Sum	1		
D5		FIX JOJO TANKS				
D5.1		Fix existing tanks and make good tank base, complete with 6mm galvanised tie-down wire, lid, inlet, outlet, tap, down pipes etc All as Drawing No. 6035/054/004 & 020	No	2		
D6		MISCELLANEOUS				
D6.2		Soakaway, as detailed on Drawing No 6035/054/017.	m	4		
D6.3		Seamless epoxy coated aluminium rainwater gutters, etc, fixed strictly in accordance with manufacturer's instructions	m	50		
Carried forward						

C2.2 BILLS OF QUANTITIES

SECTION D : ELEVATED WATER TANK						
ITEM	PMT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
Brought forward						
D6.4		15 x 125mm "Everite" pressed fibre cement fascia board drilled and brass screwed to and including 38 x 50 x 114mm long S.A.P cleats screwed to rafter sprockets, including steel H-profile between lengths. 125mm x 85mm x 0.6mm Thick "Ogee" eaves gutter, on and including gutter brackets fixed at not exceeding 1m centres. And include removal of existing rainwater gutters and fascia boards.	m	50		
D7		CHLORINATION				
D7.1		Supply and install klorman inline chlorination including cartridges to elevated tanks according to supplier specifications.	No	1		
TOTAL CARRIED TO SUMMARY						

C2.2 BILLS OF QUANTITIES

SECTION E : BOREHOLE (SOLAR PUMP)						
ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
E	(PPSD1)	SECTION E : STORAGE TANK				
E1		Supply and install 1 x 10 000L circular water tank (2.20m diameter x 3.15m high), 19/30 concrete slab reinforced with Ref. 193 mesh cast on 150mm thick G5 base compacted to 97% Mod AASHTO, complete with 4mm galvanised tie-down wires (securely fixed to 6mm mild steel hoops cast into slab), lid, inlet and outlet pipework and fittings. all constructed as per the detail provided Dwg No. 6035/54/007	No.	1		
E2.		JETSON PUMP CAGE Supply and install lockable expanded metal cage for jetson pumps include 1,2x1,0x0,1m thick concrete slab, lockset and gate.	No	1		
E2.1		Supply, delivery and installation of Solar and pump including connection to pump with associated fittings and cables and plinth (Installation rate to include for installation in wireways, trays, ducts, trenches, excavations etc.)	Psum	1		
TOTAL CARRIED TO SUMMARY						

C2.2 BILLS OF QUANTITIES

SECTION F : FENCING						
ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
F1.1	CC	FENCING				
F1.1.2		Supply and erect 1.8m high security fencing around Elevated tank with galvanised post cast into concrete blocks as detailed on Drawing No. 6035/54/014	m	40		
F1.1.3		Supply and erect 1.8m high security fencing around Borehole pump house with galvanised post cast into concrete blocks as detailed on Drawing No. 6035/045/014	No	40		
F1.1.4		Supply and fit 1.2 m wide pedestrian gate complete with hinges, locking device, posts and padlock	No	1		
F1.2		PADLOCKS				
		Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	1		
TOTAL CARRIED TO SUMMARY						

SECTION F : DAYWORKS						
ITEM	PAYMENT REFERS	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G1		DAYWORKS				
G1.1		Labour during normal working hours				
G.1.1		Supervisor	hr	10		
G.1.2		Pipelayer	hr	10		
G1.3		Bricklayer	hr	10		
G1.4		Unskilled labour	hr	10		
G1.5		Skilled labour	hr	10		
G1.2		Plant inclusive of operator ,fuel, establishment on and removal from site :				
G1.2.1		TLB	hr	10		
G1.2.2		Tipper Truck	hr	10		
G1.2.3		Wacker	hr	10		
G1.2.4		Water tanker	hr	10		
G1.2.5		Plate compactor	hr	10		
G1.2.6		Pressure test pump	hr	10		
G1.2.7		Excavator	hr	10		
TOTAL CARRIED TO SUMMARY						

MNGENI SPS SUMMARY

SECTION	DESCRIPTION	AMOUNT (R)
A	PRELIMINARY AND GENERAL	-
B	BULK PUMPING MAIN	-
C	RETICULATION AND FITTINGS	-
D	ELEVATED WATER TANK	-
E	STORAGE TANK	-
F	FENCING	-
G	DAYWORKS	-
	MNGENI SPS : TOTAL	
	ADD: 10% CONTINGENCIES	
	SUB-TOTAL B	
	ADD: 15% VAT	
TENDER AMOUNT: CARRIED TO FORM OF OFFER		



PART C3 : SCOPE OF WORK

C3.1: DESCRIPTION OF THE WORKS

1.1 EMPLOYER'S OBJECTIVES

The ASIDI Water and Sanitation Programme is aimed at providing bulk water supply and proper sanitation facilities to schools in and around OR Tambo District Municipality region in the Eastern Cape.

The provision of water infrastructure to targeted schools is to provide basic levels of service to the Department of Basic Education's ASIDI standards. It also promotes rainwater harvesting as a secondary water supply for the schools.

The Contract entails the construction of water supply infrastructure at:

Mngeni SPS

1.2 OVERVIEW OF THE WORKS

No detailed geological investigation has been undertaken, other than that undertaken for the borehole investigations.

The report indicates that the area is largely underlain by fractured and weathered mudstone shale. Dolerite intrusions in the form of dykes and sheets are present.

1.3 EXTENT OF THE WORKS

The major items of construction are described below in general terms, with more details provided on the construction specifications and tender drawings.

1.3.1 MNGENI SPS

Storage Tank

- Supply and Install 10000L of storage tank with base and fittings.
- Supply and Install electricity to operate pump.
- Supply fencing around tanks.

Rising main:

- Supply and install pipeline and fittings.

Elevated Tanks

- Install 10000L of rainwater tank on elevated tank stands
- Recoat elevated tank stand and fix stands
- Install fittings and switch
- Supply fencing for elevated tank.

Rainwater Harvestings:

- Remedial Work
- Fix tank stands and tank fittings to link to storage tank.
- Supply install 5000l rainwater tanks
- Fix leaks on rainwater taps tanks.
- Supply and Install aluminium gutters and downpipes
- Fix remedial Work on rainwater harvesting
- Install soakaways in all rainwater tanks.

Reticulation

- Supply and install reticulation pipeline including fittings
- Supply and install or fix standpipes
- Install soakaways in all standpipes.

1.4 LOCATION OF THE WORKS

Cluster 3E					
Project Type	Contract	ID	School Name	East	South
Water	3E	23	MNGENI SPS	29.455719	-31.101433

C3.2: ENGINEERING

2.1 DESIGN SERVICES AND ACTIVITY MATRIX

Table 2.1 : Design Services and Activity Matrix

Description	Responsible
Concept, feasibility and overall process	Employer
Basic Engineering and detail layout to tender stage	Employer's representative
Final design to approved for construction stage	Employer's representative
Preparation of as built drawings	Employer's representative

2.2 DRAWINGS

Table 2.2 : Drawings List

Drawing No.	Description
6035/54/001	LOCALITY MAP AND WATER CLUSTER 3
6035/543E/23/002	MNGENI SPS
6035/54/004	TYPICAL BOREHOLE PUMP STATION
6035/54/005	4.5m HIGH ELEVATED WATER TANK (10 000 l) DETAILS AND SECTIONS
6035/54/006	4.5m HIGH ELEVATED WATER TANK (5 000 l) DETAILS AND SECTIONS
6035/54/007	DRINKING WATER RAINWATER STORAGE
6035/54/008	STANDPIPE DETAILS
6035/54/008-A	STANDPIPE DRAINAGE DETAILS RevA
6035/54/010	ROAD CROSSING, PIPE BEDDING AND CONCRETE ENCASEMENT DETAILS
6035/54/013	ISOLATION VALVE DETAILS
6035/54/014	FENCING DETAILS
6035/54/016	NAME BOARD
6035/54/20	DRINKING WATER LOW PROFILE RAINWATER STORAGE
6035/54/021	BOOSTER PUMP

2.2.1 General

The drawings are as listed in *Table 2.2* form part of the tender documents and shall be used for tender purposes only. Revised drawings will be issued for construction purposes.

The Contractor will be supplied with an unreduced paper print of each of the drawings. These prints will be issued free of charge and the Contractor shall make any additional prints he may require at his own cost.

Any information in the possession of the Contractor necessary for the Resident Engineer to complete his as-built drawings shall be supplied to the Resident Engineer before a Certificate of Completion will be issued.

Only figured dimensions shall be used and drawings may not be scaled unless so instructed by the Engineer. The Engineer will supply and figured dimensions, which may have been omitted from the drawings.

The levels given on the structural drawings are subject to confirmation on the site, and the Contractor shall submit all levels to the Engineer for confirmation before he commences any structural construction work. The Contractor shall also check all clearances given on the drawings and shall inform the Engineer of any discrepancies.

C3.3: PROCUREMENT

3.1 PREFERENTIAL PROCUREMENT PROCEDURES

SANS 10396: 2003 and SANS 1914-1 to 6: 2002 are applicable to this Contract, as detailed further in the Tender component of this document.

3.2 SUB-CONTRACTING

Provided that not more than 25% of the value of the work is sub-contracted and provided that the expertise, capability and appropriateness of the intended sub-contractor can be proven to the satisfaction of the Engineer, the Contractor is free to sub-contract those portions of the work as deemed appropriate by the Contractor.

C3.4 CONSTRUCTION

4.1 WORK SPECIFICATIONS

4.1.1 Applicable Standards

The standards applicable to this Contract are the SABS 1200 Standardized Specifications detailed below and the variations, amendments and additions to the variations and additions to the SABS 1200 Standardized Specifications and the Particular Specifications described elsewhere in the document.

4.1.2 List of Applicable Standards

Standardized Specifications:-

SABS 1220 A	:	General
SABS 1200 AB	:	Engineer's Office
SABS 1220 C	:	Site Clearance
SABS 1200 D	:	Earthworks
SABS 1200 DB	:	Earthworks (Pipe Trenches)
SABS 1200 G	:	Concrete (Structural)
SABS 1200 L	:	Medium Pressure Pipelines
SABS 1200 LB	:	Bedding (Pipes)

Particular Specifications:-

PTS	:	Drilling of Boreholes
PPSA	:	General Requirements for Electrical and Mechanical Works
PPSB	:	Operational Control
PPSC	:	Pump Specification
PPSD	:	Electrical Specification

4.2 PLANT AND MATERIALS

The Contractor is responsible to provide and or procure all the plant and elected material and other resources necessary for the successful completion of the Works.

4.3 EQUIPMENT

The Contractor is responsible to provide and or procure all the requisite equipment for successful completion of the Works.

4.4 EXISTING SERVICES

The Contractor is required to connect to the existing command reservoir for the off take to the booster pump station. The Contractor is also required to provide village reticulation that has already been provided with a bulk water supply. Apart from this water services infrastructure and the associated electrical works in the vicinity of these areas, there are no other known existing services. All known services will be indicated to the Contractor at the outset of the Contract.

The Contractor is responsible to take all measures necessary to locate and then to protect these services during the construction of the Works and to take all reasonable measures to locate any other services.

The Contractor will be responsible to repair, at his own cost, all known services damaged by the Contractor in the completion of the Works. Such repairs shall be timeously completed and to the satisfaction of the Engineer.

4.5 SITE ESTABLISHMENT

4.5.1 Services and Facilities Provided by the Employer

The Employer will not be responsible to provide any services and or facilities including ablution facilities.

4.5.2 Facilities Provided by the Contractor

The Contractor is responsible to provide all the facilities required for the due fulfilment of his obligations in terms of the Contract.

No area has specifically been identified for the establishment of a camp site. The Contractor will therefore be required to identify and establish his own camp site. Approval by the Engineer and the local community is required prior to the establishment of the site.

On completion of the Works, the Contractor must rehabilitate the site in accordance with the requirements of the Environmental Management Plan to the satisfaction of the Engineer.

The costs of providing the above shall be deemed to be included in the rates rendered.

4.5.3 Storage and Laboratory Facilities

The Contractor shall be responsible for providing his own laboratory to undertake the process control testing for which he is responsible in terms of the Contract. Alternatively, the Contractor may make arrangements for testing to be undertaken at a laboratory approved by the Engineer.

Acceptance testing on behalf of the Employer shall be undertaken by an independent laboratory separately appointed by the Employer.

All results obtained from the Contractor's process control testing shall immediately be made available to the Engineer.

The costs of providing the above shall be deemed to be included in the rates rendered.

4.5.4 Other Facilities and Services

The Contractor shall be responsible for providing all other facilities and services required for the due fulfilment of his obligations in terms of the Contract, such as power, water, telecommunications, security services, medical, fire protection, sanitation, toilets and soiled waste disposal.

The requirements of the Environmental Management Plan in this regard are to be adhered to.

The costs of providing the above shall be deemed to be included in the rates rendered.

4.5.5 Vehicles and Equipment

The Contractor shall provide for the sole use of the Engineer and his representative, the office, telecommunication, and survey facilities as detailed elsewhere in this document.

Ownership will revert to the Contractor at the end of the Contract.

4.5.6 Advertisement Rights

All advertisement rights linked to this Contract remain with the Employer.

4.5.7 Notice Boards

The Contractor is required to provide one (1) Contract Notice Boards, as specified elsewhere in this document, which are to be located at a position approved by the Engineer.

4.6 SITE USAGE

The Contractor shall take all reasonable measures to establish ownership and current usage of the land in the vicinity of the Works, prior to setting out the Works and commencing with construction. All concerns or issues which may have a bearing on the construction of the Works must be brought to the attention of the Engineer for resolution prior to construction.

Where the Contractor is required to work within or in close proximity to land used or owned by others, the Contractor shall act in a responsible manner, taking cognizance of the rights of others.

The usage of the site shall also be restricted by the requirements of the Environmental Management Plan.

4.7 ALTERATIONS, ADDITIONS, EXTENSIONS AND MODIFICATIONS TO EXISTING WORKS

The Contractor may be required to connect to the existing adjacent regional water supply scheme infrastructure. Such infrastructure constitutes an existing water supply to other rural villages and cannot be interrupted for more than 24 hours.

The Contractor shall notify the Engineer at least 1 week in advance of his intention to work on existing works.

The Contractor will also be required to prove the adequacy of the works already completed and undertake remedial works as may be required to ensure the efficient operation of the completed works.

4.8 WATER FOR CONSTRUCTION PURPOSES

The Contractor must therefore make adequate provisions in his tender for all negotiations and procurement of water for construction activities, prior to this date and all related costs will be deemed to be included in his tendered rates.

Access to these water sources may be denied if it is found that the Contractor is unduly wasting water.

4.9 SURVEY CONTROL AND SETTING OUT OF THE WORKS

The Engineer will indicate to the Contractor the positions of the reservoirs, pump stations and standpipes as well as the routes of all the pipelines. Thereafter, the Contractor will be responsible for all setting out of the Works.

C3.5: MANAGEMENT

5.1 MANAGEMENT OF THE WORKS

5.1.1 Applicable Standards

The Contractor is referred to SANS 1921: 2004 parts 1, 2 and 3: Construction and Management Requirements for Works Contracts. These specifications shall be applicable to the Contract under consideration and the Contractor shall comply with all requirements relevant to the project.

Certain aspects however require further attention as described hereafter.

5.1.2 Planning and Programme

The Contractor is required to submit for approval by the Engineer, within the timeframe stipulated in the Contract Data, a programme of works. The programme must be for the full contract period stipulated in the Contract Data and must clearly indicate all the main construction activities, their sequence and the critical path. The Contractor may not proceed with construction activities until such time as the programme has been approved by the Engineer.

The Contractor is required to report on and update the programme on a monthly basis.

The Contractor shall be deemed to have allowed fully in his tendered rates and prices as well as in his programme, for all possible delays due to normal adverse weather conditions and special non-working days as specified in the Contract Data.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

The following constraints shall be taken into account in preparing the construction programme:

- a) The Contract time is **4 months**. Plant and personnel requirements to complete the project in the contract period must be incorporated in the Tender.

If during the time for completion of the Works or any extension thereof abnormal rainfall or wet conditions occurs, then the formula below shall be used to calculate separately the delay for each calendar month or part thereof. It shall be calculated each month during the period referred to in Clause 42.1 as the time for the completion of the Works and any extension time in accordance with Clause 42 that may have been granted by the Employer, or until the issue date of the certificate of practical completion, whichever is the shorter period. The delay calculated for a given month shall be used to determine the interim extension of time granted for the month. At the end of the applicable period referred to above, the aggregate of the monthly delays will be taken into account for the final determination of the total extension of time for the Contract:

$$V = (Nw - Nn) + \frac{(Rw - Rn)}{X}$$

If any value of V is negative and its absolute value exceeds Nn, then V shall be taken as equal to minus Nn.

The delay for a part of a month shall be calculated by substituting pro-rata values for the variables in the equation.

The symbols shall have the following meanings:

V	=	Delays due to rain 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 Y mm or more per day has been recorded.
Rw	=	Actual rainfall in mm for the calendar month under consideration.
Nn	=	Average number of days in the relevant calendar month (as derived from existing rainfall records provided in the project specifications) on which a rainfall of Y mm or more per day has been recorded.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

Rn	=	Average rainfall in mm for the calendar month, as derived from the rainfall records supplied in the project specifications.
X	=	20, unless otherwise provided in the project specifications.
Y	=	10, unless otherwise provided in the project specifications.

The total delay that will be taken into account for the determination of the total extension of time for the Contract shall be the algebraic sum of the monthly totals for the period under consideration. But if the grand total is negative, the time for completion shall not be reduced on account of abnormal rainfall. The total extension of time for any calendar month shall not exceed $(N_c - N_n)$ calendar days, where N_c = number of days calendar days in the month under consideration.

The factor $(N_w - N_n)$ shall be considered to represent a fair allowance for variations from the average number of days during which rainfall equals or exceeds Y mm per day.

The factor $(R_w - R_n) \div X$ shall be considered to represent a fair allowance for variations from the average for the number of days during which rainfall does not equal or exceed Y mm per day, but wet conditions prevent or disrupt work.

This formula does not take into account any flood damage, which could cause further or concurrent delays and which should be treated separately in so far as extension of time is concerned.

Accurate rain gaugings shall be taken at a suitable point on the site daily at 08H00 unless otherwise agreed to by the Engineer, and the Contractor shall, at his own expense, take all necessary precautions to ensure that the rain gauges cannot be interfered with by unauthorised persons.

Information regarding existing rainfall records, if available from a suitable rainfall station near the site, will be supplied in the project specifications, together with calculations of rain delays for previous years in accordance with the above formula. The average of these delays will be regarded as normal rain delays which the Contractor shall accommodate in his programme, and for which no extension of time will be considered.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

CALENDAR MONTH	EXPECTED NUMBER OF WORKING DAYS LOST DUE TO NORMAL RAINFALL	AVERAGE MONTHLY RAINFALL (mm)
January	4	114
February	4	110
March	4	106
April	3	49
May	2	26
June	1	15
July	1	18
August	2	21
September	2	46
October	3	74
November	4	99
December	4	104
TOTAL	34 days	783 mm

5.1.3 Sequence of the Works

Prior to commencing with construction, the Contractor is required to obtain approval from the Engineer, of his intended sequencing of the work.

5.1.4 Methods and procedures

The Contractor is required to undertake all construction activities in an orderly fashion and to maintain the cleanliness of the site during the contract period, to the satisfaction of the Engineer.

The Contractor is required to take note of and comply with the requirements of the Environmental Management Plan contained in this document. Monthly audits will be conducted by others to ensure compliance thereto. During the setting out of the works, guidance should be sought from the Engineer prior to the removal of trees and shrubs.

No blasting operations may be undertaken without the approval of the Engineer. The requisite documentation indicating the competence of the blaster, the approvals of the relevant authorities and the method statement for each blast, are required for approval purposes.

Adequate materials should be available from the site. The Engineer will however indicate as required, the location of suitable borrow pits. These shall be opened and managed in accordance with the requirements of the Environmental Management Plan.

All suitable excess materials may be spread over the trench width. However, no rocks or boulders greater than 0.15m³ or of mass exceeding 25kg, may be placed within 2 m of the centreline of pipeline. Such materials are to be disposed at suitable locations within the free haul distance.

The Contractor shall pay special attention to the management and disposal of water and stormwater on the site and the conservation of topsoil and the rehabilitation of the site. It is essential that all completed works or parts thereof are kept dry and properly drained. Furthermore, portions of the Works must be completed and suitably rehabilitated before moving onto new portions of the Works.

The Engineer reserves the right to limit the number of working fronts to ensure that the above is adhered to. Claims for delay and for repair of damage caused to the works as a result of the Contractor's failure with the above or to properly manage rain and surface water will not be considered.

The Contractor shall take all reasonable measures to maintain access to properties and a free flow of traffic during the construction of the works. Where it is this required to disrupt access and the free flow of traffic, it must be kept to a minimum, be of short duration and adequate notice and traffic accommodation measures must be provided. Furthermore, the approval of the Engineer must be sought in advance of any planned disruption.

The Contractor is to undertake all reasonable measure to minimize dust, noise, water, waste and other impediments and shall comply with the requirements of the Environmental Management Plan contained in this document.

The Contractor is required to obtain permission from the Engineer prior to working outside normal working hours.

The Contractor will be obliged to comply with the QA system of the Engineer, which dictates the requirements pertaining to inspections required prior to covering works.

5.1.5 Quality plans and control

The Contractor will be solely responsible for the production of work that complies with the Specifications to the satisfaction of the Engineer. To this end it will be the full responsibility of the Contractor to institute an appropriate Quality Assurance (QA) system on site. However, the Contractor will also be required to comply with certain QA systems imposed by the Engineer, concerning to the approval of works o temporary works.

Process Control:

The Contractor shall arrange for all tests required for process control to be done by a laboratory acceptable to and approved by the Engineer.

The Contractor may employ the services of an independent commercial laboratory and must submit the results of tests carried out on materials and workmanship when submitting work for acceptance

by the Engineer. The costs for these tests shall be deemed to be included in the relevant rates and no additional payment will be made for testing as required.

Acceptance control:

The process control test results submitted by the Contractor for approval of materials and workmanship may be used by the Engineer for acceptance control. However, before accepting any work, the Engineer may have further control tests carried out by a laboratory of his choice. The cost of such additional tests will be covered by the Employer, but tests that failed to confirm compliance with the specifications, will be for the account of the Contractor.

5.1.6 Environment

The Contractor is required to undertake the construction of the Works in such a manner so as to minimize its impact on the environment. To this end, the Contractor is required to comply with the requirement of the Environmental Management Plan contained in Part 5 of this document.

5.1.7 Other contractors

No other construction works are envisaged to be undertaken during the construction of this Contract.

5.1.8 Testing, completion, commissioning, and correction of defects

It is required that the reservoirs and pipelines undergo and comply with the requisite water tightness and pressure tests prior to the connection to any existing works. Only once the Engineer has satisfied himself with the adequacy on the initial tests, will the Contractor be allowed to commission the Works. A method statement for the commissioning of the works will however be required for approval in advance of the commissioning. Relevant acceptance testing will also comply to all pump stations prior to their connection to the rest of the works.

Should any components of the works not meet the requirements of the initial tests, they shall be repaired by the Contractor at his own costs, and be re-tested, prior to the commissioning of the works.

5.1.9 Recording of weather

It is required that a rain gauge be erected on site at an approved location and that all rainfall be recorded and agreed to on a daily basis.

5.1.10 Management meetings

It is required that a suitably qualified representative of the Contractor attend monthly site meetings for the duration of the Contract.

5.1.11 Forms for contract management

It is required that the Contractor submit the requisite progress, plant, labour and other pertinent information on a monthly basis, in the format to be provided by the Engineer, for the management of the contract and reporting to the Client and provincial and national government.

All site instructions are to be recorded in writing in triplicate on pro forma forms to be provided by the Engineer.

5.1.12 Daily records

It is required that a daily site diary of all plant and labour on site, and all details of work performed be maintained on site by the Contractor. Similar documentation will be maintained by the Engineer.

5.1.13 Bonds and guarantees

All bonds and guarantees required to be provided by the Contractor in undertaking his obligations in terms of this Contract, will be held in safe keeping by the Engineer, and returned to the Contractor as required in terms of the Contract.

5.1.14 Health and safety

It is a requirement of this contract that the Contractor provide a safe and healthy working environment and to direct all his activities in such a manner that his employees and any other persons, who may be directly or indirectly affected by his activities, are not exposed to hazards to their health and safety. To this end the Contractor shall assume full responsibility to conform to all the provisions of the Occupational Health and Safety Act No 85 and Amendment Act No 181 of 1993, and the OHS Act 1993 Construction Regulations 2003 issued on 18 July 2003 by the Department of Labour.

For the purpose of this contract the Contractor is required to confirm his status as mandatory and employer in his own right for the execution of the contract by entering into an agreement with the Employer in terms of the Occupational Health and Safety Act contained in the Agreement and Contract Data.

Health and Safety Specifications and Plans:

(a) Employer's Health and Safety Specification

The Employer's Health and Safety Specification is included in Part 5 of this document.

(b) Health and Safety Plan

The Contractor shall submit his own documented Health and Safety Plan he proposes to implement for the execution of the work under the contract. His Health and Safety Plan must at least cover the following:

- i. A proper risk assessment of the works, risk items, work methods and procedures in terms of Regulations 7 to 28;
- ii. Pro-active identification of potential hazards and unsafe working conditions;
- iii. Provision of a safe working environment and equipment;
- iv. Statements of methods to ensure the health and safety of subcontractors, employees and visitors to the site, including safety training in hazards and risk areas (*Regulation 5*);
- v. Monitoring health and safety on the site of works on a regular basis, and keeping of

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

records and registers as provided for in the Construction Regulations.

- vi. Details of the Construction Supervisor, the Construction Safety Officers and other competent persons he intends to appoint for the construction works in terms of Regulation 6 and other applicable regulations; and
- vii. Details of methods to ensure that his Health and Safety Plan is carried out effectively in accordance with the Construction Regulations 2014.

The Contractor's Health and Safety Plan will be subject to approval by the Employer, or amended if necessary, before commencement of construction work. The Contractor will not be allowed to commence work, or his work will be suspended if he had already commenced work, before he has obtained the Employer's written approval of his Health and Safety Plan.

Time lost due to delayed commencement or suspension of the work as a result of the Contractor's failure to obtain approval for his safety plan, shall not be used as a reason to claim for extension of time or standing time and related costs

C3.4 TECHNICAL SPECIFICATION

CC FENCING AND GATES

CONTENTS

CC 01	SCOPE
CC 02	STANDARD SPECIFICATIONS
CC 03	OPERATING AND MAINTENANCE MANUALS
CC 04	EXECUTION OF WORK
CC 05	QUALITY STANDARD
CC 06	MATERIALS
CC 07	MAINTENANCE
CC 08	MEASUREMENT AND PAYMENT

CC 01 **SCOPE**

This specification covers the materials, equipment, methods, and work required for the repair and upgrade of existing water distribution networks. This specification covers the repair and maintenance of fencing and gates.

Where a particular specification has been included in the documents to supplement Technical Specification CC: Fencing and gates, this technical specification shall act as a guideline to the Particular Specification and, in the event of any discrepancies between the Technical Specification and the Particular Specification, the latter shall take precedence. The Contractor shall at all times adhere to this technical specification, unless otherwise specified in the applicable Particular Specification.

CC 02 **STANDARD SPECIFICATIONS**

CC 02.01 **General Standard Specifications, Regulations and Codes**

The latest edition, including all amendments up to date of tender, of the following specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

- SABS 763 -Hot-dip (galvanised) zinc coatings (other than on continuously zinc-coated sheet and wire)
- SABS 675 -Zinc-coated fencing wires (plain and barbed)
- SABS 1373 -Chain-link fencing and its wire accessories

CC 02.02 **Occupational Health and Safety Act Of 1993**

All regulations and statutory requirements as laid down in the latest edition of the Occupational Health and Safety Act, 1993 (Act no 85 of 1993) shall be adhered to.

CC 02.03 **Manufacturers' Specifications, Codes of Practice And Installation Instructions**

All equipment and materials shall be installed, serviced and repaired strictly in accordance with the manufacturers' specifications, instructions and codes of practice.

CC 02.04 Municipal Regulations, Laws and By-Laws

All municipal regulations laws, by-laws and special requirements of the Local Authority shall be adhered to unless otherwise specified.

CC 03 Operating and Maintenance Manuals

No operation and maintenance manuals will be required for fencing and gates.

CC 04 EXECUTION OF WORK

The Contractor shall investigate and inspect all areas of the installation to confirm the extent of the repair work required and shall report to the Engineer. The Engineer will thereafter demarcate any areas to be repaired and shall instruct the Contractor with regard to the repair work to be done.

Any fencing work identified either by the Contractor or during inspection by the Engineer shall be carried out on the instruction of the Engineer.

The Contractor shall ensure that the necessary materials, skilled personnel, tools and equipment are available at all times to maintain the prison fence in a state of good repair.

The Engineer shall indicate where new fences are to be erected, or where repairs are necessary. Wherever an opening has been made in the fence while repairing it, the area shall be guarded by a guard of the User Client. Under no circumstances shall a fence be left open or unattended at any time. Whenever a part of the fence is taken down to repair/replace it, it will be replaced within the same day it has been taken down.

Unless otherwise instructed by the Engineer, similar type fencing material to that in the existing fence line shall be used where fences are to be repaired.

CC 04.01 Scope of Work

Supply and erect 1.8m high galvanised fence with standard post at 4m cast into concrete blocks consisting of the following features: barbed wire, smooth wire, diamond mesh, tubular standard post, tubular straining post including anchors and corner post including anchors. Supply and fit 1.2m wide pedestrian gate complete with hinges, locking device, posts and padlock.

CC 04.02 Clearing the Fence Route

The fence route shall be cleared over a width of at least 0,5 m on each side of the centre line of the fence and surface irregularities shall be levelled so that the fence will follow the general contour of the ground.

The bottom of the fence shall be located at a uniform distance above the ground line, but no more than 50 mm.

CC 04.03 Installation Of Posts And Standards

Posts shall be accurately set in holes and be provided with concrete bases to the dimensions specified.

Holes shall be dug to their full specified depth.

Posts shall be firmly planted into the ground at the same spacing as the existing posts or as instructed by the Engineer. The spacing of posts between any two straining posts shall be uniform.

CC 04.04 Erecting Fence Wires

All fencing wire shall be wired to the sides of posts in order to prevent the wires from being displaced or becoming loose. The wire shall be carefully strained and hung without sag, and with true alignment, care being exercised not to strain the wire so tightly that it will break or that end, corner, straining or gate posts will be pulled up.

Each strand of fencing wire shall be securely fastened in the correct position to each post with soft galvanised binding wire.

Splices in the fencing wire shall be permitted if made in the following manner using a splice tool. The end of each wire at the splice shall be carried at least 75 mm past the splice tool and wrapped snugly around the other wire for not less than six complete turns, the two separate wire ends being turned in opposite directions. After the splice tool is removed the space left by it in the splice wire shall be closed by pulling the wire ends together. The unused ends of wire shall be cut close so as to leave a neat splice.

CC 04.05 Erecting Diamond Mesh Or Wire Netting

Wire netting or diamond mesh shall be stretched against the fence and properly secured to the fencing wire. The diamond mesh or wire netting shall be secured by means of soft binding wire at 1,2 m centres along the top and bottom wires and at 3 m centres along each of the other fencing wires unless otherwise specified.

CC 04.06 Closing Openings Under Fences

At ditches, drainage channels or other hollows where it is not possible to erect the fence so that it follows the general contour of the ground, the Contractor shall cover the openings with wire netting or diamond mesh fixed to the fence.

CC 04.07 Existing Fences

Where a new fence joins an existing fence, whether in line or at an angle, the new fence shall be erected with a new straining post positioned at the terminal of the existing fence.

CC 04.08 Gates

Gates shall be hung on gate fittings in accordance with the requirements specified. The gates shall be so erected that they swing in a horizontal plane at right angles to the gateposts, clear of the ground in all positions.

Double swing gates shall not leave a gap of more than 25 mm between them when closed and other gates shall not be further than 25 mm from the gatepost when closed. The clearance below the gates shall not exceed 75 mm with the gates closed.

CC 04.9 Erecting New Fencing Material

All new material used to replace old material shall be similar to the old material replaced unless a new material is specified by the Engineer.

CC 05 QUALITY STANDARD

The completed fences shall be plumb, taut, true to line and ground contour, with all posts, standard and stays firmly set.

The Contractor shall, on completion of each section of fence, remove all cut-offs and other loose wire or netting so as not to create a hazard to grazing animals or a nuisance to the owners of the ground.

CC 06 MATERIALS

CC 06.01 Posts

CC 06.01.01 Steel posts

New posts or posts that need to be replaced shall be of the same type and size as the existing posts. Tubular posts shall be galvanised in accordance with SABS 763 for Class B1 articles or shall be painted as specified and have a minimum wall thickness of 2,00 mm.

Tubular stays shall have a minimal bore of at least 60 mm and a wall thickness of at least 2,00 mm. These stays shall be galvanised as specified in SABS 763 or shall be painted as specified.

CC 06.02 Wire

CC 06.02.01 Barbed wire

Barbed wire shall comply with the requirements of SABS 675 and shall be one or more of the following types:

- (a) High-tensile grade, oval shaped, single-strand wire, 3,15 mm x 2,50 mm (2,81 mm equivalent diameter), and fully galvanised;
- (b) High-tensile grade, oval shaped, single-strand wire, 2,80 mm x 1,90 mm (2,31 mm equivalent diameter), fully galvanised (first class coating). This wire shall not be used less than 500 mm above ground where there is danger of grass fires;
- (c) Mild-steel grade, double strand, unidirectional twist wire, each strand 2,50 mm diameter, for use at any height above ground. The wire shall be fully galvanised;
- (d) Barbs shall be manufactured from 2,0 mm galvanised wire and shall be spaced at not more than 152 mm.

CC 06.02.02 Barbed tape coil

Barbed tape coil shall comply with the requirements for type A in CKS 592 and shall consist of close-coiled, high-tensile wire with a continuous strip of flat steel barbs (barbed tape) crimped to the wire along the entire length of the wire.

The high-tensile wire shall be Class B galvanized. The barbed tape shall be made of cold-roller carbon steel and galvanized to Class 2450.

CC 06.02.03 Smooth wire

Smooth wire shall comply with the requirements of SABS 675 and shall be of the types specified below:

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

- (a) Straining wire shall be 4,0 mm diameter and fully galvanised.
- (b) Fencing wire shall be high-tensile grade, 2,24 mm diameter wire fully galvanised.
- (c) Tying wire shall be 2,50 mm diameter, mild steel, galvanised wire for tying fencing wire to standards and droppers, and 1,60 mm diameter, mild steel, galvanised wire for typing netting and mesh wire to fencing wire.

CC 06.03 Diamond Mesh

- (a) Diamond mesh (chain-link) fencing shall comply with the requirements of SABS 1373. The edge finish shall be both sides clinched or barbed.
- (b) The nominal diameter of the wire shall be 2,5 mm and the mesh size shall be 64 x 64 mm.
- (c) The wire shall be fully galvanised.

CC 06.04 Welded Mesh

Wire netting shall be fully galvanised with mild steel wire with a minimum diameter of 1,8 mm and 75 mm mesh.

CC 06.05 Manufacturing Tolerances For Wire

The actual diameter of wire supplied shall nowhere be less than the specified diameter by more than the following tolerances:

Specified diameter	Tolerance
1,00 - 1,8 mm	0,05 mm
2,00 - 2,8 mm	0,08 mm
3,15 - 4,0 mm	0,10 mm

CC 06.06 Gates

New gates or gates that need to be replaced shall be the same type and size as existing gates. Gates shall be galvanised in accordance with SABS 763 for class B1 articles or shall be painted as specified.

CC 08 MEASUREMENT AND PAYMENT

CC.01 CLEARING FENCE ROUTE 1 m WIDE STRIP.....Unit: metre (m)

The unit of measurement for the clearing of the fence route shall be the metre of fence line measured along each fence line.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

The tendered rate shall include full compensation for the clearing of the fence line as specified, including the removal of stones and other obstructions and the disposal as directed of all material resulting from clearing operations.

CC.02 SUPPLY AND ERECTION OF NEW FENCING MATERIAL

TO REPLACE OLD MATERIAL:

- (a) Barbed wire Unit: metre (m)
- (b) Smooth wire Unit: metre (m)
- (c) Diamond mesh Unit: metre (m)
- (d) Wire netting Unit: metre (m)
- (e) Barbed tape coil..... Unit: metre (m)
- (f) Posts Unit: number
- (g) Gates Unit: number
- (h) Y-standards Unit: number

The quantity of material used shall be determined by measuring the quantities of individual items of material installed in the completed fence. Clearing of the fence line will be paid for under item CC.01. Removal and disposing of the existing fencing material shall be deemed included in the rate for new material.

The applicable units of measurement are as follows:

- (a) Fencing wire and barked tape coil

The unit of measurement shall be the metre of each type of fencing wire measured in place and between end posts. Binding wire and wire used for bracing and anchoring of posts shall not be measured for payment. Barbed tape coil shall not be measured along the coiled wire but also between end posts.

- (b) Diamond mesh and wire netting

The unit of measurement shall be the square metre of diamond mesh or wire netting and the quantity shall be calculated using the prescribed width and the length between straining posts or gate posts, or the length of strips for covering openings under fences, or the length used for the covering of gates.

- (c) Posts

The unit of measurement shall be the number of posts, as follows:

All straining posts erected in accordance with the maximum specified spacing or such lesser spacing as authorised by the Engineer, all corner and gateposts authorised by the Engineer and all end posts. Gate posts for new gates shall not be measured for payment.

(d) Gates

The unit of measurement shall be the number of each type of gate repaired or replaced.

CC.04 REDRESS, TREAT AND PAINTING OF FENCE Unit: metre (m)

The unit of measurement for the redressing (tightening, repairing and patching), treating and painting the fence line shall be the metre of fence line measured along each fence line.

The tendered rate shall include full compensation for performing minor repairs, tightening the fence, patching damaged areas, treating the existing fence with an approved rust remover/inhibitor, and then applying cold galvanising as specified by the Engineer.

CC.05 TREATING AND PAINTING OF POLES.....Unit: metre (m)

The unit of measurement for the treating and painting of poles shall be the metre of pole as instructed by the Engineer.

(a) For steel posts

The tendered rate shall include full compensation for treating the existing poles with an approved **rust remover/inhibitor** and the applying **cold galvanising** as specified by the Engineer.

ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS

TENDER NO: DoEEC/13/2021

CE WATER DISTRIBUTION NETWORKS

CONTENTS

CE 01	SCOPE
CE 02	STANDARD SPECIFICATIONS
CE 03	OPERATING AND MAINTENANCE MANUALS
CE 04	EXECUTION OF REPAIR WORK
CE 05	DRILLING OF BOREHOLES
CE 06	QUALITY ASSURANCE SYSTEM
CE 07	MAINTENANCE TO INSTALLATION SYSTEMS AND REPAIR WORK
CE 08	MEASUREMENT AND PAYMENT

CE 01 SCOPE

This specification covers the materials, equipment, methods, testing and work required for the supply of water infrastructure at the schools. Such distribution networks may comprise:

- (a) Primary and secondary distribution pipelines
- (b) Valves
- (c) Chambers
- (d) Pumping installations
- (e) Borehole installations
- (f) Elevated water tanks

this specification shall form an integral part of the new infrastructure contract document and shall be read in conjunction with portion 3: Additional Specifications included in this document.

Where a particular specification has been included in the documents to supplement Technical Specification CE: Water distribution networks, this technical specification shall act as a guideline to the Particular Specification and, in the event of any discrepancies between the Technical Specification and the Particular Specification, the latter shall take precedence. The Contractor shall at all times adhere to this technical specification, unless otherwise specified in the applicable Particular Specification.

CE 02 STANDARD SPECIFICATIONS

CE 02.01 GENERAL STANDARD SPECIFICATIONS, REGULATIONS AND CODES

The latest edition, including all amendments up to date of tender, of the following specifications, publications and codes of practice shall be read in conjunction with this specification and shall be deemed to form part thereof:

SANS 1200 D	- Earthworks
SANS 1200 DB	- Earthworks (pipe trenches)
SANS 1200 G	- Concrete (structural)
SANS 1200 L	- Medium-pressure pipelines
SANS 1200 LB	- Bedding (pipes)

CE 02.02 OCCUPATIONAL HEALTH AND SAFETY ACT OF 1993

All regulations and statutory requirements as laid down in the latest edition of the Occupational Health and Safety Act, 1993 (Act no 85 of 1993) shall be adhered to.

**CE 02.03 MANUFACTURERS' SPECIFICATIONS, CODES OF PRACTICE AND
INSTALLATION INSTRUCTIONS**

All equipment and materials shall be installed, serviced and repaired strictly in accordance with the manufacturers' specifications, instructions and codes of practice.

CE 02.04 MUNICIPAL REGULATIONS, LAWS AND BY-LAWS

All municipal regulations, laws, by-laws and special requirements of the Local Authority shall be adhered to unless otherwise specified.

CE 03 OPERATING AND MAINTENANCE MANUALS

[Note: There is no maintenance in terms of this contract]

CE 05 DRILLING OF BOREHOLES

The Engineer shall in writing indicate or provide co-ordinate positions for the borehole positions.

The contractor shall sub-contract a drilling contractor for the drilling of one or two boreholes; yield testing and a laboratory for water quality testing.

In the event of the installation or equipping of borehole not being successful or completed because it does not give enough yield, the Engineer shall in writing instruct the Contractor to remove all its personnel or employees from the site and lock the site and provide security until further notice from the Engineer.

CE.05.01 Payment – Drilling of Borehole

The provisional sum shall include the drilling, yield testing and laboratory water quality testing of two boreholes. Should the first borehole be successful the contractor will be paid a pro-rata amount for all reasonable expenses incurred.

CE.05.02 Payment – Removal of Personnel

The provisional sum shall include the removal and bringing back of personnel and provision of security for this duration.

CE 06 TESTS AND INSPECTIONS ON COMPLETION WORK

Except where otherwise provided in the Contract, the Contractor shall provide all labour, materials, power, fuel, accessories and properly calibrated and certified instruments necessary for carrying out such tests. The Contractor shall make arrangements for such tests and he shall give at least 72 hours' notice to the Engineer, in writing, prior to commencement of the test.

In the event of the plant or installation not passing the test, the Employer shall be at liberty to deduct from the Contract price all reasonable expenses incurred by the Employer or the Engineer attending the repeated test.

Whenever any installation or equipment is operated for testing or adjusting as provided for above, the Contractor shall operate the entire system for as long a period as may be required to prove satisfactory performance at all times in the occupied space served by that system for up to twenty-four hours a day continuously until the system is handed over.

The Contractor shall provide all labour and supervision required for such operation and the Employer may assign operating personnel as observers, but such observation time shall not be counted as instruction time.

After complete installation of the system all equipment shall be tested, adjusted and readjusted until it operates to the satisfaction and approval of the Engineer.

The Contractor shall submit certificates of tests carried out to prove the quality and proper functioning of all equipment and also certificates to be obtained from all relevant authorities and statutory bodies, etc.

CE 07 QUALITY ASSURANCE SYSTEM

The Contractor shall institute an approved quality assurance (QA) system which shall be submitted to the Employer or Engineer for approval. The records of this QA system shall be kept throughout the duration of the Contract and be submitted to the Engineer at regular intervals as required.

CE 08 MAINTENANCE TO INSTALLATION SYSTEMS AND EQUIPMENT

[Note: There is no maintenance in terms of this contract]

CE 09 MEASUREMENT AND PAYMENT

CE.01 WATER DISTRIBUTION PIPELINES

CE.01.01 New pipelines.....Unit: metre (m)

The unit of measurement shall be per metre length of pipe replaced. In each case the Contractor shall agree on the length of pipe to be replaced and the method of coupling the pipes.

The tendered rate shall include full compensation for cleaning and grubbing, excavation, removal of existing pipeline, dealing with waterlogged conditions, provision of bedding and additional backfill, logging and backfilling of replacement pipeline, finishing, repair of kerbs, road surfaces, accommodation of traffic, excavation in all materials, removal of unsuitable material from the trench, disposal of surplus materials.

The provision of the materials will be measured separately under CE 01.02.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

CE.01.02 Provision of materials

- (a) Pipelines Unit: metre (m)

The unit of measurement shall be the metre of pipe replaced.

- (b) Fittings Unit: number

The unit of measurement shall be the number of fittings installed.

The tendered rates shall include full compensation for all transport to the place of installation, storage, labour costs.

Separate pay items shall be listed for the pipe materials and fittings per diameter and class.

CE.01.03 Manhole covers, grid inlets and the like

- (a) SANS 558 Type 4 - covers, grids, etc, only:

- (i) Maximum dimension up to 300 mm Unit: number

- (ii) Maximum dimension 301 mm - 600 mm Unit: number

- (iii) Maximum dimension 601 mm - 900 mm Unit: number

- (iv) Maximum dimension over 900 mm Unit: number

- (b) SANS 558 Type 4 - frames only for covers, grids, etc:

- (i) Maximum dimension up to 300 mm Unit: number

- (ii) Maximum dimension 301 mm - 600 mm Unit: number

- (iii) Maximum dimension 601 mm - 900 mm Unit: number

- (iv) Maximum dimension over 900 mm Unit: number

- (c) SANS 558 Type 2A - covers, grids, etc, only:

- (i) Maximum dimension up to 300 mm Unit: number

- (ii) Maximum dimension 301 mm - 600 mm Unit: number

- (iii) Maximum dimension 601 mm - 900 mm Unit: number

- (iv) Maximum dimension over 900 mm Unit: number

- (d) SANS 558 Type 2A - frames only for covers, grids, etc:

- (i) Maximum dimension up to 300 mm Unit: number

- (ii) Maximum dimension 301 mm - 600 mm Unit: number

- (iii) Maximum dimension 601 mm - 900 mm Unit: number

- (iv) Maximum dimension over 900 mm Unit: number

The unit of measurement shall be the number of covers or frames installed. The classification of the size of each cover or frame will be based on the nominal dimensions of the unit and not on the actual dimensions.

**ACCELERATED SCHOOLS INFRASTRUCTURE DELIVERY INITIATIVE (ASIDI)
COMPLETION OF WATER SUPPLY PROJECTS IN OR TAMBO REGION:
CLUSTER: 3E – MNGENI SPS**

TENDER NO: DoEEC/13/2021

The tendered rates shall include full compensation for procuring, furnishing and placing the new covers, grids and/or frames. The tendered rates shall also include full compensation for removing and disposing of the damaged covers, grids and/or frames from the site.

CE.01.04 Corrosion protection

Corrosion protection of pipes with diameters of:

- | | | |
|-----|--------------------------------|-----------------|
| (a) | <u>Up to 100 mm dia</u> | Unit: metre (m) |
| (b) | <u>101 to 200 mm dia</u> | Unit: metre (m) |
| (c) | <u>201 to 300 mm dia</u> | Unit: metre (m) |
| (d) | <u>301 to 400 mm dia</u> | Unit: metre (m) |

The unit rate of measurement shall be meter length of pipe painted with corrosion protection in accordance with Specification LB: Corrosion protection.

The tendered rate shall include full compensation for preparation of pipe fittings, application of corrosion protection and curing of corrosion protection.

Separate items shall be scheduled for different types of pipework.



PART C4: SITE INFORMATION

C4.1: SITE INFORMATION

The school is located in the OR Tambo Municipality E 29.455719 S.-31.101433.

The Tenderers are expected to familiarise themselves with the areas during tender period. No claims would be considered from a Contractor during construction as a result of failure to familiarise themselves with the sites.

Contractors should note that this programme also includes sanitation projects in some of the schools that the provision of water infrastructure to schools is being carried out. It is therefore, likely to that the construction of the sanitation projects would be taking place during the implementation of this contract.

PART C5 : ANNEXURES

C5.1 OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

OCCUPATIONAL HEALTH AND SAFETY SPECIFICATION

Issued in terms of the Occupational Health and Safety Act, 1993
Construction regulations 2014

**PROJECT DESCRIPTION: ASIDI BASIC SERVICES
(WATER PROJECTS) CLUSTER 3E**

Independent Development Trust (IDT)

Prepared by:
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TABLE OF CONTENTS

1	SCOPE	2
2	DEFINITIONS	3
3	INTERPRETATION	3
4	THE OCCUPATIONAL HEALTH AND SAFETY FILE	4
5	GENERAL REQUIREMENTS	4
6	TRAINING, AWARENESS AND COMPETENCY	5
7	OCCUPATIONAL HEALTH & SAFETY MANAGEMENT	6
8	GENERAL RISK MANAGEMENT	8
9	COMMUNICATION ON SITE	10
10	CARE OF WORKERS ON SITE (WELFARE)	10
11	DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE	10
12	WORKING AT HEIGHTS	10
13	EXCAVATIONS	11
14	TEMPORARY WORKS	11
15	CRANES AND LIFTING OPERATIONS	11
16	ELECTRICAL AND MECHANICAL INSTALLATIONS	12
17	DELIVERY OF MATERIALS TO SITE	12
18	CONTRACTOR MANAGEMENT	12
19	NON-CONFORMANCES	12
20	PROJECT CLOSE OUT REQUIREMENTS	13
21	ANNEXURE A: INCIDENT RECORDING	14
22	ANNEXURE B: NOTIFICATION OF CONSTRUCTION WORK	16
23	ANNEXURE C: MANDATORY DOCUMENTS	18
24	ANNEXURE D: MEDICAL CERTIFICATE	21
25	ANNEXURE E: BASELINE RISK ASSESSMENT	23

Contractor ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

1 SCOPE

1.1 Scope of Application

This health and safety specification shall apply to the ASIDI Basic Services (Water Projects) - Cluster 3E as follows:

- Provides the overarching framework within which the Principal Contractor is required to demonstrate compliance with certain requirements for occupational health and safety established by the Occupational Health and Safety Act 85 of 1993 during construction work;
- Establishes the way the Principal Contractor is to manage the risk of health and safety incidents during construction; and
- Establishes the way the Client's Health and Safety Agent will interact with the Principal Contractor.

This specification establishes general requirements to enable the Principal Contractor to satisfy aspects of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Construction Regulations, 2014. The Principal Contractor is required to develop, implement, and maintain a site-specific health and safety plan. The Client is required to provide certain site-specific information to the Principal Contractor or a health and safety specification for the works to enable such a plan to be formulated. Accordingly, this specification on its own cannot ensure compliance with the requirements of the Act.

The Construction Regulations, 2014, requires a Client to stop any contractor from executing construction work which is not in accordance with the contractor's health and safety plan for the site or which poses to be a threat to the health and safety of persons.

1.2 Scope of Works

The scope of works for the project entails the following:

ASIDI Basic Services (Water Projects) - Cluster 3E.

1. MNGENI: 4 Months

Storage Tank:

- Install and Supply 10000L of storage tank.
- Install electricity to operate pump.

Storage Reservoirs:

Elevated Tanks

- Install 10000L of rainwater tank on elevated tank stands
- Recoat elevated tank stand
- Install rainwater fittings

Rising main:

- Complete compaction and backfill at rising main pipeline.

Communal Standpipes:

Remedial Work

- Install soakaways in all standpipes.
- Fix tank on standpipes

Rainwater tanks:

- Install downpipes and gutters

Remedial Work

- Fix leaks on rainwater tanks.
- Install soakaways in all rainwater tanks.

Fencing;

- Supply and install fencing around pump house
- Supply fencing Elevated tank.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

2 DEFINITIONS

As per the Occupational Health and Safety Act (85 of 1993) and the relevant regulations and applicable standards.

2.1 List of Abbreviations

CC	Compensation Commissioner
CHSA	Construction Health and Safety Agent
CHSO	Construction Health and Safety Officer
CR	Construction Regulations (Gazette 10113 of 07/02/2014)
DoL	Department of Labour
GAR	General Administration Regulations
GSR	General Safety Regulations
HCSR	Hazardous Chemical Substances Regulations
HIRA	Hazard Identification Risk Assessment
H&S	Health and Safety
OHSA	Occupational Health and Safety Act No. 85 of 1993 (as amended)
OHSS	Occupational Health and Safety Specification
PA	Principal Agent
PSHSS	Project Specific Health and Safety Specification
PC	Principal Contractor
PPE	Personal Protective Equipment
SANS	South African National Standards (Authority)
SDS	Safety Data Sheet
SWP	Safe Work Procedure

2.2 Key References

- Occupational Health and Safety Act, No. 85 of 1993 and Regulations (as amended)
- Construction Regulations 2014;
- Compensation for Occupational Injuries and Diseases Act, No. 130 of 1993 (as amended);
- Consolidated Directions on OH&S Measures in Certain Workplaces, 2020;
- SANS Standards; and
- Codes of Practice (COPs).

3 INTERPRETATION

The Occupational Health and Safety Act 85 of 1993, herein after referred to as “the Act” and its associated regulations, particularly the Construction Regulations 2014, shall have precedence in the interpretation of any ambiguity or inconsistency between it and this specification.

3.1 Purpose of the Project Specific Health and Safety Specification (PSHSS)

The PSHSS is a performance specification to ensure that the Client and any organization that enter into formal agreements with the Client / Agents, Professional Service Consultants (Engineers, Quantity Surveyors and Architects), Principal Contractors and Contractors achieve an acceptable level of OHS performance on the project.

No advice, approval of any document required by the PSHSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the PSHSS, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

A Mandatory Agreement in terms of Section 37.2 of the OHSA will be signed between parties prior to any works commencing. The PSHSS highlights the aspects to be implemented over

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

and above the minimum requirements of current legislation. Requirements may be changed should new risks or issues be identified that which could not have been foreseen during the design phase of the project, or during the construction phase. Any new legislation or standards (legislated or determined by the Client) that are promulgated or accepted during the contract will automatically be applied.

It should be well noted that in no way does this PSHSS relieve the Contractor of any of his responsibilities set out in the Act and Regulations.

4 THE OCCUPATIONAL HEALTH AND SAFETY FILE

As required by Construction Regulation 7, the Principal Contractor shall keep and maintain a Site Health and Safety File where all relevant health & safety records will be kept, including the Site Specific Health & Safety Plan, COVID-19 Plan and the relevant construction risk assessments as stated above. Other relevant information includes but not limited to:

- Copy of the OH&S Act, the Construction Regulations 2014 and any other Regulations required by law to be kept on site;
- Valid Letter of Good Standing with the Workmen's Compensation Commissioner;
- Principal Contractor Appointment Letter and Mandatary Agreement;
- Risk Assessments;
- Safe Work Procedures;
- Method Statements;
- Appointment Letters and Proof of Competency / Training Certificates;
- Attendance registers for inductions and toolbox talks;
- Emergency Preparedness Plan and Emergency Contact Numbers;
- Fall Protection Plan, including Fall Rescue Plan;
- Inspection records;
- Contractor Appointment Letters and Mandatory Agreements with Contractors; and
- COVID-19 Plan and Risk Assessment; etc.

5 GENERAL REQUIREMENTS

5.1 General Risk Management

The Principal Contractor must provide a detailed risk assessment for the entire works on site. Certain construction activities, equipment, substances etc. represent significantly higher safety risks than others. The risk assessment is required to define systems and safe working procedures that will be implemented on site in an endeavor to complete the activity safely. The set of risk assessments required to be submitted to the Client must include the assessment of health risks such as those that are associated with COVID-19, and other health risks which may result from lack of personal hygiene, ergonomic hazards, etc.

The contractor is required to:

- Identify health and safety hazards and risks to which persons may be exposed;
- Analyze and evaluate the identified hazards and risks;
- Document a plan which will highlight safe working procedures to mitigate, reduce or control the identified risks; and
- Develop a Monitoring and Review Plan of the hazards and risks.

The client baseline risk assessment provided with this specification aims to provide the framework within which the risks must be assessed for the construction phase of the project, and to highlight any reasonably foreseeable risks which may be inherent to the project based on its current scope of works. The BRA is therefore not the replacement of the contractor's risk assessment but rather to point the contractor towards some risks he might not be aware of during tendering stage and while conducting his formal risk assessment. The baseline risk assessment, which is attached as an Annexure to this specification must be used as a guide in conducting the construction phase risk assessments.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

6 TRAINING, AWARENESS AND COMPETENCY

6.1.1 Health & Safety Training

The Principal Contractor must ensure that all his / her staff is adequately trained to perform the tasks allocated to them and that there is the requisite amount of supervision at all times to maintain safe work practices and standards, particularly where semi-skilled and unskilled personnel are involved. The contractor shall conduct a training needs analysis to ascertain what health and safety training and re-training is required. No employees shall be allowed on site unless there is proof of induction training and some form of identification.

6.1.2 Induction

The contractor shall conduct a site-specific health & safety induction for all the employees, contractors and visitors to the site.

Copies of the attendance registers signed by the attendees as acknowledgement of attendance are to be kept on site in the health & safety file for verification during inspections and Client Audits.

The onsite induction training must also include precautionary measures to be taken on site to prevent the spread of COVID-19. Such measures shall include inter alia the importance of disclosure of any COVID-19 related symptoms, good personal hygiene, observing and maintaining safe social distancing, use of suitable PPE such as face masks, etc.

6.1.3 Awareness

The Principal Contractor shall conduct on-site periodic toolbox talks, preferably weekly or before commencing a hazardous work (activity). The talks shall cover the relevant activity and an attendance register and the contents of the topics discussed must be kept on site in the health & safety file.

Safety notices and symbolic signs, including health and safety awareness posters must be displayed at the site entrance and at strategic positions on the site to create health and safety awareness.

COVID-19 awareness signs, notices and posters must also be displayed at strategic positions.

6.1.4 Competency

The Principal Contractor shall send relevant persons to appropriate courses as required by the Act, relevant Regulations, and applicable safety standards. The type of training to be conducted will be determined after conducting a Hazard Identification and Risk Assessment (HIRA). Copies of training certificates must be kept on site in the health & safety file.

The training to be conducted is, but not limited to:

- Health & Safety Representative Course;
- First Aid Training,
- Fall Protection Planner (SAQA US 229994);
- Working at Heights (SAQA US 229998)
- Scaffolding Erectors and Inspectors;
- Incident investigation; and
- Hazard Identification & Risk Assessment Course.

6.2 Specified Hazardous Chemical Substances

The PC is to supply the products required as per the bill of quantities-, materials data sheets (MSDSs) for each of the product envisaged to be utilized on site. The South African MSDS to be provided.

7 OCCUPATIONAL HEALTH & SAFETY MANAGEMENT

7.1 Notification of Construction Work

The Principal Contractor must, where the Contract meets the requirements laid down in Construction Regulation 4, at least 7 days before that work is to be carried out, notify the Department of Labour of the intention to carry out construction work and use the form (Annexure 2 in the Construction Regulations) for the purpose. The notification of construction work must be signed by the Client and Principal Contractor prior to submission to the Department of Labour.

A copy of Annexure 2 and DOL acknowledgement letter shall be kept on file.

This must take place before any work commences.

It should be noted that in no way does this PSHSS relieve the Contractor of any of his responsibilities set out in the Act and Regulations.

7.2 Appointment of Competent Site Personnel

The CEO (OHSA S16.1) of the PC will take overall responsibility for the appointment of competent site staff for the duration of the project. Should the CEO not be personally involved in the project, the H&S responsibilities are to be delegated to the Acting CEO (OHSA 16.2). Knowledge and training in H&S are required, and certificates indicating H&S training as well as experience to be included in CVs. The designated Construction Manager (CR 8.1) shall also be empowered to appoint personnel on the site as part of his / her duty to ensure health and safety compliance.

All other legal appointments are to be made with relevance to the type of work to be performed.

7.3 Construction Manager (CR 8.1)

The Principal Contractor must in writing appoint one full time competent person as the construction manager with the duty of managing all the construction work on this single site, including the duty of ensuring occupational health and safety compliance. In the absence of the designated Construction Manager, an alternate must be appointed and the appointed shall have training and/or experience in the area of responsibility.

7.4 Construction Work Supervisor (CR 8.7)

The Construction Manager must in writing appoint construction work supervisor/s responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

7.5 Construction Health and Safety Officer (CR 8.5)

The Principal Contractor must appoint a suitably competent Construction Health & Safety Officer (CHSO) to co-ordinate his or her organization's health & safety efforts on the site.

The CV for the proposed CHSO must be submitted to the Client appointed CHSA for approval. The appointed CHSO must be **full time on the project but part time per school** and readily available on site during working hours. The CHSO must conduct monthly internal audits and random site safety and equipment checks, including overall compliance with the site-specific construction health and safety plan and procedures, and compile a monthly CHSO report to be tabled at each site progress meeting.

The minimum qualification for the CHSO must be a matric certificate, SAMTRAC qualification with at least two years and more experience on civil engineering and/or building projects.

The CHSO that the Principal Contractor intends to appoint must be registered as a CHSO with the SACPCMP and shall provide a valid registration certificate with the Council.

7.6 Health & Safety Representative / H&S Committee Member (OHS Act 17 & 19)

Irrespective of the number of employees employed on the site, the PC and contractors must each appoint a full-time health and safety representative, who at least has completed the

Contractor ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

necessary health and safety representative course. The election or appointment of health & safety representatives must be in writing.

Regular inspections are to be carried out by health & safety representatives; records must be kept on site in the health & safety file. Deviations must be rectified by the responsible person immediately.

The H&S representative will liaise and report to the health and safety officer.

In cases where there are more than two health & safety representatives elected, a health & safety committee must be established. Health and safety committee meetings must be held at least monthly to discuss relevant health & safety topics.

7.7 First Aider / First Aid Attendant

The Principal Contractor must appoint at least two Level 3 First Aid Attendant for the project and where practicable, one First Aid Attendant for each work team or section of the works. The appointed First Aid Attendants must be suitably qualified and have valid training certificates.

The Principal Contractor together with the responsible First Aid Attendant must ensure that the first aid boxes(s) are fully stocked.

7.8 Risk Assessor

The Principal Contractor is required to appoint a competent risk assessor and must understand the process of identifying hazards and assessing risks emanating from the identified hazards.

This appointed person can be an already designated health & safety officer because the task of assessing risks is an ongoing process and therefore risk review process must be done regularly.

This will also mean that that person will be responsible to put together a risk profile, rate the risks, and ensure that there are appropriate corrective action plans.

Further to that, there must be a direct link to the personal protective equipment / clothing and training to be conducted throughout the contract.

7.9 Other Appointments are stated below but not limited to:

- Drivers / Operators of Construction Vehicles and Plant;
- Electrical Installation & Equipment Inspector;
- Excavations Supervisor;
- Emergency / Security / Fire Co-ordinator;
- Fire Equipment Inspector;
- Temporary Works Supervisor and Inspector;
- Scaffolding Erector/s and Inspector;
- Stacking and Storage Supervisor;
- Hand Tools Inspector;
- Ladder Inspector; and
- COVID19 Compliance Officer;
- All other relevant Appointments for the Project.

The Principal Contractor shall, when appointing Contractors, shall do so in terms of the Construction Regulations 2014, and in terms of the requirements of Section 37(2) of the Occupational Health and Safety Act, 85 of 1993 (As amended).

The appointments shall be in writing and the responsibilities clearly stated together with the period for which the appointment / designation is valid. This information shall be communicated and agreed with the appointees as well as all the mandataries.

The Principal Contractor must provide a project specific health and safety organogram of all appointed / designated personnel and a list of contractors appointed on the project and shall always keep an up to date copy of each on site. The site organogram and list of contractors shall also be displayed on the site notice board.

The Principal Contractor is to ensure that each Contractor's H&S documentation is evaluated and approved in accordance with the Occupational Health and Safety Act 85 of 1993 (As amended) and applicable regulations. A copy of the Contractor's H&S Plan Approval is to be sent through to the appointed H&S Agent.

The Principal Contractor must ensure that an audit is conducted on each Contractor on a monthly basis before the arranged site progress meeting. This audit is to be conducted by the Principal Contractor's appointed H&S Officer and a report is to be given on each Contractor's H&S performance for the past month.

8 GENERAL RISK MANAGEMENT

8.1 Health Risks and Medical Surveillance

The appropriate MSDSs are to be obtained for all products and used to develop the H&S documentation as they relate to the works. The PC is to ensure and supervise safe use of products / chemicals, and their inclusion into risk assessments.

All employees on the site, including contractors, must be in possession of valid medical certificates of fitness to work, issued by an Occupational Health Medical Practitioner in the form of Annexure 3. These medical certificates shall be in the categories of pre-employment, annual and exit medical evaluation.

Furthermore, the medical surveillance program shall include initial screening of COVID-19 symptoms based on the professional advice of the OHMP / OHNP. Good personal hygiene must be promoted on the site and the sanitary and hand washing facilities with soap and running water must be provided.

8.2 Emergency Procedures

An emergency plan and procedure that is appropriate to the risks is required prior to commencement on site. It is advised that the system should be simple and easy for any worker to follow. The plan / procedure must include COVID-19 related emergencies such as responding to COVID-19 case/s on the site. Assembly point / area to be large enough to allow for social distancing during roll call.

The emergency plan is to ensure the inclusion of local service providers where possible, including nearest COVID-19 testing station. Such arrangements should be made with the service providers prior to the commencement of the project. An isolation area for COVID-19 suspected persons must be made available on site, preferably an enclosed area or room.

Local emergency telephone numbers must be displayed and made part of the emergency procedure. COVID-19 Emergency Contact numbers must also be included on the list

The general principals of emergency management are to be applied as it applies to the hierarchy of control and management.

8.3 Security and Access Control

The Principal Contractor shall establish site access rules, implement, and maintain these throughout the construction period.

Access control procedure shall ensure that non-employees do not proceed on to work areas unaccompanied by a senior site responsible person. All workers and visitors to site must be screened for COVID-19 symptoms before they can be allowed on site. Should a person exhibit any of the COVID-19 symptoms, that person shall not be allowed to site and must either be transported home or to the nearest testing centre.

8.4 Fires and Emergency Management

Attention to emergency planning and procedures is very important. Requirement in terms of identified risks:

- Fire;
- Public Safety;
- Working near water;
- Falls from heights;
- Electricity; and
- Riots.

The emergency plan is to ensure the inclusion of local service providers where possible. Such arrangements should be made with these persons prior to the commencement of the project; the emergency plan is to include the risks of fire on site and related to any specific activities.

Fire extinguishers will be appropriate for the risk and in sufficient numbers to deal with the type of fires that could occur.

8.5 Incident Management and Compensation Claims

All incidents and accidents are to be investigated using a form similar to Annexure 1 hereto attached. All serious incidents requiring medical attention or involving any form of disabling or lost time injury or fatality are to be reported to the Client /CHS Agent immediately. This shall be confirmed in writing following the incident.

8.6 Personal Protective Equipment (PPE) and Clothing

The PC is to provide PPE to all employees free of charge, based on the risk assessments and the type of work to be performed.

The wearing of the identified SANS approved PPE at all times is non-negotiable.

- Hard hats;
- Protective footwear;
- Overalls that ensure worker visibility.
- Eye protection (if required)
- Hearing protection;
- Reflective jackets (No bibs);
- Respiratory Protection (minimum of FFP2) for activities where a more effective mask other than a cloth masks is required;
- Safety Harnesses with Big Hooks; and
- Any other necessary PPE identified from MSDS's and/or risk assessments.

All employees and visitors to the site must always wear face masks to prevent the spread of COVID-19 both at the workplaces and within the surrounding communities.

8.7 Occupational Health and Safety Signage

As mentioned earlier on this document, on-site H&S awareness signage is required. Signage shall be posted up at fixed or temporary working areas, or other potential risk areas/operations. These signs shall be in accordance with the requirements of the General Safety Regulations or SANS requirements as amended. Signage is to be noted on the site layout drawing indicating where fixed/temporary signage is required.

The signage to be displayed shall be in respect of the following:

- No Un-authorized entry – Report to Site Office;
- COVID-19 Awareness Signage / Rules / Notices (i.e. Symptoms; Wearing of Masks; Personal Hygiene; Social Distancing; Isolation Area / Room, etc.)
- 'hard hat area' or other PPE requirements;
- First aid box positions (including vehicles);

- Fire extinguishers;
- Assembly Area;
- Scaffold Signage; and
- Deep Excavations.

Signs shall be posted at areas of work on site indicating that a construction site is being entered and that persons should take note of H&S requirements.

8.8 Induction of Employees and Visitors, General H&S Training

A simple, formal induction program is to be prepared which is site specific. Inductions must be carried out for all workers and visitors (including Client) to the site.

DSTI training is required to ensure workers are familiar with the risks and H&S measures of the work or tasks to be done.

9 COMMUNICATION ON SITE

All H&S communication during the project between the CHS Agent and the PC will be done in writing, including the issues and responses to non-conformances and H&S audit results.

10 CARE OF WORKERS ON SITE (WELFARE)

The provision of toilets at reasonable distances within the work areas is required in terms of the National Building Regulations and Construction Regulation 30. Clean drinking water is to be available to all employees at all times. Hand washing stations and / or 70% alcohol-based hand sanitizer must be provided. Hand washing soap must also be provided.

At any one time, no employee's belongings are to be found on the active construction area, the Principal Contractor is to ensure that adequate storage facilities are available for employee's belongings.

At least one toilet for each sex and for every 30 workers and must be maintained in a hygienic manner and disinfected regularly to reduce the spread of COVID-19.

Sheltered eating area to be provided for the workers on site. All facilities to be COVID-19 compliant. An isolation room / area for suspected COVID-19 cases must also be provided on site.

11 DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE

All employees (management included) are to follow instructions given in the interest of H&S. Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

No person shall be allowed to work or access the site if under the influence of alcohol or other substances that could impact on their own or others safety. Random alcohol testing shall be conducted on site. Care should be taken not encourage the spread of COVID-19. Single-use disposable alcohol test units to utilized and appropriately disposed of.

12 WORKING AT HEIGHTS

A practical site-specific fall protection plan as per the requirements of CR 10 needs to be compiled by a competent person as per unit standard 229994. The Fall Protection Plan must be submitted to the client appointed CHSA for evaluation and approval.

It is envisaged that scaffolding as well as ladders may be utilized to gain access to heights during construction work.

Scaffold erector/s and the scaffold inspector with relevant competencies must be appointed in writing for the purpose of erecting and inspecting scaffolding on the site. A scaffold supervisor must also be appointed to supervise all scaffolding operations on site.

Contractor ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

All employees who will be required to work at heights must be declared medically fit to work at heights by an occupational health medical practitioner and the medical certificates must be made available prior to work at heights. All employees working at height shall be in possession of working at heights certificates in line with US 229998.

When working at heights, the effects of wind forces must be considered, and the work must be stopped where significant wind forces are experienced.

13 EXCAVATIONS

The Principal Contractor is to provide a method statement for excavations, and this will be approved by the H&S Agent and the Engineer/Architect.

The Principal Contractor must ensure that all excavations are safe to enter prior to any work commencing and a competent excavation supervisor is to be appointed.

Area being worked at needs to be properly barricaded or fenced off. Barricading must be done in such a manner that prevents people and animals from falling into open excavations.

All deep excavations deeper than 1m must be sloped or shored to make the work environment for employees safe to work in.

All excavations deeper than 2m must be shored, and shoring must be signed off by the Construction Manager before any work can take place in such excavations.

All excavations on site where employees are performing work, must have a ladder for safe access and egress. The ladder must be long enough to protrude 900mm above the edge of an excavation and must be positioned at every 6m within the excavation length.

Excavations should preferably not be opened beyond what can be worked in daily.

Danger tape or candy tape is not permitted to be used on site as a means of barricading!

Suitable material such as hard-plastic mesh (long durability) adequately supported and being able to withstand a normal person's weight and the elements (wind, rain) must be utilized as barricading.

All open excavations shall be kept clean (dewatered) of stagnating water.

14 TEMPORARY WORKS

The Principal Contractor must appoint a competent person as a Temporary Works Designer to design, inspect and approve the erected temporary works on site before use. The appropriate competent persons are to be appointed to manage and monitor such works to the satisfaction of the Engineer and CHS Agent. Records of temporary works inspections and approvals are to be properly completed by the relevant competent persons and kept in the H&S file.

All temporary works must comply with the requirements of Regulations 6 and 12 of the Construction Regulations 2014. Workers who shall be required to erect, move, or dismantle temporary works structures must be provided with adequate training and instruction to perform those operations safely. If temporary works are to be erected by a Contractor, this must be notified to the Architect / Engineer / CHS Agent. All necessary calculations and drawings of temporary works must be kept on site and available to the PA and CHSA.

15 CRANES AND LIFTING OPERATIONS

Should any form of lifting device or crane (fixed or mobile) be used during the project for deliveries, moving of supplies or equipment, the appropriate documentation must be made available. Valid load test certificates for cranes and lifting tackle must be made available before use on site.

Method statements, risk assessments, safe work procedures and training records are to be available prior to work commencing. A procedure for managing loads and lifting operations on the site must be made available as an addendum to the Construction H&S Plan.

16 ELECTRICAL AND MECHANICAL INSTALLATIONS

All electrical and mechanical installations must comply with the requirements of the Health and Safety Act, the Construction Regulation 2014, other relevant regulations and applicable safety standards and industry best practice. This type of work may be done by specialist contractors, in which case, the requirements of Regulation 7 of the Construction Regulations 2014 must be complied with in respect of appointing such contractors. Relevant safe work procedures and technical method statements must be submitted for approval by the PC.

The work must be conducted by appropriately registered contractors and on completion of such installations, certificates of compliance issued by competent persons will be required.

17 DELIVERY OF MATERIALS TO SITE

The PC must reasonably manage all deliveries of material to site. Stacking and storage of materials to be properly coordinated by a person designated for that purpose.

PC to ensure all construction materials and articles are safely stacked in areas designated for that purpose and demarcated accordingly as material laydown areas.

18 CONTRACTOR MANAGEMENT

The Principal Contractor shall remain responsible for all the contractors appointed by him or her, including nominated and selected contractors and shall ensure that they also comply with requirements of this specification and legislated requirements.

All contractors shall be appointed in terms of the requirements of Regulation 7 of the Construction Regulations 2014 and shall enter into a written agreement with the Principal Contractor as stipulated in Section 37(2) of the Occupational Health and Safety Act, 85 of 1993.

Contractors must be appointed in writing by the Principal Contractor and they must submit health and safety plans which shall be evaluated and approved in writing by the Principal Contractor.

Each Contractor must be registered and in good standing with a licensed Compensation Insurer or Compensation Commissioner and a valid letter of good standing must be submitted to the PC.

The PC must audit all the contractors at least monthly and follow up on non-compliances and ensure such are attended to within reasonable time periods as agreed between the Principal Contractor and each Contractor. Audit reports to be made available for verification.

19 NON-CONFORMANCES

The Principal Contractor may be penalized for critical and / or repeat non-conformances with the requirements of this specification, the Principal Contractor's health and safety plan and current health and safety legislation. Penalties shall be in the form of monetary value or work stoppage or both. Penalties of monetary value shall be at the discretion of the CHSA, after consultation with the Client / Consulting Engineer or Architect.

The following constitute examples of the types of non-conformances that will attract penalties:

Minor: Fine: R50/count	Medium: Fine: R500/count and a non-conformance	Severe: Fine: R5000/count, a non-conformance and/or activity stoppage
Non-use of basic PPE supplied (e.g. Overalls, Safety Shoes, Hardhats) per person	Toilets not supplied or regularly serviced; lack of drinking water	Principal Contractors working without OHS Plan approval
Non completion of registers for plant and equipment on site	Contractors not audited	Workers transported in contravention of the OHS Plan or legal requirements
Lack of OHS signage at work areas	Working without training or the appropriate OHS Method Statements / SWP / HIRA	Invalid/expired Letters of Good Standing with licensed Compensation Insurer
Tools and equipment identified in poor condition during inspections	Non-conformances identified during the previous audit and not addressed within the agreed time frame	Allow people to work at heights without proper training and PPE
	No internal monthly Audit Report on file.	Fall Arrest Harness not tied off / worn when a risk of falling exists
	No Medical Certificates of Fitness for relevant workers	Threat to the OHS of persons
	Unsafe work at heights	3 rd Offence on Unsafe Work at Heights
	Poor Housekeeping	Failure to submit consolidated H&S report and relevant document.

Should, at any time, the works, or part of the works, be stopped due to unsafe acts or non-compliance with this specification, the PC's H&S Plan or any legislative requirements; the PC shall have no claim for extension of time or any other compensation.

20 PROJECT CLOSE OUT REQUIREMENTS

The documentation submitted and approved following the awarding of the contract will be used to form the H&S file. On completion of the project, a consolidated health and safety file consisting of the following documents but not limited to, shall be submitted to the client appointed CHSA:

- The H&S Plan and the approval by Client;
- PC Appointment Letter;
- Mandatory Agreement with Client;
- Notification of Construction work and Confirmation letter from DOL.
- Record of Competencies (CVs) and appointments;
- Training Records;
- Method statements;
- Risk assessments;
- Safe work procedures;
- Emergency and Injury Management (Accident Stats and Investigations);
- Medical surveillance records;
- Registers and Checklist;
- Internal H&S Audit Reports;
- Contractor H&S Audit Reports;
- Non-Conformance Reports; and
- Any other documents which may be required by the appointed CHSA.

The file must be submitted in an electronic copy stored on a flash drive and must be arranged chronologically in folders and subfolders where necessary.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

ANNEXURE 1

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
(ACT NO 85 OF 1993)

REGULATION 9 OF THE GENERAL ADMINISTRATIVE REGULATIONS

RECORDING AND INVESTIGATION OF INCIDENTS

A. RECORDING OF INCIDENT

1. Name of employer
2. Name of affected person.....
3. Identity number of affected person.....
4. Date of incident
5. Time of incident.....

6. Part of body affected

Head or Neck	Eye	Trunk	Finger	Hand
Arm	Foot	Leg	Internal	Multiple

7. Effect on person

Sprains or strains	Contusion or wounds	Fractures	Burns	Amputation
Electric shock	Asphyxiation	Unconsciousness	Poisoning	Occupational Disease

8. Expected period of disablement

0-13 days	2-4 weeks	>4-16 weeks	>16-52 weeks	>52 weeks or permanent disablement	Killed
-----------	-----------	-------------	--------------	------------------------------------	--------

9. Description of occupational disease.....
10. Machine/process involved/type of work performed/exposure**
11. Was the incident reported to the Compensation Commissioner and Provincial Director?

Yes	No
-----	----
12. Was the incident reported to the police?*

Yes	No
-----	----

13. SAPS office and reference

*to be completed in case of a fatal incident.** in case of a hazardous chemical substance, indicate substance exposed to

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

**B. INVESTIGATION OF THE ABOVE INCIDENT BY A PERSON DESIGNATED
THERE TO**

1. Name of investigator
2. Date of investigation
3. Designation of Investigator
4. Short description of incident
.....
.....
.....
5. Suspected cause of incident
.....
.....
.....
6. Recommended steps to prevent a recurrence
.....
.....
.....
.....

.....
Signature of Investigator

.....
Date

**C. ACTION TAKEN BY EMPLOYER TO PREVENT THE RECURRENCE OF A SIMILAR
INCIDENT**

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

.....
Signature of employer

.....
Date

D. REMARKS BY HEALTH AND SAFETY COMMITTEE

Remarks

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

.....
Signature of Chairperson of Health and Safety Committee

.....
Date

Contractor ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

Annexure 2

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

(Regulation 4 of the Construction Regulations, 2014)

NOTIFICATION OF CONSTRUCTION WORK

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

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

2. Principal contractor's compensation registration number:

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

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

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

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

5. Name and telephone number of principal contractor's construction supervisor on site appointed in terms of regulation 8(1).

6. Name(s) of principal contractor's sub-ordinate supervisors on site in terms of regulation 8(2).

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

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

8. Nature of the construction work:

9. Expected commencement date:

10. Expected completion date:

11. Estimated maximum number of persons on the construction site.

Total:

Male:

Female:

12. Planned number of contractors on the construction site accountable to principal contractor:

13. Names(s) of contractors already selected.

Principal Contractor

Date

Client's Agent (where applicable)

Date

Client

Date

- THIS DOCUMENT IS TO BE FORWARDED TO THE OFFICE OF THE DEPARTMENT OF LABOUR **PRIOR TO COMMENCEMENT** OF WORK ON SITE.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

**OCCUPATIONAL HEALTH AND SAFETY ACT (85 OF 1993)
CONSTRUCTION REGULATIONS 2014**

AGREEMENT WITH MANDATARY

In terms of Section 37(1) and (2)

WRITTEN AGREEMENT ENTERED INTO AND BETWEEN

AND

*Agreement with Mandatary to be completed in black ink and each page
and any change made to be initialled*

**OCCUPATIONAL HEALTH AND SAFETY ACT OF 1993
AND CONSTRUCTION REGULATIONS 2014
REQUIREMENTS:**

1. Your attention is drawn to "General Duties of Employers to their Employees" as required by Section 8 of the Act.
2. You are required to:
 - 2.1. Sign a written "Agreement with Mandatary" as required by Sect 37(1)(2) of the Act before commencing any work on site.
 - 2.2. Ensure that all your employees receive the necessary Induction Training and have proof thereof.
Note: You must ensure that all employees under your control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences.
 - 2.3. Ensure the provision of Welfare Facilities for your employees as per Construction Regulation 28.
 - 2.4. Provide the Client/Principal Contractor with your SHE Plan and Specifications
 - 2.5. Ensure that Method Statements, Risk Assessments and Safe Work Procedures are done and available.
 - 2.6. Provide the Client/Principal Contractor with written appointment of the person who is going to supervise the Construction Work per Construction Reg. 8
 - 2.7. Provide the Client/Principal Contractor with written designation of your nominated Health and Safety Representative as per Section 17(1).
Note: Your Health and Safety Representative will be expected to attend the Client/Principal Contractor safety meetings.
 - 2.8. If you employ more than five (5) persons, you are required to provide your own First Aid Box (GSR 3(2)).
 - 2.9. If you employ more than ten (10) persons, you are required to provide your own qualified First Aider as per GSR 3(4)
Note: If you have difficulty in complying with items 2.7 and 2.8 above, you may arrange/come to an agreement with the Client/Principal Contractor to make use of his First Aid facilities in case of injury. You will be expected to communicate such an agreement to your employees.
 - 2.10. When working with Hazardous Chemical Substances, comply with HCS Reg. 3
Note: Asbestos and Lead Regulations are separate.
 - 2.11. When using a Materials Hoist, comply with the requirements of Construction Reg. 19.
 - 2.12. When using Lifting Machines and Lifting Tackle, comply with DMR 19
Note: You may be required to appoint a Banksman to control Lifting/Slings operations
 - 2.13. When erecting/using Scaffolding comply with the requirements of SANS/0085 "Access Scaffolding"
 - 2.14. When doing Demolition Work, comply with Construction Reg. 14
 - 2.15. When doing blasting to comply with Explosives Regulations Chapter 10
 - 2.16. When doing Excavation Work, comply with Construction Reg. 13
 - 2.17. When doing Electrical Installations, comply with the requirements of Construction Reg. 24
Note: Electrician to provide copy of registration as per Elect. Install. Reg. 9(3)
 - 2.18. When using Construction Vehicles, comply with Construction Reg. 23
 - 2.19. When using/erecting Support/Form Work, comply with Construction Reg. 12
 - 2.20. When working over or in close proximity to Water, comply with Construction Reg. 26
 - 2.21. Ensure that good Housekeeping, Stacking and Storage principles are applied on this project as per Construction Reg. 27 and 28
 - 2.22. Ensure that appropriate measures are taken to avoid the risk of Fire/Explosion and comply with requirements of Construction Reg. 29
 - 2.23. If you are going to work at heights a Fall Protection Plan must be submitted (roof work included) as per requirements of Construction Reg. 8
 - 2.24. When using Explosive Powered Tools, comply with GSR 19
 - 2.25. When Welding, Flame Cutting/Soldering, comply with GSR 9
 - 2.26. When working in Confined Spaces, comply with GSR 5
3. You are responsible for providing your own legal safety documents and registers to comply with the Act's requirements a copy of the OHS Act of 1993 and the Construction Regulations ;2003 will be available for perusal in the Principal Contractor's site office.
4. You are required to comply with General Safety Regulations 2(1) to (7) and provide your employees with: personal protective equipment which will allow them to carry out their work in a safe manner, e.g. hard hats, safety harnesses, gloves, safe footwear, eye protection, ear protection, waterproof clothing etc.
5. Reporting of Incidents of Occupational Diseases shall be done as per General Admin. Regulation 8 (Also see Sect 24 of the Act)
6. Compensation for Occupational Injuries and Diseases Act (No 130 of 1993) You are required to provide the Client/Principal Contractor with proof of registration with the Compensation Commissioner/Federated Employer(s) Mutual when signing this agreement. If you are not registered, the Client/Principal Contractor may deduct the necessary amounts from your progress payments and pay it over to the Commissioner to ensure that you are insured. See Section 80 and 89 of the COID Act.

Client Signature

Principal Contractor Signature

Date

Date

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

AGREEMENT WITH MANDATARY IN TERMS OF SECTION 37(1) AND (2)

DEFINITION OF MANDATARY

- includes an agent, a contractor or sub-contractor for work, but without derogating from his status in his own right as an employer or user

SECTION 37(1)

Whenever an employee does or omits to do any act which it would be an offence in terms of this Act for the employer of such employee or a user to do or omit to do, then, unless it is provided that –

- (a) in doing or omitting to do that act the employee was acting without the connivance or permission of the employer or any such user;
- (b) it was not under any condition or in any circumstance within the scope of the authority of the employee to do or omit to do an act, whether lawful or unlawful, of the character of the act or omission charged; and
- (c) all reasonable steps were taken by the employer or any such user to prevent any act or omission of the kind in question, the employer or any such user himself shall be presumed to have done or omitted to do that act, and shall be liable to be convicted and sentenced in respect thereof; and the fact that he issued instructions forbidding any act or omission of the kind in question shall not, in itself, be accepted as sufficient proof that he took all reasonable steps to prevent the act or omission.

SECTION 37(2)

The provisions of subsection (1) shall mutates mutandis apply in the case of a mandatary of any employer or user, except if the parties have agreed in writing to the arrangements and procedures between them to ensure compliance by the mandatary with the provisions of this Act.

ACCEPTANCE BY MANDATARY

In terms of the provisions of Section 37(2) of the Occupational Health and Safety Act 1993

I, _____ acting for and on behalf of

(Company/Close Corporation/Enterprise/

Owner/User) undertake to ensure that the requirements and provisions of the Act and Regulations are complied with.

Signature: _____ Print Name: _____

Contractor:

Designation: _____ Date: _____

Mandatary-Workmen's Compensation/Federated Employers Mutual No: _____

Signature: _____

Client:

Designation: _____ Date: _____

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

OCCUPATIONAL HEALTH AND SAFETY ACT OF 1993
CONSTRUCTION REGULATIONS 2014

PRINCIPAL CONTRACTOR APPOINTMENT

CONSTRUCTION REGULATION 5

5(1): A Client shall be responsible for the following:

- k) to appoint every principal contractor in writing for the project or part thereof on the construction site

APPOINTMENT

Principal Contractor, _____ (name)

of: _____ (Company/Close Corporation/Enterprise/Owner/and Labour Only Contractor) is hereby appointed to perform construction work

at: The Redevelopment of Mdantsane Sports Precinct NU2 Swimming Pool for the Buffalo City Metropolitan Municipality

Job/Safety specifications:

You are reminded that:

1. your documented Health and Safety plan based on the Clients Health and Safety Specifications, is provided to the Client before commencing work on site
2. the Client will discuss/negotiate with you regarding the contents of the Health and Safety Plan to approve it for implementation
3. a Health and Safety File, which shall include all documentation required in terms of the provisions of the Act and Regulations are kept available on site for inspection (Risk Assessments and Fall Protection Plan)
4. should you appoint a Contractor to perform or assist you with Construction Work, the responsibilities as required by the Construction Regulations shall apply to you as if you were the Client
5. you are to promptly provide the Client with any information which might affect the Health and Safety of any person at work carrying out Construction Work or any person who might be affected by the work of such a person at work or which might justify a review of the Health and Safety Plan
6. as per Regulation 5(1)(o) audits of your Health and Safety Plan will be undertaken on at least a monthly basis.
7. all your Employees must undergo Safety Induction before starting work

Signature: _____ Date: _____
(Client)

Designation: _____

ACCEPTANCE OF APPOINTMENT

I, _____ accept and understand the requirements of this appointment

Signature: _____ Date: _____
(Principal Contractor)

Designation: _____

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

MEDICAL CERTIFICATE OF FITNESS

[illegible]

Page 22

25 ANNEXURE E: BASELINE RISK ASSESSMENT

25.1 PURPOSE:

This report discusses the Scheduled Risk Analysis Process and results for ASIDI Basic Services (Water Projects) - Cluster 3E: OHS Agent Quotation. A Risk Analysis was performed to identify project elements that could have an impact on the project, costs, and schedule. The purpose of this document is to identify as much risks and control measures as possible.

25.2 PROJECT SCOPE:

Refer to paragraph 1.2.

ASIDI Basic Services (Water Projects) - Cluster 3E

Risk Assessment Matrix

Risk Prioritisation Number / Risk Rating = Severity x Likelihood

Severity Table

Pt	Severity level	Workplace Safety	Workplace Health	Loss / Damage	Downtime Incurred
5	Critical	Fatality, single or multiple	Acute Poisoning, Failure of Major Bodily Functions	More Than R10 million damages	More than 1 year for full re-instatement
		Permanent Body Injury or Loss of Use for more than 30 days	Infection with No Known Cure		
4	Very Serious	Injury requiring 30 days of hospitalisation and/or medical leave	Moderate exposure, Reversible injury to Bodily Functions on prolong recovery	More Than R1 million damages	More than 3 months for full re-instatement
		Temporary Body Injury or Loss of Use for more than 10 days but not exceeding 30 days	Infection with Known Cure but extensive treatment		
3	Serious	Injury requiring 10 days of hospitalisation and/or medical leave	Mild exposure, Reversible injury to Bodily Functions with less than 30 days recovery	More Than R100k damages	More than 1 month for full re-instatement
		Temporary Body Injury or Loss of Use for up to 10 days	Infection with Known Cure but extensive treatment		
2	Marginal	Injury requiring maximum of 3 days of medical leave only	Very Mild exposure, Reversible injury to Bodily Functions with less than 3 days recovery	More Than R10k damages	More than 5 days for full re-instatement
		Temporary Body Injury or Loss of Use for 3 days or less	Infection with Known Cure but treatment needed		
1	Negligible	First aid treatment only	Very Mild exposure, Reversible injury to Bodily Functions with less than 3 days recovery	Less than R5k damages	No significant downtime
		No or superficial injury	No Exposure		

Likelihood Table

Pt	Likelihood level	Likelihood of Occurrence / Exposure Criteria
5	Frequent	Likely to occur many times per year
4	Moderate	Likely to occur once per year
3	Occasional	Might occur once in three years
2	Remote	Might occur once in five years
1	Unlikely	Might occur once in ten years

Risk level Determination - 5 x 5 Matrix

		SEVERITY				
		Critical (5)	Very Serious (4)	Serious (3)	Marginal (2)	Negligible (1)
LIKELIHOOD	Frequent (5)	25 Operation not permissible	20 Operation not permissible	15 High priority	10 Review at appropriate time	5 Risk acceptable
	Moderate (4)	20 Operation not permissible	16 Operation not permissible	12 High priority	8 Review at appropriate time	4 Risk acceptable
	Occasional (3)	15 High priority	12 High priority	9 Review at appropriate time	6 Risk acceptable	3 Risk acceptable
	Remote (2)	10 Review at appropriate time	8 Review at appropriate time	6 Risk acceptable	4 Risk acceptable	2 Risk acceptable
	Unlikely (1)	5 Risk acceptable	4 Risk acceptable	3 Risk acceptable	2 Risk acceptable	1 Risk acceptable

Review the risk assessment records every year or whenever there are changes in processes, work activities or upon any incident occurrence, whichever is earlier.

Action Table

Colour	Score	Risks	Action
	16 - 25	High	Manage risk Stop operation & review controls. If necessary abort experimentation.
	12 - 15	Warning	High priority remedial action Proceed with extreme caution with supervision at all times. Implement additional (secondary) controls immediately. Review within 7 days. Emergency control measures shall be in place.
	8 - 10	Medium	Take remedial action at appropriate time Proceed with care. Additional control is advised. Review shall be implemented within 30 days.
	1 - 6	Warning	Risk acceptable: Residual risk If possible, risk reduction should be further considered, particularly severity. There are no imminent dangers. Frequent review shall be in place especially changes in procedures, materials or environment.

BASELINE HAZARD IDENTIFICATION AND RISK ASSESSMENT												
CLIENT / EMPLOYER				Independent Development Trust (IDT)								
PROJECT / CONSTRUCTION SITE & EXACT LOCATION OF THE WORKS				ASIDI Basic Services (Water Projects) - Cluster 3E								
Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
GENERIC RISK ASSESSMENT												
1	Notification of Construction Work	Principal Contractor not submitting the required documentation timeously.	Delayed submission of documentation to the Department of Employment and Labour resulting in project delays.	3	1	3	Principal Contractor to begin with document preparation immediately after formal appointment and liaise with the Client appointed Pr CHSA.	N/A	N/A	N/A	N/A	Acceptable Risk
2	Gaining access to site	Restricted access to site (Parking and/or delivery areas)	Damage to private vehicles, construction vehicles and/or mobile plant, delivery vehicles.	3	1	3	Proper layout of site by Construction Manager, taking into consideration all transport plant and material movements and storage on site. Construction Manager to check layout Drawing to compare with the requirements of the OHS Act and other relevant regulations.	N/A	N/A	N/A	N/A	Acceptable Risk
3	Site security and safeguarding	Lack or absence of access control. Inadequate security fence.	Uncontrolled access to construction site. Injury to persons. Theft / property loss.	3	4	12	Security guards to be appointed to keep watch. Security fencing to be a minimum height of 1.8 metre around site area together with two double gates. Symbolic safety signage.	2	3	6	Principal Contractor	To be monitored and implemented on an ongoing basis
4	Clear And Grub	Damaging of unknown underground pipes and services	Work stoppage Flooding Electrical shock Interruption of services	4	3	12	Supervisor to determine and demarcate position of services. Toolbox talk and D.S.T.I. Drawings for existing services;	4	2	8	Engineer / Principal Contractor	Remedial action is required
		People in the vicinity of plant	Fatalities or injuries	5	3	15	Warning signs to be placed. Acoustic warning systems such as reverse alarms; High visibility clothing;	4	2	8	Principal Contractor	Remedial action is required
		Dust	Occupational illness Eye irritation / injury	5	3	15	Workers to be issued with and to wear dust masks; Use dust suppression methods. Vehicles to keep to speed limit.	4	2	8	Client and / or Principal Contractor	Remedial action is required
5	Storage of flammables	Unsafe storage of flammables.	Risk of fire, explosions resulting to burns to the body or even multiple fatalities. Fire spreading to adjacent structures. Serious damages to property.	5	2	10	Flammable store to be well ventilated and fitted with a roof to protect from direct exposure to sunlight. HCS Supervisor / Controller to be designated in writing. Induction of workers and visitors.	5	1	5	Principal Contractor	Proceed with care. Additional control is advised.
6	Temporary electrical installations	Incompetent and/or unregistered electricians. Incorrect/unsafe installations. Damaged cables. Exposed wires.	Electrocution, fires. Serious damages to property. Serious injuries, possible fatalities.	4	2	8	Installation to be done by a competent registered electrician or registered electrical contractor. Electrical Installations Inspector to be designated in writing.	4	1	4	Principal Contractor	Proceed with care. Additional control is advised. Temporary Electrical Installations Inspector to monitor and control.
7	Availability of basic facilities and emergency services / equipment.	Not having the essential services readily available.	Worsening of first aid injuries. Detrimental health to employees. Spread of fires.	4	3	12	Services to be available during site establishment: - Fire fighting equipment. - First aid boxes. - First aider. - Drinking water and water for hand washing. - 70% Alcohol-Based Hand Sanitizer - Toilets.	3	2	6	Principal Contractor	Proceed with care. Additional control is advised.
8	Public safety	Not informing employees and public what the site rules are.	Injuries to persons and / or the public. Public liability / court claims.	4	4	16	Induction of workers and visitors. Symbolic safety signs and notices	3	3	9	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
9	Designation of laydown areas	With inadequate space various materials will be stacked on top of each other causing unstable stacks.	Unstable stacks of materials may fall onto persons resulting in serious injuries / even fatality.	5	3	15	Laydown areas to be sufficient in size. Timber poles and/or other suitable base material to be available to stack materials on. Laydown areas to be of firm level ground.	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
10	Condition of ablution facilities.	Unclean and unhygieninc ablution facilities. Non-ventilated ablution facilities.	Possible health problems due to propagation of germs.	3	3	9	Toilets are to be well ventilated and kept clean and hygienic at all times. Water for washing of hands to be readily available.	3	2	6	Principal Contractor	Proceed with care. Additional control is advised.
11	Poor waste management	Poor waste management on site	Environmental pollution (Workplace, Air, Ground & Water)	2	3	6	Good housekeeping and waste disposal always in work areas and laydown areas	2	2	4	Principal Contractor	Acceptable Risk
12	Selection of workers / staff for site	Employees medically unfit and incorrectly placed for job categories.	Accidents resulting in injuries and/or damage to property.	3	5	15	All employees to have medicals done before commencing work on site. Employment of local labour to be done in accordance to issued specification relating to the matter.	3	3	9	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
		Incompetent staff appointed on project	Accidents due to incompetency resulting in serious injuries and/or damage to property. Possible fatality/ies.	5	4	20	Skilled staff to have proof of competencies available. Appointed contractor to ensure all qualifications of staff are verified before appointment for project.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
		Employees not inducted prior to commencement on site.	Accidents resulting in injuries and/or damage to property.	5	3	15	All staff to be inducted for site before work commences. Contractor to ensure induction is project specific. Every one coming into the site for the first time must be inducted (Visitors).	5	1	5	Principal Contractor	Proceed with care. Additional control is advised.
*RPN - Risk Prioritization Number												

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
WORK SPECIFIC RISK ASSESSMENT												
1	Use of hand tools	Sub-standard and unsafe hand tools; Incorrect use.	Injury to parts of the body	2	5	10	PPE, checks/inspection registers, control, training.	2	3	6	Principal Contractor	Proceed with care. Additional control is advised.
2	Use of portable power tools	Sub-standard electrical power tools and incorrect use thereof.	Damage to private vehicles, construction vehicles and/or mobile plant, delivery vehicles.	3	5	15	Control, checks, issue and inspection registers to be completed, Training, emergency action / plan	3	3	9	Principal Contractor	Remedial action is required
3	Loading and Off-loading	Unsafe offloading of material and unsafe material stacks; Heavy objects and manual handling; Shortage of persons for task;	Objects falling from heands leading to injury to persons and damage to property; Back pains and musculo-skeletal injuries;	3	4	12	Adequate number of workers for the task at hand; Proper training and induction on manual handling techniques; PPE and adequate supervision; Use designated area for offloading, stacking and storage of material.	3	3	9	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
4	Stacking and storage	Improper stacking and storage.	Serious injuries and/or fatalities.	3	4	12	Good housekeeping; Competent Stacking & Storage Supervisor; Demarcated material laydown areas; Stacking and storage inspections;	3	3	9	Principal Contractor	Remedial action is required
5	Lifting operations	Unsafe use of lifting equipment and Lifting plant (Cranes) Lifting Equipment / Tackle not load tested; Incompetent Operators;	Falling of suspended loads due to equipment failure causing serious injuries / fatalities, property damage, production loss.	5	4	20	Load testing and inspections, Inspection registers & load test certificates; Control by equipment identification, replace defective equipment; Accredited training per category/unit standards of Lifting machines.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
6	Working in Elevated Areas / Heights	Unsafe / incorrect use of ladders / scaffolding; Poor erection of scaffolding; Non-Use of Recommended FAS; Lack of Edge Protection;	Falling from height resulting in serious injuries or fatality; Scaffolding collapse leading to multiple serious injuries or fatalities, damage to property and production loss.	5	4	20	Comprehensive fall protection plan developed by a competent fall protection plan developer; Competent scaffold erectors and inspectors; Proper erection and inspection of all scaffolding; Work at heights training and competency; Adequate supervision;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
		Falling objects	Objects falling on workers below, resulting in serious head injuries and Equipment/tools damage.	5	4	20	Installation of nets and toe boards; Worker training and induction; Regular tool box talks; Identification of "no go areas" and putting up warning signage; Provision of hard hats and other PPE;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
7	Excavation Work	Use of heavy equipment on site to excavate; Incompetent operators; Poor visibility;	Collisions with other machines or workers resulting in serious injuries or fatality and property damage; Heavy machinery falling into excavations;	4	4	16	Appoint competent Excavatio Supervisor; Fit and competent operators to be appointed for the job; Workers to wear high visibility clothing at all times; Worker training and induction; Regular safety talks; Workers to stay clear of heavy machinery; Dust control measures to be in place;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
		Excavating by hand	Injuries due to unsafe use of picks and shovels; Collapse of excavations while there are workers inside leading serious injuries.	4	3	12	Workers keep a safe distance from each other when using picks and shovels; Induction and clear work instruction; Inspection of excavations at appropriate intervals; Adequate supervision;	4	2	8	Principal Contractor	Remedial action is required
		Open trenches / unprotected excavations	Physical injury due to falling into excavations	4	4	16	Open trenches and excavations must be kept to a minimum where possible; Monitoring and barricading of excavations with suitable protective material; Proper instruction and warning signage;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
8	Excavation Work (Cont.)	People & vehicle / plant movement in close proximity to excavations	Serious injuries or fatality; Asset Damage; Production Loss;	5	4	20	All excavations deeper than 1.5m shall be adequately shored and braced if not sloped; All excavation areas to be barricaded until backfill is complete; Daily Excavation inspections to be conducted before work commences by the appointed inspector (CR13(1)(a)); Checklists to be handed to safety officer for filing; Warning & prohibition signage to be installed at access to excavation. Restrict access to excavation area only to authorized persons & plant .	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
9	Existing Services	Not being aware of existing services (i.e. Electrical and data cables; water and sewer lines)	Damage to existing services; Power cuts, flooding and sewer spillages; Coming into contact with live electrical services may result into electrocution causing serious injuries or even fatality;	5	4	20	As-built drawings and drawings for existing services; Induction of workers and proper work instruction; Wearing of non-conductive gloves when exposing services by hand; Competent operators; Adequate supervision;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
10	Operating of Heavy Construction Vehicles and Mobile Plant on site	Failure to inspect vehicles and mobile plant; Faulty vehicles and plant;	Equipment failure resulting in serious injuries or fatalities, asset damage and production Loss	5	3	15	Daily pre-use inspections by drivers and operators; Maintenance plans / schedules and implementation; Induction of workers and visitors; Plant to be equipped with warning devices (construction light, reverse hooter, flag, etc.)	4	2	8	Principal Contractor	Remedial action is required
		Incompetent and unfit operators;	Vehicle and plant collisions resulting in serious damage to property and loss of production; Workers / visitors being bumped or run over by vehicles and plant resulting in serious injuries or even fatality;	5	3	15	Operator to be inducted & appointed in writing; Proof of medical fitness to be available; Proof of competency and licencing to be made available prior; High visibility clothing and alertness to the immediate surroundings;	4	2	8	Principal Contractor	Remedial action is required
11	Temporary Works	Poor or no temporary works designs; Incompetent Erectors and / or Inspector; Poorly erected temporary works;	Poorly erected temporary works or temporary works not erected according to the design may collapse resulting into serious injuries, multiple fatalities, property damage and loss of production	5	4	20	Competent person/s to design, supervise, inspect and approve temporary works must be appointed; Temporary works designs to be made available; Training of temporary works erectors; Regular safety talks and adequate supervision; Inspection of temporary works as prescribed;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
12	Steel Fixing	Poor housekeeping - Steel lying around in work areas;	Tripping / falling over obstacles on ground resulting in injury to workers;	3	5	15	Daily removal of offcuts/ left over steel: daily tidying of stacked/ stored material; Create level pathway to job;	3	3	9	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
		Placing / fixing steel at heights over 1.5m above ground: decks;	Loose deckplates allowing workmen to fall through, fall from height resulting in serious injuries or even fatality;	5	4	20	Provision of working platform with access ladders and handrails, as well as fall arrest equipment where scaffold is not possible; Supervisor to ensure deck panels are inspected before commencing work;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
13	Concrete Work - Delivery of concrete by supplier (Ready Mixed)	Ready-mix trucks may collide with other vehicles on site;	Property damage, injury to workers and / or driver;	4	4	16	Ready mix to indicate prior to entering the site and be guided/directed to the off-loading zone, ensure min speed limit clear access route of other site vehicles as well as workers;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
14	Concrete Work - Delivery of concrete by chute to job	Manual handling of chute; Uneven terrain / obstacles on ground may cause slips/ trips/ falls;	Injuries to workers : hands, body, head etc.	4	4	16	Training in correct handling methods / provision of gloves; Ground to be free of obstacles; Supervisor to ensure correct / specified Gloves are worn (PVC);	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
15	Concrete Work (Cont.) - Delivery of concrete at height over 1.5m	Fall from height;	Serious injuries or fatality;	5	4	20	Provision of working platforms with access ladders and handrails; Supervisor to monitor and take control;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
16	Concrete Work - General (Placing concrete from bucket hoisted by crane)	Concrete bucket hitting the worker; Opening and closing of bucket;	Injury to workers, time lost, and possible fatal incidents.	5	4	20	Only the Banksman / Spotter responsible for directing the crane during loading and discharging, workers to be advised to stand clear of the path of the bucket; Supervisor to ensure clear visual communication at all times; Ensure bucket is properly closed after each placing, use correct PPE issued on the "PPE Schedule"	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
17	Concrete Work - General (Vibrating concrete)	Concrete splash from vibrating, operating the poker;	Injury to workers, possible serious injuries;	4	5	20	Use correct PPE issued on the "PPE Schedule" ; Operator self check for PPE; Supervisor to ensure and control;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
18	Brick Work	Mixing of mortar - Faulty hand tools;	Injury to workers	3	5	15	Use of correct PPE, tools in good condition; Supervisor to monitor; Regular tool box talks;	3	3	9	Principal Contractor	Remedial action is required
		Stacking or Placing bricks at work - Bricks falling over, brick could cut skin	Injury to parts of the body	3	5	15	Proper and safe stacking of bricks; Use of correct PPE; Regular toolbox talks Adequate supervision;	3	3	9	Principal Contractor	Remedial action is required
		Supplying mortar to bricklayer; Brickwork's to walls - faulty hand tool, poor standard of scaffolding or trestless	Injury to parts of the body	3	5	15	Use of correct PPE; Good standard of scaffolding/ trestles, tools in good condition;	3	3	9	Principal Contractor	Remedial action is required
		Placing window, door frames, and lintels - Falling frames and lintels;	Injury to workers, possible serious injuries;	4	4	16	Checks to be done to confirm that windows and door frames are well stayed; Use of correct PPE; Supervisor to monitor and control;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
19	Contractor Management	Unapproved contractors on site	Legal non-compliance; Risk to Client and project; Stoppages due to non-compliance;	5	3	15	Principal Contractor to ensure health and safety files for contractors are approved 7 days prior to commencing work. Internal audits must be conducted on contractors and proof of this to be on file; Enforcement of legal requirements;	5	2	10	Principal Contractor	Remedial action is required

*RPN - Risk Prioritization Number

COVID-19 HEALTH AND SAFETY SPECIFICATION

Issued in terms of the Occupational Health and Safety Act, 1993
Construction regulations 2014

**PROJECT DESCRIPTION: ASIDI BASIC SERVICES
(WATER PROJECTS) CLUSTER 3E**

Independent Development Trust (IDT)

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TABLE OF CONTENTS

1	INTRODUCTION	2
2	DEFINITIONS (RELATED TO COVID-19)	2
3	KEY REFERENCES	2
4	PURPOSE OF THE ADDENDUM	3
5	SCOPE	3
6	COVID-19 RISK ASSESSMENT	3
7	COVID-19 H&S PLAN	4
8	DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE	9
9	NON-CONFORMANCES	9
10	ANNEXURE A: SECTORAL GUIDELINE	10
11	ANNEXURE B: SYMPTOMS SCREENING TOOL	11
12	ANNEXURE C: PERMIT TO WORK	12
13	ANNEXURE D: COVID-19 RISK ASSESSMENT	13

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

1 INTRODUCTION

On the 11 March 2020, the World Health Organization (WHO) declared a global pandemic. The SARS Cov-2 (**a novel coronavirus**) originated in Wuhan in China in December 2019 where the disease had reached the level of global pandemic. The Minister of Co-operative Governance and Traditional Affairs in the Disaster Management Act, 2002 (act No 57 of 2002), published in the Government Gazette No. 43096 outlined steps necessary to prevent the escalation of the disaster, contain and minimize its effect hence the introduction of this addendum.

COVID-19 is the infectious condition, which means it can be spread, directly or indirectly, from one person to another. Novel corona virus infection affects your upper respiratory tract (nose, throat, airways, and lungs).

The COVID-19 has had and will continue to have an impact on our lives. We must all be responsible and ensure the safe return to our construction sites. Our actions and implemented controls will affect the lives of thousands of people in our communities.

Prior to reopening of the construction sites, the Principal Contractor is required to develop a plan for the phased in return of the workers to the workplace, prior to commencing with work. This plan must be retained for inspection whilst corresponding with company risk management procedures.

2 DEFINITIONS (RELATED TO COVID-19)

COVID-19 means the Novel Coronavirus (2019- Cov) which is an infectious disease caused by a virus, which emerged during 2019 and was declared a global pandemic by the WHO during the year 2020 that has previously not been scientifically identified in humans

Disaster Management Act means the Disaster Management Act, 2002 (Act No. 57 of 2002)

Adequate space means not more than one person per square meter of floor space

Gathering means any assembly, concourse, or procession of more than 100 persons, wholly or partially in open air or in a building or premises

Isolation means separating a sick individual with a contagious disease from healthy individuals without that contagious disease in such a manner as to prevent the spread of infection or contamination

Worker means any person who works in an employer's workplace including an employee of the employer or contractor, a self-employed person or volunteer

Workplace means any premises or place where a person performs work

Quarantine means separating asymptomatic individuals potentially exposed to a disease from non-exposed individuals in such a manner as to prevent the possible spread of infection or contamination;

WHO means the World Health Organisation;

Cleaning means removal of dirt and impurities from objects using water with detergents or soap but does not kill the virus;

Decontamination means Use of chemicals to kill the virus after cleaning

3 KEY REFERENCES

- Occupational Health and Safety Act No. 85 of 1993 and Regulations (as amended)
- Compensation for Injury and Occupational Diseases Act No. 100 of 1993 (as amended)
- National Disaster Management Act No 57 of 2002 and COVID-19 Regulations
- Department of Employment and Labour: Covid-19 Guideline
- Advice and guidance from WHO on COVID-19
- Government Gazetted No. 43257, Vol, 658 Covid-19 Occupational Health and Safety Measures in Workplaces Covid-19

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

- Risk Adjusted Strategy Regulation - issued by the Department of Cooperative Governance.
- National Institute for Communicable Disease (NICD)
- Centre for Disease Control and Prevention (CDC)

4 PURPOSE OF THE ADDENDUM

During this COVID 19 Pandemic, employers (Principal Contractors) are required to implement policies and protocols to manage the COVID 19 in their workplaces to prevent the uncontrollable spread of the virus.

The COVID-19 addendum is a performance specification to ensure that the Client and any bodies that have entered into formal agreements with the Client / Agents, Professional Service Providers (Engineers, Quantity Surveyors, Architects etc.), Principal Contractors and Contractors achieve an acceptable level of OHS COVID-19 performance.

No advice, approval of any document required by the PSHSS, such as hazard identification and risk assessments, or any other form of communication from the Client shall be construed as acceptance by the Client of any obligation that absolves the Principal Contractor from achieving the required level of performance and compliance with legal requirements. Furthermore, there is no acceptance of liability by the Client, which may result from the Principal Contractor failing to comply with the COVID 19 H&S addendum, i.e. the Principal Contractor remains responsible for achieving the required performance levels.

Requirements may be changed / updated should new risks or issues be identified that could not have been foreseen during the current risk adjusted strategy approach level. Any new legislation or standards (legislated or determined by the Client) that are promulgated or accepted during the contract will automatically be applied.

For this purpose, this addendum, but not limited to, requires the contractor to use it to plan, identify, compile, and implement a COVID-19 plan.

It should be noted that in no way do these COVID-19 health and safety requirements relieve the Principal Contractor of any of his responsibilities set out in the Act and applicable Regulations.

5 SCOPE

5.1 Scope of Application

The scope of application of this specification is in respect of:

Project: **ASIDI Basic Services (Water Projects) - Cluster 3E**

This COVID 19 addendum covers the requirements for minimizing the spread of transmission and cross contamination of the virus during the construction period.

- The scope addresses legal compliance, hazard identification, risk assessment, risk control, and promoting a Positive Health and Safety culture on the project during the COVID 19 pandemic.
- Establishes the way the Client or the Client's Health and Safety Agent will interact with The Principal Contractor on assessing compliance to the health and safety protocols for COVID-19.

5.2 Scope of Works

Refer to the Occupational Health and Safety Specification.

6 COVID-19 RISK ASSESSMENT

The Principal Contractor is required to conduct a COVID-19 workplace risk assessment to determine the COVID-19 associated risks of transmission. Similar to all workplace risk assessments, the COVID-19 risk assessment will (**See Annexure A - Sectoral guideline template**):

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

- Identify health or safety hazards associated with any work which is performed at the workplace (including the risk of transmission of COVID-19);
- Determine the risks associated with the identified hazards;
- Put into place mitigation and precautionary measures associated with the risks determined;
- Monitor and review the control measures put into place determining the effectiveness thereof; and
- Review the risk assessment when required to ensure improved and or continued effectiveness.
- The Principal Contractor must keep a record of the risk assessment and consider matters such as, but not limited to:
 - nature and severity of the SARS-CoV-2 virus to which an employee may be exposed and the suspected route of exposure and exposure scenarios;
 - Labour demographics and their origin, as some may be categorized as vulnerable groups – i.e. Underlying auto-immune or chronic diseases, workers over 60 years of age;
 - The high possibility of workers interacting with the public during working hours;
- Where SARS-CoV-2 virus might be present and in what physical form is it likely to be;
- The nature of the work, processes and any reasonable deterioration, or failure of, any control measure;
- What mental and psychological effects the SARS-CoV-2 virus or the COVID-19 outbreak within communities can have on an affected employee; and
- The period of exposure.

7 COVID-19 H&S PLAN

7.1 Requirements

A COVID-19 H&S Plan / COVID-Ready Workplace Plan specific to the ASIDI Basic Services (Water Projects) - Cluster 3E, in response to this addendum will be subject to approval by the Client or the Client appointed CHS Agent. This must include all supporting documentation as required for verification – i.e. Employee / Visitor Screening Template, Relevant /COVID-19 related Appointments, etc.

7.2 General Requirements

7.2.1 Risks

The Principal Contractor must utilize this addendum and the attached COVID 19 baseline risk assessment in preparation of his documents (COVID-Ready Workplace Plan; COVID-19 Risk Assessment).

The Principal Contractor to provide a detailed updated COVID-19 risk assessment for the works on site, having read and considered the hazards and risks as outlined on the COVID-19 Baseline Risk Assessment as provided by the Client / Client-appointed CHS Agent.

Refer to Project Baseline Risk Assessment

7.2.2 Occupational Health & Safety Management

7.2.2.1 Appointment of Competent Site Personnel as per the COVID regulations

Covid-19 Compliance Officer (Recommend CHSO for the site)

Is required to oversee the:

- implementation of the plan;
- adherence to the standards of hygiene and health protocols relating to COVID-19 at the workplace;
- develop, with the assistance of the appointed Construction Manager, a plan for the phased engagement of the employees to the workplace, prior to commencing work on the site for construction, which plan must at least contain the following information:

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

- the date on which the Principal Contractor intends to commence works on site;
- steps to be taken to get the workplace COVID-19 ready
- which employees will be permitted to work and how many will be allowed on site;
- what the arrangements for the phased engagement of the employees to the workplace are;
- what health protocols are in place to protect employees from COVID-19;
- develop measures to ensure that the workplace meets the standards of health protocols, for adequate space for employees and social distancing, hand washing, wearing of face masks and other COVID-19 related measures as required;
- procedures for the screening of each employee using the recommended tool attached hereto as an annexure to this specification, before being allowed to site, including steps to be taken where COVID-19 related symptoms are exhibited or reported on reporting for work as well as during one's shift.
- procedure for reporting and investigating COVID-19 confirmed cases and other information as prescribed.
- Bio-hazard waste management and disposal.
- Non-compliance by the Contractors engaged on the project.
- The plan must be developed in accordance with the requirements of Direction 3(2) of the Consolidated Directions on Occupational Health and Safety Measures in Certain Workplaces.

7.2.3 General Risk Management

7.2.3.1 Health Risks and Symptom Screening

The Principal Contractor must state on their COVID-Ready Workplace Plan how the symptom screening is to be conducted on site, which shall entail the following:

- Utilizing an infra-red thermometer to record an employee's temperature.
- Screening workers for symptoms of COVID19 at the time that they report for work, namely: fever, cough, sore throat, redness of eyes or shortness of breath (or difficulty in breathing);
- Additional symptoms to be noted: body aches, loss of smell or loss of taste, nausea, vomiting, diarrhea, fatigue, weakness, or tiredness.
- Screening of sub-contract workers and visitors alike.
- Procedure to be followed in cases where COVID-19 symptoms are exhibited or reported, and where abnormal temperatures are registered, including cases where the employee was already at work when symptoms were exhibited.

7.2.4 Emergency Management Procedures

An emergency plan and procedure that is appropriate to the risks of COVID-19 is required prior to resumption on site. It is advised that the system should be simple and easy for any worker to follow.

Attention to emergency planning and procedures is very important during this Risk Adjusted Strategy Level of COVID 19 Requirement in terms of identified risks:

- Level of COVID-19 Awareness of the appointed First Aiders and procedure to be followed when rendering first aid to injured workers;
- Suitable areas of assembly with adequate space for distancing during roll call;

The emergency plan is to ensure the inclusion of the COVID-19 response team of the PC and the nearest COVID-19 testing sites. Such arrangements should be made with these persons prior to recommencing works on site.

Local emergency telephone numbers with COVID-19 Emergency Numbers must be displayed and made part of the emergency procedure.

The general principles of emergency management are to be applied as it applies to the hierarchy of control and management.

Central emergency number: National Department of Health through their helpline (0800 029 999) to obtain further directions.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

7.2.5 First Aiders and First Aid Equipment

Competent First aiders must assist in identifying symptoms from the employees and direct employees to areas where they will be isolated for further management should these symptoms be exhibited by any of the workers on site; the first aiders will be permitted to wear N95 or FFP1 & FFP2 masks when attending to cases on site, and they must be well conversant with control measures and general precautions to be taken when rendering first aid to injured workers during this COVID-19 pandemic.

7.2.6 Incident Management and COVID 19 Compensation

The Principal Contractor must notify its employees that if they are sick or have symptoms associated with COVID-19, they must not come to work and to take paid sick leave in terms of section 22 of the BCEA. Employees must also be made aware of the importance of disclosing honestly, any COVID-19 related symptoms to the Principal Contractor should they experience any.

If the employee shows symptoms when already at work, the PC must immediately isolate the worker, provide the employee with an FFP1 surgical mask and arrange for the employee to be transported in a manner that does not place other employees at risk to an identified testing site.

If an employee has been diagnosed with COVID-19, the PC must inform the Department of Health and the Department of Employment and Labour; and

Investigate the cause including any control failure and review its risk assessment to ensure that the necessary controls and PPE requirements are in place and indeed effective; and

It must give administrative support to any contact tracing measures implemented by the Department of Health.

If an employee has been diagnosed with COVID -19 and isolated in accordance with Department of Health Guidelines, the PC may only allow the employee to return to work on the following conditions:

- The employee has undergone a medical evaluation confirming that the worker has been tested negative for COVID-19;
- The PC ensures all health and safety protocols are adhered to;
- The PC closely monitors the employee for symptoms on return.

The PC must ensure that no employee is discriminated against on grounds of having tested positive for COVID-19 in terms of section 6 of the Employment Equity Act.

7.2.7 Personal Protective Equipment (PPE) and Clothing

Engineering and administrative controls are considered more effective in minimizing exposure to COVID 19, PPE is also needed to prevent exposures, contamination of surfaces and to prevent cross contamination from employees. Hazard identification and risk assessment will guide as to what type of controls are needed for each area / activity including the type of PPE to be worn where necessary.

The PC is to provide suitable PPE to all employees free of charge based on a risk assessment.

The wearing of the identified COVID 19 PPE is non-negotiable.

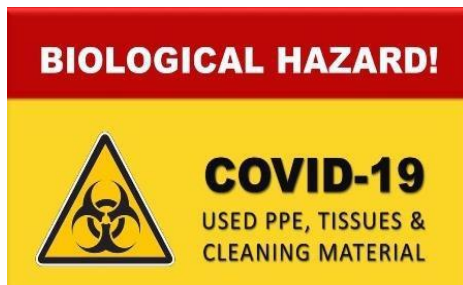
- Cloth face masks for all (including visitors, contractors and suppliers entering site)
- Recommend for construction employees Full face shields - where cloth masks are not wearable in relation to the construction activity.
- N95 / FFP1 & FFP2 and surgical gloves for First Aid Attendants and/or bio-hazardous waste handlers.

7.2.8 Hazardous Waste Management and Disposal

All discarded personal items such as used PPE (disposable dust masks and gloves, etc.), used paper towels or alcohol-based wipes, etc. must be treated as biohazardous waste and disposed of as such.

Contractor _____ Witness 1 _____ Witness 2 _____ Employer _____ Witness 1 _____ Witness 2 _____

The Principal Contractor must provide separate and appropriately labelled biohazardous waste bins (symbolic signage to be used where appropriate – see example below) on site and ensure that waste is disposed of at a registered hazardous waste site and a hazardous waste disposal certificate must be obtained and kept on site for verification.



Workers who are handling hazardous waste on site must be provided with proper instruction and suitable PPE.

7.2.9 Occupational Health and Safety Signage

The following, but not limited to, will be required, and expected to be displayed on site with contact numbers of emergency personnel:

- An area on site for isolation of suspected corona virus employees.
- Internal emergency contact numbers of the people to be called in case of an emergency.
- Departmental call centre numbers for COVID 19 hotline including Local Department of labour, NICD, CDC etc.
- External emergency contact list of facilities identified for COVID 19 management.
- Emergency management plan for COVID 19.
- PPE use and management plan.

On-site H&S signage to now also include more COVID 19 workplace information.

Hereunder is an example:



7.2.10 Induction of Employees and Visitors, General H&S Training

A simple, formal induction is to be done in relation to the COVID 19 health and safety risks.

The PC to utilize technology where possible and be innovative to reduce the number of employees at any given time in a meeting room / area to enable the minimum required social distancing.

The Principal Contractor must ensure that:

- Meetings where spacing of individuals would be less than 1,5m apart are not to be permitted as far as is reasonably practicable.
- Toolbox talks shall be limited to a maximum duration of 15 minutes and shall be in groups that allow for a 1,5m spacing between individuals but do not require the speaker to shout.
- Toolbox talks must be held in well ventilated areas.

The PC must keep clear records of all information, as the Labour Inspectors will be conducting inspections of these respective workplaces.

7.2.11 Transportation of Employees

The PC must provide a transportation plan as issued by the directions of the Transport Minister.

The transport must adhere to the hygienic conditions that must be adhered to and steps to be followed for the limitation of exposure of employees using public transport to COVID-19.

This shall include the transportation of workers within the construction site (to and from the relevant work areas)

Refer Annexure D (Form 2) – Permit to Perform an essential or permitted service to be completed.

7.2.12 Care of Workers on Site (Welfare)

Social Distancing

- Workplaces must be arranged to ensure a minimum of 1½ meters between employees. If this is not practicable, physical barriers must be erected and workers must be supplied free of charge with appropriate Personal Protective Equipment (PPE).
- Social distancing must be implemented in all common areas in and around the workplace to prevent crowding (including working spaces, canteens, meeting rooms etc.)

Sanitizers and disinfectants

- Provide enough quantities of hand sanitizer with at least 70% alcohol content.
- Ensure that work surfaces, equipment, and common areas such as toilets, door handles, and shared equipment are regularly cleaned and disinfected; and
- Provide adequate facilities for hand washing with soap and clean water and sufficient paper towels.

Masks

- Employees must wear masks at work. Employers must also require members of the public entering a workplace to wear masks.
- Employers must provide each employee, free of charge, with at least two cloth masks to wear while at work or commuting.
- There must be suitable arrangements for washing and drying masks. Ultimately, the employer remains responsible for the maintenance and upkeep of PPEs. Where a risk assessment indicates, workers must be provided with alternative appropriate PPE (e.g. FFP1) to provide a greater level of protection.

Eating Areas

- It is recommended that eating times include division of workforce into small groups and be staggered to avoid concentration of workers in this common area.

General Offices

- No persons to congregate in this area.
- Recommendation should an urgent meeting be required - try meeting outside where permitted and or limit the number for the meeting and the time of the meeting; use of technology solutions such as Zoom, Teams, Google Meet, etc. where possible.

8 DISCIPLINE, ALCOHOL AND SUBSTANCE ABUSE

All employees (management included) are to follow instructions given in the interest of previous H&S and now COVID 19 H&S requirements.

Recommended that single use disposable breathalyzer test kit be used to minimize the risk of exposure to the virus.

Disciplinary action is to be imposed on those who do not follow such instructions or company rules or policies.

9 NON-CONFORMANCES

Regular audits will be conducted on site by the Client appointed Construction Health and Safety Agent to verify compliance with legislated COVID-19 workplace requirements, this COVID-19 H&S Specification, the approved COVID-Ready Workplace Plan from the PC and recommended best practice.

COVID-19 is a very serious issue and introduces significant risks within the workplace, particularly within the construction sites and affected communities; in this light, the PC may be ordered to close site should it fail to comply with the COVID-19 workplace requirements.

In addition, as the failure to comply fully with the OHSA (Occupational Health and Safety Act) is a criminal offence, failure to take the necessary measures to prevent the transmission of COVID19 may result in criminal prosecution.

10 ANNEXURE A: SECTORAL GUIDELINE

1. Risk assessment	1.1. Identification of exposure levels 1.2. Identification of “high contact” activities 1.3. Identification of vulnerable workers and special measures for their protection, including protection against unfair discrimination or victimization
2. Engineering controls	2.1. Ventilation 2.2. Physical barriers 2.3. Adaptation of workstations to increase social distance
3. Administrative controls	3.1. Screening/ reporting of symptoms/ sick leave 3.2. Minimizing contact 3.3. Rotation and shift work 3.4. Work-at-home strategies 3.5. Communication and information strategies 3.6. Role of health and safety committees and representatives 3.7. Education and training 3.8. Reporting of incidents for regulatory purposes 3.9. Reporting for purposes of public health, contact tracing, screening, testing and surveillance
4. Healthy and safe work practices	4.1. Disinfectants, sanitisers and personal hygiene 4.2. Other
5. PPE	5.1. Masks 5.2. Gloves 5.3. Facial shields 5.4. Other
6. Provision of safe transport for employees	6.1. Personal hygiene 6.2. Social distancing 6.3. Arrangements to minimise exposure associated with commuting 6.4. Cloth masks (if commuter) 6.5. PPE (driver/conductor of employer-provided transport)

11 ANNEXURE B: SYMPTOMS SCREENING TOOL

COMPANY NAME:

Date:

Site Address:

No	Employee Name & Surname	Job Title	Contact Details	Address	Temperature AM PM		Symptoms YES NO	
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								

Symptom Legend (Place number under symptom column as shown below e.g. for fever, temperature 1)

Signs of COVID-19

- 1.Fever, Temperature greater than 37. 2
- 2.Cough
- 3.Sore throat
- 4.redness of eyes
- 5.shortness of breath

Additional Symptoms

- 6.Body Aches
- 7.Loss of smell or Loss of taste
- 8.Nausea
- 9.Vomitting
- 10.Diarrhoea
- 11.Fatigue
- 12.Weakness
- 13.Tiredness

Any employee presenting with any of the above symptoms – should not be allowed onto site, refer to identified testing sites for management

12 ANNEXURE C: PERMIT TO WORK

FORM 2 PERMIT TO PERFORM AN ESSENTIAL OR PERMITTED SERVICE Regulations 16(2)(b) and 28(4)

- Please note that the person to whom the permit is issued must at all times present a form of identification together with this permit. If no identification is presented, the person to whom the permit is issued will have to return to his or her place of residence during Alert Level 4.

I, being the head of institution, with the below mentioned details,

Surname				
Full names				
Identity number				
Contact details	Cell nr.	Tel Nr(W)	Tel Nr(H)	e-mail address
Physical Address of Institution				

Hereby certify that the below mentioned official/employee is performing services in my institution

Surname	
Full names	
Identity number	
Place of residence of employee	

Signed at _____, on this the _____ day of _____ 2020.

Signature of Head of Institution

Official stamp of
Institution

Contractor ____ Witness 1 ____ Witness 2 ____ Employer ____ Witness 1 ____ Witness 2 ____

Risk Assessment Matrix

Risk Prioritisation Number / Risk Rating = Severity x Likelihood

Severity Table

Pt	Severity level	Workplace Safety	Workplace Health	Loss / Damage	Downtime Incurred
5	Critical	Fatality, single or multiple	Acute Poisoning, Failure of Major Bodily Functions	More Than R10 million damages	More than 1 year for full re-instatement
		Permanent Body Injury or Loss of Use for more than 30 days	Infection with No Known Cure		
4	Very Serious	Injury requiring 30 days of hospitalisation and/or medical leave	Moderate exposure, Reversible injury to Bodily Functions on prolong recovery	More Than R1 million damages	More than 3 months for full re-instatement
		Temporary Body Injury or Loss of Use for more than 10 days but not exceeding 30 days	Infection with Known Cure but extensive treatment		
3	Serious	Injury requiring 10 days of hospitalisation and/or medical leave	Mild exposure, Reversible injury to Bodily Functions with less than 30 days recovery	More Than R100k damages	More than 1 month for full re-instatement
		Temporary Body Injury or Loss of Use for up to 10 days	Infection with Known Cure but extensive treatment		
2	Marginal	Injury requiring maximum of 3 days of medical leave only	Very Mild exposure, Reversible injury to Bodily Functions with less than 3 days recovery	More Than R10k damages	More than 5 days for full re-instatement
		Temporary Body Injury or Loss of Use for 3 days or less	Infection with Known Cure but treatment needed		
1	Negligible	First aid treatment only	Very Mild exposure, Reversible injury to Bodily Functions with less than 3 days recovery	Less than R5k damages	No significant downtime
		No or superficial injury	No Exposure		

Likelihood Table

Pt	Likelihood level	Likelihood of Occurrence / Exposure Criteria
5	Frequent	Likely to occur many times per year
4	Moderate	Likely to occur once per year
3	Occasional	Might occur once in three years
2	Remote	Might occur once in five years
1	Unlikely	Might occur once in ten years

Risk level Determination - 5 x 5 Matrix

		SEVERITY				
		Critical (5)	Very Serious (4)	Serious (3)	Marginal (2)	Negligible (1)
LIKELIHOOD	Frequent (5)	25 Operation not permissible	20 Operation not permissible	15 High priority	10 Review at appropriate time	5 Risk acceptable
	Moderate (4)	20 Operation not permissible	16 Operation not permissible	12 High priority	8 Review at appropriate time	4 Risk acceptable
	Occasional (3)	15 High priority	12 High priority	9 Review at appropriate time	6 Risk acceptable	3 Risk acceptable
	Remote (2)	10 Review at appropriate time	8 Review at appropriate time	6 Risk acceptable	4 Risk acceptable	2 Risk acceptable
	Unlikely (1)	5 Risk acceptable	4 Risk acceptable	3 Risk acceptable	2 Risk acceptable	1 Risk acceptable

Review the risk assessment records every year or whenever there are changes in processes, work activities or upon any incident occurrence, whichever is earlier.

Action Table

Colour	Score	Risks	Action
	16 - 25	High	Manage risk Stop operation & review controls. If necessary abort experimentation.
	12 - 15	Warning	High priority remedial action Proceed with extreme caution with supervision at all times. Implement additional (secondary) controls immediately. Review within 7 days. Emergency control measures shall be in place.
	8 - 10	Medium	Take remedial action at appropriate time Proceed with care. Additional control is advised. Review shall be implemented within 30 days.
	1 - 6	Warning	Risk acceptable: Residual risk If possible, risk reduction should be further considered, particularly severity. There are no imminent dangers. Frequent review shall be in place especially changes in procedures, materials or environment.

BASELINE HAZARD IDENTIFICATION AND RISK ASSESSMENT												
CLIENT / EMPLOYER				Independent Development Trust (IDT)								
PROJECT / CONSTRUCTION SITE & EXACT LOCATION OF THE WORKS				ASIDI Basic Services (Water Projects) - Cluster 3E								
Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
COVID-19 RISK ASSESSMENT												
1	Preparation for works commencement on site	Lack of appropriate documentation required prior to commencing work; Commencing work on site without approved H&S documentation.	Failure to comply with legal requirements resulting in work stoppage, increased infection rates, and possibly legal action against the PC.	5	2	10	Approval of work commencing to be obtained from the client prior to commencing work. COVID-Ready Workplace Plan, risk assessments to be prepared by the principal contractor and communicated to employees once approved.	5	1	5	Principal Contractor	Proceed with care. Additional control is advised.
2	Site Preparation	Site not COVID-19 ready (Contaminated surfaces; Lack of PPE supplies; Lack of COVID-19 signage; etc.)	Staff not provided with suitable PPE resulting in increased risk of infection; Employees coming in contact with contaminated surfaces may be infected	4	3	12	Decontamination / disinfection of work place and equipment before commencing work and at regular intervals; Disinfectant to be available and employees to be made aware to clean surfaces regularly; Procurement of COVID-19 suitable PPE prior to returning to site;	3	3	9	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
3	Occupational Health / Symptom-Screening	Workers symptom free but infected with COVID-19, older workers of 60+, workers with underlying auto-immune or chronic diseases. Non-screening of workers and visitors; Non-disclosure of underlying auto-immune or chronic disease by workers and visitors to site.	Increased risk of transmission to others, compromising the vulnerable groups Unscreened and asymptomatic workers or visitors to site resulting in increased exposure to others; Cross contamination amongst workers and contamination of surfaces	5	4	20	COVID-Ready Workplace Plan, Policy and method statement to be available relating to screening surveillance. All workers are to be symptom screened at the time that they report to work, to ascertain whether they have any of the observable symptoms associated with COVID 19, namely - fever, cough, sore throat, redness of eyes or shortness of breathing. PC to provide methodology to remove staff from site safely to an identified test site; Workers to be made aware of risk of non-disclosure of COVID-19 symptoms; Staff in exposed age group and compromised health condition to be considered high risk and managed appropriately. Site security fence to be maintained and all access points to be controlled / manned.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
4	Induction/Training	Failure to induct workers and lack of training; Lack of correct and updated information/ awareness	Workers not adhering to prescribed controls due to lack of awareness resulting in increased exposure.	5	4	20	Copies of all the updated and relevant regulations and guidelines to be readily available on site and communicated to workers; Information / Awareness posters to be conspicuously displayed at strategic positions on site; Toolbox talks / DSTIs addressing COVID 19 related risks.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
5	Demographics of labour	Vulnerability due to age, underlying auto-immune or chronic disease/s	Health complications of vulnerable groups once infected with the virus; Possible death.	5	4	20	List of vulnerable employees to be maintained; The screening surveillance policy and method statement to be adhered to; Induction, DSTIs and toolbox talks to be done daily on topics relating to Covid-19, personal hygiene and PPE. Strict enforcement for use of PPE; Job substitution if possible for those who are affected. Staff in exposed age groups and compromised health conditions to be considered high risk and managed appropriately.	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
6	Origin of labour	Use of public transport to get to work and to move between towns and cities, districts, municipalities and rural villages; Workers who may have come into close contact with suspected COVID-19	Non-use of cloth or respiratory masks / face shields by public transport commuters; Employees / workers could be possibly exposed and get infected resulting in spreading of the virus during movement.	5	4	20	Selection and provision of transport services compliant with gazetted requirements. Policy and procedures and rules for travel, where possible to limit the use of public transport, or to arrange selective methods of transport, ongoing toolbox talks and if possible supply of cloth masks to be worn when travelling. Limitation of border crossing unless specialised contractors. Staff in exposed age group and compromised health condition to be considered high risk and managed appropriately.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
7	Personal hygiene	Poor personal hygiene and improper cough / sneezing etiquette.	Increased risk of spreading the virus amongst co-workers and contaminating surfaces and/or tools. Touching of surfaces, tools and items that may have been contaminated;	5	3	15	Workers to be trained on proper personal hygiene, which training must include the following: - Frequently clean hands by using provided alcohol-based hand rub or soap with water. - Covering of mouth and nose with a flexed elbow when coughing / sneezing - Maintaining safe social distancing by avoiding close contact with anyone that has fever and cough (2m social distancing) - Avoiding unnecessary touching of surfaces	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
8	Hand Sanitizers, Disinfectants and paper towels	Lack of adequate stock of sanitizers, disinfectants, paper towels	Poor implementation of hygiene protocols due to lack of resources resulting in increased risk of exposure and cross-infection;	4	4	16	Principal Contractor to ensure availability of stock at all times on site; It is recommended that adequate quantities of stock that should last for at least one month be procured and weekly as per the demand on site;	4	3	12	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
9	Use of chemicals / flammable substances	Inappropriate use and unsafe storage of chemicals due to lack of training (Sanitizers, disinfectants, detergents)	Sensitivity to some of these chemicals may cause unpleasant skin conditions such as mild irritation, skin burns or rash, etc. Risk of fire due to incorrect usage and storage of alcohol based sanitizers;	3	3	9	Training on safe use and correct storage of chemicals must be provided to the workers; Relevant MSDSs to be made available on site; Any worker who develops any unpleasant skin reactions must report the matter to site management / CCO for investigation;	3	2	6	Principal Contractor	Proceed with care. Additional control is advised.
10	Transportation	Maximum allowed capacity exceeded. No facilities for sanitising vehicles and passengers. No additional protective measures available, e.g. face masks. Unlicensed drivers and operators.	Increased risk of cross contamination during transportation; Workers older than 60 years and workers with compromised health/immune condition statistically has a low chance to recover and are more susceptible to contract the virus.	5	5	25	Selection and provision of transport services compliant with gazetted requirements. Policy and procedures and rules for travel, where possible to limit the use of public transport, or to arrange selective methods of transport, ongoing toolbox talks and supply of cloth masks to be worn when travelling or moving on and off site. Vehicles maintained at 70% capacity or less. Vehicles sanitised between trips. Hand sanitiser provided for passengers. Staff in exposed age group and compromised health condition to be considered high risk and managed appropriately.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
11	Social distancing	Construction tasks requiring more than one worker; Congestion at site entrance during arrival and departure from site; Welfare facilities, meeting areas.	Inability to maintain social distancing resulting in increased risk of cross infection;	5	5	25	Policy and method statements for the provision of suitable and sufficient PPE. Demarcation and spacing of queueing areas. Segregation of queueing areas and public outside site perimeters. Meeting/eating areas large enough to maintain 2m distance at maximum occupancy, use of drones, security cameras to limit the need to spend time on site. Only essential workers to spend time on site, Staggered meeting/eating times, use of Zoom, Skype, teams for meetings where necessary. Individual, segregated facilities for safe keeping. Induction training and a programme for information and training.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
12	Alcohol and substance abuse	Workers, visitors arriving at site under the influence of substances; Use of Breathalyzer for alcohol testing;	Intoxicated workers and/or visitors not complying with procedures laid down to prevent the spread of the virus; Cross infection due to use of shared breathalysers;	5	4	20	Policy and method statement for substance abuse to be reviewed, management of visitors and workers under the influence of alcohol or other substances. Use of disposable individual testing units and appropriate disposal in hazardous waste bins.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
13	Waste management	Lack of proper hazardous waste management on site; Incorrect disposal of hazardous waste products; Lack of proper hazardous waste bins;	Spreading of virus and contact with virus causing infection from handwashing, paper towels, cleaning equipment and other related waste products.	5	3	15	Prepare a policy, method statements, HIRA. Establish and follow protocols for disposal of hazardous waste (containers). Awareness through notices (posters) regarding correct procedures and classification of waste. Competent supervision and adequate awareness training required. Provide adequate supplies of material and consumables, provision of sealable disposal containers/bags through appropriate waste removal company. Provide adequate supply of paper towels. Ensure appropriate management.	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
14	COVID-19 Awareness Signage / Posters	Lack of COVID-19 awareness signage and posters	Workers not adhering to prescribed controls due to lack of awareness resulting in increased exposure.	5	3	15	A policy and method statement to be prepared. Display of posters and signage with the site rules and protocols that needs to be maintained at strategic points. Awareness through notices and posters regarding correct protocols to be maintained. Competent supervision and adequate awareness training required. Discipline to be applied to those not complying.	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
15	Access Control	Uncontrolled access points; Untrained access controller / security guard Poor maintenance of site security fence;	Unauthorised access to site resulting in increased risk of contamination of the workplace and cross infection; Access controller / security guard not following correct procedure; Workers, visitors, site administration arriving on site via personal and public transportation.	5	4	20	Policy and method statements. All persons entering site to sanitize hands, prior to entry to site. Access controller trained on correct procedure to follow and how to utilize no-contact hand-held thermometer. Back-up access controllers trained on same procedure. All persons entering site screened by trained access controller. Periodic alcohol testing to continue however only when warranted through suspicion.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
16	Construction Vehicles & Mobile Plant	Lack of awareness amongst operators; Failure to disinfect construction vehicles and mobile plant	Operators allowing others inside operator cabs that are designed for one person may increase the risk of contamination and infection; Contaminated surfaces due to failure to disinfect;	5	4	20	Updated policy, method statements and HIRA; Proper induction of operators, toolbox talks and relevant DSTIs; Implementation and maintenance of disinfecting programme for construction vehicles and mobile plant; Operators to also wear prescribed PPE at all times; Supervision to monitor and control;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
17	Welfare facilities	Inadequate space for maintaining social distancing; Failure to disinfect welfare facilities; Possible contaminated surfaces;	Inability to maintain social distancing resulting in possible cross contamination and increased risk of infection; Workers coming into close contact with contaminated surfaces resulting in virus infections;	5	4	20	Updating of policy, method statements and HIRA, limiting of personnel on site to minimum number required to maintain control and management. Implement and maintain cleaning and disinfecting programme. Site rules for social distancing to 1.5m. Stagger number of people attending induction and training sessions. Use technology to avoid close proximity between individuals where possible.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
18	Emergency planning and response	Overcrowding of assembly points; Not following correct procedure for dealing with COVID-19 suspected cases; Emergency Co-ordinator not trained in COVID-19 emergency response procedure;	Assembly points may have more than the specified number of people; Limited space for social distancing when practicing or during actual emergencies resulting in cross infections;	5	3	15	Review emergency plan and method statements. DSTIs and toolbox talks. Competent supervision and emergency co-ordinator to be trained on emergency arrangements. Updating of the emergency plan and communicated to all personnel. Emergency Number List updated to include National Institute of Communicable Diseases (NICD) Emergency Hotline – 0800 029 999 and dedicated Isolation Hospital Details.	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
19	First Aid	First Aid Attendant not trained in COVID-19 and proper procedure to be followed when rendering first aid; First Aid Attendant not provided with and not using suitable PPE.	First Aid Attendant not following proper procedure and not wearing suitable PPE when rendering first aid to injured employee/s;	5	3	15	The designated First Aid Attendant must be made aware of the hazards and risks related to COVID-19; Suitable PPE for the First Aid Attendant must be readily available on site at all times (N-95, FFP1 / FFP2 masks, Goggles and Latex gloves); CCO to monitor and control;	5	2	10	Principal Contractor	Proceed with care. Remedial actions to be taken at appropriate times.
20	Personal protective equipment	Workers not provided with suitable PPE; Lack of PPE usage by the workers; Lack of training on correct and proper use of PPE provided;	Workers not having suitable PPE; Non-use and incorrect use of PPE increases the risk of contracting the virus; Incorrect disposal of used disposable PPE, putting those who may come into contact with such at risk of infection;	5	5	25	Update the policy, method statements and HIRA for PPE. No employee and or visitor will be allowed on site without a face mask. N95 masks only for medical or high risk workers. Adequate training must be provided in the correct use and disposable of these masks. Cloth masks must be washed and ironed daily. Face shields protect mouth, nose and eyes. Daily cleaning of face shields. No sharing of PPE will be permitted. Adequate supervision, inclusion induction, policy, method statements and HIRAs. Covid PPE does not replace conventional PPE as per Construction activity HIRA.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.
21	Contractor Management	Non-compliant Contractors and lack of monitoring	Increased risk exposure due to lack of monitoring and enforcement resulting in the spread of the virus;	5	4	20	Update the policy, method statements and HIRA. Ensure contractors have procedures in place to screen their workers and visitors prior to entering site; Frequent site visits by the designated COVID-19 Compliance Officer; Disciplinary action to be taken against non-compliant Contractors;	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

Hazard & Risk Identification				Raw Risk Evaluation			Risk Control Measures & Residual Risk Rating					
S/N	Work activity	Hazard	Consequential Risk / Possible Accident / Ill health to persons, fire or property loss	Severity	Likelihood	RPN*	Risk Control Measures	Severity	Likelihood	RPN*	Responsible Party/ Person	Remarks
22	Consequence management	Failure to appoint the COVID-19 Compliance Officer; Failure to report confirmed COVID-19 cases that are work related to the relevant authorities;	Non compliance issues not promptly addressed may result in work stoppage and possible legal action taken against the PC;	5	4	20	Revision of policy, method statements and HIRA. PC must ensure that a COVID-19 Compliance Officer is appointed in writing; Proper reporting procedures must be adhered to; PC must ensure that site is updated daily with all the relevant COVID-19 information; Workers should be updated with new information daily; PC must ensure that company disciplinary procedures are in place. All employees should have knowledge of the company disciplinary procedures and action must be taken against those who are deliberately non-compliant; Work stoppage/site closure where non compliance exists.	5	3	15	Principal Contractor	High priority remedial action. Implement additional (secondary) controls immediately.

C5.2 ENVIRONMENTAL MANAGEMENT PLAN

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

ENVIRONMENTAL MANAGEMENT PLAN

PEM.1 PURPOSE

The purpose of the EMP is to encourage good management practices through planning and commitment with respect to environmental issues, and to provide rational and practical environmental guidelines to minimise disturbance of the natural environment.

PEM.2 RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT

The contractor will be responsible for environmental control on site during construction and the maintenance period. The construction activities will be monitored by an independent environmental specialist and audited against the EMP.

PEM.3 TRAINING AND INDUCTION OF EMPLOYEES

The contractor has a responsibility to ensure that all those people involved in the project are aware of and familiar with the environmental requirements for the project (this includes sub-contractors, casual labour, etc.).

PEM.4 COMPLAINTS REGISTER AND ENVIRONMENTAL INCIDENT BOOK

Any complaints received by the project team from the community will be recorded. The complaint will be brought to the attention of the site manager.

All complaints received will be investigated and a response given to the complainant within 28 days.

All environmental incidents occurring on the site will also be recorded.

a)

PEM.5 ENVIRONMENTAL SAFETY

The management of impacts associated with various categories of concern is discussed as separate topics, indicated below.

PEM.5.1 Soil

- (a) Topsoil should be temporarily stockpiled, separately from (clay) subsoil and rocky material, when areas are cleared. If mixed with clay sub-soil the usefulness of the topsoil for rehabilitation of the site will be lost.
- (b) Stockpiled topsoil should not be compacted and should be replaced as the final soil layer. No vehicles are allowed access onto the stockpiles after they have been placed.
- (c) Stockpiled soil should be protected by erosion-control berms if exposed for a period of greater than 14 days during the wet season. The need for such measures will be indicated in the site-specific report.
- (d) Topsoil stripped from different sites must be stockpiled separately and clearly identified as such. Topsoil obtained from sites with different soil types must not be mixed.
- (e) Topsoil stockpiles must not be contaminated with oil, diesel, petrol, waste or any other foreign matter, which may inhibit the later growth of vegetation and micro-organisms in the soil.

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

- (f) Soil must not be stockpiled on drainage lines or near watercourses without prior consent from the Project Manager.
- (g) Soil should be exposed for the minimum time possible once cleared of invasive vegetation, that is the timing of clearing and grubbing should be co-ordinated as much as possible to avoid prolonged exposure of soils to wind and water erosion. Stockpiled topsoil must be either vegetated with indigenous grasses or covered with a suitable fabric to prevent erosion and invasion by weeds.
- (h) Limited vehicular access is allowed across rocky outcrops and ridges.
- (i) All cut and fill surfaces need to be stabilized with appropriate material or measures when major civil works are complete.
- (j) Erosion and donga crossings must be dealt with as river crossings. Appropriate soil erosion and control procedures must be applied to all embankments that are disturbed and destabilized.
- (k) All equipment must be inspected regularly for oil or fuel leaks before it is operated. Leakages must be repaired on mobile equipment or containment trays placed underneath immobile equipment until such leakage has been repaired.
- (l) Soil contaminated with oil must be appropriately treated and disposed of at a permitted landfill site or the soil can be regenerated using bio-remediation methods.
- (m) Runoff must be reduced by channelling water into existing surface drainage system.

PEM.5.2 Water

- (a) Adequate sedimentation control measures must be instituted at any river crossings when excavations or disturbance of a riverbanks or riverbeds takes place.
- (b) Adequate sedimentation control measures must be implemented where excavations or disturbance of drainage lines of a wetland may take place.
- (c) All fuel, chemical, oil, etc spills must be confined to areas where the drainage of water can be controlled. Use appropriate structures and methods to confine spillages such as the construction of berms and pans, or through the application of surface treatments that neutralise the toxic effects prior to the entry into a water course.
- (d) Oil absorbent fibres must be used to contain oil spilt in water.
- (e) During construction through a wetland, the majority of the flow of the wetland should be allowed to pass downstream.
- (f) Vehicular traffic across wetland areas must be avoided.
- (g) No dumping of foreign material in streams, rivers and/or wetland areas is allowed.
- (h) The wetland area and/or river must not be drained, filled or altered in any way including alteration of a bed and/or, banks, without prior consent from the DWAF. The necessary licenses must be obtained in terms of Section 21 and 22 of the National Water Act, 36 of 1998 from DWAF.

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

- (i) No fires or open flames are allowed in the vicinity of the wetland, especially during the dry season.
- (j) No swimming, washing (including vehicles and equipment), fishing or related activity is permitted in a wetland or river without written permission from the Project Manager.
- (k) Disturbances to nesting, breeding and roaming sites of animals in or adjacent to wetland areas must be minimized.

PEM.5.3 Air

- (a) Speed limits must be implemented in all areas, including public roads and private property to limit the levels of dust pollution.
- (b) Dust must be suppressed on access roads and construction sites during dry periods by the regular application of water or a biodegradable soil stabilisation agent. Water used for this purpose must be used in quantities that must not result in the generation of run-off.
- (c) The site-specific investigation will quantify the impact of dust on nearby wetlands, rivers and dams in terms of sedimentation. Mitigation measures identified during the site specific study must be implemented.
- (d) The Contractor must notify the Principal of all schools within 50m of the site of proposed activities. The Principal must in turn ensure that children with allergies and respiratory ailments take the necessary precautionary measures during the construction period. The Contractor must ensure that construction activities do not disturb school activities e.g. dust clouds may reduce visibility affecting sports activities.
- (e) Waste must be disposed of, as soon as possible at a municipal transfer station, skip or on a permitted landfill site. Waste must not be allowed to stand on site to decay, resulting in malodours.
- (f) Noise control measures must be implemented. All noise levels must be controlled at the source. All employees must be given the necessary ear protection gear. IAP's must be informed of the excessive noise factors.
- (g) The Contractor must inform all adjacent landowners of any after-hour construction activities and any other activity that could cause a nuisance e.g. the application of chemicals to the work surface. Normal working hours must be clearly indicated to adjacent land owners.
- (h) No loud music is allowed on site and in construction camps.
- (i) No fires are allowed if smoke from such fires will cause a nuisance to IAP's.

PEM.5.4 Social and Cultural

- (a) Access by non-construction people onto any construction sites must be restricted. The Contractors activities and movement of staff must be restricted to designated construction areas only.
- (b) The Contractors crew must be easily identifiable due to clothing, identification cards or other methods.
- (c) Rapid migration of job seekers could lead to squatting and social conflict with

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

resident communities and increase in social pathologies if not properly addressed. The Contractor must ensure that signs indicating the availability of jobs are installed.

- (d) Criteria for selection and appointment (by the Contractor) of construction labour must be established to allow for preferential employment of local communities. The Local Authority must be actively involved in the process of appointing temporary labourers.
- (e) Sub-Contractors and their employees must comply with all the requirements of this document and supporting documents e.g. the Contract document that applies to the Contractor. Absence of specific reference to the sub-contractor in any specification does not imply that the sub-contractor is not bound by this document.
- (f) No member of the construction workforce is allowed to wander around private property, except within the immediate surroundings of the site.
- (g) The Contractor must provide suitable sanitation facilities for site staff. Sanitation provided during the construction phase should be managed so that it does not cause environmental health problems. The use of the surrounding veld for toilet purposes is not permitted under any circumstance.
- (h) The Contractor must arrange for all his employees and those of his sub-contractors to be informed of the findings of the environmental report before the commencement of construction to ensure:
 - A basic understanding of the key environmental features of the work site and environments, and
 - Familiarity with the requirements of this document and the site specific report.
- (i) Supervisory staff of the Contractor or his sub-contractors must not direct any person to undertake any activities which would place such person in contravention of the specifications of this document, endanger his/her life or cause him/her to damage the environment.
- (j) The demand for construction materials and supplies will have an effect on the local economy. This impact can be optimised by sourcing and purchasing materials locally and regionally wherever possible, insofar as the material complies with the design specification.
- (k) The Contractor must maintain a detailed complaints register. This must be forwarded, together with solutions, to the authorities when requested.

PEM.5.5 Aesthetics

- (a) Scenic Quality

Damage to the natural environment must be minimized.

Trees and tall woody shrubs must be protected from damage to provide a natural visual shield. Excavated material must not be placed on such plants and movement across them must not be allowed, as far as practical.

The clearing of all sites must be kept to a minimum and surrounding vegetation must, as far as possible, be left intact as a natural shield.

No painting or marking of natural features must be allowed.

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

- (b) All above ground structures could be treated or painted to blend in with the natural environment.
- (c) Cut and fill areas, river and stream crossings and other soil stabilisation works must be constructed to blend in with the natural environment.
- (d) Natural outcrops, rocky ridges and other natural linear features, must not be bisected. Vegetation on such features must, as far as possible, not be cut unless absolutely necessary for construction.
- (e) Excavated material must be flattened (not compacted) or removed from site. No heaps of spoil material must be left on site once the Contractor has moved to a new construction site.
- (f) Any complaints from interest groups regarding the appearance of the construction site must be recorded and addressed promptly by the Contractor.

PEM.5.6 Archaeology and Cultural Sites

- (a) All finds of human remains must be reported to the nearest police station.
- (b) Human remains from the graves of victims of conflict, or any burial ground or part thereof which contains such graves and any other graves that are deemed to be of cultural significance may not be destroyed, damaged, altered, exhumed or removed from their original positions without a permit from the South African Heritage and Resource Agency (SAHRA).
- (c) Work in areas where artefacts are found must cease immediately.
- (d) Under no circumstances must the Contractor, his/her employees, his/her sub-contractors or his/her sub-contractors' employees remove, destroy or interfere with archaeological artefacts. Any person who causes intentional damage to archaeological or historical sites and/or artefacts could be penalised or legally prosecuted in terms of the National Heritage Resources Act, 25 of 1999.
- (e) A fence at least 2 m outside the extremities of the site must be erected to protect archaeological sites.
- (f) All known and identified archaeological and historical sites must be left untouched.
- (g) Work in the area can only be resumed once the site has been completely investigated. The Project Manager will inform the Contractor when work can resume.

PEM.5.7 Flora

- (a) All suitable and rare flora and seeds must be rescued and removed from the site. They must be suitably stored, for future use in rehabilitation.
- (b) The felling and/or cutting of trees and clearing of bush must be minimised.
- (c) Bush must only be cleared to provide essential access for construction purposes.

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

- (d) The spread of alien vegetation must be minimized.
- (e) Any incident of unauthorised removal of plant material, as well as accidental damage to priority plants, must be documented by the Contractor.
- (f) Woody vegetative matter stripped during construction must either be spread randomly throughout the surrounding veld so as to provide biomass for other micro-organisms and habitats for small mammals and birds, or it may be stockpiled for later redistribution over the reinstated top soiled surface. No vegetative matter must be burnt or removed for firewood other than those removed during the grubbing and clearing phase. Such vegetation can be made available to the local inhabitants to be used as firewood.
- (g) No tree outside the footprint of the Works area must be damaged.

PEM.5.8 Fauna

- (a) No species of animal may be poached, snared, hunted, captured or wilfully damaged or destroyed.
- (b) Snakes and other reptiles that may be encountered on the construction site must not be killed unless the animal endangers the life of an employee.
- (c) Anthills and/or termite nests that occur must not be disturbed unless it is unavoidable for construction purposes.
- (d) Disturbances to nesting sites of birds must be minimized.
- (e) The Contractor must ensure that the work site is kept clean and free from rubbish, which could attract pests.

PEM.5.9 Infrastructure

- (a) The relevant authorities must be notified of any interruptions of services, especially the Local Municipality, National Road Agency, Spoornet, TELKOM and ESKOM. In addition, care must be taken to avoid damaging major and minor pipelines and other services.
- (b) The integrity of property fences must be maintained.
- (c) No telephone lines must be dropped during the construction operations, except where prior agreement by relevant parties is obtained. All crossings must be protected, raised or relocated as necessary.
- (d) All complaints and/or problems related to impacts on man-made facilities and activities must be promptly addressed by the Contractor and documented.
- (e) Storage Facilities
 - Proper storage facilities should be provided for the storage of oils, grease, fuels, chemicals and hazardous materials.
 - The Contractor must ensure that accidental spillage does not pollute soil and water resources.
 - Fuel stock reconciliation must be done on all underground tanks to ensure no loss of oil, which could pollute groundwater resources.

INDEPENDENT DEVELOPMENT TRUST
ASIDI- WATER SUPPLY PROJECT IN THE OR TAMBO REGION:

- Cement must be stored and mixed on an impermeable substratum.

(f) Traffic Control

All reasonable precautions must be taken during construction to avoid severely interrupting the traffic flow on existing roads, especially during peak periods.

Before any work can start the Local Traffic Department must be consulted about measures to be taken regarding pedestrian and vehicular traffic control.

(g) Access Roads

The Contractor and the affected landowner must collaborate on the planning and construction of new access routes and the repair or upgrading of existing routes.

Access to the site must be controlled such that only vehicles and persons directly associated with the work gains access to the site.

Temporary access roads must not be opened until required and must be restored to its former state as soon as the road is no longer needed.

(h) Batching Plants

Concrete must be mixed only in an area demarcated for this purpose. All concrete spilled outside this area, must be promptly removed by the Contractor and taken to a permitted waste disposal site. After all concrete mixing is complete, all waste concrete must be removed from the batching area and disposed of at an approved dumpsite. Stormwater must not be allowed to flow through the batching area. Water laden with cement must be collected in a retention area for evaporation and not allowed to escape the batching area. Operators must wear suitable safety clothing.

(i) Chemical toilet facilities should be managed and serviced by a qualified company. No disposal or leakage of sewerage should occur on or near the site.

(j) Blasting

Blasting must not endanger public or private property.

Noise mufflers and/or soft explosives must be used to minimize the impact on animals.

All the provisions of the Explosives Act, 26 of 1956 and the Minerals Act, 50 of 1991 must be complied with.

The Contractor must take measures to limit flyrock.

PEM.5.10 Safety

(a) Measures must be taken to prevent any interference that could result in flashover of power lines due to breaching of clearances or the collapse of power lines due to collisions by vehicles and equipment.

(b) Measures must be taken during thunderstorms to protect workers and

INDEPENDENT DEVELOPMENT TRUST
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equipment from lightning strikes.

- (c) All tall structures must be properly earthed and protected against lightning strikes.
- (d) The process of excavation and back filling must be carried out as a sequential process following one another as quickly as possible. Excavations must only remain open for a minimum period of time and during this time they must be clearly demarcated. If excavations place the public at risk these sites must be fenced.
- (e) The residents directly affected by open trenches must be notified of the dangers. This will be done during the site-specific phase.

PEM.5.11 Waste

PEM 5.11.1 Solid Waste

- (a) Littering on site and the surrounding areas is prohibited.
- (b) Clearly marked litterbins must be provided on site. The Contractor must monitor the presence of litter on the work sites as well as the construction campsite.
- (c) All bins must be cleaned of litter regularly.
- (d) All waste removed from site must be disposed at a municipal/permited waste disposal site.
- (e) Excess concrete, building rubble or other material must be disposed of in areas designated specifically for this purpose and not indiscriminately over the construction site.
- (f) The entire works area and all construction sites must be swept of all pieces of wire, metal, wood or other material foreign to the natural environment.
- (g) Contaminated soil must be treated and disposed of at a permitted waste disposal site, or be removed and the area rehabilitated immediately.
- (h) Waste must be recycled wherever possible.

PEM 5.11.2 Liquid Waste

- (a) The Contractor must maintain mobile toilets on site.
- (b) The Contractor must provide adequate and approved facilities for the storage and recycling of used oil and contaminated hydrocarbons. Such facilities must be designed and sited with the intention of preventing pollution of the surrounding area and environment.
- (c) All vehicles must be regularly serviced in designated area within the Contractors camp such that they do not drip oil.
- (d) All chemical spills must be contained and cleaned up by the supplier or professional pollution control personnel. Run-off from wash bays must be intercepted.

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PEM 5.11.3 *Hazardous Waste*

- (a) No hazardous materials must be disposed of in the veld or anyplace other than a registered landfill for hazardous material. Hazardous waste must be stored in containers with tight lids that must be sealed and must be disposed at an appropriately permitted hazardous waste disposal site. Such containers must not be used for purposes other than those originally designed for.
- (b) The Contractor must maintain a hazardous material register.

PEM.5.12 Rehabilitation and Site clearance

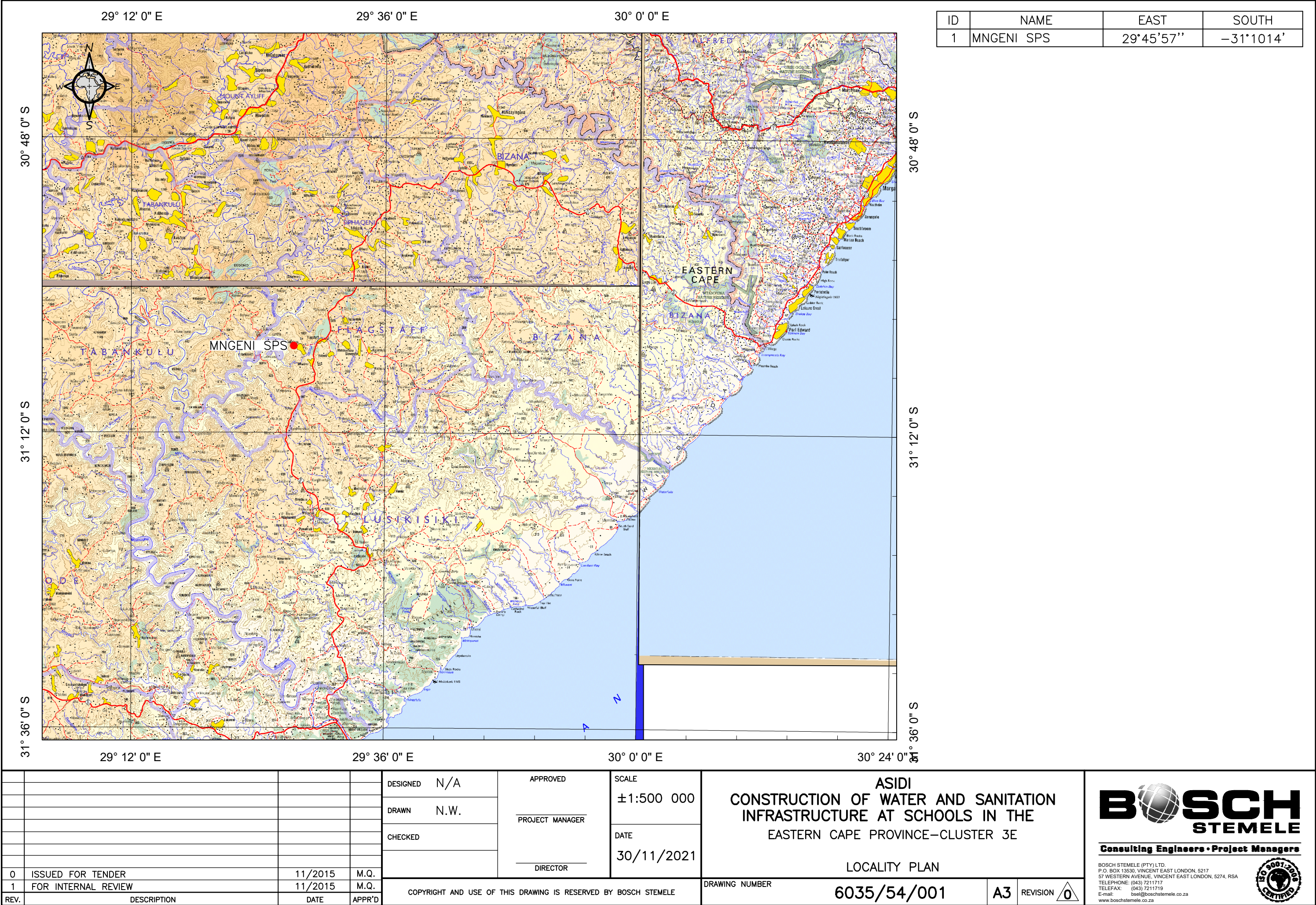
- b)
- (a) When all major construction activities are completed, the site must be inspected to determine site-specific rehabilitation measures. This may be considered as unplanned work e.g. soil rehabilitation due to oil spills.
- (b) All temporary buildings and foundations, equipment, lumber, refuse, surplus materials, waste, construction rubble fencing and other materials foreign to the area must be removed.
- (c) If waste products cannot be recycled they must be disposed of at a permitted landfill site.
- (d) All drainage deficiencies including abandoned pit latrines and waste pits must be corrected.
- (e) Cut and fill areas must be restored and re-shaped.
- (f) The area must be restored to its natural vegetation condition using indigenous trees, shrubs and grasses as directed by a grassland and/or rehabilitation expert.
- (g) Borrow pits must be re-shaped into even slopes and surfaces to blend with the natural terrain and topsoil must be replaced.
- (h) The grass mix, shrubs and trees used for rehabilitation must be compatible with the species identified in the site-specific investigation.
- (i) Areas compacted by vehicles during construction must be scarified to allow penetration of plant roots and the regrowth of natural vegetation.

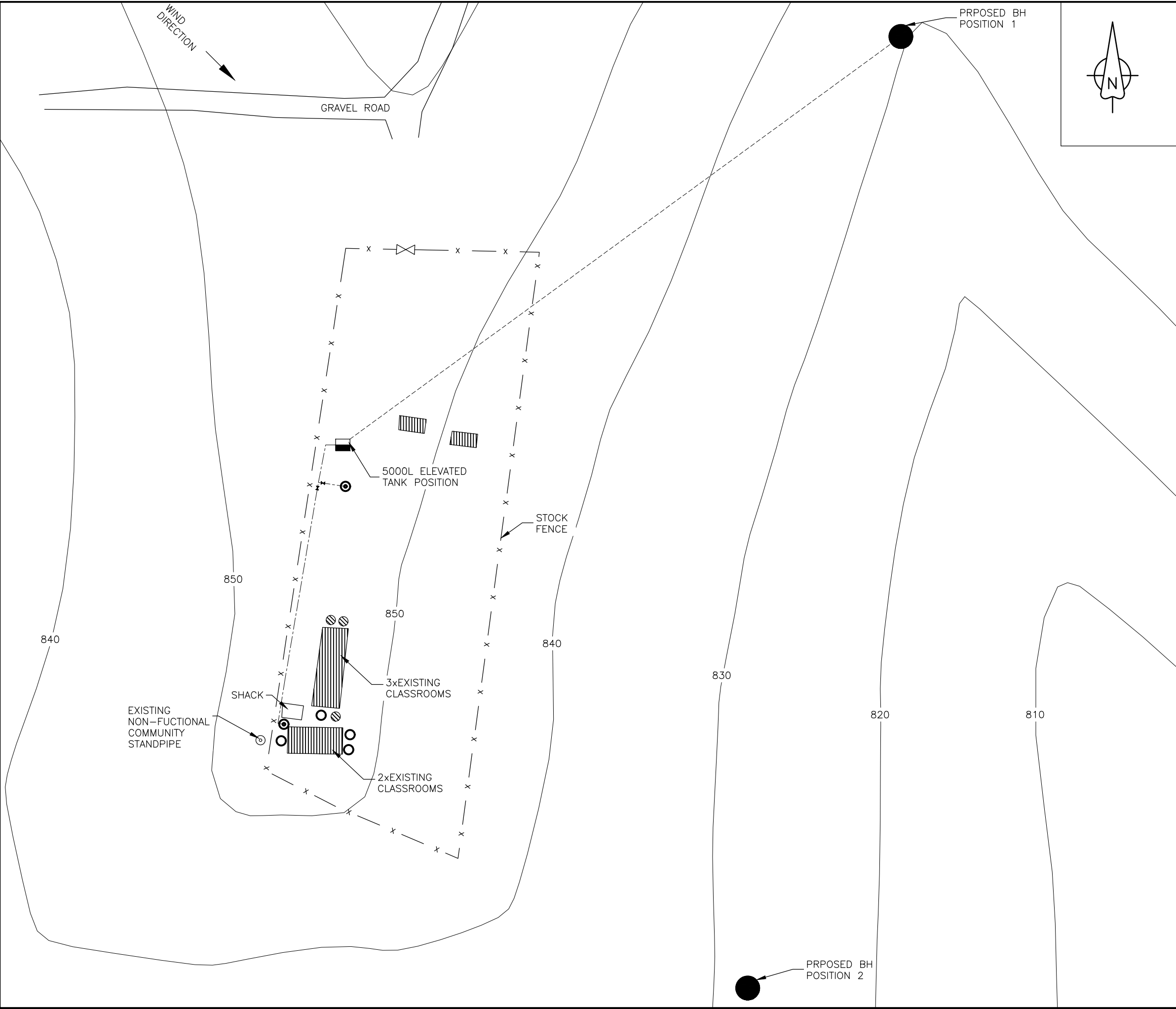
PEM.6 MEASUREMENTS AND PAYMENT

No additional payment will be made to the Contractor to comply with the above actions as it will be deemed to be included in the rates tendered.

C5.3 DRAWINGS

6035/54/001	LOCALITY MAP AND WATER CLUSTER 3
6035/543E/23/002	MNGENI SPS
6035/54/004	TYPICAL BOREHOLE PUMP STATION
6035/54/005	4.5m HIGH ELEVATED WATER TANK (10 000 l) DETAILS AND SECTIONS
6035/54/006	4.5m HIGH ELEVATED WATER TANK (5 000 l) DETAILS AND SECTIONS
6035/54/007	DRINKING WATER RAINWATER STORAGE
6035/54/008	STANDPIPE DETAILS
6035/54/008-A	STANDPIPE DRAINAGE DETAILS RevA
6035/54/010	ROAD CROSSING, PIPE BEDDING AND CONCRETE ENCASMENT DETAILS
6035/54/013	ISOLATION VALVE DETAILS
6035/54/014	FENCING DETAILS
6035/54/016	NAME BOARD
6035/54/20	DRINKING WATER LOW PROFILE RAINWATER STORAGE
6035/54/021	BOOSTER PUMP





LEGEND :

- ⊗ EXISTING WATER TANKS
- PROPOSED WATER TANKS
- ⊙ EXISTING STANDPIPE
- ⦿ PROPOSED STANDPIPE
- PROPOSED RETIC MAIN
- PROPOSED RISING MAIN

Revisions		No.	Date	Description	By	Chk	App
		0	28/06/13	Issued for Tender	GT		
		01	31/05/13	Issued for Information	GT		

Designed	Drawn	Checked	Approved	Date	Scale
GT	BD			22/05/13	1:1000

Client



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Implementing Agent



IDT
Palm Square Business Park
Silverwood House
Bonza Bay Road
Beacon Bay, 5241
Tel: (043) 711-6000
Fax: (043) 748-5471

Project

ASIDI WATER & SANITATION PROGRAMME

Drawing Title

**WATER CLUSTER 3
MNGENI SPS
LAYOUT PLAN
CONTRACT 3E/23
EMIS NO.: 200500718**

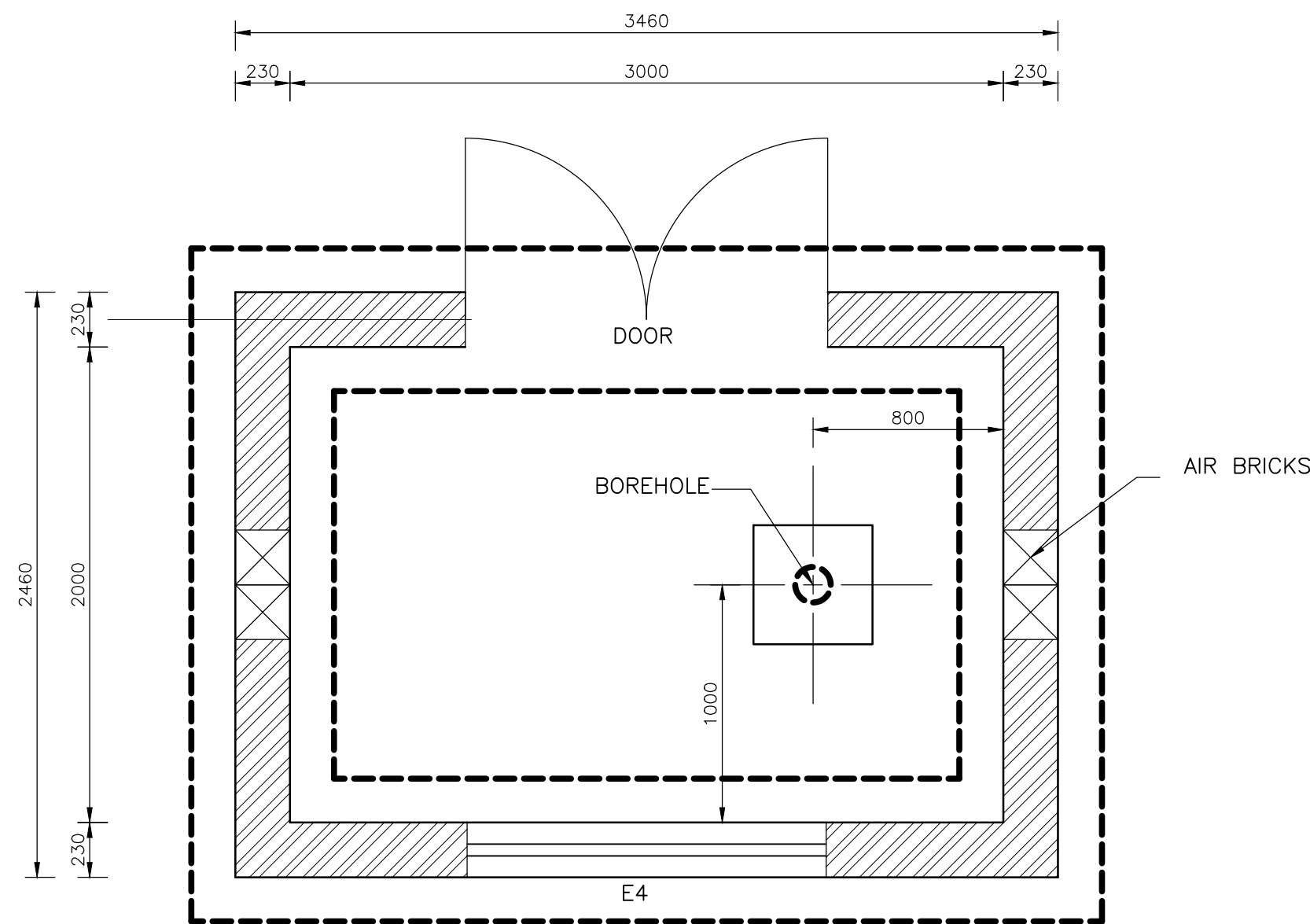
Consulting Engineer



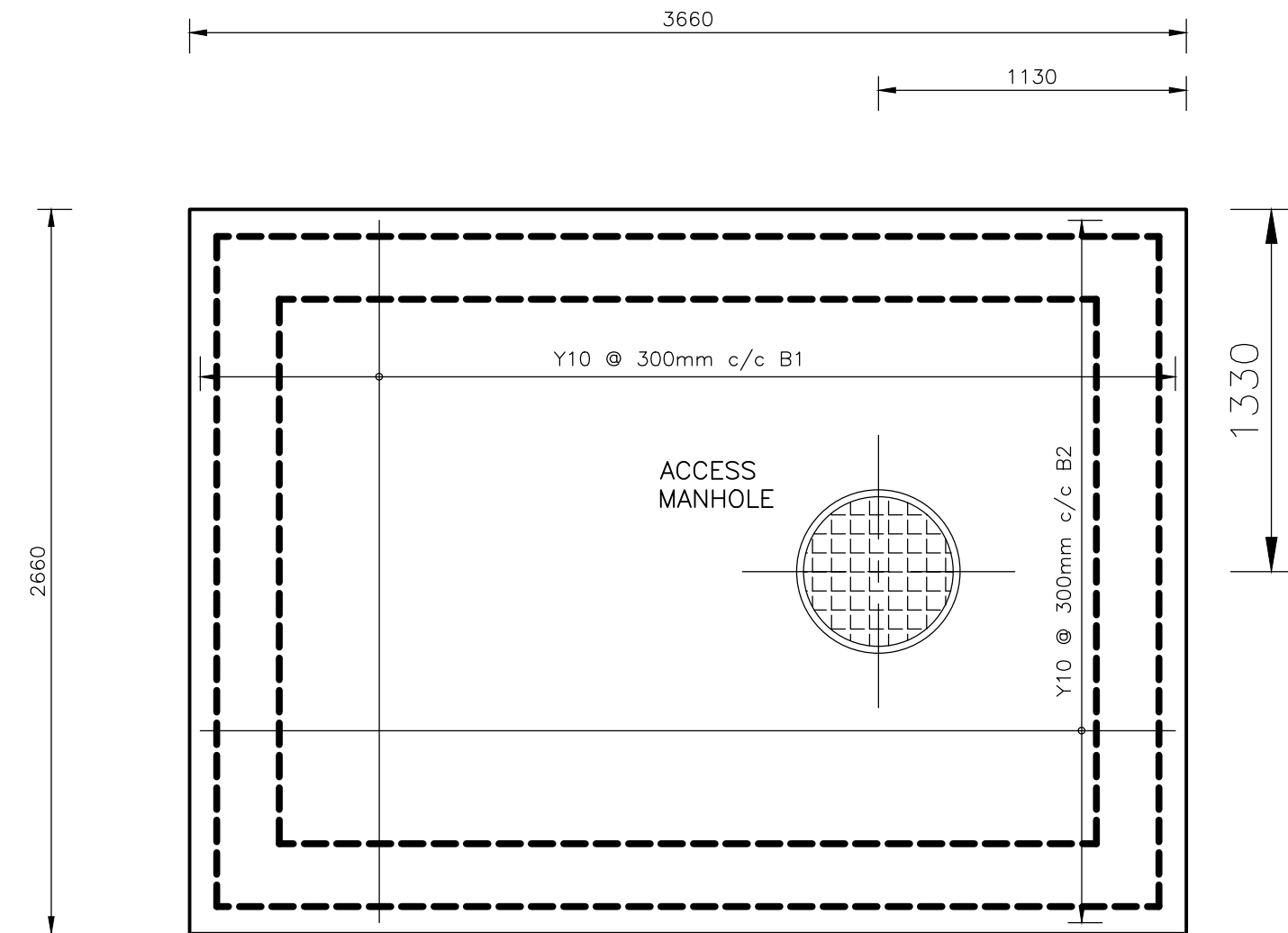
BOSCH STEMELE
Consulting Engineers - Project Managers

BOSCH STEMELE (PTY) LTD.
P.O. BOX 13530, Vincent, East London, 5217
28 Blakeway Drive, Mthatha, 5099, RSA
Tel: (047) 532 6694 Fax: (047) 531 4974
E-mail: bsel@boschstemele.co.za

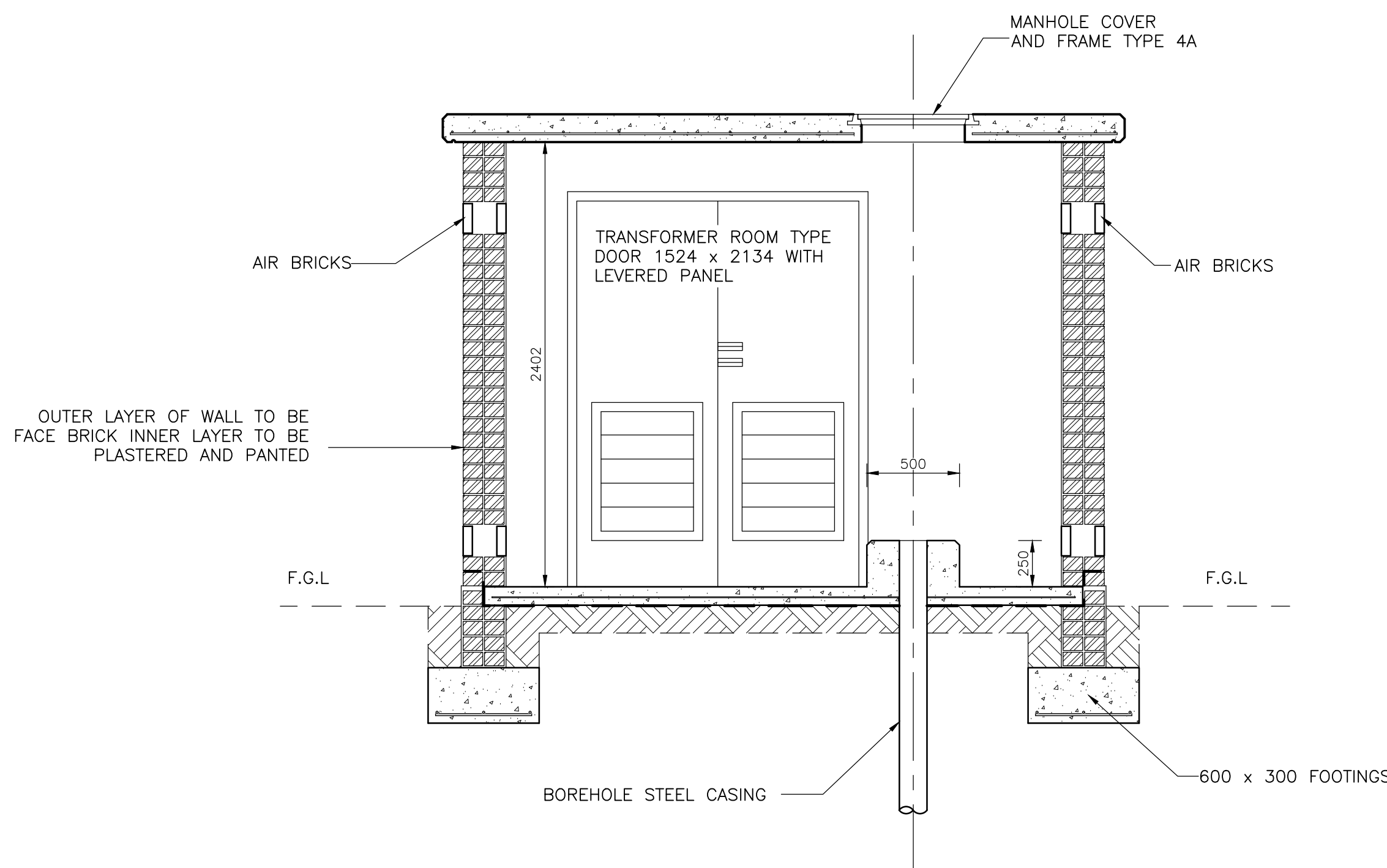
Drawing No.	Revision
6035/54/3E/23/002	0



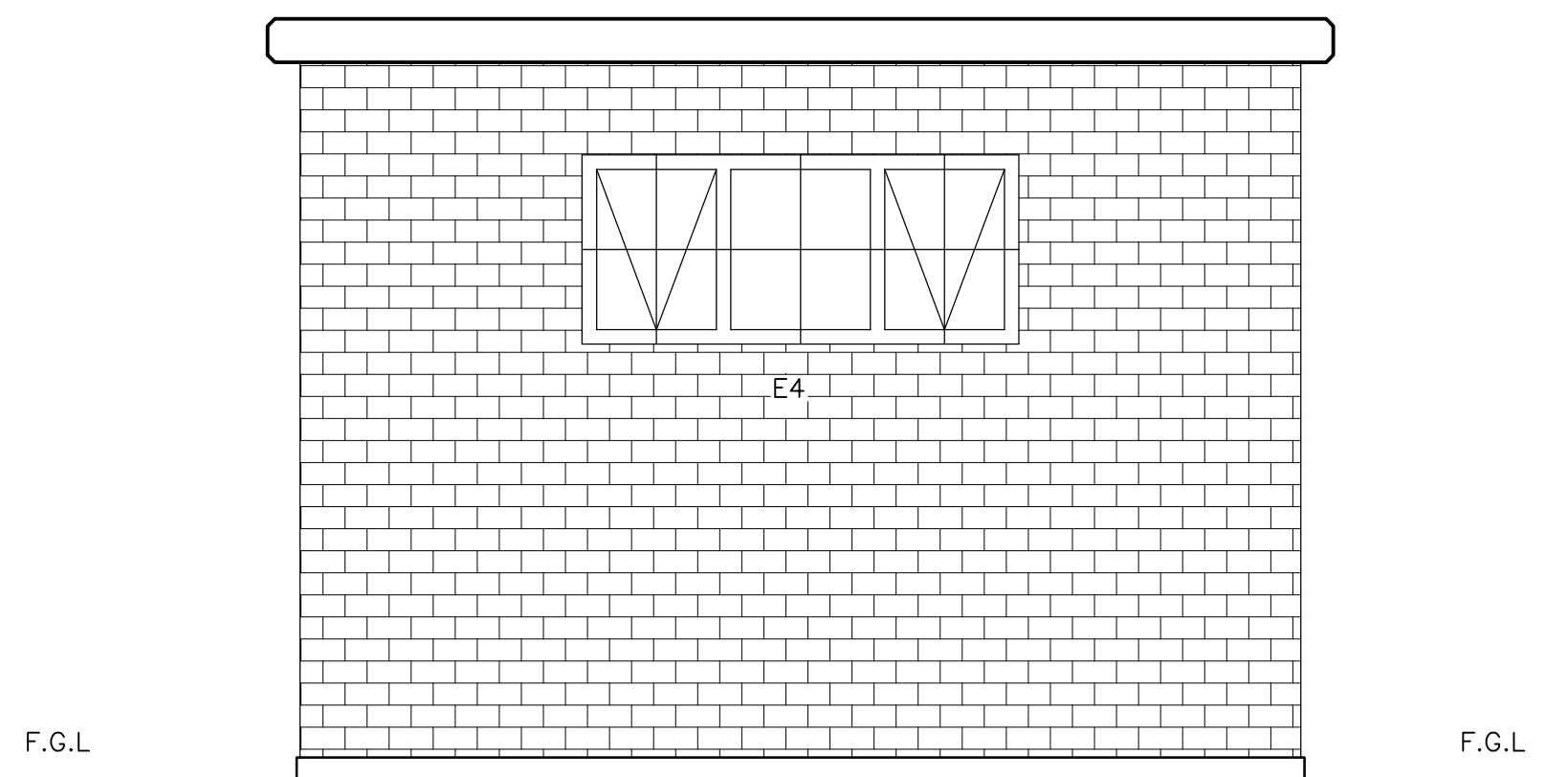
PLAN
SCALE 1:25



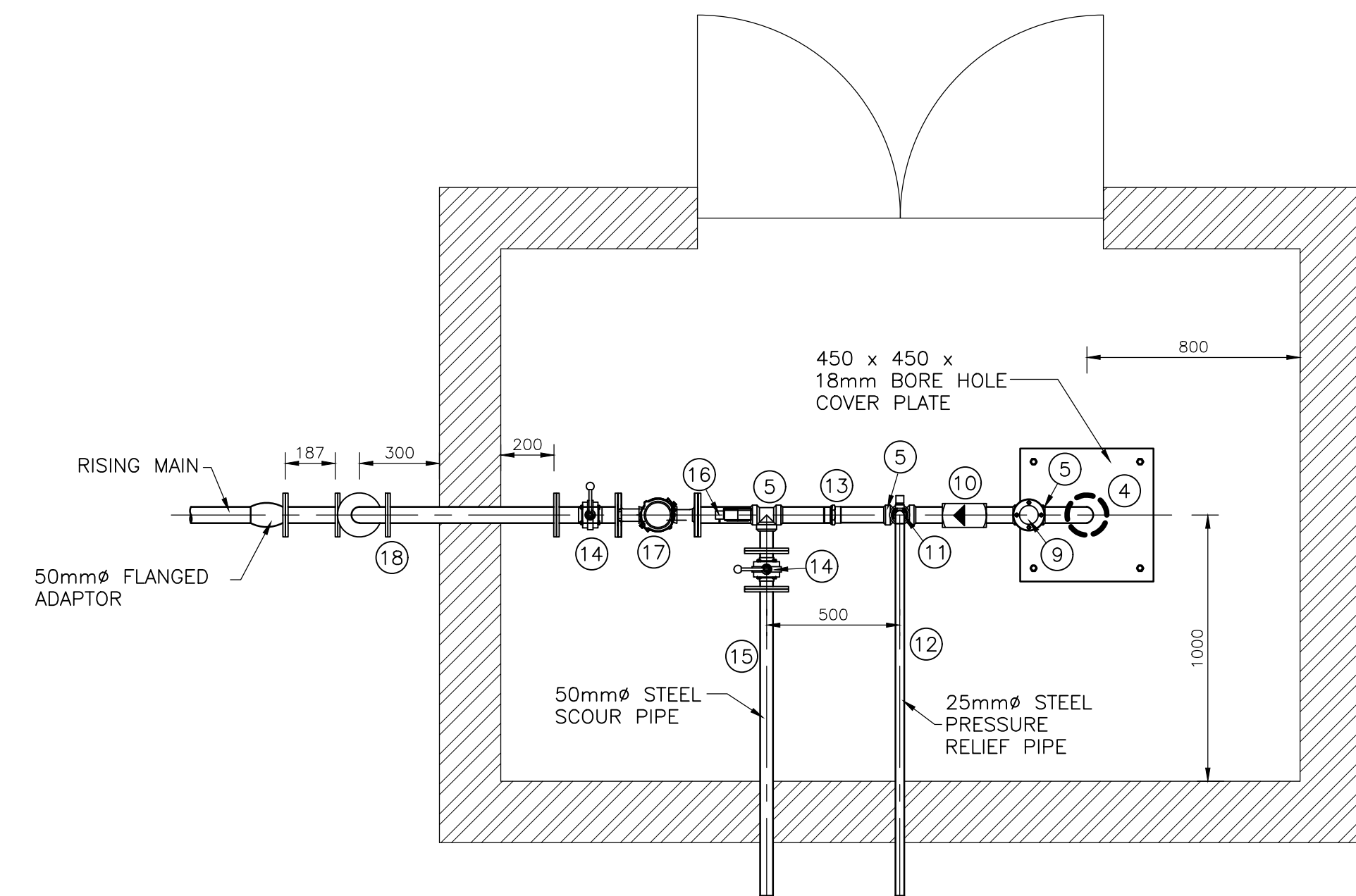
ROOF SLAB
SCALE 1:25



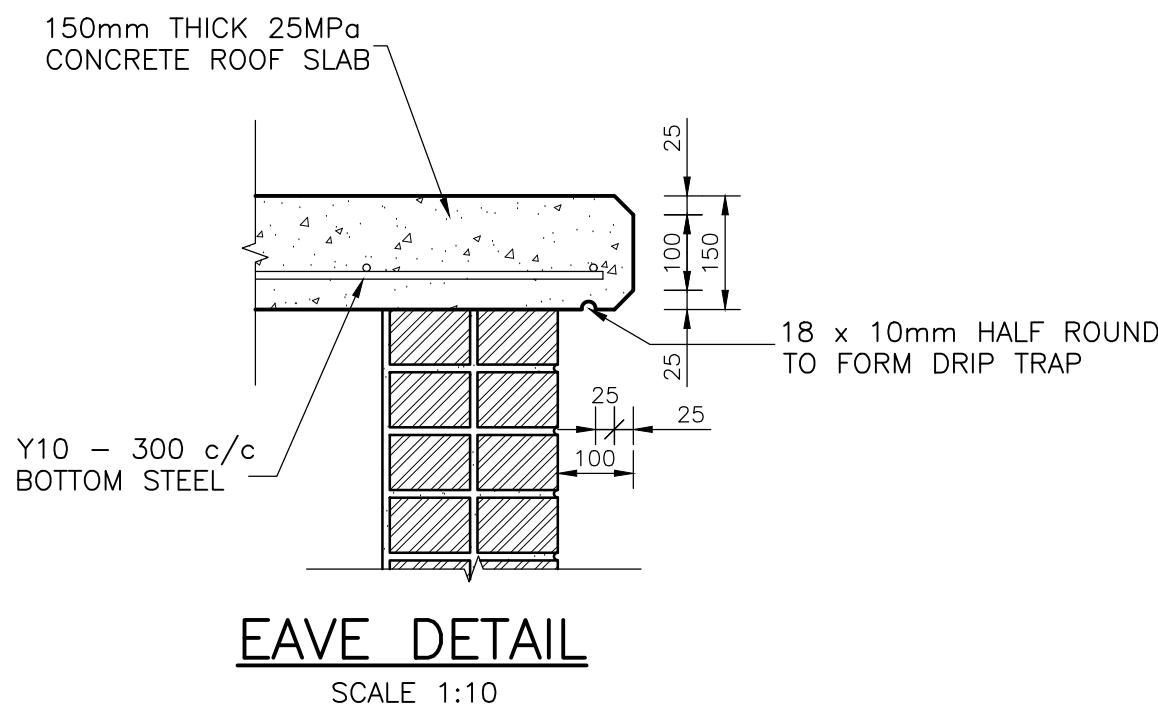
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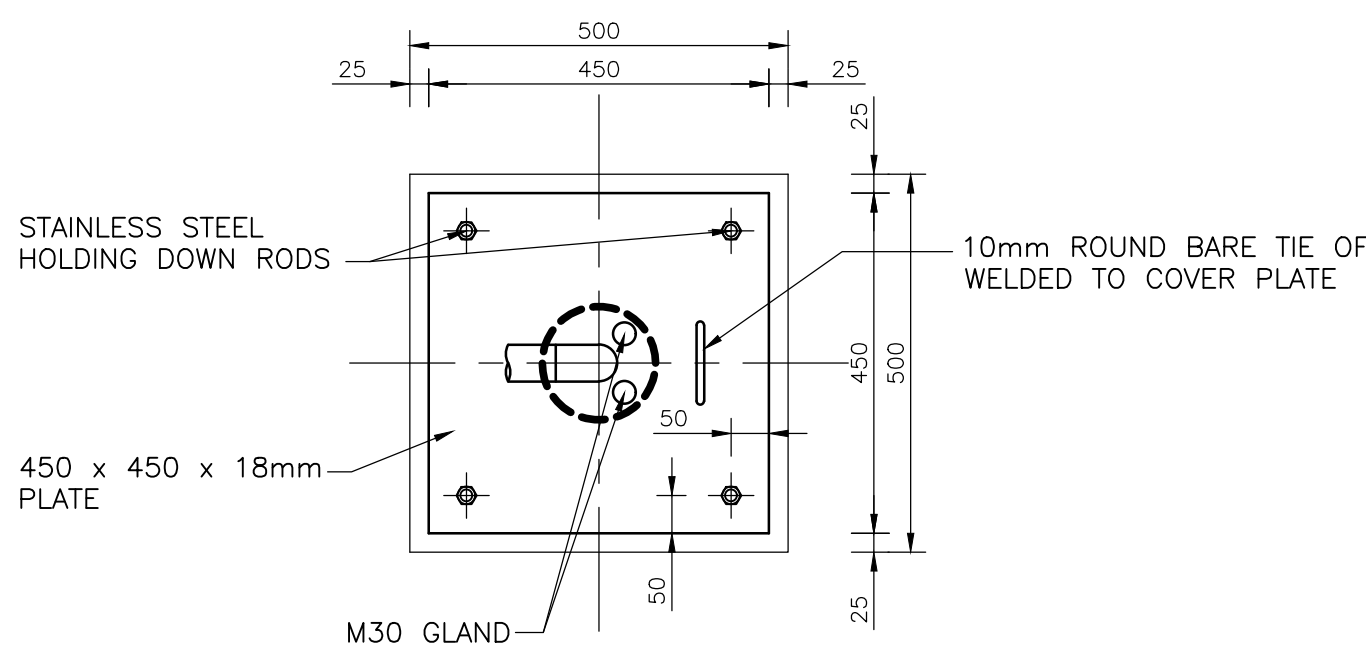
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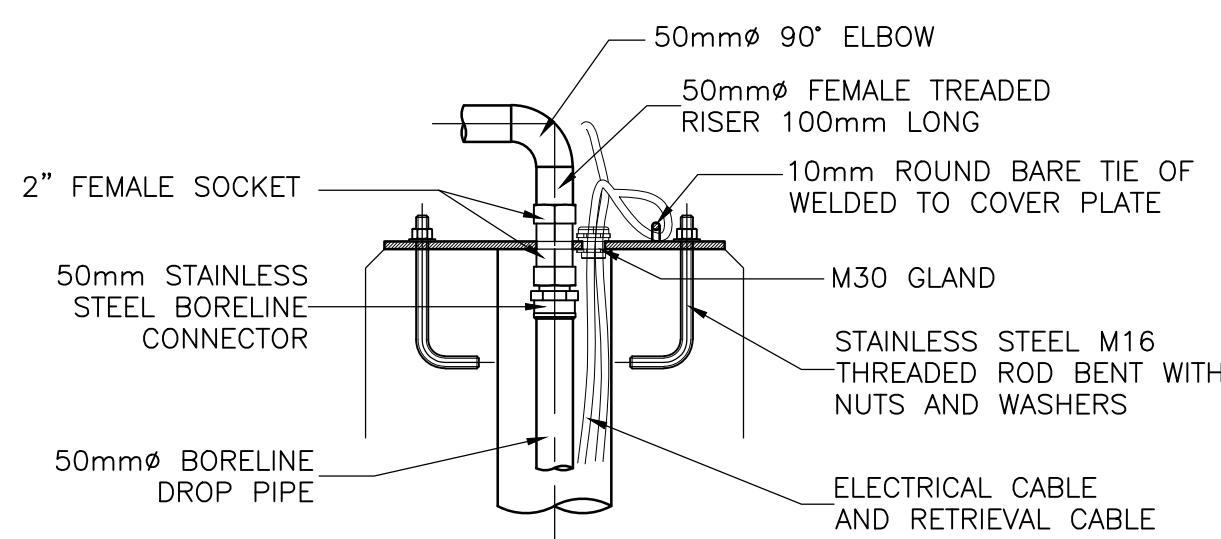
PLAN ON PIPEWORK
SCALE 1:20



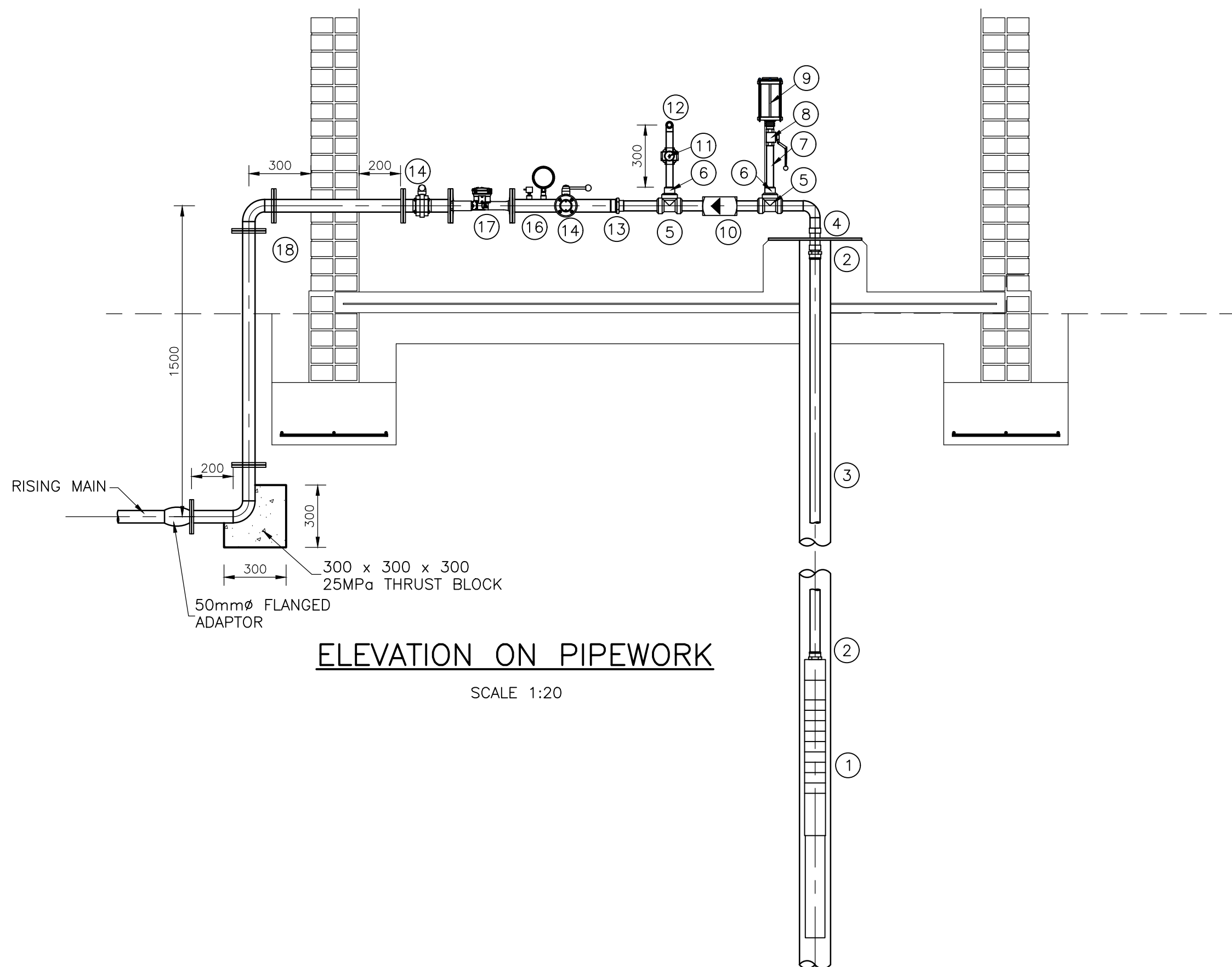
EAVE DETAIL
SCALE 1:10



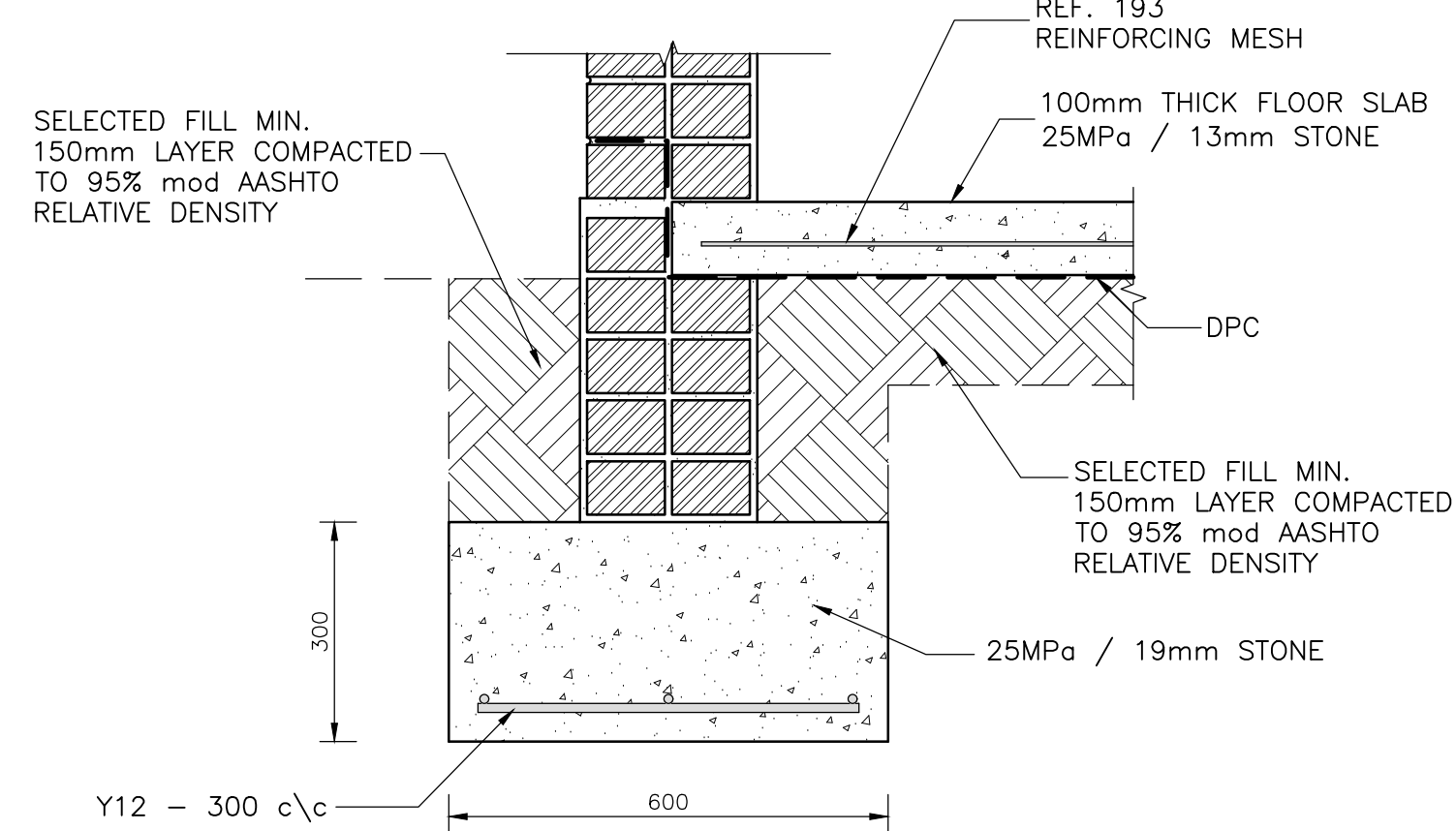
PLAN ON COVER PLATE
SCALE 1:10



SECTION
BOREHOLE COVER PLATE
DETAIL
SCALE 1:10



ELEVATION ON PIPEWORK
SCALE 1:20



FOUNDATION / FLOOR
DETAIL
SCALE 1:10

RECOMMENDED SUBMERSIBLE PUMPS (GRUNDFOS BOREHOLE PUMPS)

PIPEWORK SCHEDULE		
ITEM	DESCRIPTION	NUMBER
1	BOREHOLE SUBMERSIBLE PUMP (GRUNDFOS OR SIMILAR APPROVED)	1
2	50mm STAINLESS STEEL BORELINE CONNECTOR	2
3	50mm BORELINE DROP PIPE	1
4	BOREHOLE COVER PLATE ARRANGEMENT (SEE DETAIL)	1
5	2" GALVANISED EQUAL TEE	3
6	2"-1" GALVANISED REDUCING BUSH	2
7	1" GALVANISED RISER, 200mm LONG	1
8	1" FEMALE THREADED BALL VALVE	1
9	1" AIR VALVE	1
10	2" NON RETURN VALVE PN16 WITH NIPLES AND UNION	1
11	1" PRESSURE RELIEF VALVE, SET TO WORKING PRESSURE + 1 BAR.	1
12	1" PRESSURE RELIEF PIPEWORK TO OUTSIDE BUILDING.	1
13	2" GALVANISED UNION	1
14	2" FLANGED BUTTERFLY VALVE PN16	2
15	2" GALVANISED SCOUR PIPEWORK TO SUIT FLANGED VALVE	1
16	50mm $\varnothing$ STEEL DISTANCE PIECE 215mm LONG ONE END FLANGED OTHER END THREADED TO SUITE TEE. PIPE TO BE PROVIDED WITH 2 No. $\frac{1}{2}$ " SOCKET, WITH PRESSURE GAUGE AND CONTROL SWITCH.	1
17	2" FLANGED WATER METER (AMCO H4000 BULK WATER METER) OR SIMILAR AND APPROVED	1
18	2" FLANGED OUTLET PIPEWORK TO RISING MAIN	1

GENERAL NOTES:

ROOFSLAB
150mm THICK, 25 MPa CONCRETE, Y10@300 c/c IN BOTTOM, 40mm COVER, ON BRICK-GRIP WITH A SANS 558 TYPE 4A CI MANHOLE OVER BOREHOLE

BRICKWORK
WALL'S TO BE INTERNAL STOCK BRICK PLASTERED AND PAINTED WITH CONTRACTORS PVA MIN. 3 COATS EXTERNAL TO BE FACE BRICK TO MATCH SCHOOL. BRICK FORCE EVERY LAYER FIRST 5 COURSE THEREAFTER EVERY THIRD COURSE. FACE BRICK EXTERNAL TREATMENT TO BE SAME AS SCHOOL FLOORSLAB

FLOORSLAB
100mm THICK, 25 MPa CONCRETE SLAB WITH MESH REF 193, ON TOP OF DPC, ON TOP OF MIN. 150mm LAYER SELECTED FILL, COMPACTED TO 95% mod AASHTO IN 150mm LAYERS

FOUNDATIONS
600 x 300mm 25 MPa FOOTINGS. MIN. 4 BRICK COURSES BELOW NGL

DOOR
TRANSFORMER ROOM TYPE DOOR 813 X 2032 WITH LEVERED PANEL AND PROTECTIVE PADLOCK COVER - WITH LOCK

WINDOWS AND VENTILATING
WINDOWS TO BE TYPE E4 SMALL PAIN STEEL WINDOWS WITH BURGLAR PROOFING. AIR BRICK AS INDICATED WITH VERMIN PROOFING.

APRON
75mm THICK x 600mm WIDE 20 MPa APRON AROUND PUMP STATION ON COMPACTED INSITU MATERIAL

PIPEWORK NOTES:
(THE PIPEWORK, FITTINGS AND VALVES SHALL BE INSTALLED BY AN APPROPRIATELY QUALIFIED CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL FITTINGS, VALVES AND PIPE WORK IS CORRECT BEFORE ORDERING AND INSTALLATION)

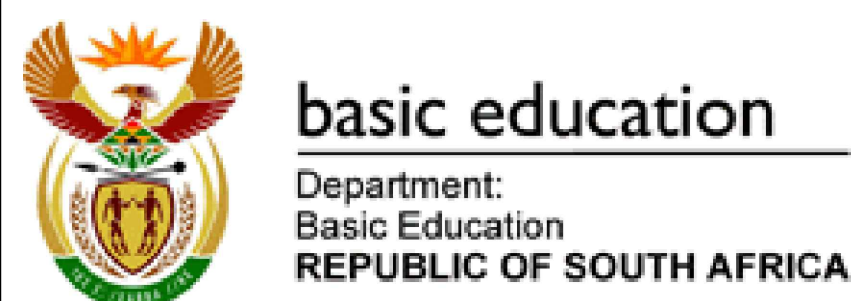
PIPEWORK
PIPEWORK TO BE MEDIUM PRESSURE GALVANIZED STEEL PIPE CAPABLE OF WORKING PRESSURE OF 16 bar. CONTRACTOR TO ALLOW FOR CORRECTLY CUT DISTANCE PEASE'S AND PLACEMENT THEIR OFT JOINTS

JOINTS
JOINTS TO BE THREADED SCREW TYPE AND FLANGED AS INDICATED. STAG AND HEMP SEAL TO ALL THREADED JOINTS.

ELECTRICAL
ELECTRICAL ENGINEER IS TO PROVIDE DETAILS FOR WIRING ELECTRONICS AND PUMP CONTROL INSTALLATION.

REV.	DESCRIPTION	DATE	APPROD
B	ADDITIONAL NOTES	13/10/14	M.Q.
A	FOR CONSTRUCTION	04/2014	M.Q.
0	FOR INTERNAL TENDER	07/2013	M.Q.
01	FOR INTERNAL REVIEW	06/2013	GT

DWG. No. REFERENCE DRAWING
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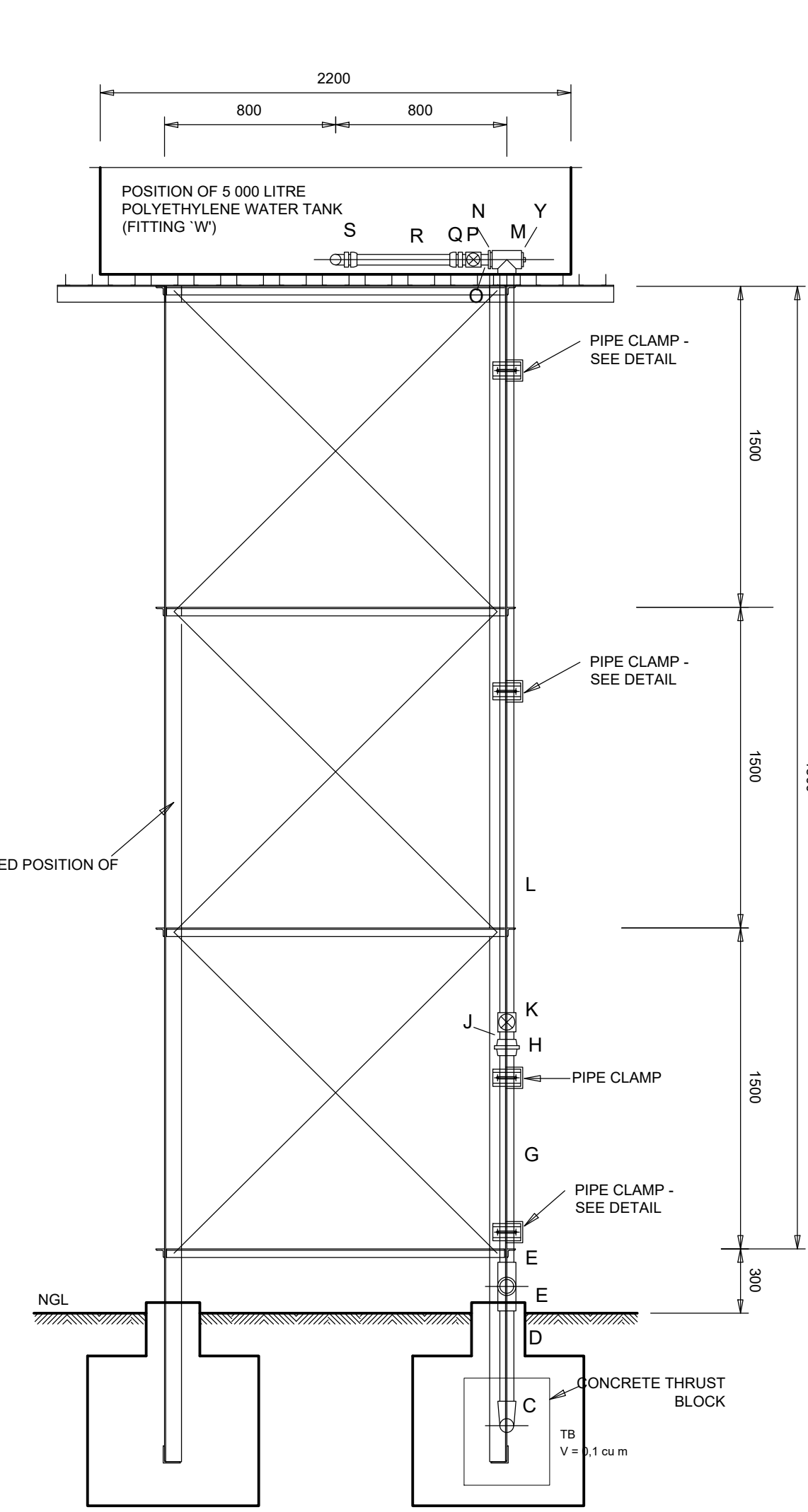
BOSCH STEMELE (PTY) LTD.
P.O. BOX 13530, VINCENT
EAST LONDON, 5217
57 WESTERN AVENUE, VINCENT
EAST LONDON, 5274, RSA
TELEPHONE: (043) 7211717
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DURBAN - CAPE TOWN - PORT ELIZABETH - JOHANNESBURG

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DESIGNED	M.Q.	DRAWN	B.D.
CHECKED		CIVIL ENGINEER	M.Q.
STRUCTURAL ENGINEER	E.T.	MECHANICAL ENGINEER	N/A
ELECTRICAL ENGINEER	N/A	CO-ORDINATING ENGINEER	N/A
APPROVED		PROJECT MANAGER	DIRECTOR

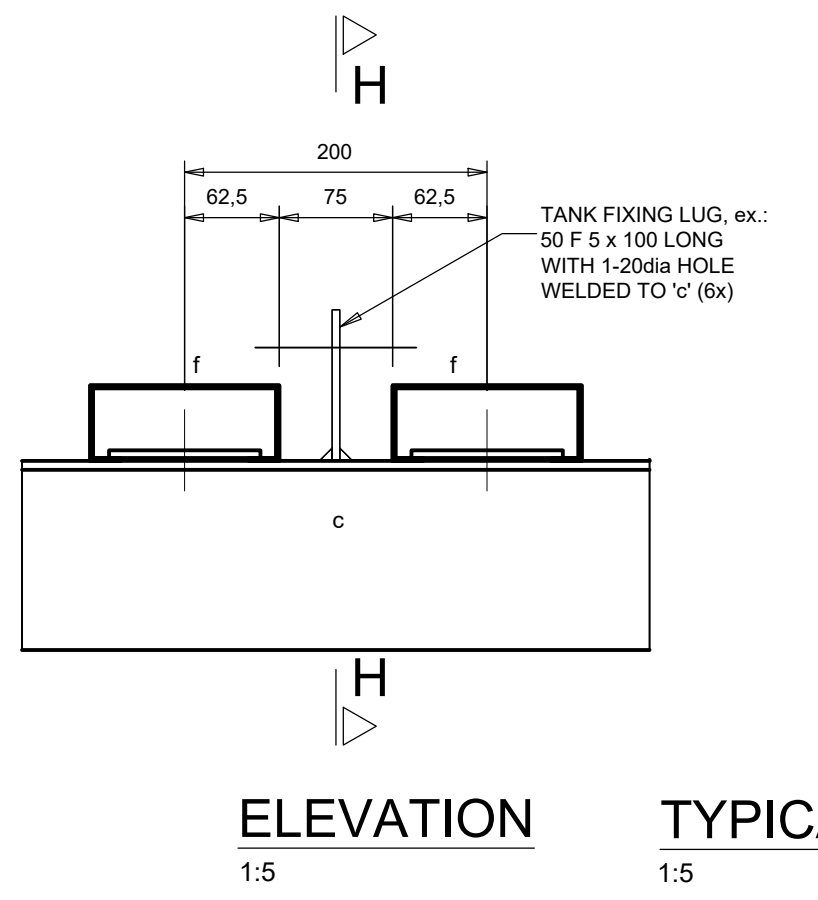
ASIDI
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE AT SCHOOLS IN THE EASTERN CAPE PROVINCE.
TYPICAL BOREHOLE PUMP STATION

SCALE	AS SHOWN	DATE	26/06/2013
DRAWING NUMBER	6035/54/004	REVISION	A0

6033/34/003	A0	
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SECTION A-A
SCALE: 1:25



ELEVATION
1:5

TYPICAL LUG DETAIL (6x)
1:5

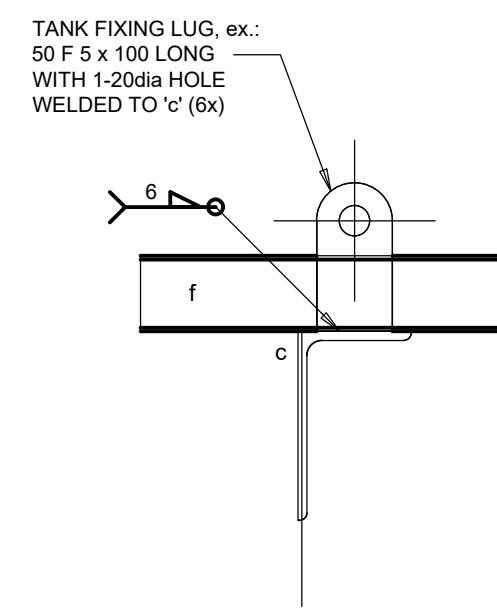
ITEM	DESCRIPTION	LENGTH	No OFF
BASE PLATE	80 x 80 x 6 HRA	300mm	4
COLUMN	80 x 80 x 6 HRA	5000mm	4
STRUT	40 x 40 x 6 HRA	1000mm	14
FLOOR BEAM	125 x 75 x 10 HRA	2600mm	2
PLANK	125 x 80 x 2 CRLC	2700mm	13
VERT BRACING	30 x 6 F	2200mm	24
HOR BRACING	40 x 40 x 3 HRA	2200mm	4
PIPE CLAMP	80 x 80 x 6 HRA	100mm	6
M10 U-SHAPED BOLT	75 PL 6 x 75 LONG	140mm	6
FIXING PLATE BOLTS	75 PL 6 x 75 LONG	55mm	74

QUANTITIES FOR SINGLE TANK STAND

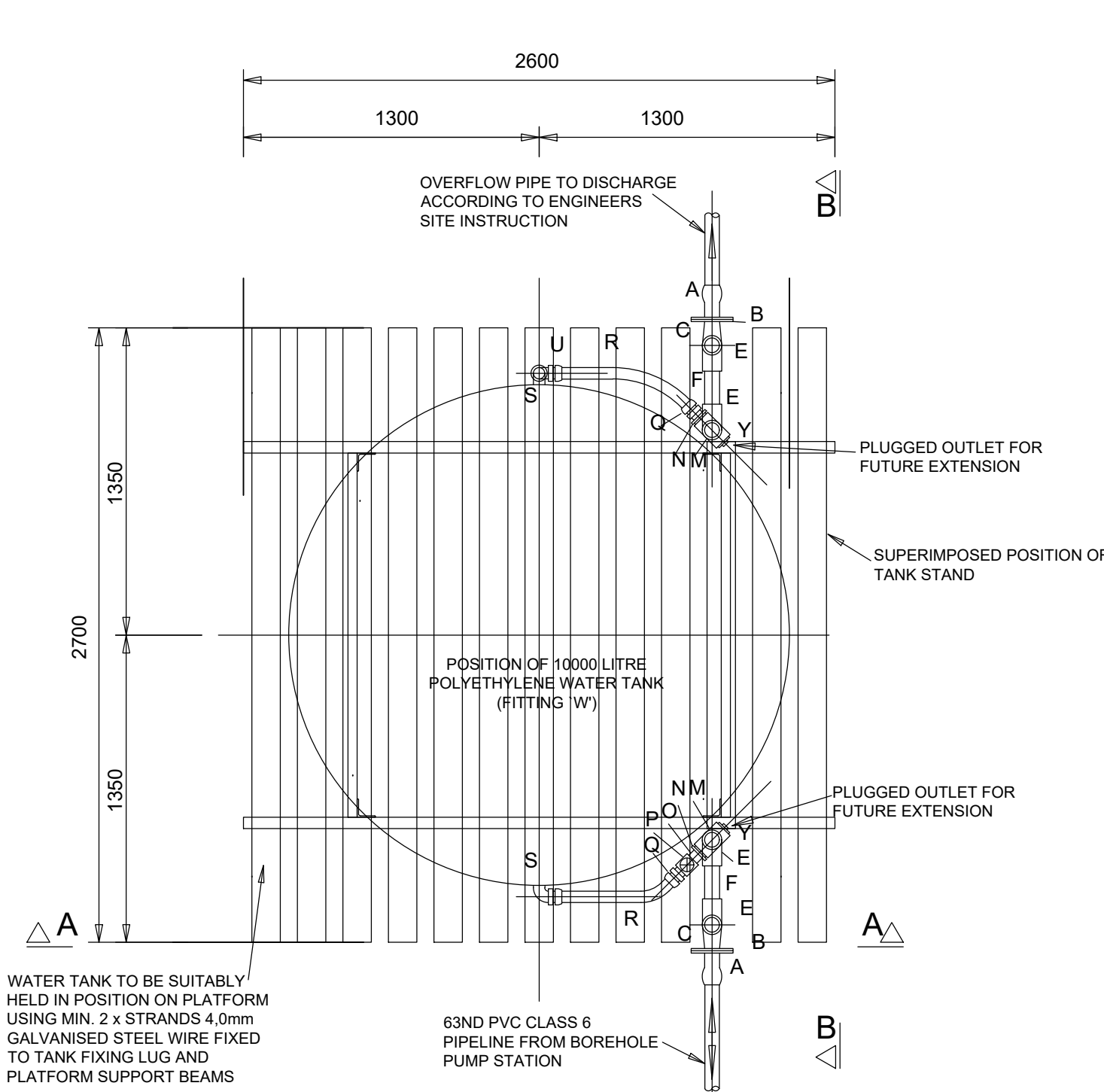
LEGEND:
a: 80 x 80 x 6 HRA (45BM S)
b: 40 x 40 x 6 HRA (23BM S)
c: 125 x 75 x 10 HRA (45BM S)
d: 30 x 6 F (25BM S)
e: 40 x 40 x 3 HRA (23BM S)
f: 125 x 50 x 20 x 2.5 CRLC

NOTE:
HRA = HOT ROLLED ANGLE
F = FLAT BAR
CRLC = COIL ROLLED LIPPED CHANNEL
B/B = BACK TO BACK (e.g. 100-100)
S = UNLESS OTHERWISE SHOWN

BOLT DETAIL
1:5

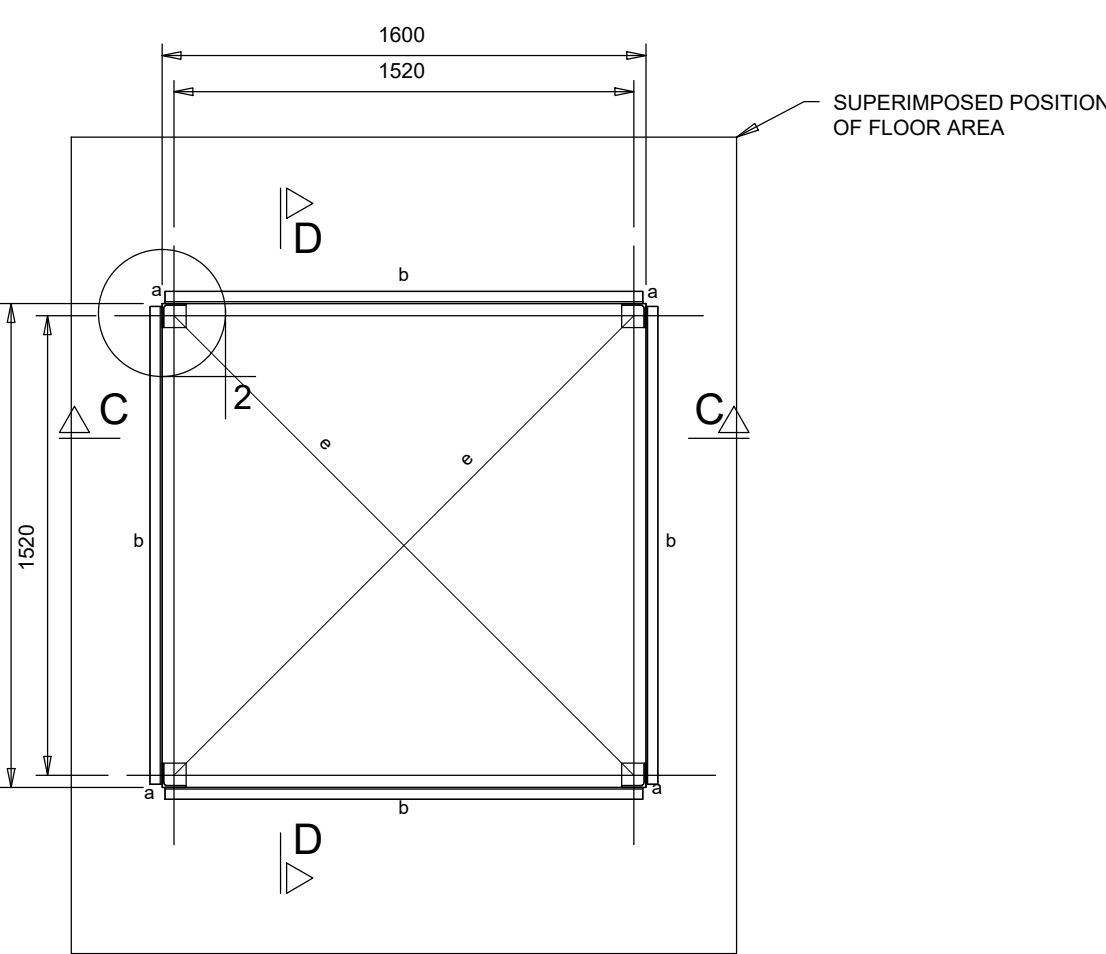


SECTION H-H
1:5

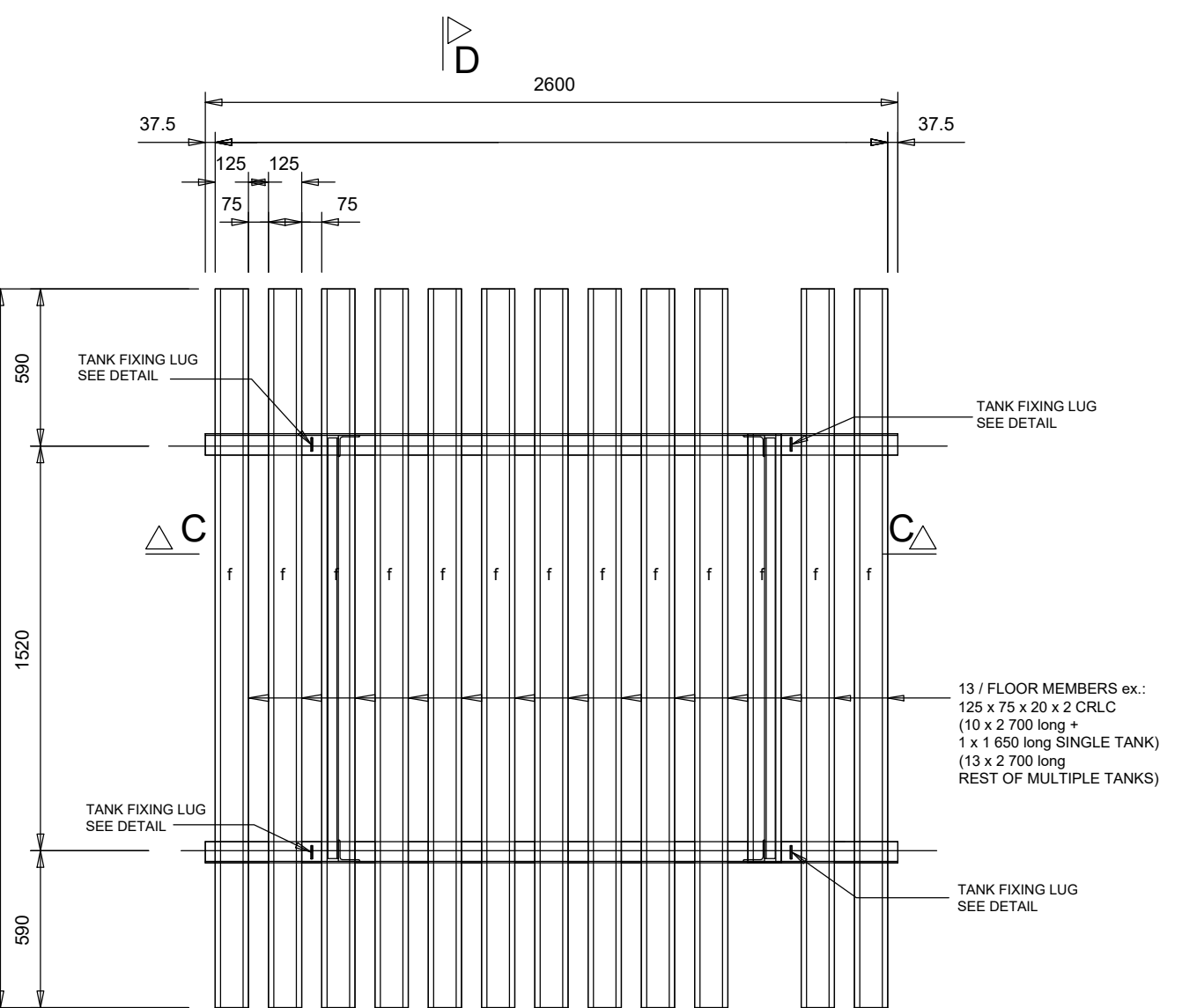


PLAN
N.T.S.

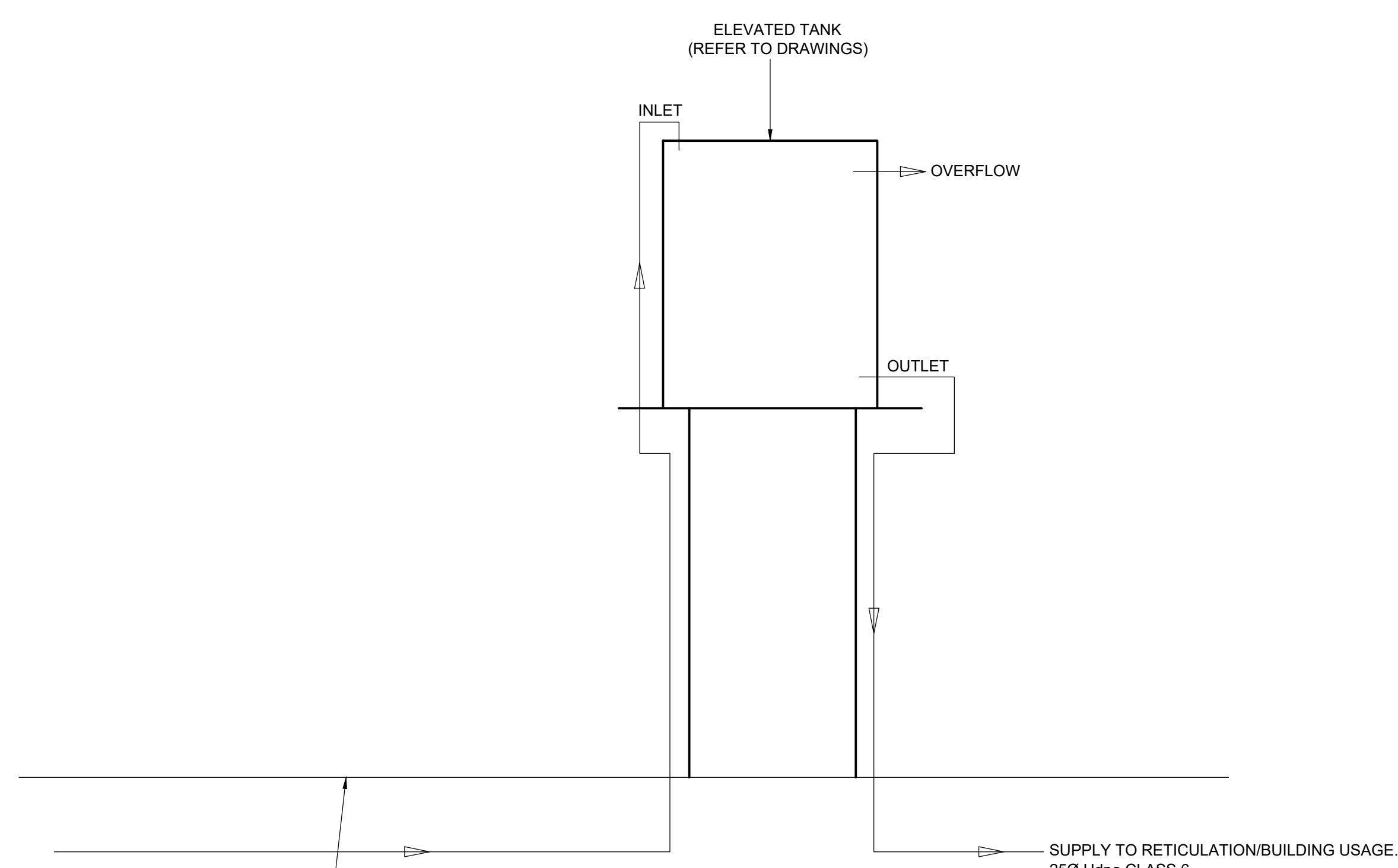
NOTE:
ALL FLANGES TO BE DRILLED ACCORDING TO SABS 1123-1977 TABLE 11 (STEEL SCREWED BOSS FLANGES - 1000/4) AND REFERRED TO AS SABS 11 IN THE SCHEDULE OF FITTINGS



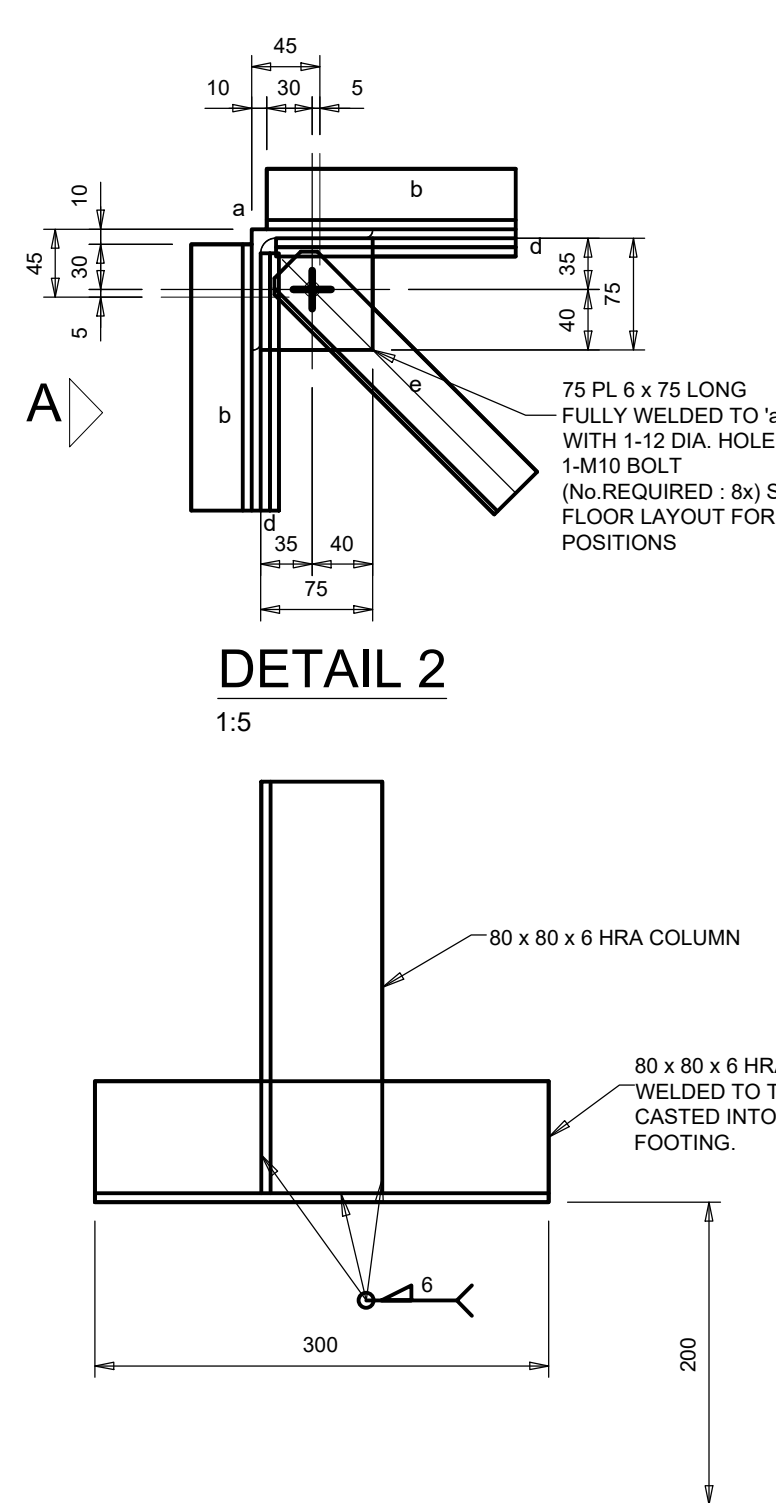
LAYOUT PLAN E-E
1:25



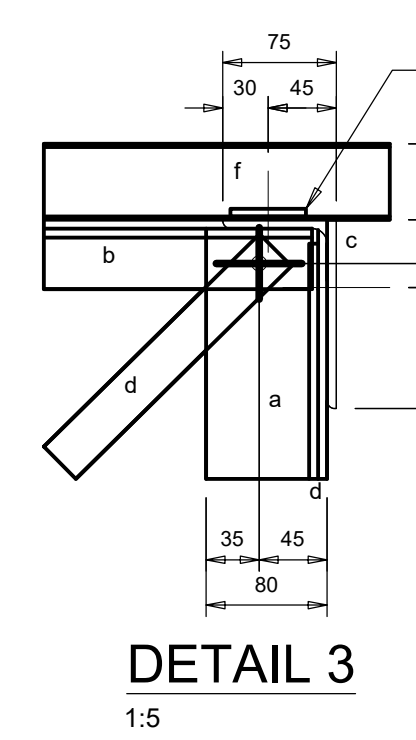
FLOOR LAYOUT
1:25



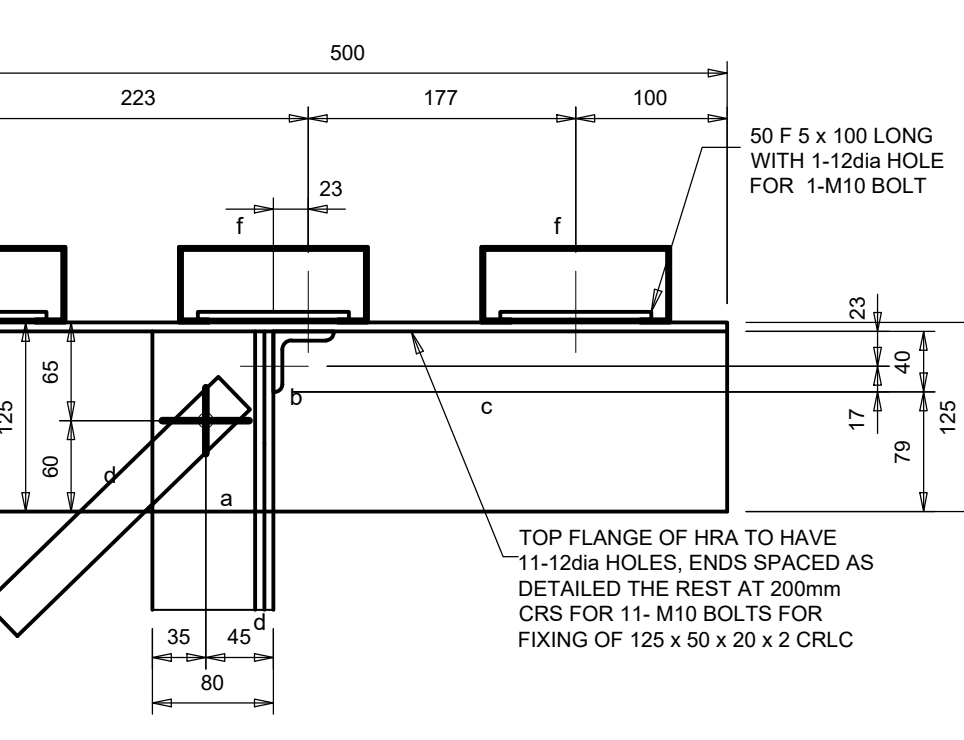
ELEVATED WATER TANK SCHEMATIC
SCALE: N.T.S.



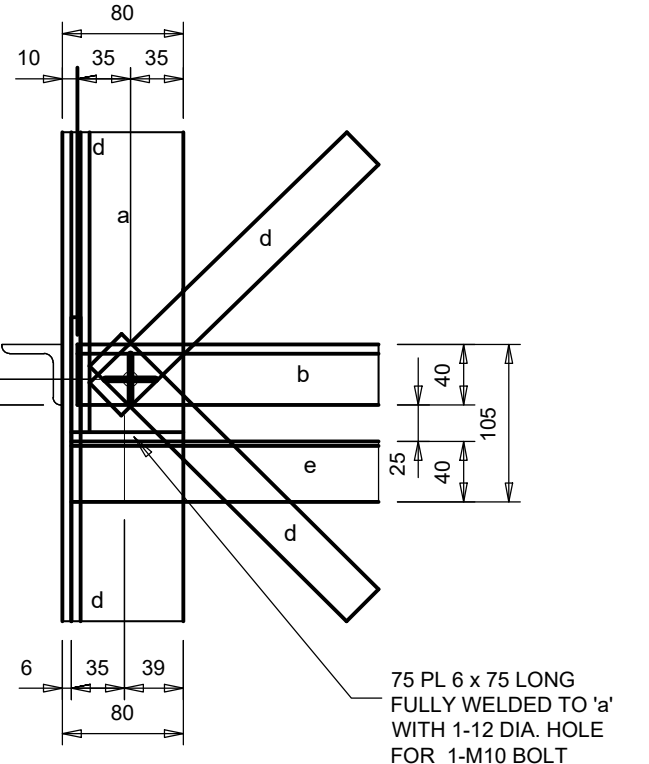
BASE PLATE DETAIL 1
(6 OFF REQUIRED)
1:5



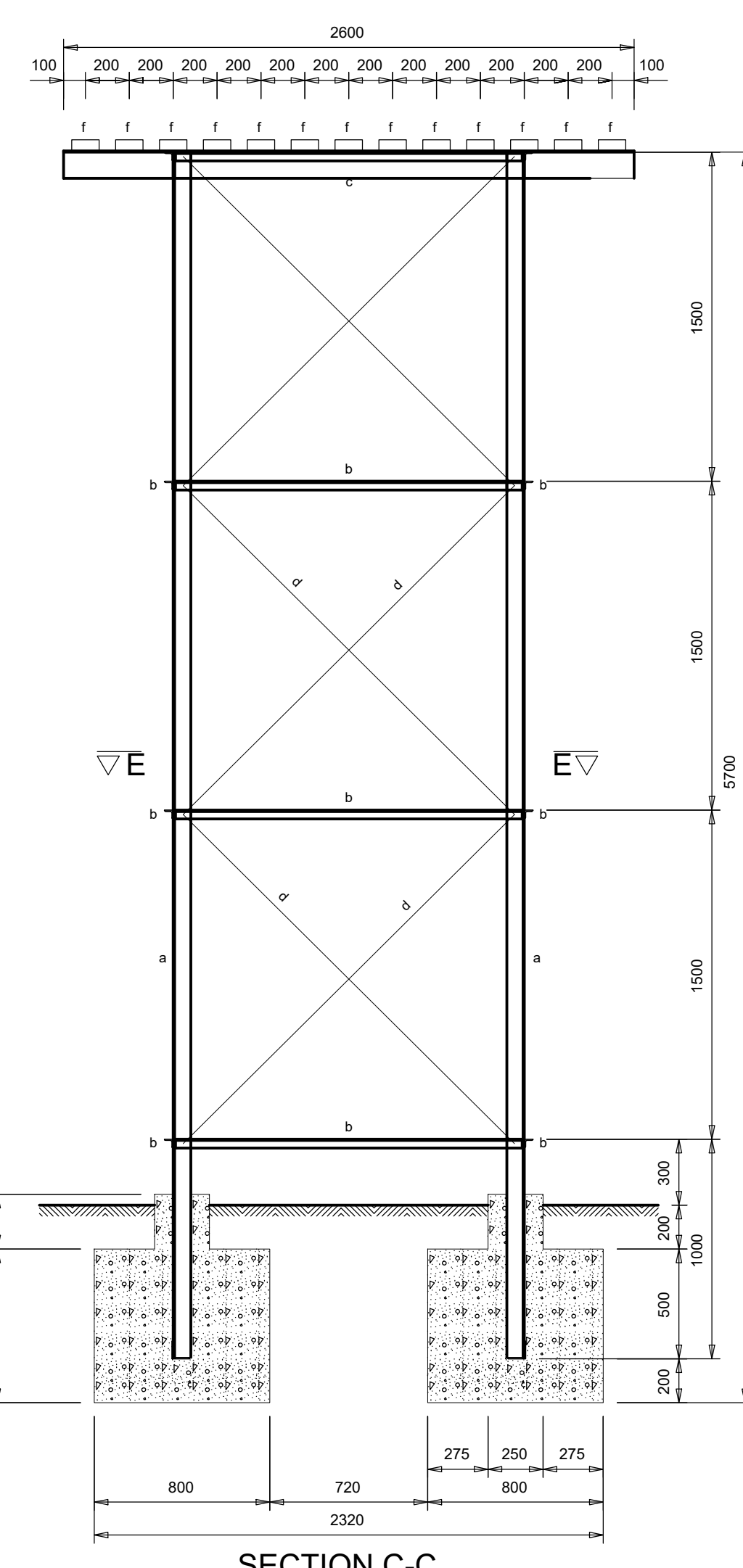
PIPE CLAMP DETAIL
(6 OFF REQUIRED)
1:5



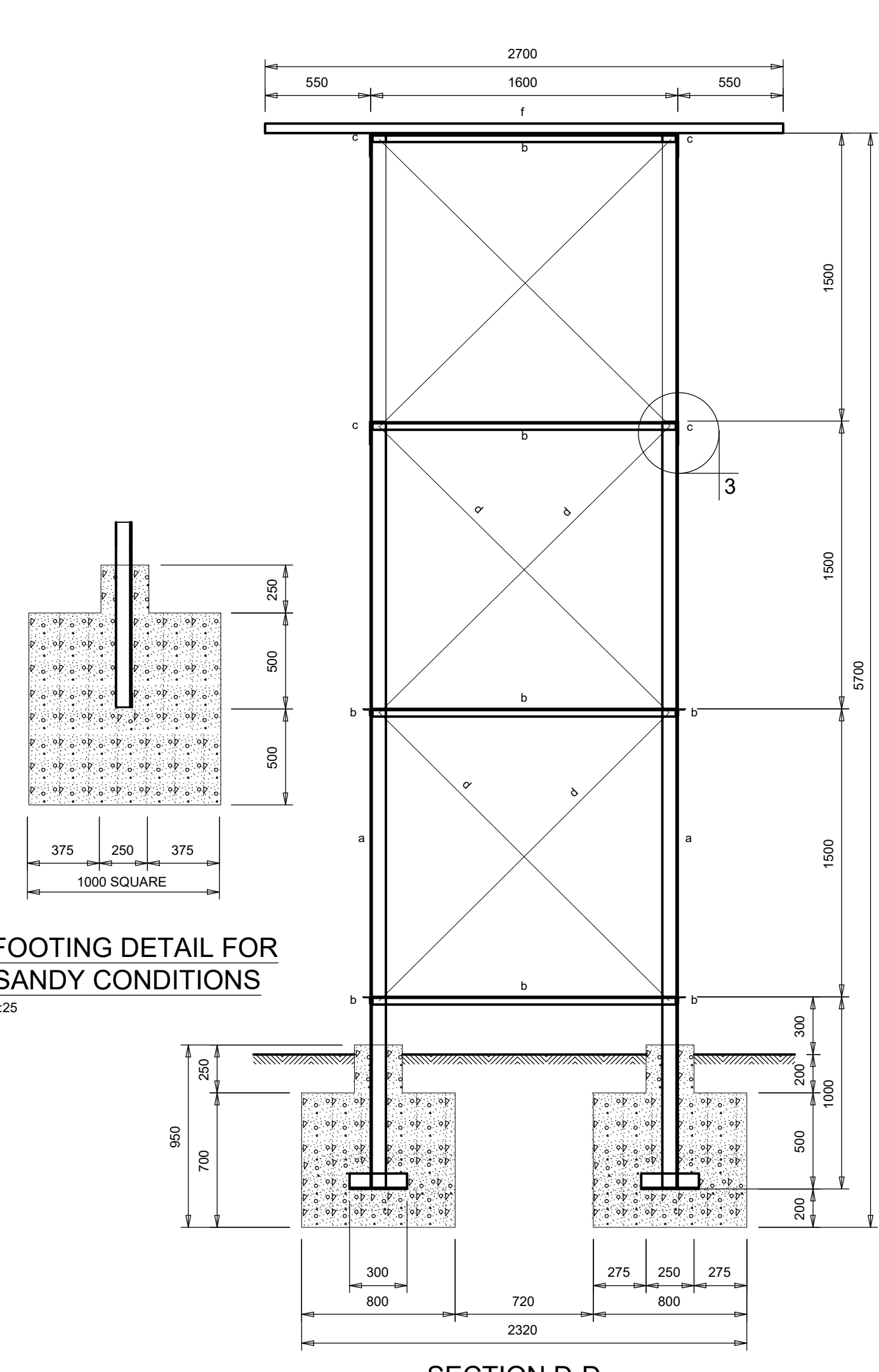
VIEW B
1:5



VIEW A
1:5



SECTION C-C
1:25



SECTION D-D
1:25

FOOTING DETAIL FOR SANDY CONDITIONS
1:25

NOTE:
1. FOUNDATIONS:
1.1 DEPTHS OF ALL BASES SHALL BE DETERMINED AND APPROVED ON SITE BY THE ENGINEER PRIOR TO CONCRETING.
1.2 SAFE BEARING CAPACITY OF GROUND 200 kPa.
2. CONCRETE:
2.1 PRESCRIBED MIX 10/19 IN BLINDING LAYERS.
2.2 PRESCRIBED MIX 20/19 IN COLUMN BASES.
3. STRUCTURAL STEELWORK:
3.1 ALL STRUCTURAL STEELWORK GRADE 300W ACCORDING TO SABS 1431.
3.2 STEELWORK GENERALLY OF WELDED CONSTRUCTION WITH SITE CONNECTIONS BOLTED.
UNLESS OTHERWISE SHOWN ARE:
ALL HOLES 12 DIA. FOR M10 BOLTS
ALL GUSSETS 6mm PLATES
ALL WELDS 6mm FILLET
3.3 ALL STEELWORK SHALL BE SUPPLIED, FABRICATED, DELIVERED AND ERECTED IN ACCORDANCE WITH SABS 2001 AND SABS-0104/1986.
3.4 SITE WELDING OF STEELWORK SHALL NOT BE PERMITTED WITHOUT THE ENGINEER'S APPROVAL.
3.5 CORROSION PROTECTION:
3.5.1 PAINTWORK IN WORKSHOP:
EPOXY COATING SHALL BE AN APPROVED TWO COMPONENT, POLYAMINE CURED PIPE COATING. IT SHALL BE APPLIED IN THE WORKSHOP BY SPRAYING TO A FINAL THICKNESS OF NOT LESS THAN 300 MICRON.
3.5.2 PAINTWORK AFTER ERECTION:
a) AFTER INSTALLATION ANY CHIPS OR SCRATCH MARKS SHALL BE MADE GOOD ON SITE WITH BRUSH APPLIED EPOXY PAINT.
b) AN INTERIM LAYER ACCORDING TO SABS 811 TYPE 1 SHALL BE APPLIED TO A FINAL THICKNESS OF 25 MICRON.
3.5.3 FINAL FINISHING LAYER:
A FINAL ENAMEL LAYER ACCORDING TO SABS 630 GRADE 1 SHALL BE APPLIED WITHIN 24 HOURS AFTER THE INTERIM LAYER HAS BEEN APPLIED. TO A FINAL THICKNESS OF 25 MICRON (COLOUR AS INSTRUCTED).

4. GENERAL:
4.1 READ THIS PLAN IN CONJUNCTION WITH ALL THE RELEVANT DRAWINGS.
4.2 ALL DIMENSIONS IN MILLIMETERS.

NOTE:
• THE RAINWATER HARVESTING TANK CAN ALSO, IF POSSIBLE, BE CONNECTED TO THE MAIN SUPPLY IN THE SCHOOL, SO THAT IT MAY BE FILLED UNDER PRESSURE.
• ALL EXPOSED PIPES TO BE GALVANISED

REV.	DESCRIPTION	DATE	APPROV.
B	ADDITIONAL NOTES	10/10/14	M.Q.
A	FOR CONSTRUCTION	04/2014	M.Q.
01	FOR TENDER	06/2013	M.Q.
1	FOR INTERNAL REVIEW	05/2013	G.T.

DWG. No.	REFERENCE DRAWING
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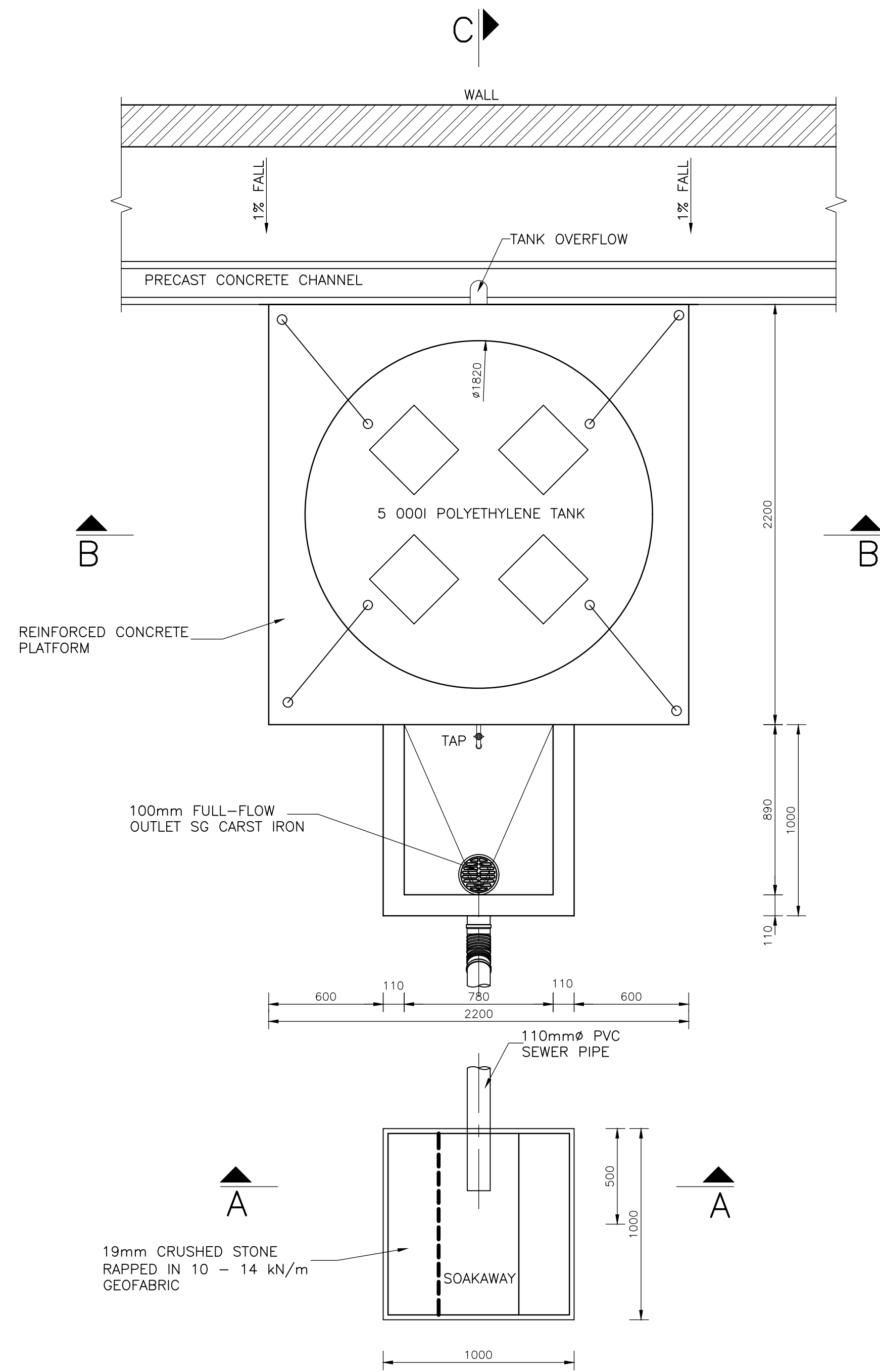


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STRUCTURAL ENGINEER		MECHANICAL ENGINEER	
ELECTRICAL ENGINEER		CO-ORDINATING ENGINEER	
APPROVED		PROJECT MANAGER	DIRECTOR

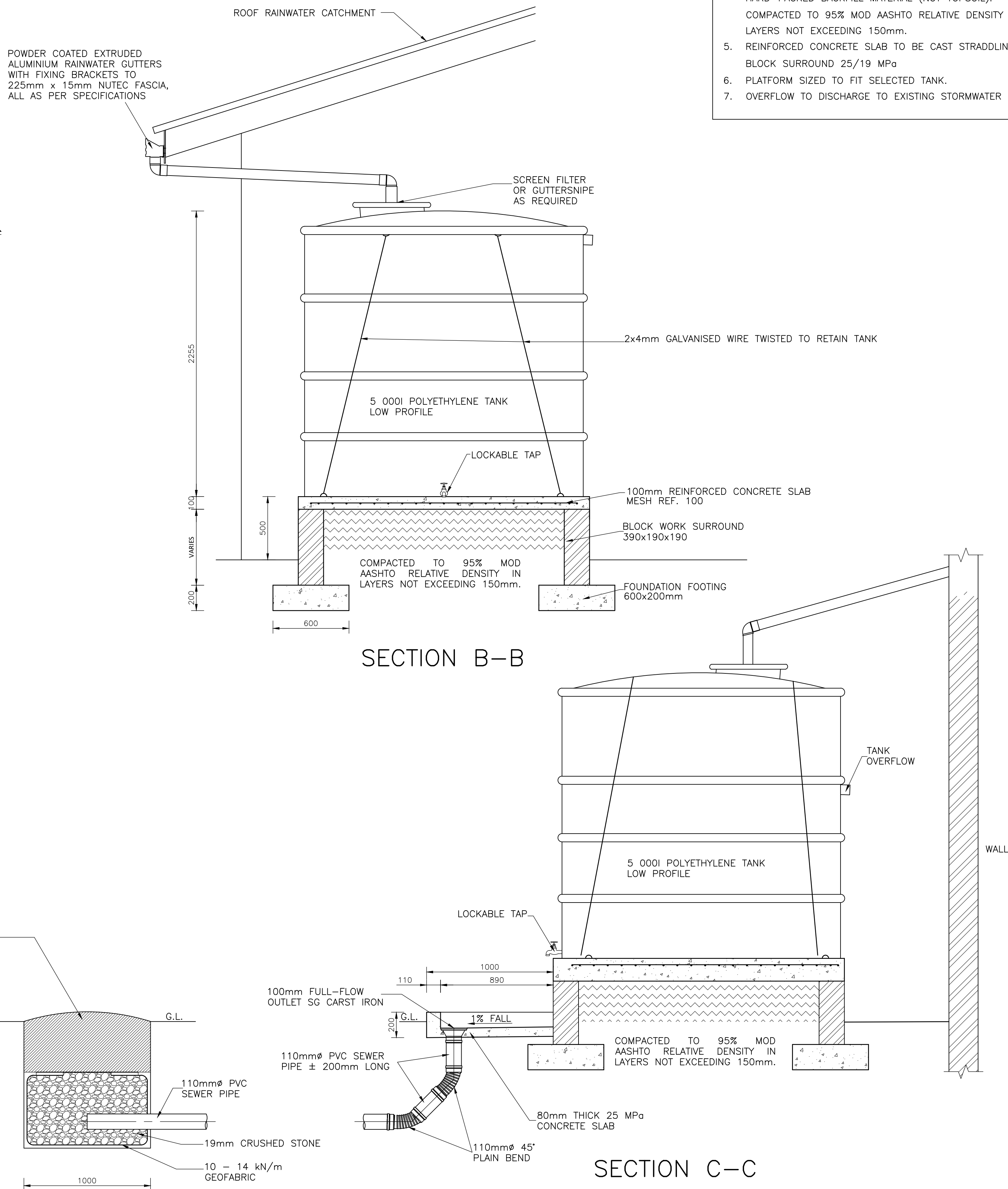
AS/DI
CONSTRUCTION OF WATER AND SANITATION INFRASTRUCTURE AT SCHOOLS IN THE EASTERN CAPE PROVINCE.
4.5m HIGH ELEVATED WATER TANK (5000 l) DETAILS AND SECTIONS

SCALE	AS SHOWN	DATE	26/06/2013
DRAWING NUMBER	6035/54/006	REVISION	A0



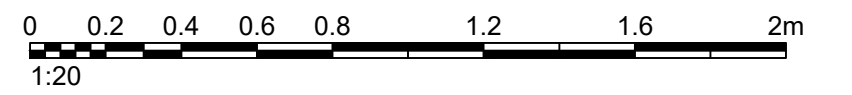
PLAN

SECTION A-A



NOTES:

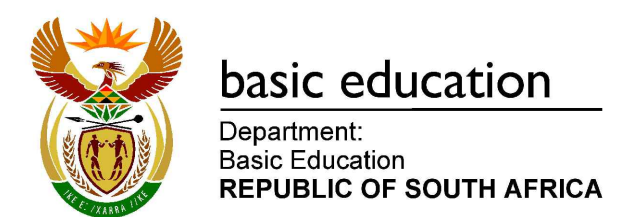
1. INVESTIGATE SOIL AND GROUND CONDITIONS AND CONSTRUCT PLATFORM TO SUIT CONDITIONS.
2. ENSURE FOOTING IS ON SOLID, UNDISTURBED GROUND.
3. REMOVE TOPSOIL AND EXCAVATE STRIP FOOTING TO A MINIMUM DEPTH OF 400mm BELOW BASE OF TOPSOIL.
4. RAISED BLOCK SURROUND TO BE INFILL WITH APPROPRIATE HARD-PACKED BACKFILL MATERIAL (NOT TOPSOIL). COMPACTED TO 95% MOD AASHTO RELATIVE DENSITY IN LAYERS NOT EXCEEDING 150mm.
5. REINFORCED CONCRETE SLAB TO BE CAST STRADDLING BLOCK SURROUND 25/19 MPa
6. PLATFORM SIZED TO FIT SELECTED TANK.
7. OVERFLOW TO DISCHARGE TO EXISTING STORMWATER SYSTEM



REV.	DESCRIPTION	DATE	APPR'D
C	SOAK-AWAY DETAILS	04/2017	M.Q
B	ADDITIONAL DETAILS	03/2017	M.Q
A	ISSUED FOR CONSTRUCTION	02/2017	M.Q
1	FOR INTERNAL REVIEW	02/2017	M.Q

DRG. No.	REFERENCE DRAWING
----------	-------------------

CLIENT



IMPLEMENTING AGENT	TECHNICAL SUPPORT
--------------------	-------------------



IDT
Palm Square Business Park
Silverwood House
Bonza Bay Road
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5241
Tel: (043) 711-6000
Fax: (043) 748-5471

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E-mail: bsei@boschstemele.co.za

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DESIGNED	M.Q	DRAWN	S.M
CHECKED		CIVIL ENGINEER	M.Q
STRUCTURAL ENGINEER	N/A	MECHANICAL ENGINEER	N/A
ELECTRICAL ENGINEER	N/A	CO-ORDINATION ENGINEER	N/A

APPROVED	PROJECT MANAGER	DIRECTOR
----------	-----------------	----------

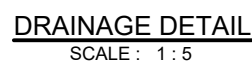
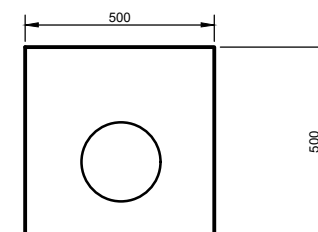
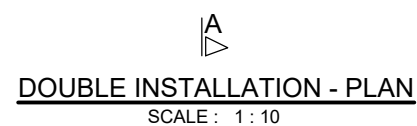
ASIDI: CONSTRUCTION OF WATER
INFRASTRUCTURE AT SCHOOLS
WATER CLUSTER 3

DRINKING WATER
RAINWATER STORAGE

SCALE	1:20	DATE	12/11/2013
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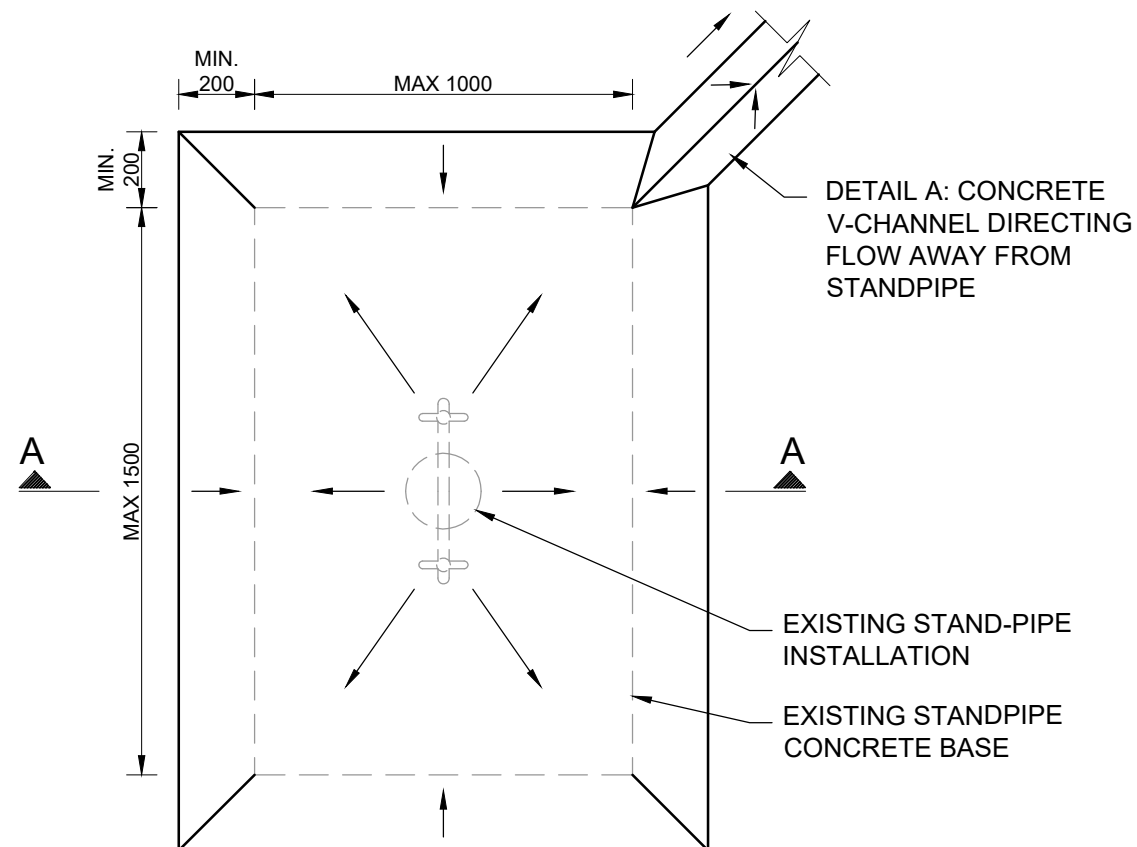
DRAWING NUMBER	6035/54/007	REVISION	A1
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C

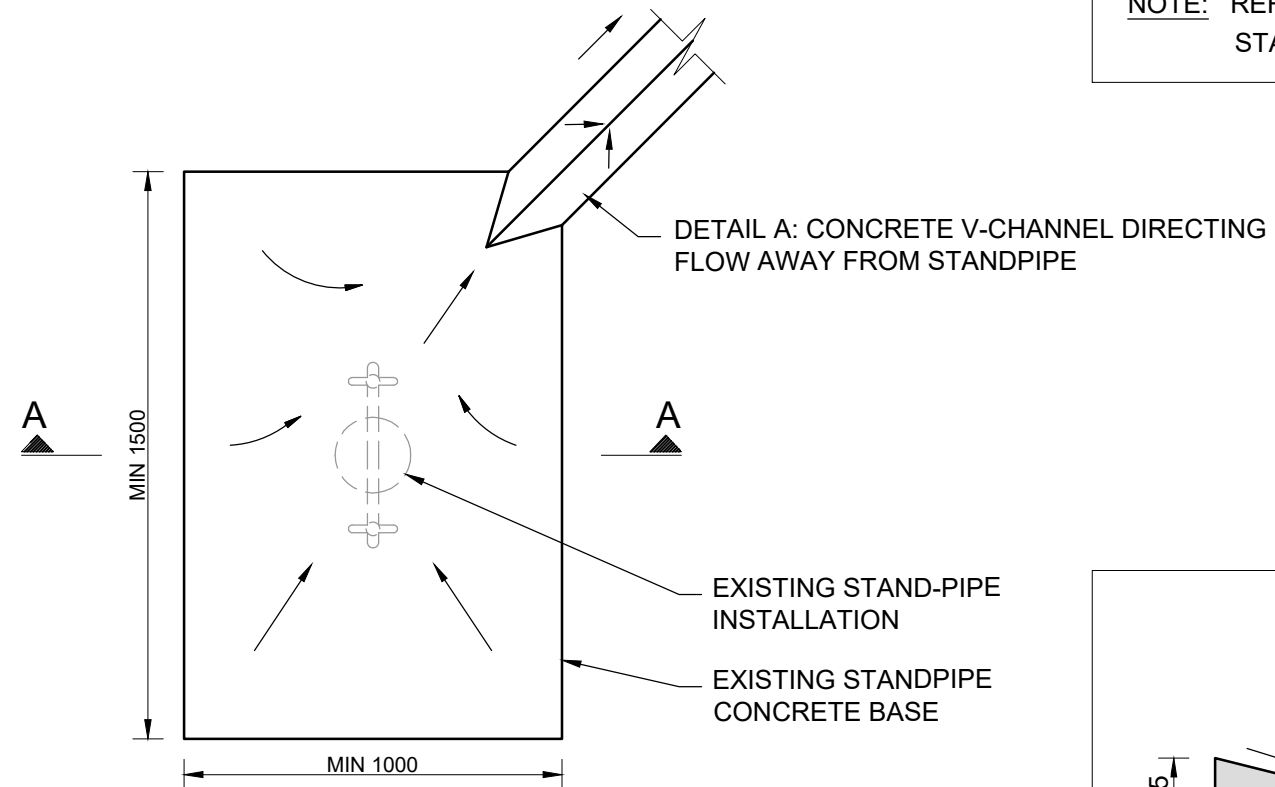


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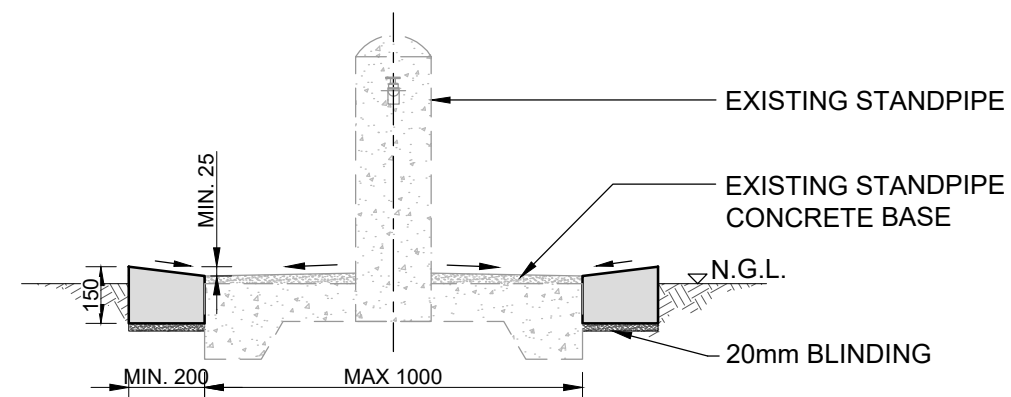
NOTE: REFER TO DWG. 6035/045/008
STANDPIPE DETAILS REV. Z



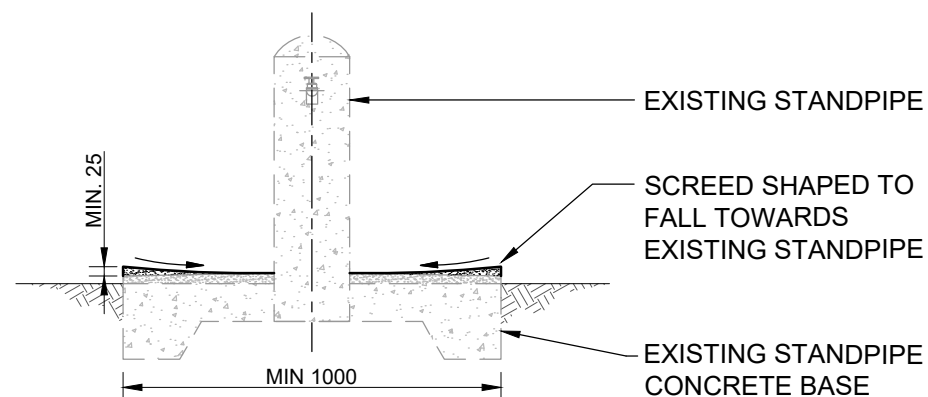
PLAN VIEW
SCALE 1:20



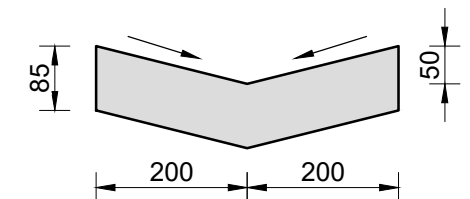
PLAN VIEW
SCALE 1:20



SECTION A-A
SCALE 1:20



SECTION A-A
SCALE 1:20



V-DRAIN SECTION
SCALE 1:20

DETAIL A

OPTION 1

OPTION 2

REV.	BY	DESCRIPTION	DATE
A	-	ISSUED FOR CONSTRUCTION	02/2022
1	-	FOR INTERNAL REVIEW	02/2022

DESIGNED	A.R.	DRAWN	J.C.
CHECKED		PROJECT MANAGER	A.R.
CIVIL ENGINEER	A.R.	STRUCTURAL ENGINEER	N/A
MECHANICAL ENGINEER	N/A	ELECTRICAL ENGINEER	N/A

APPROVED	
PROJECT MANAGER	
REGIONAL DIRECTOR	

SCALE	AS SHOWN
DATE	08/02/2022

ASIDI CONSTRUCTION OF WATER
INFRASTRUCTURE AT SCHOOLS
CLUSTER 3

STANDPIPE DRAINAGE DETAILS

DRAWING NUMBER

6035/54/008-A

A3

REVISION



BOSCH
PROJECTS

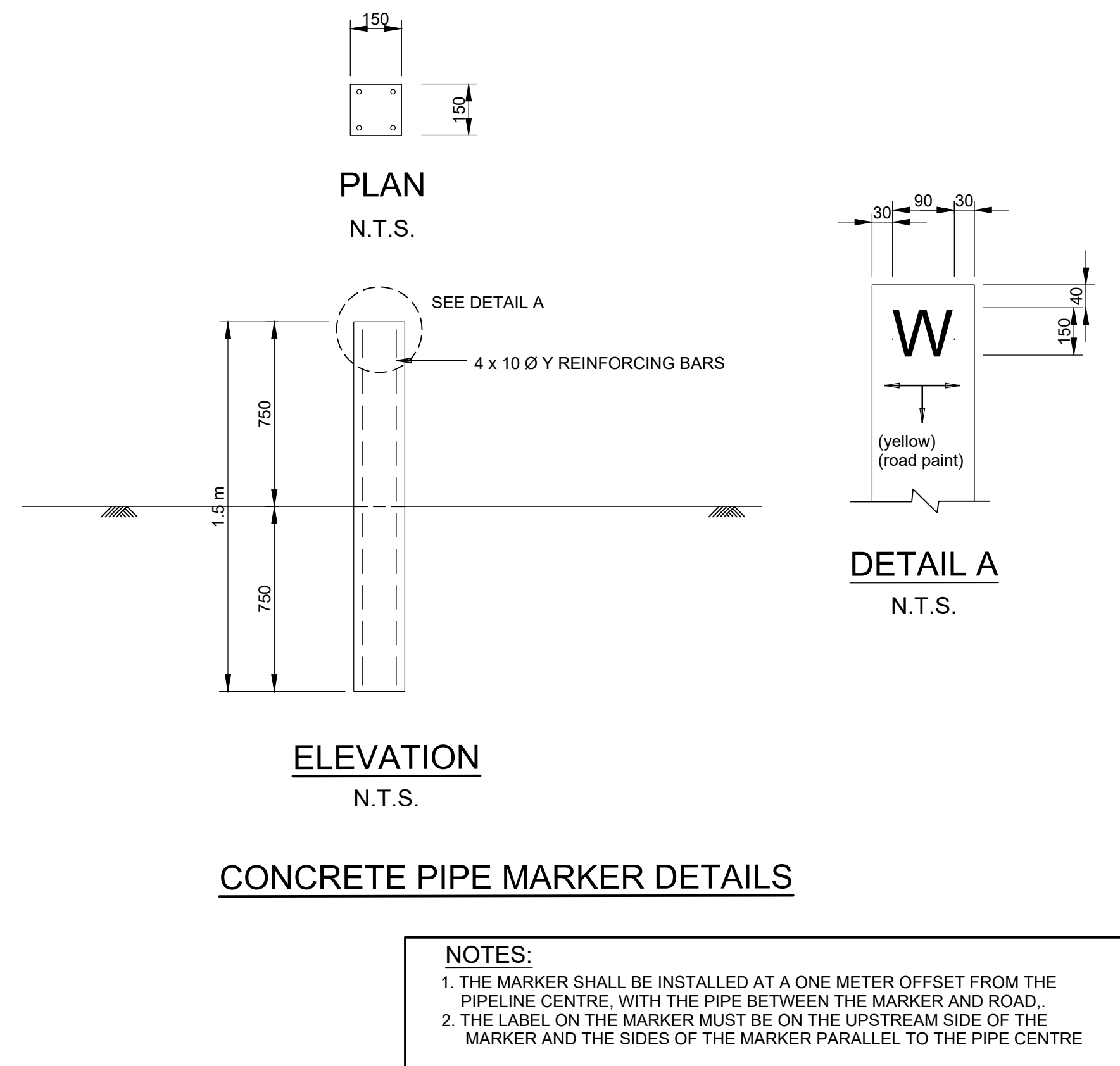
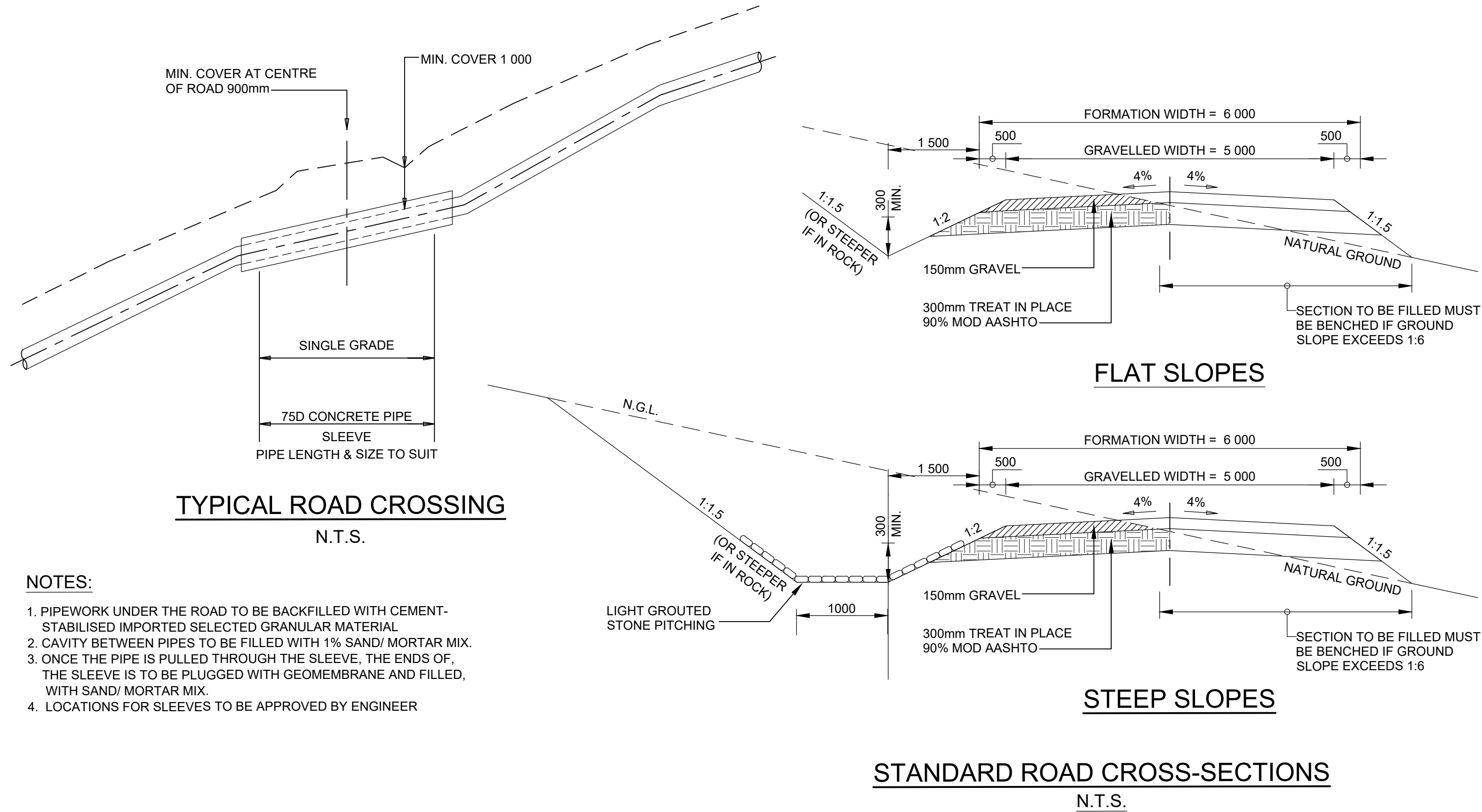
GLOBAL ENGINEERING SOLUTIONS

P.O. BOX 13530, VINCENT
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FAX: +27 (0)43 721 1719
e-mail: mail@boschprojects.co.za
website: www.boschprojects.co.za



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NOTES:

1 EXCAVATION AND BACKFILL.

ALL ENVIRONMENTAL SPECIFICATIONS ARE TO BE ADHERED TO IN RESPECT OF TOPSOIL CONSERVATION, TRENCHING, EROSION CONTROL AND VEGETATION ETC.

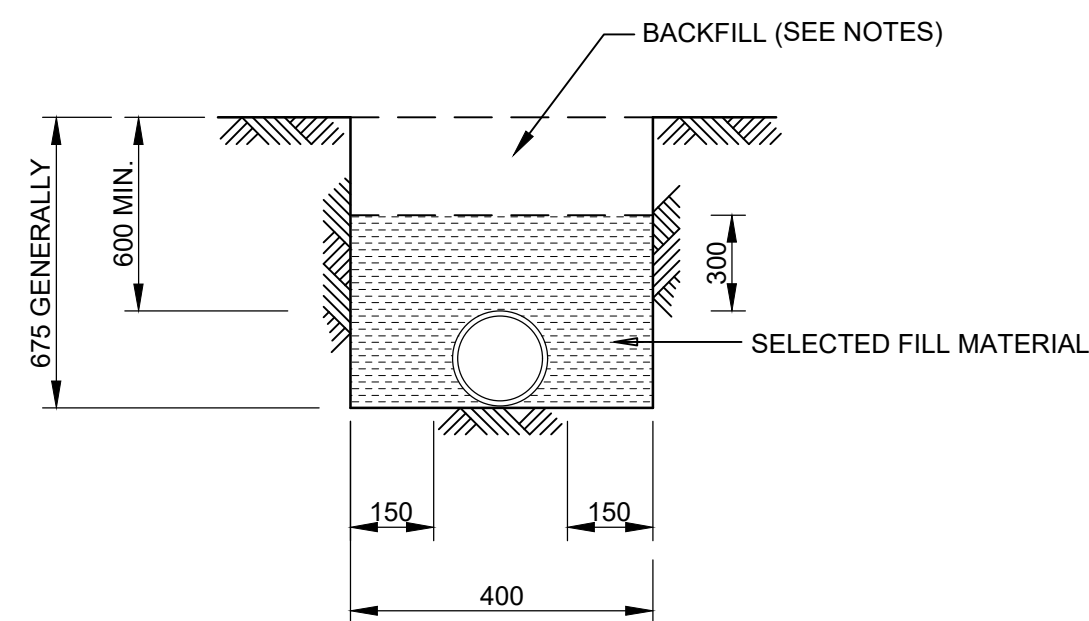
2 TRENCH NOTES.

MATERIALS

1.1 SELECTED GRANULAR MATERIAL. Selected granular material shall be material of a granular, non-cohesive nature that is singularly graded between 0.6mm and 19mm, is free-draining, and has a compatibility factor (as determined by the test given in Section LB of Part 3 of SABS 0120) not exceeding 0.4 or such other value as is laid down in the project specification.

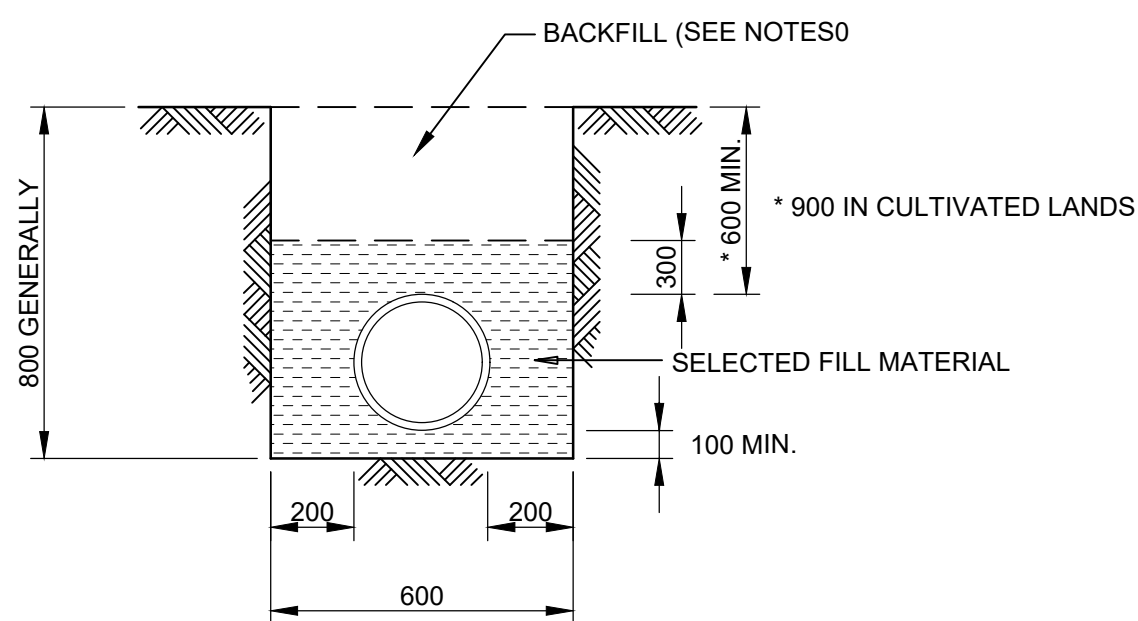
1.2 SELECTED FILL MATERIAL. Selected fill material shall be material that has a PI not exceeding 6 and that is free from vegetation and from lumps and stones of diameter exceeding 30mm.

1.3 BEDDING. Bedding for rigid pipes shall be of Class B and bedding for flexible pipes shall be select granular material and select fill material. Bedding cradles for Class B bedding shall be of selected granular material. The material for the selected fill blanket shall in all cases comply with the requirements of 1.2



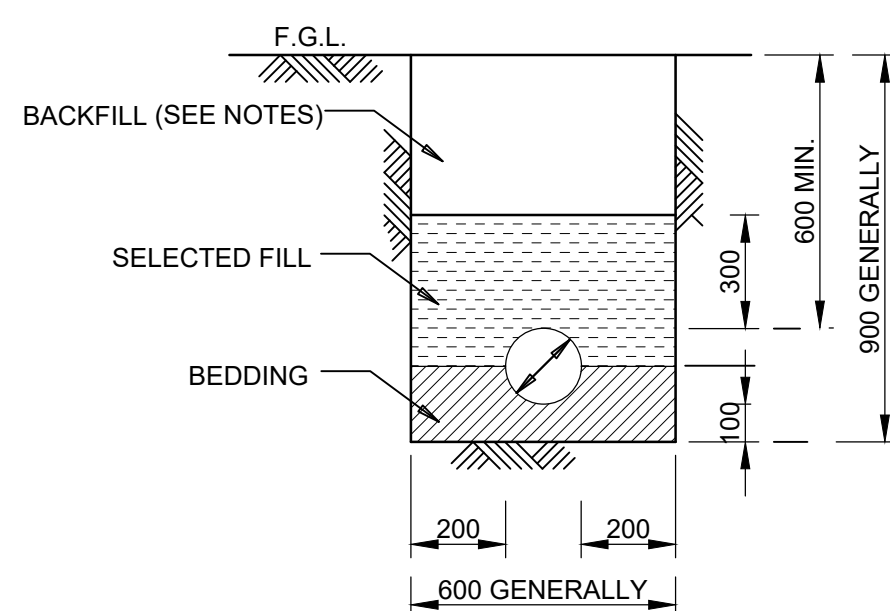
BEDDING DETAILS FOR HDPE PIPES

N.T.S.



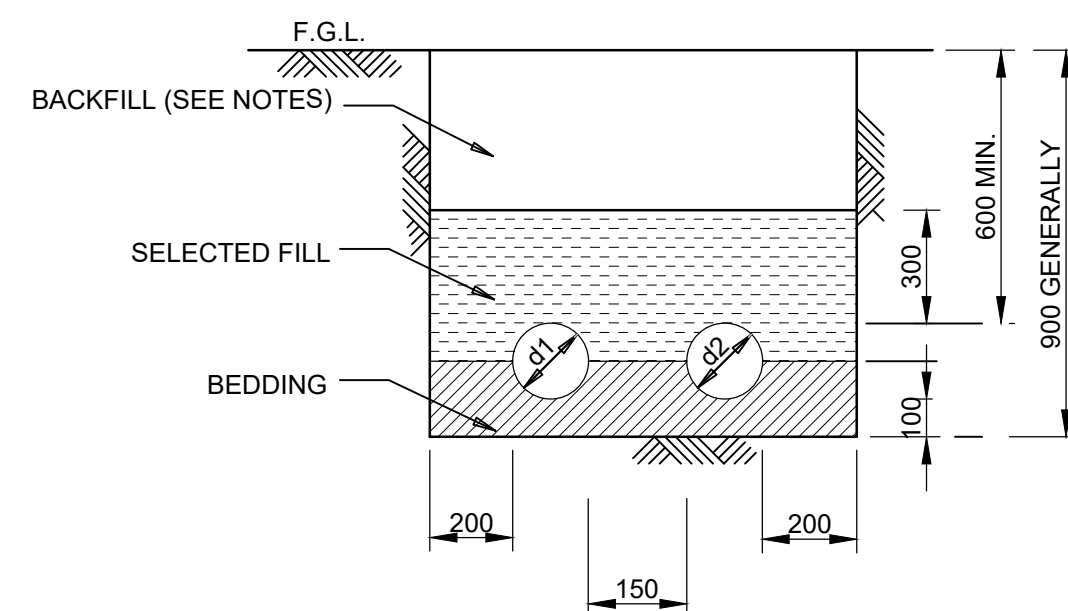
BEDDING DETAILS FOR RETICULATION PVC PIPES

N.T.S.



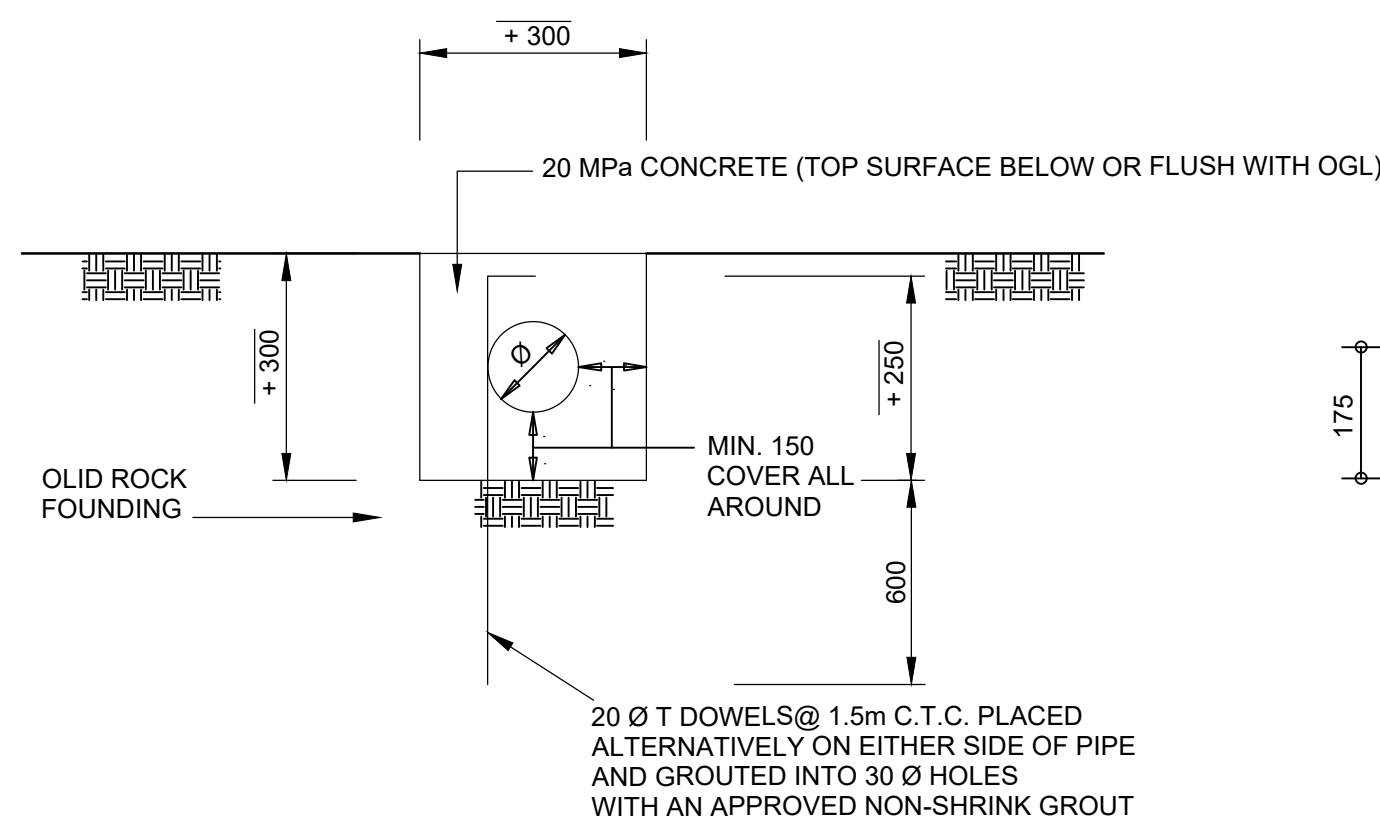
BULK MAINS BEDDING DETAIL (mPVC PIPES)

N.T.S.



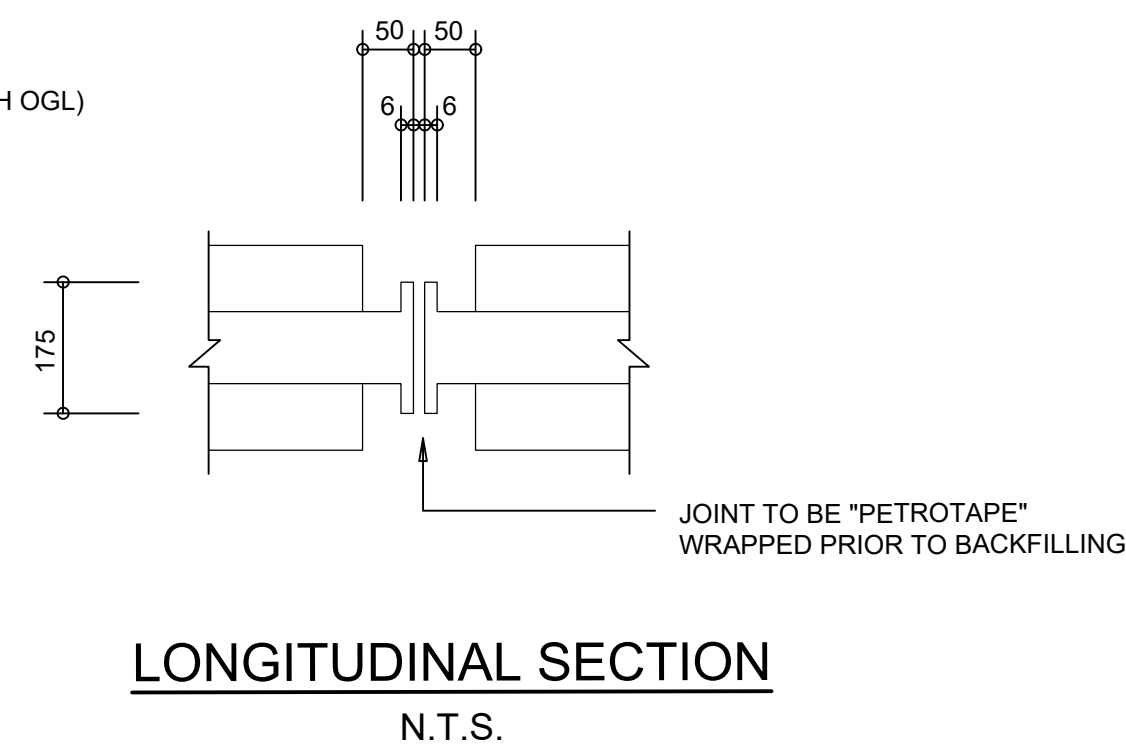
BEDDING DETAILS FOR TWO OR MORE PIPES IN ONE TRENCH

N.T.S.

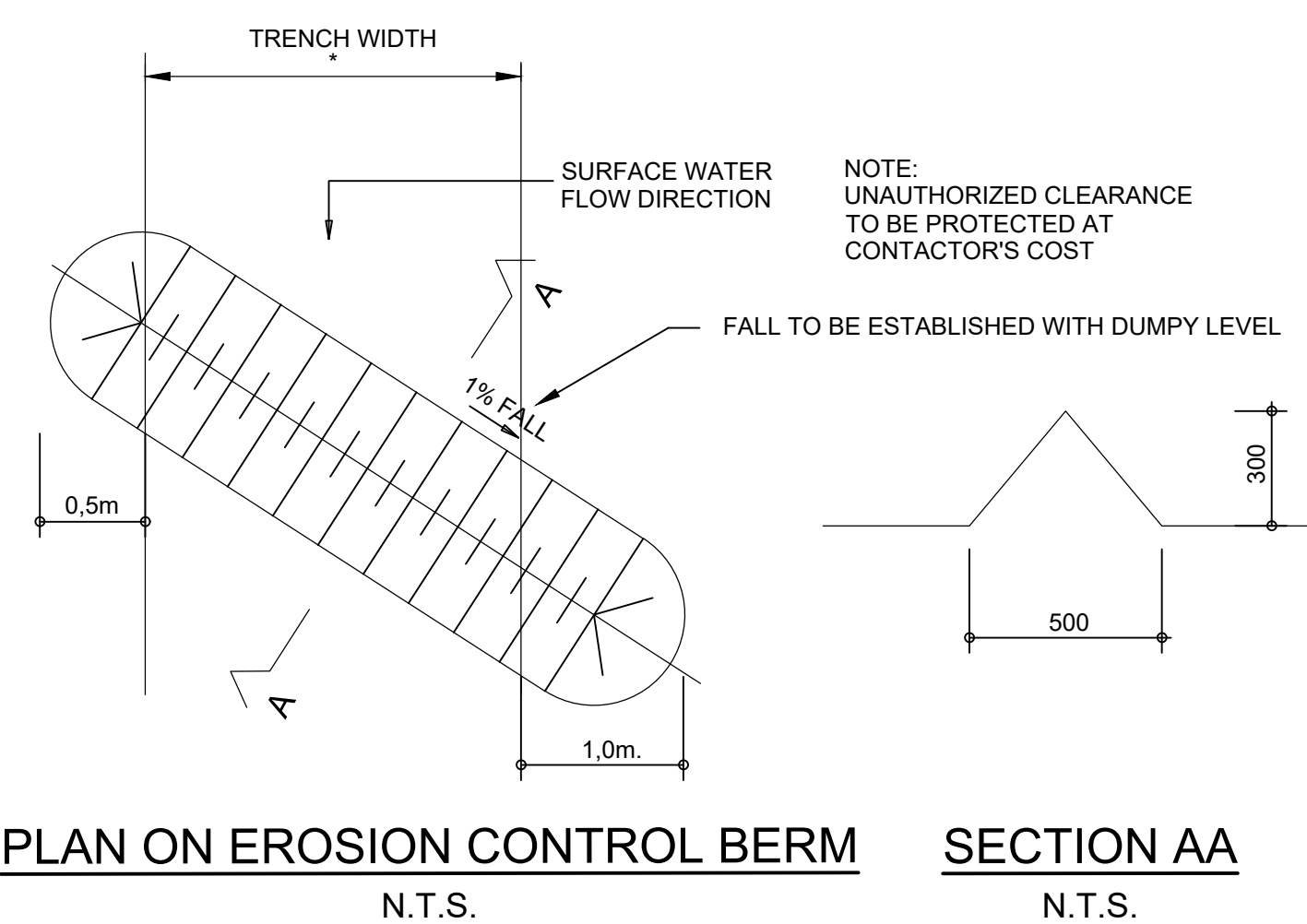
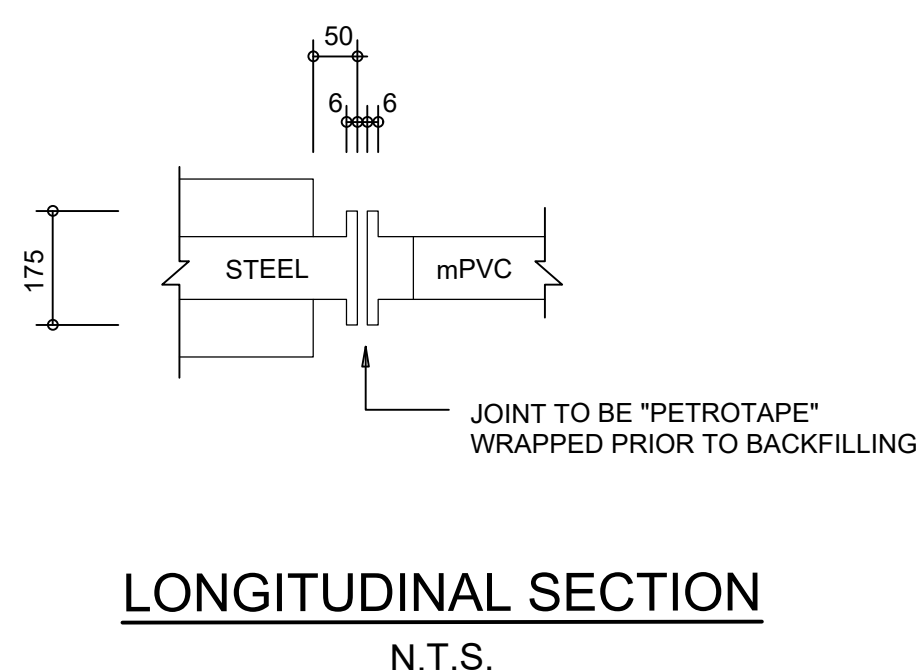


CROSS SECTION

N.T.S.



TYPICAL CONCRETE ENCASEMENT OF GALVANISED PIPES FOR RIVER CROSSINGS



50mm ON ORIGINAL SCALE

ISSUED FOR TENDER

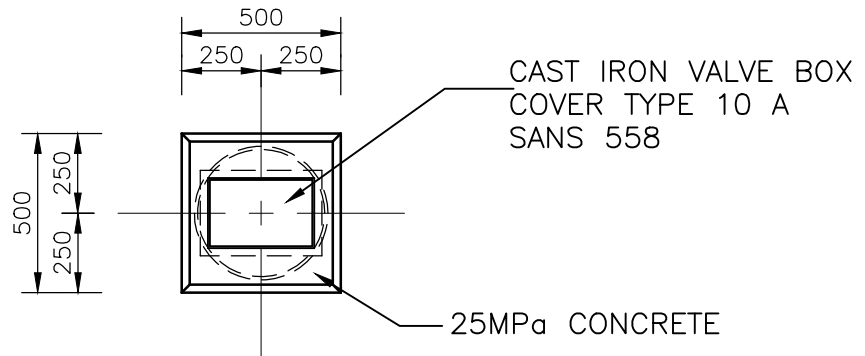
REV.	DESCRIPTION	DATE	APPR'D
A	FOR CONSTRUCTION	04/2014	M.Q.
01	FOR TENDER REVIEW	06/2013	M.Q.
1	FOR INTERNAL REVIEW	06/2013	M.Q.

DRG. No. REFERENCE DRAWING

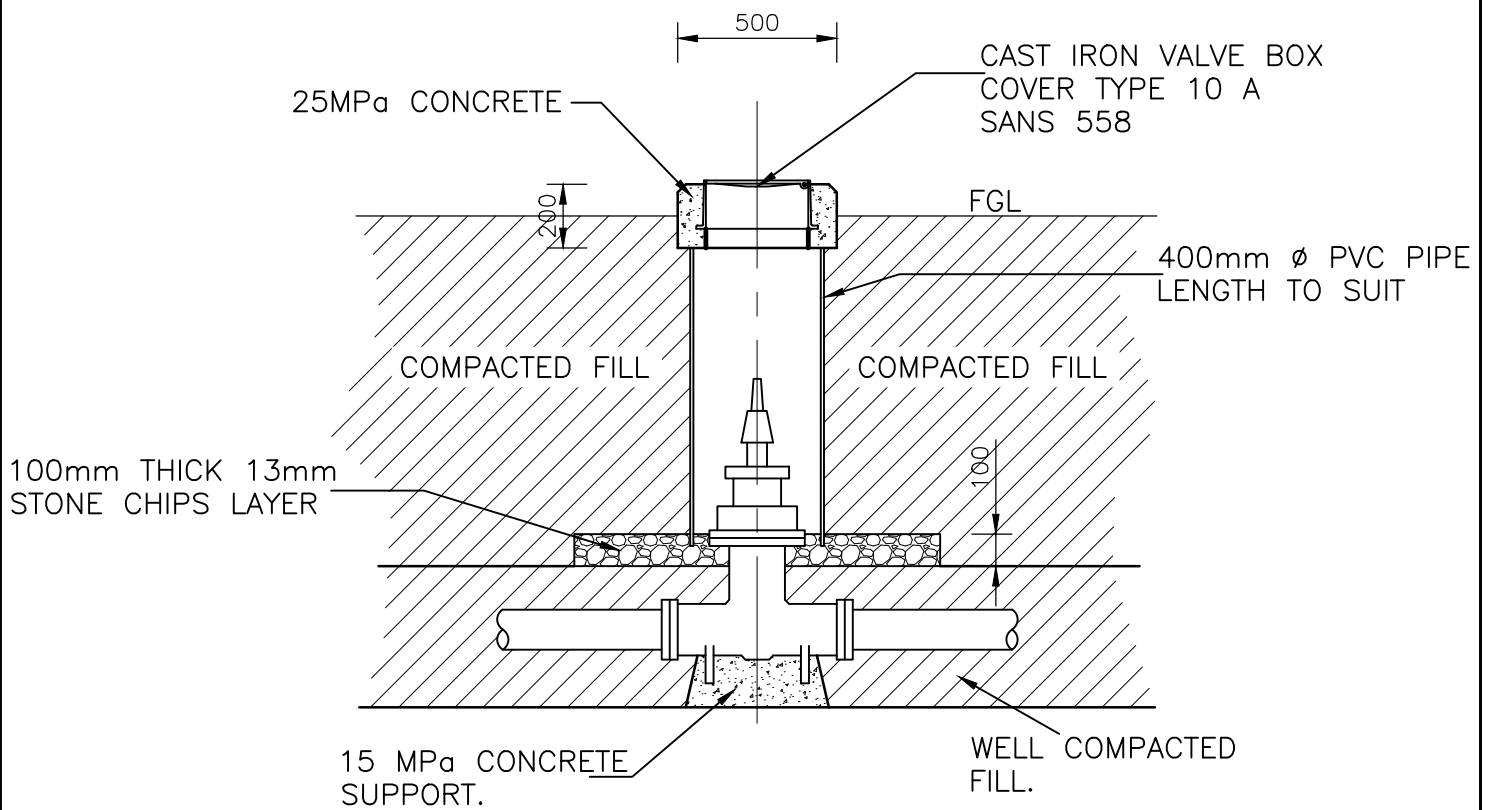
CLIENT	
 basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA	
IMPLEMENTING AGENT	TECHNICAL SUPPORT
 idt Independent Development Trust	 BOSCH PROJECTS
IDT Palm Square Business Park Silverwood House Bonza Bay Road Beacon Bay 5241 Tel: (043) 711-6000 Fax: (043) 748-5471	BOSCH STEMELE (PTY) LTD. P.O. BOX 13530, Vincent, East London, 5217 28 Blakeway Drive, Mthatha, 5099, RSA Tel: (047) 532 6694 Fax: (047) 531 4974 E-mail: bsei@boschstemele.co.za

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DESIGNED	M.Q.	DRAWN	B.D.
CHECKED		CIVIL ENGINEER	M.Q.
STRUCTURAL ENGINEER	E.T	MECHANICAL ENGINEER	N/A
ELECTRICAL ENGINEER	N/A	CO-ORDINATION ENGINEER	N/A
APPROVED		PROJECT MANAGER	DIRECTOR

ASIDI: CONSTRUCTION OF WATER INFRASTRUCTURE AT SCHOOLS CLUSTER 3: CONTRACT 3A	
ROAD CROSSING, PIPE BEDDING AND CONCRETE ENCASEMENT DETAILS	
SCALE	N.T.S.
DRAWING NUMBER	6035/54/010
DATE	26/06/2013
REVISION	A1



PLAN ON COVER SLAB



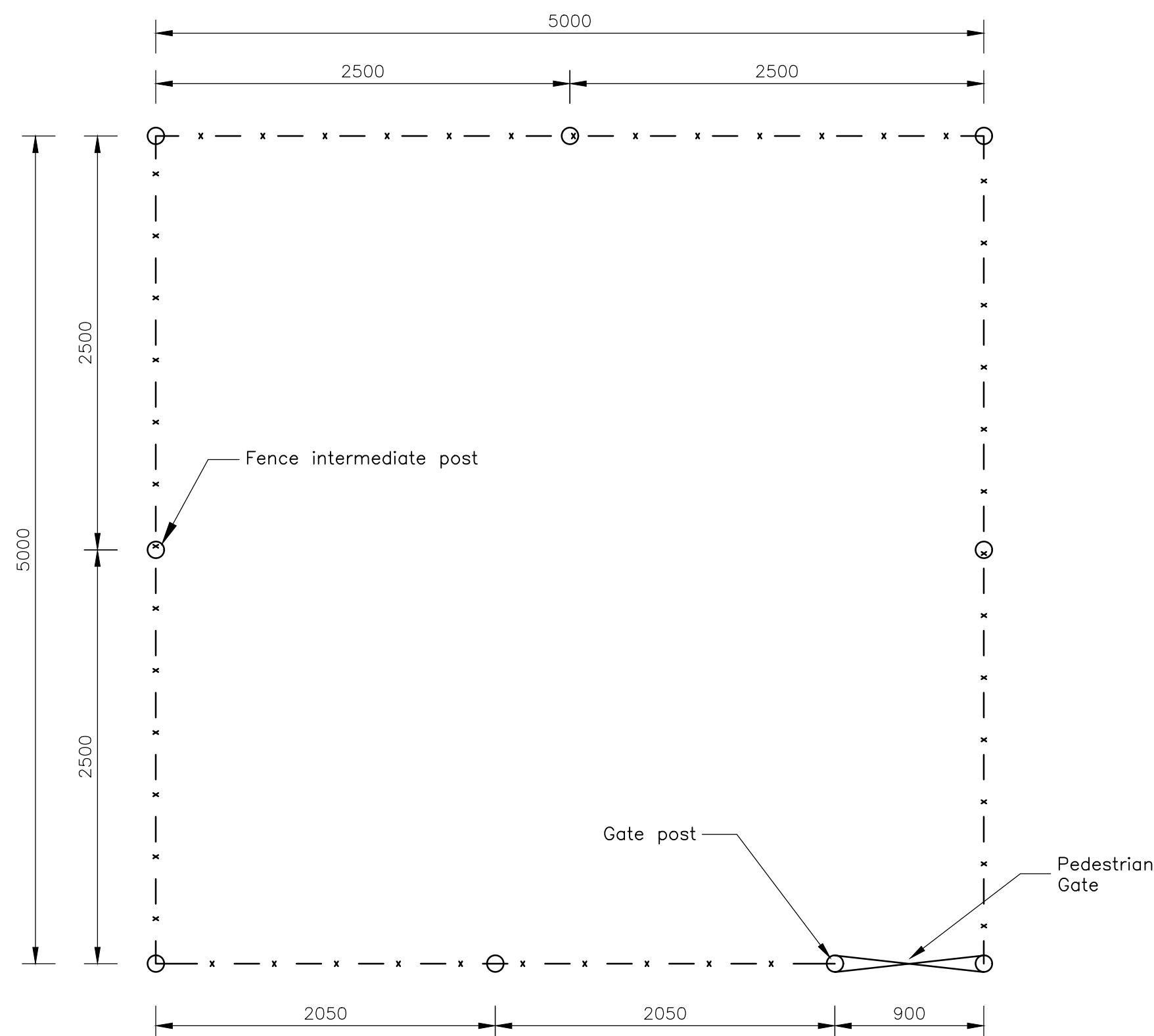
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WATER CLUSTER 3

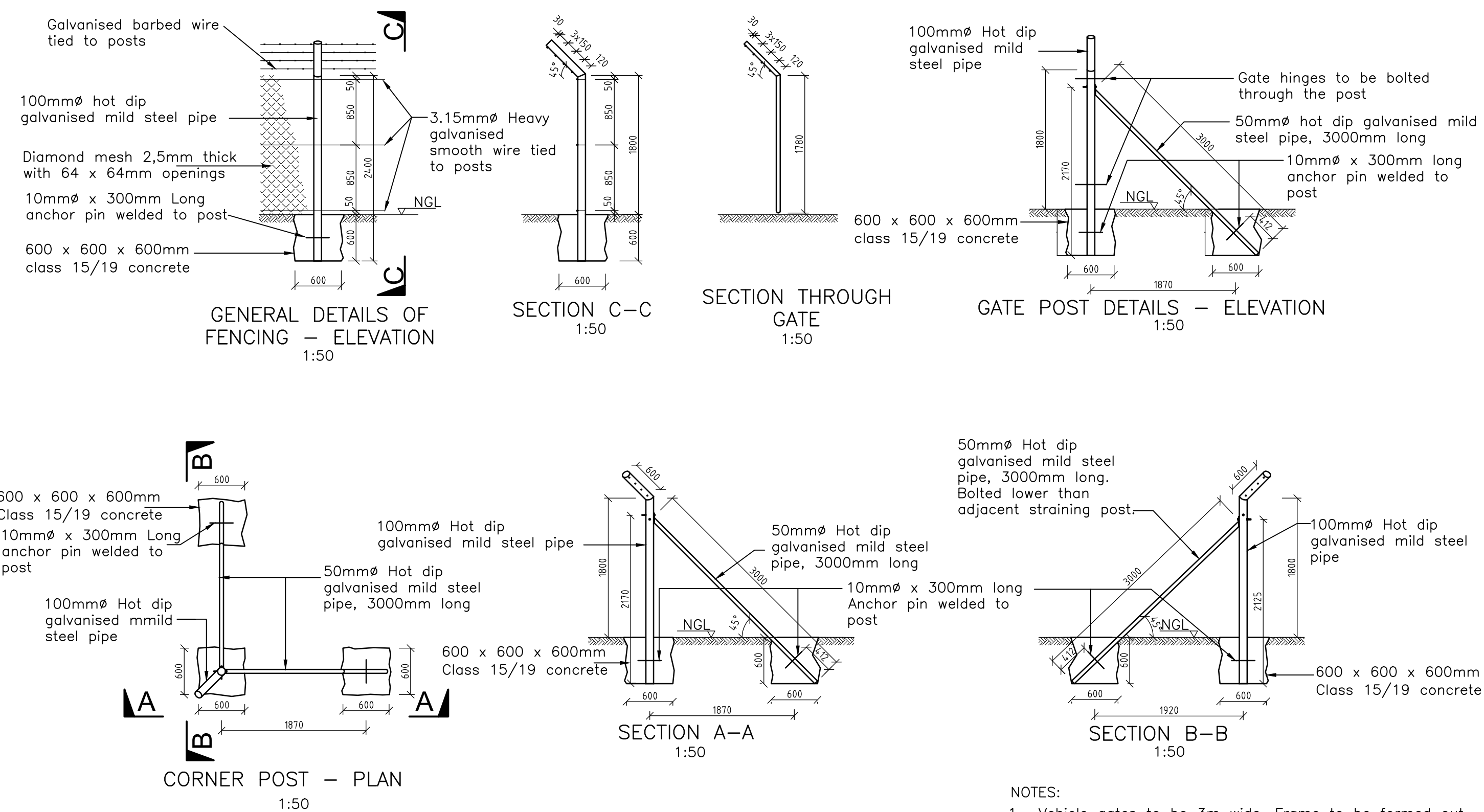
ISOLATION VALVE
DETAILS



DESIGNED G.T	APPROVED	
DRAWN B.D		
CHECKED	DRAWING No.	REV
SCALE 1:25	6035/54/013	A
DATE 20/04/2014		



FENCING LAYOUT DETAIL
SCALE: NTS



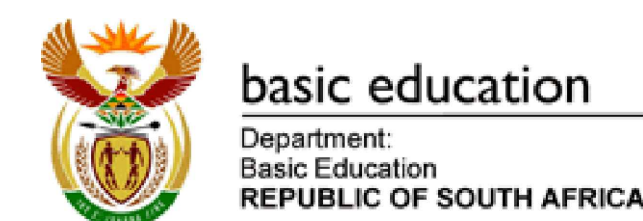
FENCING DETAILS

- NOTES:
- Vehicle gates to be 3m wide. Frame to be formed out of hot dip galvanised pipes. Gate to be covered with diamond mesh.
 - Pedestrian gates to be 900mm wide. Frame to be formed out of hot dip galvanised pipes. Gate to be covered with diamond mesh.
 - All gates to be equipped with a locking bolt mechanism.
 - All posts are to be sealed by welding a steel cap over the opening at the top.

REV.	DESCRIPTION	DATE	APPR'D
A	FOR CONSTRUCTION	04/2014	M.Q
0	FOR TENDER REVIEW	07/2013	M.Q
01	FOR INTERNAL REVIEW	06/2013	G.T

DRG. No.	REFERENCE DRAWING
----------	-------------------

CLIENT



IMPLEMENTING AGENT



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Fax: (043) 748-5471

TECHNICAL SUPPORT



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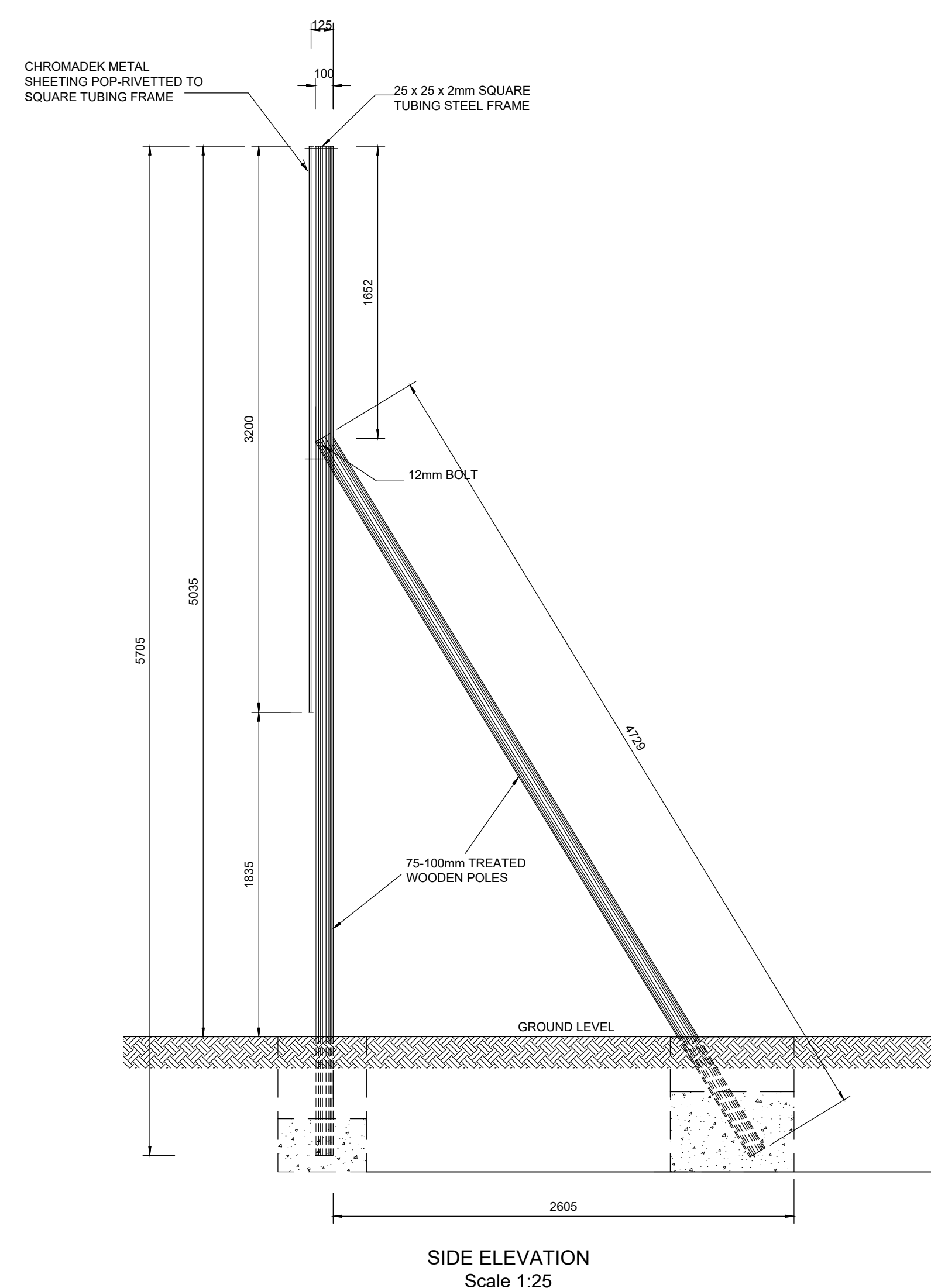
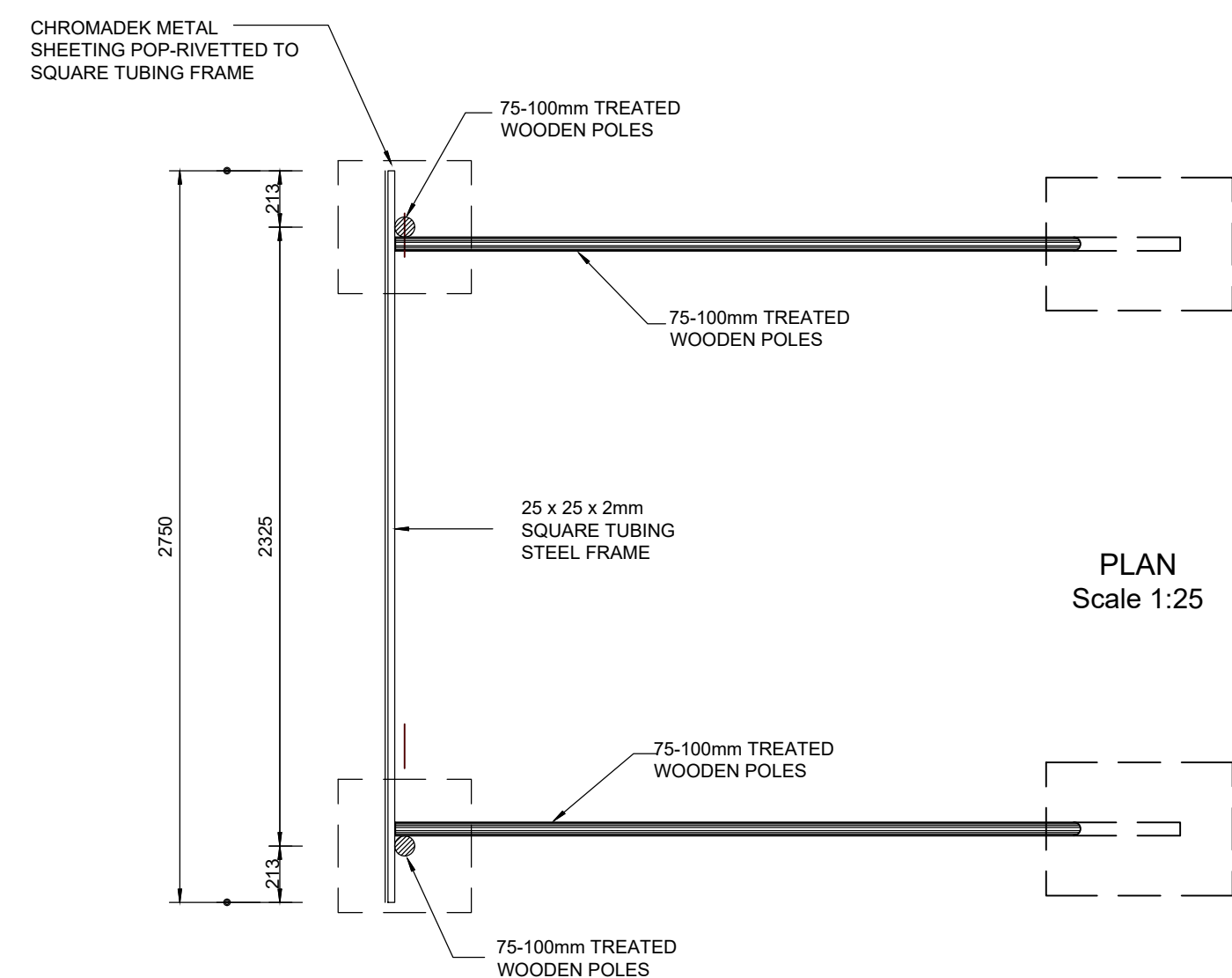
DESIGNED	M.Q	DRAWN	B.D
CHECKED		CIVIL ENGINEER	
STRUCTURAL ENGINEER		MECHANICAL ENGINEER	
ELECTRICAL ENGINEER		CO-ORDINATION ENGINEER	

APPROVED	PROJECT MANAGER	DIRECTOR
----------	-----------------	----------

ASIDI WATER AND SANITATION
PROGRAMME
CONSTRUCTION OF WATER
INFRASTRUCTURE AT SCHOOLS
CLUSTER 3: CONTRACT 3A-3G
BOREHOLE
FENCING DETAILS

SCALE	AS SHOWN	DATE	26/06/2013
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DRAWING NUMBER	6035/54/014	REVISION	A1
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A	FOR CONSTRUCTION	05/2016	M.O.
1	FOR INTERNAL REVIEW	01/2014	M.O.
REV.	DESCRIPTION	DATE	APPR'D
DRG. No.	REFERENCE DRAWING		

	
basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA	
IMPLEMENTING AGENT	TECHNICAL SUPPORT
 IDT Palm Square Business Park Bonza Bay Road Beacon Bay 5241 Tel: (043) 711-6000 Fax: (043) 748-5471	 BOSCH PROJECTS (PTY) LTD. P.O. BOX 13530, Vincent, East London, 5217 57 Western Avenue, Vincent, East London, 5247, RSA Tel: (043) 721 1717 Fax: (043) 721 1719 E-mail: mail@boschprojects.co.za

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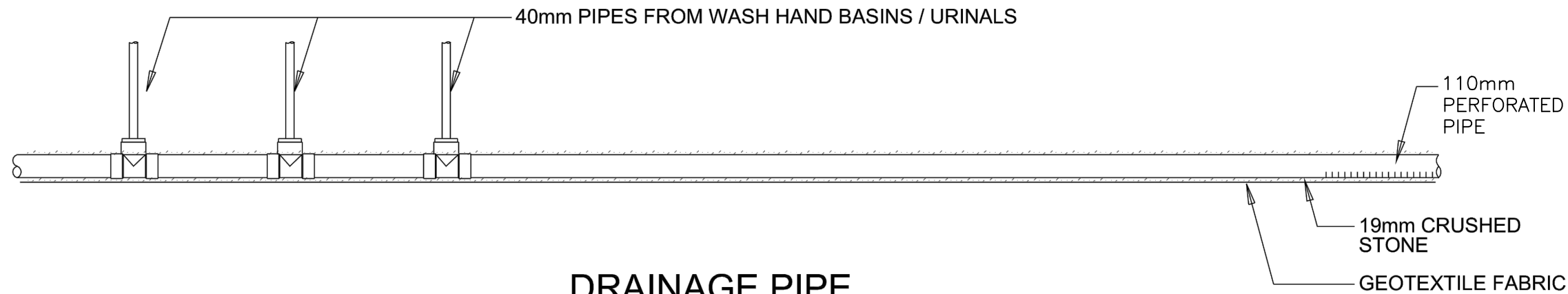
DESIGNED	M.Q.	DRAWN	B.D.
CHECKED		CIVIL ENGINEER	
STRUCTURAL ENGINEER		MECHANICAL ENGINEER	
ELECTRICAL ENGINEER		CO-ORDINATION ENGINEER	

APPROVED _____
PROJECT MANAGER DIRECTOR

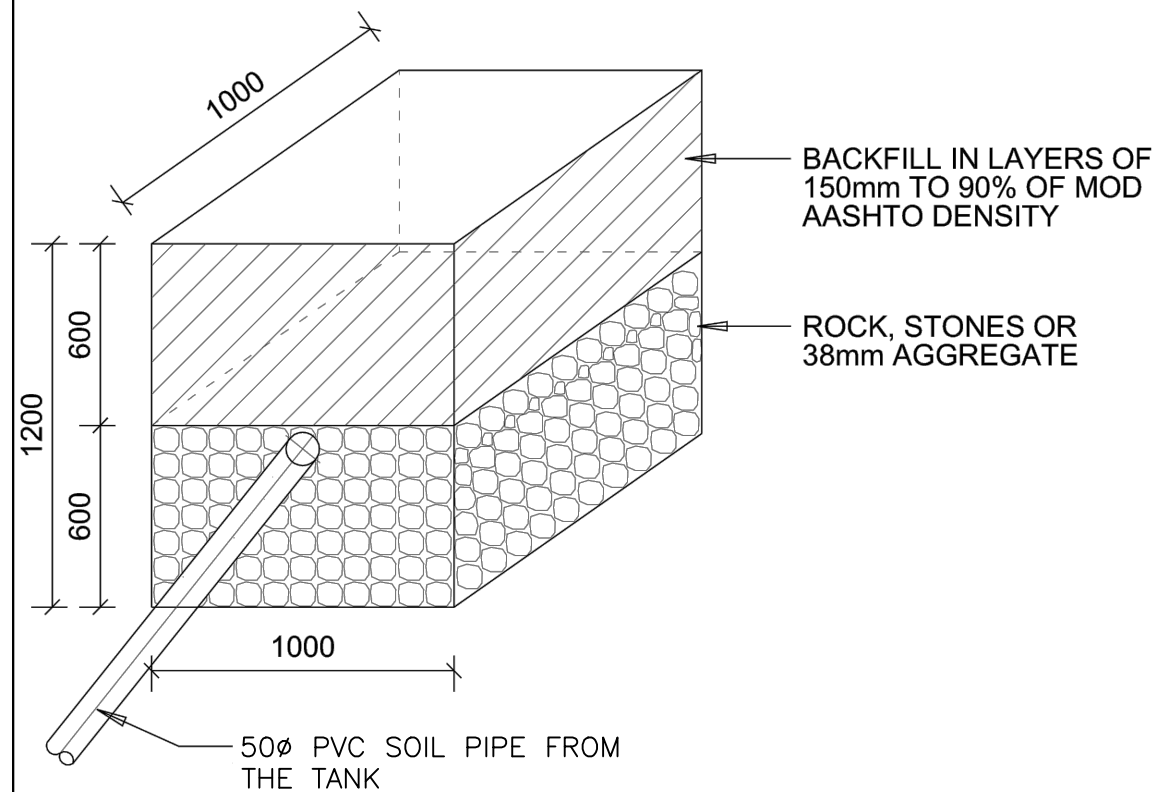
ASIDI: CONSTRUCTION OF WATER
INFRASTRUCTURE AT SCHOOLS
IN THE EASTERN CAPE
CLUSTER 3: CONTRACT 3E

PROJECT NAME BOARD

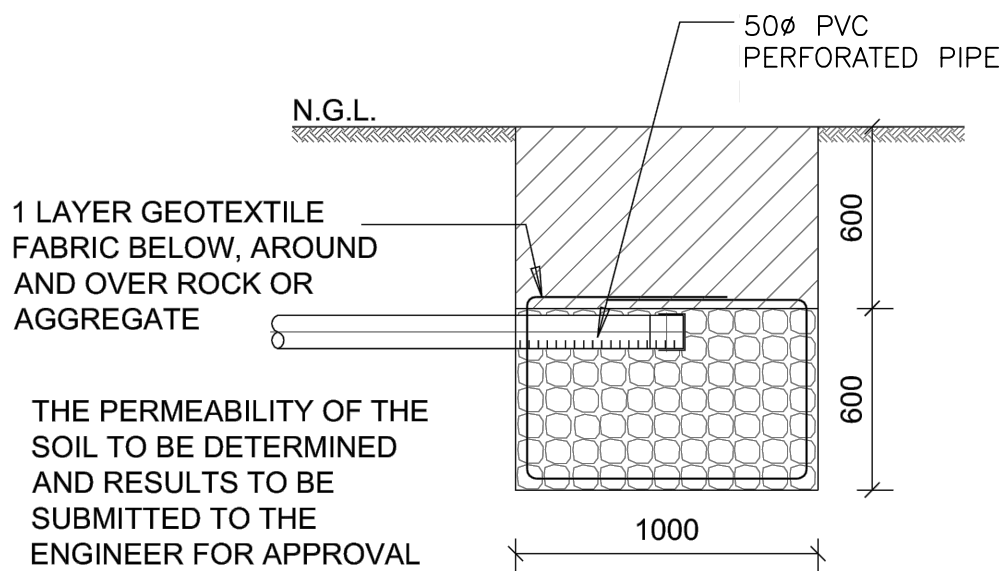
SCALE AS SHOWN	DATE 26/01/2013	
DRAWING NUMBER 6035/54/016	A1	REVISION A



DRAINAGE PIPE
SCALE 1:25



ISOMETRIC VIEW
SCALE 1:25



SECTION
SCALE 1:25

APPROVED

PROJECT MANAGER DIRECTOR

Revisions	No.	Date	Description	By	Chk	App
Z	09/16	CONSTRUCTION	MQ	MQ	MQ	
A	06/14	CONSTRUCTION	SM	GT	AN	

Designed	Drawn	Checked	Approved	Date	Scale
GT	SM			11/13	SHOWN

Client



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Implementing Agent



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Silverwood House
Bonza Bay Road
Beacon Bay, 5241
Tel: (043) 711-6000
Fax: (043) 748-5471

Project

ASIDI WATER & SANITATION PROGRAMME

Drawing Title

SOAK AWAY DETAILS

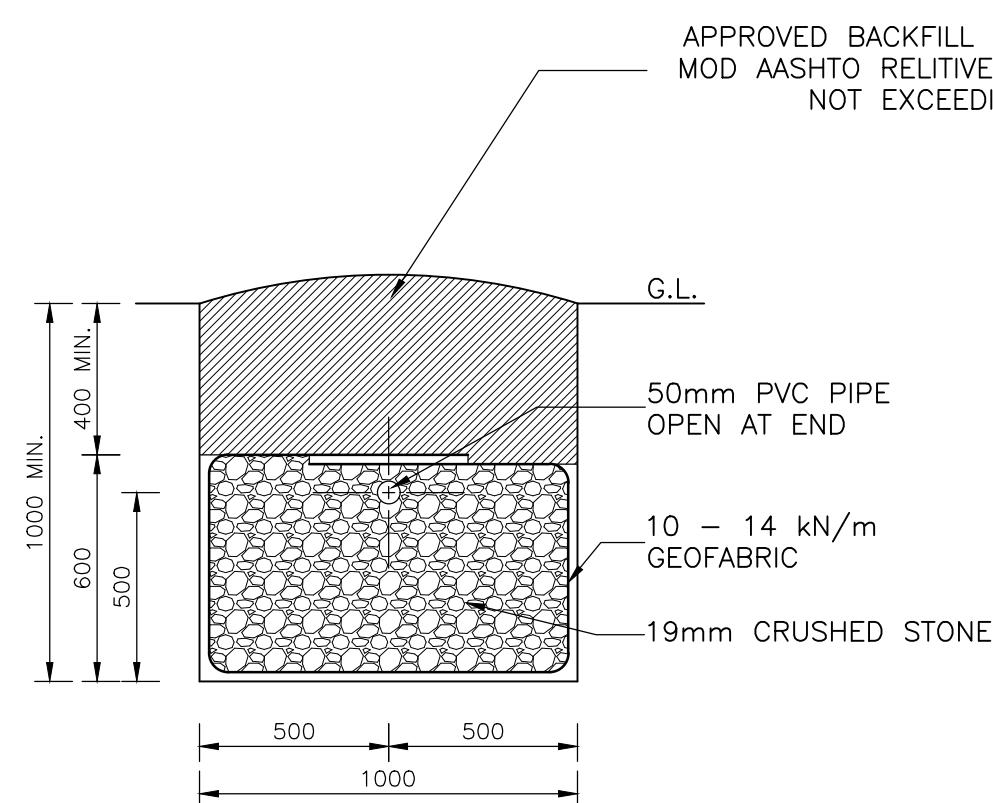
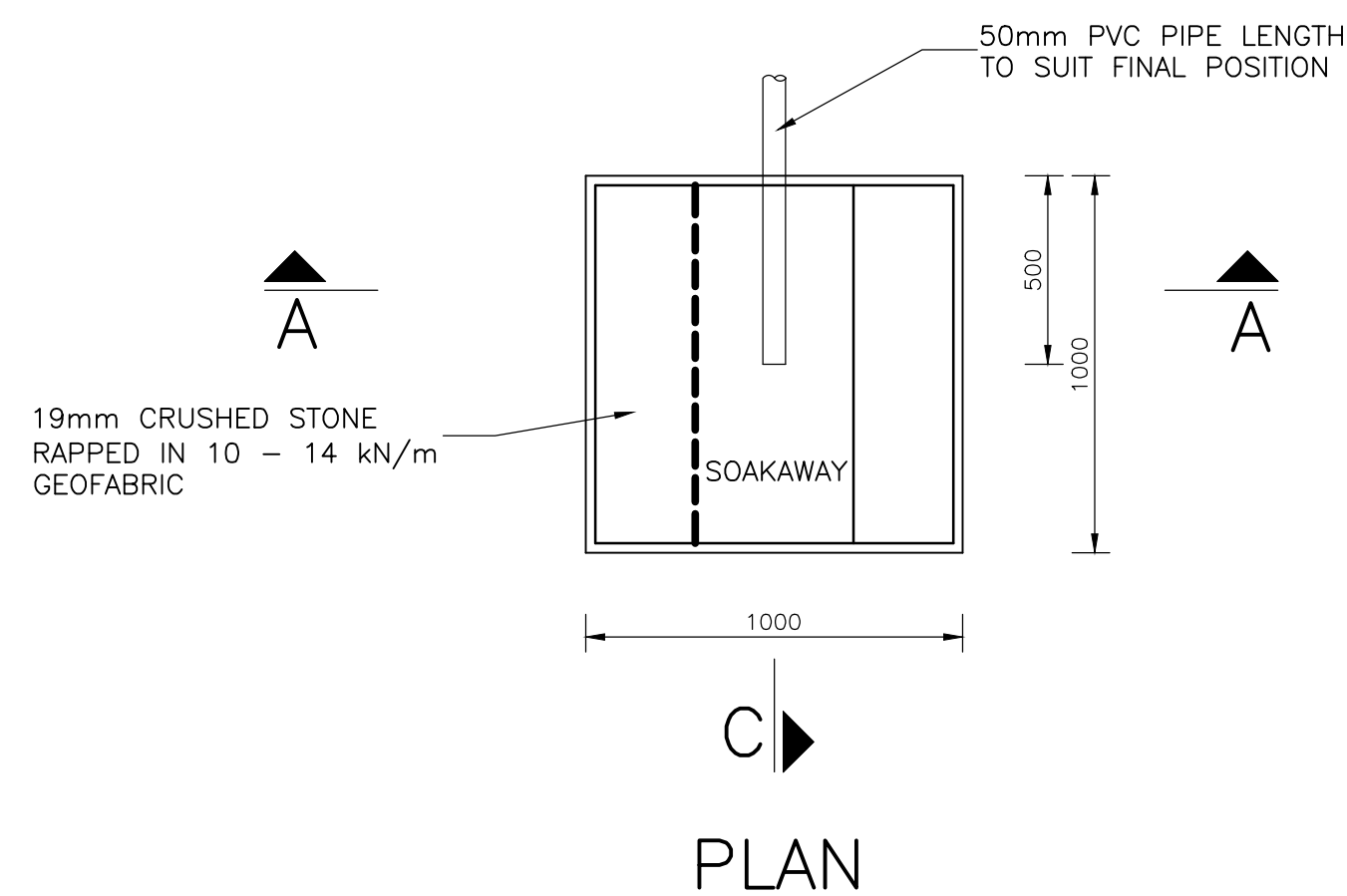
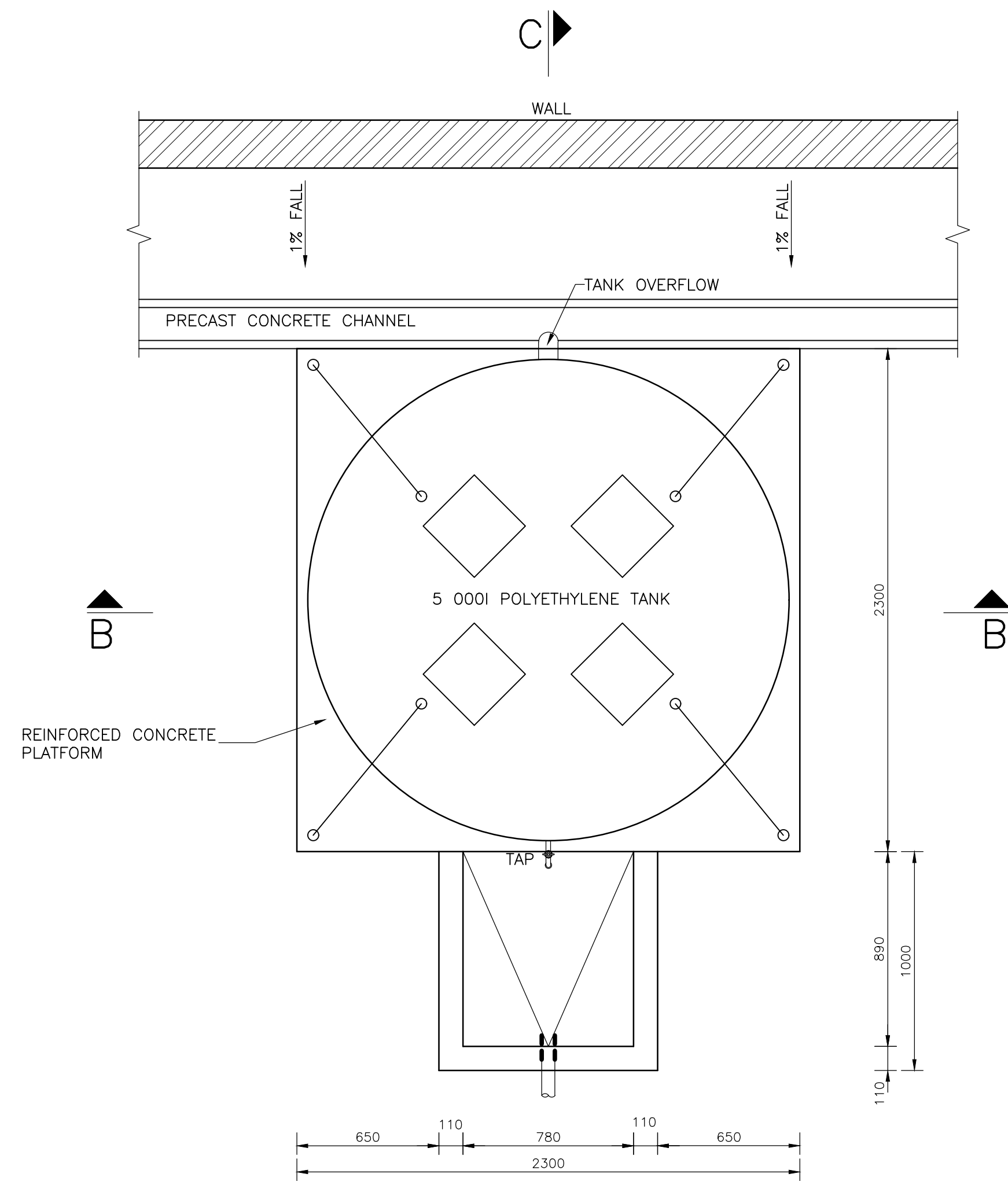


BOSCH PROJECTS
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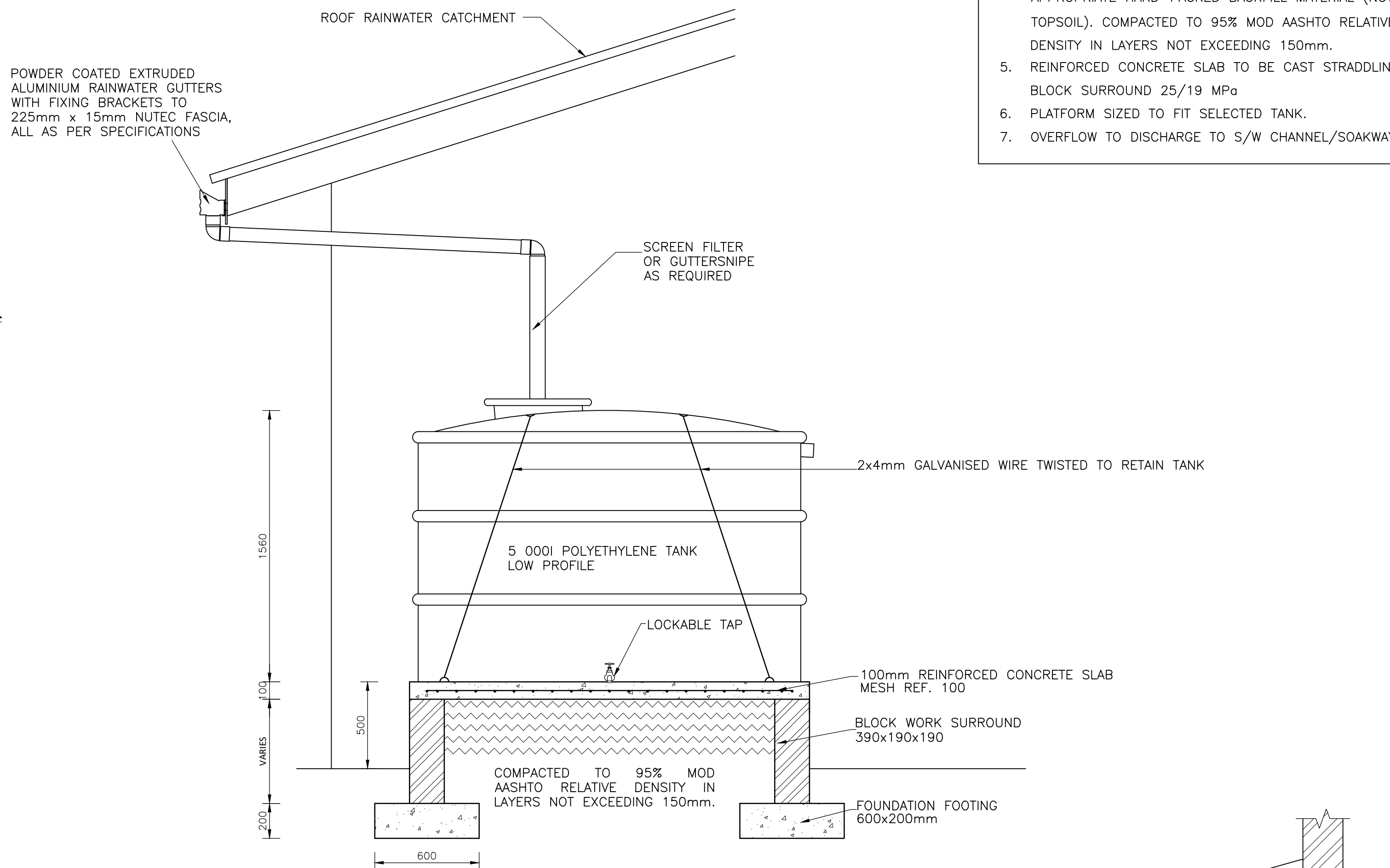
BOSCH PROJECTS (PTY) LTD.
P.O. BOX 13530, Vincent, East London, 5217
57 Western Avenue, Vicent, East London, 5247, RSA
Tel: (043) 721 1717 Fax: (043) 721 1719
E-mail: mail@boschprojects.co.za

Drawing No. 6035/54/017

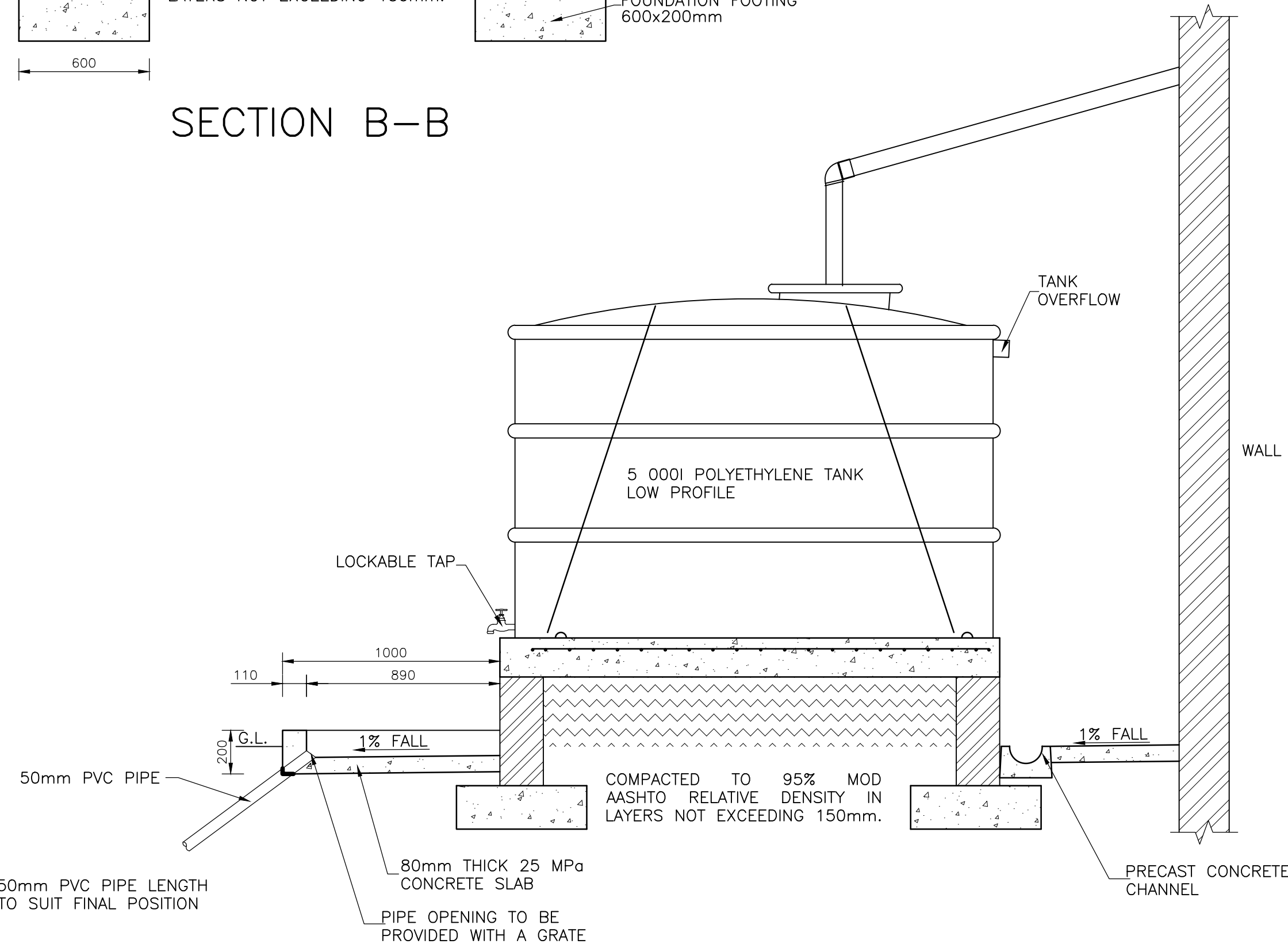
Revision **A**



SECTION A-A

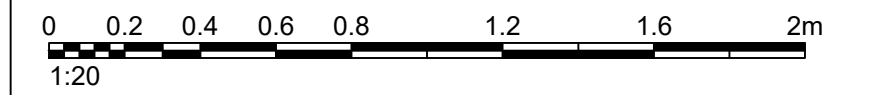


SECTION B-B



SECTION C-C

- NOTES:
1. INVESTIGATE SOIL AND GROUND CONDITIONS AND CONSTRUCT PLATFORM TO SUIT CONDITIONS.
 2. ENSURE FOOTING IS ON SOLID, UNDISTURBED GROUND.
 3. REMOVE TOPSOIL AND EXCAVATE STRIP FOOTING TO A MINIMUM DEPTH OF 400mm BELOW BASE OF TOPSOIL.
 4. RAISED BLOCK SURROUND TO BE INFILL WITH APPROPRIATE HARD-PACKED BACKFILL MATERIAL (NOT TOPSOIL). COMPACTED TO 95% MOD AASHTO RELATIVE DENSITY IN LAYERS NOT EXCEEDING 150mm.
 5. REINFORCED CONCRETE SLAB TO BE CAST STRADDLING BLOCK SURROUND 25/19 MPa
 6. PLATFORM SIZED TO FIT SELECTED TANK.
 7. OVERFLOW TO DISCHARGE TO S/W CHANNEL/SOAKWAY.



REV.	DESCRIPTION	DATE	APPR'D
1	FOR INTERNAL REVIEW	02/2017	M.Q
A	ISSUED FOR CONSTRUCTION	03/2017	M.Q

DRG. No. REFERENCE DRAWING

CLIENT



IMPLEMENTING AGENT TECHNICAL SUPPORT



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Palm Square Business Park
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Fax: (043) 748-5471



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DESIGNED	M.Q	DRAWN	S.M
CHECKED		CIVIL ENGINEER	M.Q
STRUCTURAL ENGINEER	N/A	MECHANICAL ENGINEER	N/A
ELECTRICAL ENGINEER	N/A	CO-ORDINATION ENGINEER	N/A

APPROVED PROJECT MANAGER DIRECTOR

ASIDI: CONSTRUCTION OF WATER INFRASTRUCTURE AT SCHOOLS WATER CLUSTER 3

DRINKING WATER
LOW PROFILE
RAINWATER STORAGE

SCALE 1:20 DATE 12/11/2013

DRAWING NUMBER	6035/54/020	REVISION	A1
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SCHEDULE OF FITTINGS			
REF	DESCRIPTION	QTY	UNITS
A	90ø HDPE ELBOW 25mmø	8	No
B	90ø GALVANIZED ELBOW 50mmø	2	No
C	MALE ADAPTER	4	No
D	25mmø GALVANIZED STOP COCK	1	mm
E	25mmø NON-RETURN VALVE	1	mm
F	25mmø HDPE STRAIGHT COUPLER	2	mm
G	50mmø GALVANIZED STRAIGHT COUPLER	1	mm

NOTES

BOOSTER PUMP TO BE SALMSON JETSON PAC OR SIMILAR APPROVED.

EXPANDED METAL CAGE TO BE BOLTED ON 1.2x1.0x0.1m THICK SLAB. FRAME TO BE MADE OF 40x40x5mm ANGLE SECTION

Revisions	B	02/03/17	EXPANDED METAL CAGE	M.Q	
	A	06/02/17	issued for Construction	M.Q	
	01	10/06/14	issued for Tender	M.Q	
	0	31/05/13	issued for Information	M.Q	
	No.	Date	Description	By	ChkApp

Designed	Drawn	Checked	Approved	Date	Scale
M.Q	B.D			15/07/23	1:50

Client



basic education
Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

Implementing Agent



IDT
Palm Square Business Park
Silverwood House
Bonza Bay Road
Beacon Bay, 5241
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Project

ASIDI: BATCH II WATER & SANITATION PROGRAMME

Drawing Title

BOOSTER PUMP

Consulting Engineer




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Drawing No.	Revision
6035/54/021	B

