



**COMMISSIONER AND MAIN STREET INTERSECTION  
REHABILITATION AND STORMWATER AT ELTIVILLAS  
TENDER NUMBER: 58 of 2021  
CIDB GRADING: 5 CE OR HIGHER**

<b>Name of Bidder:</b>			
<b>Contact Person:</b>			
<b>Telephone Number:</b>			
<b>Email Address:</b>			
<b>Bid Amount (VAT Incl.):</b>			
<b>Prepared for:</b>	<b>Prepared by:</b>		
 <p>Makhado Local Municipality Civic Centre 83 Krogh Street Louis Trichardt 0920 Tel: 015 519 3000</p>	 <p>Voningela Consulting and Projects P O Box 1020 Giyani 0826 Tel: 083 328 2060</p>		
  <p><b>EXPANDED PUBLIC WORKS PROGRAMME</b> Creating opportunities towards human fulfilment</p>			

# CONTENTS

## THE TENDER

### PART T1: TENDERING PROCEDURES

T1.1	Tender Notice and Invitation to Tender (White pages).....	T.3
T1.2	Tender Data (Pink pages) .....	T.5

### PART T2: RETURNABLE DOCUMENTS

T2.1	List of Returnable Schedules (Yellow pages) .....	T.20
T2.2	Other Documents required for Tender Evaluation (Yellow pages) .....	T.61
T2.3	Returnable Schedules that will be Incorporated into the Contract (Yellow pages) .....	T.99

## THE CONTRACT

### PART C1: AGREEMENT AND CONTRACT DATA

C1.1	Form of Offer and Acceptance (White pages).....	C.3
C1.2	Performance Guarantee (White pages) .....	C.7
C1.3	Contract Data (White pages) .....	C.11
C1.4	Performance Guarantee for Materials and Equipment Not Yet Built into the works (White pages).....	C.25
C1.5	Retention Money Guarantee (White pages).....	C.28
C1.6	AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 85 of 1993 AND APPOINTMENT AS MINE MANAGER IN TERMS OF SECTION 3(1)(a) OF MINE HEALTH AND SAFETY ACT 29 of 1996.....	C.30
C1.7	ABSTRACTS OF THE MINE HEALTH AND SAFETY ACT No. 29 OF 1996 AND AMENDMENT ACT No. 72 OF 1997 .....	C.37
C1.8	Agreement with Adjudicator (White pages).....	C.38

### PART C2: PRICING DATA

C2.1	Pricing Instructions (Yellow pages).....	C.41
C2.2	Bills of Quantities (Yellow pages) .....	C.45

### **PART C3: SCOPE OF WORK**

C3.1	Description of Works (Blue pages) .....	C.88
C3.2	Engineering (Blue pages) .....	C.93
C3.3	Procurement (Blue pages).....	C.93
C3.4	Construction (Blue pages) .....	C.94
C3.5	Management (Blue pages) .....	C.196

### **PART C4: SITE INFORMATION**

C4.1	Site Information (Green pages) .....	C.198
C4.2	Locality Plan (Green pages) .....	C.200

### **PART C5: ANNEXURES**

C5.1 :	Proforma Documents (White Pages) .....	C.202
C5.2 :	Municipality Health and Safety Specification (White Pages) .....	C.213
C5.3 :	Contract Drawings (White Pages) .....	C.214

# **THE TENDER**

**PART T1: TENDERING PROCEDURES**

**PART T2: RETURNABLE DOCUMENTS**

## **PART T1: TENDERING PROCEDURES**

T1.1	TENDER NOTICE AND INVITATION TO TENDER .....	T.3
T1.2	TENDER DATA .....	T.5

**TENDER No: 58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY**  
**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT**  
**ELTIVILLAS**

**T1.1 TENDER NOTICE AND INVITATION TO TENDER**

**APPOINTMENT OF CONTRACTOR FOR THE COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT ELTIVILLAS (AYOB)**

All suitable service providers are hereby invited to bid for the below mentioned projects. Bidders are requested to bid as per specification attached to the bid documents that will be obtainable from **05 August 2021 at non-refundable amount of R600.00 per document** at the Procurement Office No. B043 Ground Floor, 83 Krogh Street, Civic Center, Makhado or can be downloaded from e-tender portal for free <https://etenders.treasury.gov.za/content/advertised-tender>.



**MAKHADO LOCAL MUNICIPALITY**

Tel: (015) 519 3000 Fax: (015) 516 1195 Private Bag X2596 Makhado 0920

Ad designed by Zouret Publishers

**TENDER NOTICE**

All suitable service providers are hereby invited to bid for the below mentioned projects. Bidders are requested to bid as per specification attached to the bid documents that will be obtainable from **05 August 2021 at non-refundable amount of R600.00 per document** at the Procurement Office No. B043 Ground Floor, 83 Krogh Street, Civic Center, Makhado or can be downloaded from e-tender portal for free <https://etenders.treasury.gov.za/content/advertised-tender> or [www.makhado.gov.za](http://www.makhado.gov.za).

BID NO:	DESCRIPTION	EVALUATION CRITERIA	SPECIAL REQUIREMENT	TECHNICAL ENQUIRIES	REFERENCE AND NOTICE NO.	CLOSING DATE AND TIME
57 of 2021	Supply and delivery of round pipe and culvert pipe	80/20 preferential points		Acting Director Technical Services: Mr. MG Raleshuku or Ms. MJ Sithagu are at 0155193000	File No. 8/3/2/1815 Notice No. 119 /2021	20 August 2021 at 12:00pm
<b>58 of 2021</b>	Commissioner and main street intersection rehabilitation and stormwater at Eltivillas	80/20 preferential points with functionality	CIDB Grading 05 CE or higher	Acting Director Technical Services: Mr. MG Raleshuku or Ms. L Thulare at 0155193000	File No. 8/3/2/1816 Notice No. 120 /2021	20 August 2021 at 12:00pm

**NB: NO COMPULSORY BRIEFING MEETING FOR THE ABOVE MENTIONED BIDS**

Completed bid documents signed by a duly authorized person, sealed in an envelope clearly marked "As mentioned above" must reach the undersigned by depositing it into the tender box at the foyer of the main entrance to the Civic Centre by not later than "As mentioned above" when all tenders received will be opened in public in the Council Chamber, Ground Floor, Civic Centre, No.83 Krogh Street, Makhado.

The Municipality is not bound to accept the lowest or any bid and reserves the right to accept any part of a bid. Bids must remain valid for a period of ninety (90) days after closing date of submission thereof. Submitted tenders will be evaluated as mentioned above table.

Bids which are late, incomplete, unsigned or submitted in pencil or by teleglyph or facsimile or electronically by e-mail, or not having the following documents attached for evaluation or not complying with the tender specifications, will not be evaluated and will be disqualified:

- Valid Tax compliance status pin issued by SARS
- A copy of company registration documents e.g. CK
- Certified copy/copies of company owner(s) ID book(s), not older than three (03) months.
- Attach proof of payment for municipal rates not owing for more than (03) months or formal lease agreement for rental premises or letter from the traditional authority in cases of non-ratable areas. (Attach for both entity and directors of the company)
- Copy of central supplier database report.

**NB:**

- Service provider must submit their certified BBBEE verification certificate from verification agency accredited by South African National Accreditation system (SANAS) or sworn affidavit.
- All Service Provider doing business with Makhado municipality are required to register on the CSD (Central Supplier Database).
- A copy of a certified copy will not be accepted.

All procurement enquiries should be directed to Ms. P Mudau at tel no. (015) 519 3044/3024.

Civic Centre  
83 Krogh Street,  
LOUIS TRICHARDT

**MR KM NEMANAME**  
**ACTING MUNICIPAL MANAGER**

**NB: NO COMPULSORY BRIEFING FOR THE ABOVE MENTIONED BID.**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

Completed bid documents signed by a duly authorized person, sealed in an envelope clearly marked "As mentioned above" must reach the undersigned by depositing it into the tender box at the foyer of the main entrance to the Civic Centre by not later than **12:00** on **20 August 2021** when all tenders received will be opened in public in the Council Chamber, Ground Floor, Civic Centre, No.83 Krogh Street, Makhado.

The Municipality is not bound to accept the lowest or any bid and reserves the right to accept any part of a bid. Bids must remain valid for a period of ninety (90) days after closing date of submission thereof. Submitted tenders will be evaluated on **80/20** score points and with functionality.

Bids which are late, incomplete, unsigned or submitted in pencil or by telegraph or facsimile or electronically by e-mail, or not having the following documents attached for evaluation or not complying with the tender specifications, will not be evaluated and will be disqualified:

- A valid Tax compliance status pin issued by SARS
- A copy of company registration certificate/CK.
- Certified copy/copies of company owner(s) ID book(s), not older than three (03) months.
- Attach proof of payment for municipal rates not owing for more than three (03) months or formal lease agreement for rental premises or letter from the traditional authority in case of non-rateable areas.(Attach for both entity and directors of the company)
- Copy of central supplier database report

**NB:**

- **Service provider must submit their certified BBBEE verification certificate from verification agency accredited by South African National Accreditation System (SANAS) or affidavit.**
- **All Service Provider doing business with Makhado Municipality are required to register on the CSD (Central Supplier Data Base)**
- **A copy of a certified copy will not be accepted.**

All technical enquiries can be directed to Acting Director Technical Services Mr. MG Raleshuku or Ms. LA Thulareat (015) 519 3000, during office hours while procurement enquiries should be directed to Ms P Mudau or Mr M Ramabula at (015) 519 3044/3024

Civic Centre

83 Krogh Street

LOUIS TRICHARDT

**MUNICIPAL MANAGER**

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

**T1.2 TENDER DATA**

The conditions of tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement (SFU) of May 2010, as published in Government Gazette No 33239, Board Notice 86 of 2010 of 28 May 2010. Those Standard Conditions of Tender remained the same as those published in the previous edition of the SFU as published in Government Gazette No 31823, Board Notice 12 of 2009 of 30 January 2009 - See [www.cidb.org.za](http://www.cidb.org.za).

Each Tenderer shall obtain its own copy of the Standard Conditions of Tender.

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

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

Clause Number	Tender Data
<p><b>2. <u>EMPLOYER</u></b>  Cl. F1.1</p>	<p>The "Employer" is "<b>MAKHADO LOCAL MUNICIPALITY</b>"</p> <p>The Employer's domicilium citandi et executandi (permanent physical business address) is: Makhado Municipality, Civic Centre, 83 Krogh Street, Makhado.</p> <p>The Employer's address for communication relating to this project is: Private Bag x 2596, Louis Trichardt, 0920.</p>
<p><b>3. <u>TENDER DOCUMENTS</u></b>  Cl. F.1.2</p>	<p>"The following documents form part of this tender:</p> <p><b>VOLUME 1</b></p> <p><b>THE TENDER</b></p> <p><b>Part T1: Tendering procedures:</b></p> <p>T1.1 Tender notice and invitation to tender</p> <p>T1.2 Tender Data</p> <p><b>Part T2: Returnable documents</b></p> <p>T2.1 Returnable Schedules required for Tender Evaluation</p> <p>T2.2 Other Documents required for Tender Evaluation</p> <p>T2.3 Returnable Schedules that will be incorporated into the Contract</p> <p><b>THE CONTRACT</b></p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p><b>Part C1: Agreements and contract data</b></p> <p>C1.1 Form of Offer and Acceptance C1.2 Performance Guarantee C1.3 Contract Data</p> <p>C1.4 Performance Guarantee for Material and Equipment not yet Built into the Works</p> <p>C1.5 Retention Money Guarantee</p> <p>C1.6 Agreement in Terms of the Occupational Health and Safety Act 85 of 1993</p> <p>C1.7 Abstracts of the mine health and safety Act No 29 of 1996 and Amendment act No.72 of 1997</p> <p>C1.8 Agreement with Adjudicator</p> <p><b>Part C2: Pricing data</b></p> <p>C2.1 Pricing instructions C2.2 Bills of quantities C2.3 Calculation of Tender Sum</p> <p><b>Part C3: Scope of work</b></p> <p>C3.1 Description of Works C3.2 Engineering C3.3 Procurement C3.4 Construction C3.5 Management</p> <p><b>Part C4: Site information</b></p> <p>C4.1 Site Information C4.2 Locality Plan</p> <p><b>Part C5: Annexures</b></p> <p>C5.1 : Proforma Documents C5.2 : Baseline Risk Assessment C5.3 : Contract Drawings List</p> <p><b>VOLUME 2</b></p> <ul style="list-style-type: none"> <li>• Tender Drawings</li> </ul>
<p><b>4. EMPLOYER'S AGENT</b> Cl. F.1.4</p>	<p>The Employer's agents are:</p> <p><b>a) Principal Agent</b> <b>Voningela Consulting and Projects</b> <u>Address:</u></p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>531 Section E, Giyani, 0826 P.O. Box 1020, Giyani, 0826 Tel: 083 328 2060 E-mail: <a href="mailto:ysono@voningelaconsulting.co.za">ysono@voningelaconsulting.co.za</a></p>
<p><b>5. <u>TENDERER'S OBLIGATIONS</u></b></p>	
<p><b>5.1. <u>Eligibility</u></b> <b>Cl. F.2.1</b></p>	<p>A tender offer may only be submitted if the Tenderer satisfies the criteria stated in the Tender Data and if the Tenderer, or any of his principals, is not under any restriction to do business with the Employer.</p> <p>Only those tenderers who are registered with the CIDB, or can provide proof of having applied for registration, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a <b>5CEor higher</b> class of construction work, or by a contractor who is registered as a potentially emerging enterprise in terms of these Regulations at a contractor grading designation, one level higher than the contractor's registered grading designation, provided that the client</p> <p>(a) is satisfied that such a contractor has the potential to develop and qualify to be registered in that higher grade; and</p> <p>(b) ensures that financial, management or other support is provided to that contractor to enable the contractor to successfully execute that contract</p> <p>are eligible to submit tenders.</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> <li>1. every member of the joint venture is registered with the CIDB or can provide proof of having registered;</li> <li>2. the lead partner has a contractor grading designation in the <b>5class</b> of construction work; and</li> <li>3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a <b>5class</b> of construction work are eligible to submit tenders.</li> </ol>
<p><b>5.2. <u>Site Visit and Clarification Meeting</u></b> <b>Cl. F.2.7</b></p>	<p>The arrangements for a compulsory pre-tender meeting are:</p> <p><b>NO COMPULSORY BRIEFING MEETING</b></p> <p>Site coordinates are given below:</p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>The GPS coordinates for the proposed area: <b>23° 3'1.65"S</b> <b>29°55'4.25"E</b></p> <p>For tenderers wishing to visit the site.</p>
<p><b>5.3. <u>Insurance</u></b> <b>Cl. F.2.9</b></p>	<p>No insurance cover will be provided by the Employer.</p>
<p><b>5.4. <u>Alternative Tender Offers</u></b> <b>Cl. F. 2.12</b></p>	<p>Unless anything to the contrary has been determined in the Contract Data, a Tenderer may, together with his tender for the original designs contained in the contract documents, submit alternative designs and tender offers for consideration. All designs, calculations, drawings and Operation and Maintenance manuals shall be fully endorsed by a third-party registered engineer, accomplished in such specific field of practice and the cost thereof shall be borne solely by the Contractor. Such alternative designs and offers shall be subject to the following conditions and requirements:</p> <p><b>5.4.1. <u>Tenders</u></b></p> <p>An alternative offer or design will be considered only if the tender for the original items has been fully priced and completed. The alternative tender offer is to be submitted in <b>the same envelope as the main tender offer</b>, together with a schedule that compares the requirements of the tender documents with the alternative requirements the Tenderer proposes. No alternative tender will be considered unless a tender free from qualifications is also submitted.</p> <p>Unless the alternative offer stipulates to the contrary, it shall be assumed that the period for completion of the Works shall be the same as for the original design.</p> <p>Designs, calculations, drawings and a modified schedule of quantities (as determined hereafter) in respect of each alternative offer or design shall accompany the alternative tender offer and shall be endorsed fully by a third-party registered engineer, accomplished in such specific field of practice.</p> <p><b>5.4.2. <u>Preliminary calculations</u></b></p> <p>Preliminary calculations for an alternative design shall be submitted with the tender. Such calculations shall give adequate details so as to enable an assessment to be made of the general efficacy of the design and of its principal elements, also of the degree to which the design prescriptions and codes of the Employer are being complied with. The calculations shall be clear and in a logical sequence and shall clearly reflect all the design</p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

assumptions.

5.4.3. Preliminary drawings

Preliminary drawings of the alternative designs shall also be submitted with the tender. These drawings shall comprise adequate layout plans, elevations and sections and shall clearly illustrate the general efficacy of the design and its principal elements.

5.4.4. Quantities

Each alternative offer shall be accompanied by a modified priced schedule of quantities compiled in accordance with the specifications, in so far as it is applicable, which clearly shows the manner in which the price for the alternative offer has been determined and the items in the original schedule of quantities which fall away or are being changed. In addition to the schedule of quantities, a set of calculations shall be supplied to show how the quantities have been determined. All assumptions in regard to factors which will determine quantities shall be clearly and conspicuously marked by underlining or colouring and shall indicate whether or not the assumptions have been based on information furnished in the Contract Data (with the necessary references).

5.4.5. Further details

Should the Employer's Agent find that the calculations and drawings submitted for alternative designs are not complete enough for proper adjudication of the alternative designs, the Employer reserves to itself the right to call on the Tenderer to submit such further calculations and drawings as may be required. If such further details are not submitted within ten days of having been requested, the alternative designs will not be given further consideration.

5.4.6. Preliminary adjudication of alternative designs

The Employer's Agent will undertake a preliminary scrutiny of any alternative designs for compliance with the specified requirements of the Employer. Should he find any mistakes or unsatisfactory aspects, he may afford the Bidder the opportunity to rectify them within a period to be determined by the Employer's Agent. However, it is emphasized that the preliminary scrutiny of the design and tender by the Employer's Agent, by its very nature, cannot be comprehensive, and no guarantee can be given in this regard that all the mistakes made by the Bidder will in fact be detected. Any correction of such mistakes shall be made with the tender price of the bidder being retained, and, wherever necessary, the priced schedule of quantities for the alternative design shall be adjusted accordingly.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

5.4.7. Acceptance of alternative design

The Bidder shall note that the acceptance of a tender which includes alternative designs shall mean that the alternative designs have been approved in principle only. If the final calculations, drawings and details do not comply with the specified requirements, such alternative designs may be rejected, unless they are suitably amended by the Bidder so as to be acceptable to the Employer.

5.4.8. Final drawings and calculations and the priced schedule of quantities

Where a tender with an alternative design has been accepted, the Contractor shall, not less than two months before he intends starting with the construction of such design, submit to the Employer's Agent a complete set of working drawings, detailed calculations and a complete schedule of quantities, for approval. The schedule of quantities shall be based on the preliminary schedule of quantities, but with the necessary adjustments in quantities and prices and with the tendered price for the alternative design being retained.

Within three weeks of having received the above, the Employer's Agent will indicate which drawings, calculations, quantities, prices and other particulars are acceptable to him and which not, with reasons furnished. The Contractor shall then submit to the Employer's Agent in good time any modified drawings and other particulars for approval, for which he will require two weeks. Any delay arising from the fact that the amended particulars do not meet the requirements shall be the responsibility of the Contractor.

No work which will be affected by an alternative design may be commenced, unless the drawings, schedule of quantities and prices for such alternative design have been approved. Should the Contractor fail to modify any drawings, calculations, quantities, prices or any other particulars to the satisfaction of the Employer's Agent, the alternative design will be rejected and the original design shall be constructed for the same amount as has been tendered for the alternative design.

5.4.9. Responsibility for alternative design

The approval of a design by the Employer's Agent shall not in any way relieve the Bidder of his responsibility to produce a design which conforms in all respects to all the specified requirements and which will be suitable for the purpose envisaged.

Should it appear later during construction or during the maintenance period that the design does not conform to the specified requirements, the

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>Contractor only, shall be liable for any damage arising there from and he shall, at his own expense, do all the necessary work to ensure that the Works conforms to all the specified requirements.</p> <p>5.4.10. <u>Indemnity</u></p> <p>Once the alternative design has been approved, the Contractor shall indemnify and hold harmless the Employer, its agents and assigns, against all claims howsoever arising out of the said design whether in contract or delict.</p>
<p><b>5.1. <u>Submitting a Tender Offer</u></b> <b><u>Cl. F2.13</u></b></p>	<p>5.5.1. <u>Whole of the Works</u> (Cl. F.2.13.1)</p> <p>Tenderers shall offer to provide for the whole of the Works identified.</p> <p>5.5.2. <u>Original tender documents</u> (Cl. F.2.13.3)</p> <p>The original tender document, issued to the Bidder, shall be submitted in its entirety. No copies are required.</p> <p>5.5.3. <u>Marking of Tender Submissions</u> (Cl. F.2.13.5)</p> <p>The complete tender documents shall be enclosed and sealed in a single envelope, marked:</p> <p><b>“BID NO.: 58 OF 2021 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT ELTIVILLAS</b></p> <p>The Employer’s address for delivery of tender offers to be shown on each tender submission package is the Tender Box located at:</p> <p><b>The Foyer of Civic Centre, 83 Krogh Street, Louis Trichardt.</b></p> <p>5.5.4 <u>Two envelope system</u> (Cl. F.2.13.6)</p> <p>A two-envelope procedure will not be followed.</p> <p>5.5.5. <u>Closing time</u> (Cl. F.2.15)</p> <p>The closing time for submission of tender offers is: <b>12H00</b></p> <p>Telegraphic, telephonic, telex, facsimile, e-mail, electronic and late tender</p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>offers will not be accepted.</p> <p>5.5.6. <u>Tender offer validity</u> (Cl. F.2.16)</p> <p>The tender offer validity period is <b>90 days</b> after tender closing date.</p> <p>5.5.7. <u>Clarification of tender offer after submission</u> (Cl. F.2.17)</p> <p>Delete the last part of the second sentence, commencing with the word “and”. Furthermore, delete the last two sentences of Cl. F.2.17.</p> <p>Add the following sentence: “The rates stated by the Bidder shall be binding”.</p> <p>5.5.8. <u>Provide other Material</u> (Cl. F.2.18.1)</p> <p>Upon request by the Employer, the Bidder shall promptly supply any other material that has a bearing on the tender offer, the bidder’s commercial position (including, where applicable, notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the Employer for the purpose of a full and fair assessment. Should the Bidder not provide the information or material called for, by the time for submission stated in the Employer’s request, the Employer will regard the tender offer as being non-responsive.</p> <p>5.5.9. <u>Certificates</u> (Cl. F.2.23)</p> <p>The following certificates are to be provided with this tender:</p> <ul style="list-style-type: none"><li>a) Provide a valid Central Supplier Database (CSD) number.</li><li>b) Compensation Fund registration certificate</li><li>c) Certificate of Contractor Registration issued by the Construction Industry Development Board or a copy of the application Form for registration in terms of the Construction Industry Development Board Act (Form F006).</li></ul> <p>A minimum grading of <b>5CE or Higher</b> is required.</p> <p><b><u>Important Note:</u></b></p> <p>Failure to provide the required particulars as per the above-listed certificates implies a non-responsive tender and warrants rejection of the tender on account of non-compliance with the requirements of the Tender Data</p>
--	--

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

<p><b>6. <u>EMPLOYER'S UNDERTAKING</u></b></p>	
<p><b>6.1. <u>Opening of Tender Submissions</u></b> <b><u>Cl. F3.4</u></b></p>	<p>The time and location for opening of the tender offers are: <b>12:00 on 20 August 2021</b> <b>Location: The Tender Box</b> <b>The Foyer of Civic Centre,</b> <b>83 Krogh Street,</b> <b>Louis Trichardt.</b></p>
<p><b>6.2. <u>Arithmetical Errors</u></b></p> <p><b>Cl. F.3.9</b></p>	<p>Delete Clause 3.9.1</p> <p>Insert the following new clause</p> <p>F.3.9.1 Check responsive bids 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.</p> <p>F3.9.2 Check the highest ranked bid or bidder with the highest number of bid evaluation points after the evaluation of bid offers in accordance with F.3.11 for:</p> <ul style="list-style-type: none"> <li>a) the gross misplacement of the decimal point in any unit rate;</li> <li>b) omissions made in completing the pricing schedule or bills of quantities; or</li> <li>c) arithmetic errors in: <ul style="list-style-type: none"> <li>i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices;</li> <li>or</li> <li>ii) the summation of the prices</li> </ul> </li> </ul> <p>F.3.9.3 Notify the bidder of all errors or omissions that are identified in the bid offer and either confirm the bid offer as bid or accept the corrected total of prices.</p> <p>F.3.9.4 Where the bidder elects to confirm the bid offer as bid, correct the errors as follows:</p> <ul style="list-style-type: none"> <li>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</li> </ul>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>total as quoted shall govern, and the unit rate shall be corrected.</p> <p>b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total shall govern and the tenderer will be asked to revised selected item prices (and their rates if bills of quantities apply) to achieve the tendered total of the prices.</p>
<p><b>7. <u>EVALUATION OF BIDS</u></b> <b>Cl. F.3.11</b></p>	<p>The procedure for evaluation of responsive Bid offers is Method 2, viz. the case of a financial offer and preferences.</p> <p>The Employer's Preferential Procurement Policy applicable to this Bid and based on the Preferential Procurement Policy Act, 2000 (Act No. 5 of 2000) is set out here following:</p> <p>7.1 Business Registration</p> <p>Prospective Bidders shall be registered:</p> <p>a) with the South African Revenue Services for all categories of taxes applicable to it.</p> <p>b) with the Compensation Commissioner</p> <p>c) with the Construction Industry Development Board. A minimum grading of <b>5CE or higher</b> is required.</p> <p>7.2 Preference Point System</p> <p>Refer to form as <b>Preference Points Claim form in Terms of the Preferential Procurement Regulations 2011 (MBD 6.1)</b> in the Returnable Schedules.</p> <p><b>Contractors must also supply copies of a joint venture, CC's or any other agreements that clearly indicates ownership and % shareholding.</b></p> <p><b><u>If no SARS and Tax Clearance Certificates are attached the bid will be disqualified.</u></b></p>
<p><b>8. <u>ACCEPTANCE OF TENDER OFFER</u></b> <b>Cl. F3.13</b></p>	<p>Tender offers will only be accepted if:</p> <p>a) The bidder has in his or her possession an original valid Tax Clearance Certificate issued by the South Africa Revenue Services or in case wherein the Bidder provide the municipality with a printed tax clearance from e-filing, it is compulsory that the bidder provide municipality with tax compliance status pin for verification;</p> <p>b) The bidder is registered with the Construction Industry Development Board in an appropriate contractor grading designation. A minimum grading of <b>5CE or Higher</b> is required for the main</p>

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

	<p>contractor;</p> <p>c) The bidder has demonstrated previous experience with the type of work required under this contract having successfully completed projects of similar scope and size.</p> <p>d) The bidder or any of its principals is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; and</p> <p>e) The bidder has not abused the Employer's Supply Chain Management System.</p> <p>f) The bidder has not failed to perform on any previous contract.</p> <p>g) Has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the bidder's ability to perform the contract in the best interests of the employer or potentially compromise the tender process.</p>
<p><b>9. <u>PROVIDE COPIES OF THE CONTRACT DOCUMENT</u></b> <b>Cl. F.3.18</b></p>	<p>The number of paper copies of the signed contract to be provided by the employer is one.</p>
<p><b>10. <u>Proof of Availability of Staff with LI Competencies</u></b></p>	<p>Only those tenderers who can demonstrate that they will have in their employ management and supervisory staff satisfying the requirement of the scope of work for labour-intensive competencies for supervisory and management staff during the validity of the contract are eligible to submit tenders</p>
<p><b>11. <u>Requirement for submission of names of LI staff</u></b></p>	<p>The tenderer must submit to the Employer, names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works together with satisfactory evidence that such staff members satisfy eligibility requirements.</p>

**EVALUATION CRITERIA**

The bids will be evaluated in two stages. The first stage will check whether the bidders have submitted all documents as requested on the advert. Although functionality does not form part of the final tender points scoring for award purpose, tenderer will be assessed for responsiveness and functionality first and if the tender is not responsive or meet the minimum functionality score, the tenderer will be eliminated and not considered further for second stage of evaluation.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

The second stage of the evaluation will be based on Price (80) and preference points for B-BBEE status level of contribution (20).

Detailed points scoring for functionality are as follows:

**COMPETENCE ACHIEVEMENT/FUNCTIONALITY SCHEDULE**

**TABLE A1: REPUTATION AND REFERENCES**

	TARGETED GOALS Name reference with contact details (Previous 3 yrs, Projects involving Road)	Max Points to be Scored	Points Claimed by Tenderer	Allocated Points
1	Project 1	10		
2	Project 2	10		
3	Project 3	10		
4	Project 4	10		
	<b>Sub-Total: Reputation and References</b>	<b>40</b>		

**NOTE:** The tender should attach *appointment letters and completion certificates as a proof for having completed such project. Points for each project will be allocated as follows:*

- 5CE: 10 points
- 4CE: 8 points
- 3CE: 6 points
- 2CE: 4 points

**TABLE A2: FINANCIAL REFERENCES**

	TARGETED GOALS	Tendered Goal	Points Claimed by Tenderer	Allocated Points
1	Tenderer submitted banking details proof attached	2		
2	Bank rating of "C" or better	5		
3	Registered financial Institution's full details as guarantor in the amount of 10% as specified for surety purpose shall be submitted	3		
	<b>Sub-Total: Financial References</b>	<b>10</b>		

**TABLE A3: EXPERIENCE AND QUALIFICATION OF KEY STAFF**

**Table A3.1 Experience**

	TARGETED GOALS	Points Allocation	Points Claimed by Tenderer	Allocated Points
1	Contract Manager: 10 years in Road Projects	>10 yrs=5 6-9 yrs=3 3-5 yrs=2 1-2yrs=1		

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

2	Site Agent: 8 years in Road Projects	>8 yrs=5 5-7 yrs=3 3-4 yrs=2 1-2yrs=1		
3	Foreman 5 years in Road Projects	>5 yrs=3 4 yrs=1.5 3 yrs=1 1-2yrs=0.5		
4	Health and Safety Officer 5 years of experience as OHS in Civil Engineering Construction	>5 yrs=2 4 yrs=1 3 yrs=0.5 1-2yrs=0.25		
<b>Sub-Total: Experience</b>		<b>15</b>		

**NOTE: Project organogram should be attached. Curriculum vitae with detailed experience and contact details should be attached to the tender document for verification by the consultants.**

**Table A3.2 Qualifications**

	TARGETED GOALS	Tendered Goal	Points Claimed by Tenderer	Allocated Points
1	Contract Manager: Civil Engineering or construction management	BSc = 5 B-Tech /PrCPM = 5 ND = 3 N6 = 2 Any Cert= 1		
2	Site Agent: Civil Engineering or construction management or project management (Must have at least NQF 5)	BSc/B-Tech = 5 ND = 4 NQF 5/7 = 3 N6 = 2 Any Cert= 1		
3	Foreman	ND = 3 NQF 7 =2 N6 = 2 N3= 1.5 NQF5= 1.5 NQF 4= 1 NQF 3= 0.5		
4	Health and Safety Officer 5 years of experience as OHS in Road projects	ND = 2 Cert = 0.5		
<b>Sub-Total: Qualifications</b>		<b>15</b>		

**CV's and Certified Qualifications should be attached.**

**TABLE A4: PLANT AND EQUIPMENT**

	TARGETED GOALS	Tendered Goal	Points Claimed by Tenderer	Allocated Points
1.	Grader: No (1)	3		
2.	TLB: No (1)	2		
3.	Excavators: No (1)	4		
4.	Water Cart: No (2) (10 000 litre)	2		

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS

5.	10 m <sup>3</sup> Tipper Trucks: No (5)	5		
6.	Vibratory Roller 12 ton:No (1)	1		
7.	Pad Foot Roller 8 ton: No (1)	1		
8.	LDV: No (2)	1		
9.	Milling Machine	1		
<b>Sub-Total: Plant and Equipment</b>		<b>20</b>		

*Note: Tenderers should attach certified proof of ownership certificate for the plant mentioned above if they own such plant. In case of hired plant, tenderers will be required to attach a letter of undertaking by the hiring firm indicating that they will provide the tenderer with such plant should the tenderer becomes a successful bidder. The hiring company should also provide proof of ownership for such plants (For hiring, tenderers will only receive 50% of the full points for Plant and Equipment).*

**TABLE A5: SUMMARY**

DESCRIPTION	Maximum Points to be Allocated	Points Claimed by Tenderer	Allocated Points
REPUTATION AND REFERENCE OF THE COMPANY: TABLE A1	40		
FINANCIAL REFERENCES: TABLE A2	10		
EXPERIENCE OF KEY STAFF: TABLE 3.1	15		
QUALIFICATION OF KEY STAFF: TABLE A3.2	15		
PLANT AND EQUIPMENT: TABLE A4	20		
<b>TOTAL</b>	<b>100</b>		

*Minimum functionality requirements of seventy percent (70%) or 70 points required for further evaluation.*

*The 80/20-point scoring system will be used on second stage of evaluation.*

## **PART T2: LIST OF RETURNABLE DOCUMENTS**

The tenderer must complete the following returnable documents:

T2.1	LIST OF RETURNABLE SCHEDULES.....	T.20
T2.2	OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION .....	U.64
T2.3	RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT.....	U.102

## **T2.1 LIST OF RETURNABLE SCHEDULES**

T2.1 A	INVITATION TO BID AND TERMS AND CONDITIONS FOR BIDDING-MBD 1	T.21
T2.1 B	DECLARATION OF GOOD STANDING REGARDING TAX-MBD2 .....	T.24
T2.1 C	PRICING SCHEDULE – FIRM PRICES-MBD 3.1 .....	T.27
T2.1 D	PRICING SCHEDULE – NON-FIRM PRICES- MBD 3.2 .....	T.28
T2.1 E	DECLARATION OF INTEREST –MBD 4 .....	T.31
T2.1 F	DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED) - (MBD 5) .....	U.37
T2.1 G	PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017 – MBD 6.1 .....	U.39
T2.1 H	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT -MBD 6.2 .....	U.45
T2.1 I	CONTRACT FORM - PURCHASE OF GOODS/WORKS-MBD 7.1 .....	U.49
T2.1 J	CONTRACT FORM – RENDERING OF SERVICES – MBD 7.2 .....	U.51
T2.1 K	CONTRACT FORM – SALE OF GOODS/WORKS – MBD 7.3 .....	U.53
T2.1 L	DECLARATION OF BIDDER’S PAST SUPPLY CHAIN MANAGEMENT PRACTICES- MBD 8 .....	U.55
T2.1 M	CERTIFICATE OF INDEPENDENT BID DETERMINATION – MBD 9 .....	U.57
T2.1 N	CURRICULUM VITAE OF CONTRACT MANAGER AND QUALIFICATIONS	U.60
T2.1 O	CURRICULUM VITAE OF SITE AGENT AND QUALIFICATIONS .....	U.61
T2.1 P	CURRICULUM VITAE OF FOREMAN AND QUALIFICATIONS .....	U.62
T2.1 Q	CURRICULUM VITAE OF SAFETY OFFICER AND QUALIFICATIONS .....	U.63

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**T2.1 A INVITATION TO BID AND TERMS AND CONDITIONS FOR BIDDING-MBD 1  
 PART A: INVITATION TO BID**

<b>YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE MAKHADO LOCAL MUNICIPALITY</b>					
BID NUMBER:	TBA	CLOSING DATE:	20 August 2021 at 12:00pm	CLOSING TIME:	12:00HRS
DESCRIPTION	<b>COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER</b>				
<b>BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)</b>					
<b>MAKHADOMUNICIPALITY OFFICES</b>					
<b>THE FOYER OF CIVIC CENTRE, 83 KROGH STREET</b>					
<b>LOUIS TRICHARDT</b>					
<b>0950</b>					
<b>BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO</b>			<b>TECHNICAL ENQUIRIES MAY BE DIRECTED TO:</b>		
CONTACT PERSON	Ms LThulare		CONTACT PERSON	V.Sono	
TELEPHONE NUMBER	+27(0)15 519 3000		TELEPHONE NUMBER	+2783 328 2060	
FACSIMILE NUMBER	+27(0)15 519 1195		FACSIMILE NUMBER		
E-MAIL ADDRESS	livhuwanit@makhado.gov.za		E-MAIL ADDRESS	vsono@voningelaconsulting.co.za	
<b>SUPPLIER INFORMATION</b>					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY**  
**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT**  
**ELTIVILLAS**

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] <input type="checkbox"/> Yes <input type="checkbox"/> No		B-BBEE STATUS LEVEL SWORN AFFIDAVIT	[TICK APPLICABLE BOX] <input type="checkbox"/> Yes <input type="checkbox"/> No	
<b>[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES &amp; QSEs) MUST BE SUBMITTED IN ORDER TO QUALIFY FOR PREFERENCE POINTS FOR B-BBEE]</b>					
<b>(a)</b> ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No  [[IF YES ENCLOSE PROOF]		<b>(b)</b> ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No  [[IF YES, ANSWER PART B:3 ]	
<b>QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS</b>					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA) <input type="checkbox"/> YES <input type="checkbox"/> NO					
DOES THE ENTITY HAVE A BRANCH IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO					
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? <input type="checkbox"/> YES <input type="checkbox"/> NO					
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA <input type="checkbox"/> YES <input type="checkbox"/> NO					
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATI <input type="checkbox"/> YES <input type="checkbox"/> NO					
<b>IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.</b>					

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

<b>1. BID SUBMISSION:</b>
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
<b>1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR ONLINE</b>
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER LEGISLATION OR SPECIAL CONDITIONS OF CONTRACT.

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

**1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

**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 VIEW THE TAXPAYER'S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) OR PIN MAY ALSO BE MADE VIA E-FILING. THROUGH THE SARS WEBSITE, WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA/JOINT VENTURES/SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS/PIN/CSD NUMBER.
- 2.6 WHERE NO TCS 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 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: .....

**T2.1 B                    DECLARATION OF GOOD STANDING REGARDING TAX-MBD2**

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.

1. In order to meet this requirement bidders are required to apply for a Tax Clearance Certificate by using SARS form TCC 001 "Application for a Tax Clearance Certificate", and submit it to any SARS branch office nationally. The Tax Clearance Certificate Requirements are also applicable to foreign bidders / individuals who wish to submit bids.
2. SARS will then furnish the bidder with a Tax Clearance Certificate that will be valid for a period of 1 (one) year from the date of approval.
3. **The original Tax Clearance Certificate must be submitted together with the bid.** Failure to submit the **original and valid** Tax Clearance Certificate will result in the invalidation/disqualification of the bid. Certified copies of the Tax Clearance Certificate will not be acceptable.
4. In bids where Consortia / Joint Ventures / Sub-contractors are involved; each party must submit a separate Tax Clearance Certificate.
5. Copies of the TCC 001 "Application for a Tax Clearance Certificate" form are available from any SARS branch office nationally or on the website [www.sars.gov.za](http://www.sars.gov.za).
6. Applications for the Tax Clearance Certificates may also be made via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website [www.efiling.co.za](http://www.efiling.co.za)



TAX CLEARANCE

**TCC 001**

**Application for a Tax Clearance Certificate**

**Purpose**

Select the applicable option ..... Tenders  Good standing

If "Good standing", please state the purpose of this application


**Particulars of applicant**

Name/Legal name (Initials & Surname or registered name)												
Trading name (if applicable)												
ID/Passport no					Company/Close Corp. registered no							
Income Tax ref no					PAYE ref no	7						
VAT registration no	4				SDL ref no	L						
Customs code					UIF ref no	U						
Telephone no	CODE		NUMBER			Fax no	CODE		NUMBER			
E-mail address												
Physical address												
Postal address												

**Particulars of representative (Public Officer/Trustee/Partner)**

Surname												
First names												
ID/Passport no					Income Tax ref no							
Telephone no	CODE		NUMBER			Fax no	CODE		NUMBER			
E-mail address												
Physical address												

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**Particulars of tender (If applicable)**

Tender number

Estimated Tender amount R ,

Expected duration of the tender  year(s)

Particulars of the 3 largest contracts previously awarded

Date started	Date finalised	Principal	Contact person	Telephone number	Amount

**Audit**

Are you currently aware of any Audit investigation against you/the company?..... YES NO

If "YES" provide details

**Appointment of representative/agent (Power of Attorney)**

I the undersigned confirm that I require a Tax Clearance Certificate in respect of  Tenders or  Goodstanding.

I hereby authorise and instruct  to apply to and receive from SARS the applicable Tax Clearance Certificate on my/our behalf.

CCYY-MM-DD

Signature of representative/agent Date

Name of representative/agent

**Declaration**

I declare that the information furnished in this application as well as any supporting documents is true and correct in every respect.

CCYY-MM-DD

Signature of applicant/Public Officer Date

Name of applicant/Public Officer

**Notes:**

- It is a serious offence to make a false declaration.
- Section 75 of the Income Tax Act, 1962, states: Any person who
  - fails or neglects to furnish, file or submit any return or document as and when required by or under this Act; or
  - without just cause shown by him, refuses or neglects to-
    - furnish, produce or make available any information, documents or things;
    - reply to or answer truly and fully, any questions put to him ...
 As and when required in terms of this Act ... shall be guilty of an offence ...
- SARS will, under no circumstances, issue a Tax Clearance Certificate unless this form is completed in full.**
- Your Tax Clearance Certificate will only be issued on presentation of your South African Identity Document or Passport (Foreigners only) as applicable.

**T2.1 C                    PRICING SCHEDULE – FIRM PRICES-MBD 3.1  
 (PURCHASES)**

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

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

Name of Bidder .....	Bid Number .....
Closing Time .....	Closing Date .....

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

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

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

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

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

\*Delete if not applicable

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**T2.1 D PRICING SCHEDULE – NON-FIRM PRICES- MBD 3.2  
 (PURCHASES)**

**NOTE: PRICE ADJUSTMENTS WILL BE ALLOWED AT THE PERIODS AND TIMES SPECIFIED IN THE BIDDING DOCUMENTS.**

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

Name of Tenderer .....	Tender No. ....
Closing Time .....	Closing Date .....

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

ITEM NO.	QUANTITY	DESCRIPTION	BID PRICE IN RSA CURRENCY **(ALL APPLICABLE TAXES INCLUDED)
- Required by:			.....
- At:			.....
- Brand and model			.....
- County of origin			.....
- Does the offer comply with the specification(s)?			*YES/NO
- If not to specification, indicate deviation(s)			.....
- Period required for delivery			.....
- Delivery			*Firm/Not Firm

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

\*Delete if not applicable

**PRICE ADJUSTMENTS**

**A NON-FIRM PRICES SUBJECT TO ESCALATION**

1. IN CASES OF PERIOD CONTRACTS, NON FIRM PRICES WILL BE ADJUSTED (LOADED) WITH THE ASSESSED CONTRACT PRICE ADJUSTMENTS IMPLICIT IN NON FIRM PRICES WHEN CALCULATING THE COMPARATIVE PRICES
2. IN THIS CATEGORY PRICE ESCALATIONS WILL ONLY BE CONSIDERED IN TERMS OF THE FOLLOWING FORMULA:

$$Pa = (1 - V)Pt \left( D1 \frac{R1t}{R1o} + D2 \frac{R2t}{R2o} + D3 \frac{R3t}{R3o} + D4 \frac{R4t}{R4o} \right) + VPt$$

Where:

- Pa = The new escalated price to be calculated.  
 (1-V) Pt = 85% of the original bid price. **Note that Pt must always be the original bid price and not an escalated price.**  
 D1, D2.. = Each factor of the bid price eg. labour, transport, clothing, footwear, etc. The total of the various factors D1,D2...etc. must add up to 100%.  
 R1t, R2t..... = Index figure obtained from new index (depends on the number of factors used).  
 R1o, R2o = Index figure at time of bidding.  
 VPt = 15% of the original bid price. This portion of the bid price remains firm

i.e.

it is not subject to any price escalations.

3. The following index/indices must be used to calculate your bid price:  
 Index "x" = 0.10. Dated August 2021 Index Labour "a" = 0.15 Dated August 2021  
 Index Plant "b" = 0.2 Dated August 2021 Index Material "c" = 0.55 Dated August 2021  
 Index Fuel "e" = 0.1 Dated August 2021
4. FURNISH A BREAKDOWN OF YOUR PRICE IN TERMS OF ABOVE-MENTIONED FORMULA. THE TOTAL OF THE VARIOUS FACTORS MUST ADD UP TO 100%.

FACTOR (D1, D2 etc. eg. Labour, transport etc.)	PERCENTAGE OF BID PRICE
Labour	
Plant	
Material	
Fuel	

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**MBD 3.2**

**B PRICES SUBJECT TO RATE OF EXCHANGE VARIATIONS**

1. Please furnish full particulars of your financial institution, state the currencies used in the conversion of the prices of the items to South African currency, which portion of the price is subject to rate of exchange variations and the amounts remitted abroad.

PARTICULARS OF FINANCIAL INSTITUTION	ITEM NO.	PRICE	CURRENCY	RATE	PORTION OF PRICE SUBJECT TO ROE	AMOUNT IN FOREIGN CURRENCY REMITTED ABROAD
				ZAR =		
				ZAR =		
				ZAR =		
				ZAR =		
				ZAR =		
				ZAR =		

2. Adjustments for rate of exchange variations during the contract period will be calculated by using the average monthly exchange rates as issued by your commercial bank for the periods indicated hereunder: (Proof from bank required)

AVERAGE MONTHLY EXCHANGE RATES FOR THE PERIOD:	DATE DOCUMENTATION MUST BE SUBMITTED TO THIS OFFICE	DATE FROM WHICH NEW CALCULATED PRICES WILL BECOME EFFECTIVE	DATE UNTIL WHICH NEW CALCULATED PRICE WILL BE EFFECTIVE

**T2.1 E DECLARATION OF INTEREST –MBD 4**

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

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

- 3.1 Full Name: .....
- 3.2 Identity Number: .....
- 3.3 Company Registration Number: .....
- 3.4 Tax Reference Number: .....
- 3.5 VAT Registration Number: .....

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

3.6.1 If so, furnish particulars.

.....  
.....

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

3.7.1 If so, furnish particulars.

.....  
.....

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

---

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

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

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

**YES / NO**

3.8.1 If so, furnish particulars.

.....  
.....

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

**YES / NO**

3.9.1 If so, furnish particulars

.....  
.....

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

**YES / NO**

3.10.1 If so, furnish particulars.

.....  
.....

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

**YES / NO**

3.11.1 If so, furnish particulars.

.....  
.....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

**4. Full details of directors / trustees / members / shareholders.**

Full Name	Identity Number	State Employee Number

.....

**Signature**

.....

**Capacity**

.....

**Date**

.....

**Name of Bidder**

**ANNEXURE C**

**CERTIFICATE FOR MUNICIPAL SERVICES AND PAYMENTS**

TO: MUNICIPAL MANAGER, MAKHADO LOCAL MUNICIPALITY

FROM: \_\_\_\_\_ (Name of Bidder)

FURTHER DETAILS OF BIDDER(S); DIRECTORS/SHAREHOLDERS/PARTNERS, ETC.

Directors/shareholders/Partner	Physical address of the Business	Municipal Account No.	Physical residential address of the Director/Shareholder/Partner	Municipal Account No.

**NB: Please attach certified copy (ies) of ID document(s)**

\_\_\_\_\_  
**Signatory**

\_\_\_\_\_  
**Date**

**Witnesses**

1. \_\_\_\_\_  
**Full Names**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

2. \_\_\_\_\_  
**Full Names**

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

**ANNEXURE D**

**AUTHORISATION FOR DEDUCTION OF OUTSTANDING AMOUNTS OWED TO COUNCIL**

TO: MUNICIPAL MANAGER, MAKHADO LOCAL MUNICIPALITY

FROM: \_\_\_\_\_ (Name of the Bidder or Consortium)

I, \_\_\_\_\_ the undersigned, hereby authorize the Makhado Local Municipality to deduct the full amount outstanding by the business organization/Director/Shareholder/Partner, etc. from any payment due by us/me.

**Signed at** \_\_\_\_\_ **Date** \_\_\_\_ **Month** \_\_\_\_\_ **20** \_\_\_\_

**Print Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

Thus done and signed for and on behalf of the bidder/Contractor

\_\_\_\_\_  
**Signatory** \_\_\_\_\_  
**Date**

**Witnesses**

1. \_\_\_\_\_  
**Full Names** \_\_\_\_\_  
**Signature** \_\_\_\_\_  
**Date**

2. \_\_\_\_\_  
**Full Names** \_\_\_\_\_  
**Signature** \_\_\_\_\_  
**Date**

**CERTIFICATION**

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

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

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

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of Bidder

**T2.1 F DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (ALL APPLICABLE TAXES INCLUDED) - (MBD 5)**

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

1. Are you by law required to prepare annual financial statements for auditing? **\*YES / NO**

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

.....  
.....

2. Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days? **\*YES / NO**

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

2.2 If yes, provide particulars.

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

3. Has any contract been awarded to you by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract? **\*YES / NO**

3.1 If yes, furnish particulars

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

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic? **\*YES / NO**

4.1.If yes, furnish particulars

.....  
.....

**CERTIFICATION**

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

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

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

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

\_\_\_\_\_  
**Position**

\_\_\_\_\_  
**Name of Bidder**

**T2.1 G PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL  
PROCUREMENT REGULATIONS 2017 – MBD 6.1**

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 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

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:

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

1.5 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) 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**

**3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS**

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

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 \\
 P_s = 80 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right) & \mathbf{or} & P_s = 90 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of bid under consideration
- Pt = Price of bid under consideration
- Pmin = 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>B-BBEE Status Level of Contributor</b>	<b>Number of points (90/10 system)</b>	<b>Number of points (80/20 system)</b>
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:

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

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

6.1 B-BBEE Status Level of Contributor: ..... = .....(maximum of 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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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	<input type="checkbox"/>	NO	<input type="checkbox"/>
-----	--------------------------	----	--------------------------

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

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

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

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

8.2 VAT registration number: .....

8.3 Company registration number: .....

8.4 TYPE OF COMPANY/ FIRM

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

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

[TICK APPLICABLE BOX]

**8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES**

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

**8.6 COMPANY CLASSIFICATION**

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

[TICK APPLICABLE BOX]

**8.7 MUNICIPAL INFORMATION**

Municipality where business is situated: .....

Registered Account Number: .....

Stand Number: .....

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

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
  - (a) disqualify the person from the bidding process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

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 BIDDER(S)

DATE: .....

ADDRESS .....

.....

.....

**T2.1 H DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT -MBD  
6.2**

This Standard Bidding Document (MBD) 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 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:201x.

**1. General Conditions**

- 1.1. Preferential Procurement Regulations, 2011 (Regulation 9. (1) and 9. (3) make 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. Regulation 9.(3) prescribes that where there is no designated sector, a specific bidding condition may be included, that only locally produced services, works or goods or locally manufactured goods with a stipulated minimum threshold for local production and content, will be considered.
- 1.4. Where necessary, for bids referred to in paragraphs 1.2 and 1.3 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.
- 1.5. 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.
- 1.6. The local content (LC) as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 201x as follows:

$$LC = 1 - \left( \frac{x}{y} \right) \times 100$$

Where

- x imported content  
y bid price 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, one week (7 calendar days) prior to the closing date of the bid as indicated in paragraph 4.1 below.

1.7. A bid will be disqualified if:

- the bidder fails to achieve the stipulated minimum threshold for local production and content indicated in paragraph 3 below; and
- this declaration certificate is not submitted as part of the bid documentation.

**2. Definitions**

- 2.1. **“bid”** includes advertised competitive bids, written price quotations 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, 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 for this bid is/are as follows:**

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
_____	_____ %
_____	_____ %
_____	_____ %

- 4. Does any portion of the services, works or goods offered have any imported content? 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 1.6 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date, one week (7 calendar days) prior to the closing date of the bid.

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

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

Indicate the rate(s) of exchange against the appropriate currency in the table below:

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

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

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

**IN RESPECT OF BID No.**

.....

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

.....  
 .

NB 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.

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

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that the goods/services/works to be delivered in terms of the above specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286.
- (c) The local content has been calculated using the formula given in clause 3 of SATS 1286, the rates of exchange indicated in paragraph 4.1 above and the following figures:

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

If the bid is for more than one product, a schedule of the local content by product shall be attached.

(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.

(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, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 13 of the Preferential Procurement



**T2.1 I CONTRACT FORM - PURCHASE OF GOODS/WORKS-MBD 7.1**

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

**PART 1 (TO BE FILLED IN BY THE BIDDER)**

1. I hereby undertake to supply all or any of the goods and/or works described in the attached bidding documents to (name of institution)..... in accordance with the requirements and specifications stipulated in bid number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the purchaser during the validity period indicated and calculated from the closing time of bid.
  
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance certificate;
    - Pricing schedule(s);
    - Technical Specification(s);
    - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
    - Declaration of interest;
    - Declaration of bidder's past SCM practices;
    - Certificate of Independent Bid Determination;
    - Special Conditions of Contract;
  - ii) General Conditions of Contract; and
  - iii) Other (specify)
  
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
  
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
  
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
  
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

<b>WITNESSES</b>
1. ....
2. ....
DATE: .....

**CONTRACT FORM - PURCHASE OF GOODS/WORKS**

**PART 2 (TO BE FILLED IN BY THE PURCHASER)**

1. I..... in my capacity as..... accept your bid under reference number .....dated.....for the supply of goods/works indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating delivery instructions is forthcoming.
3. I undertake to make payment for the goods/works delivered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice accompanied by the delivery note.

ITEM NO.	PRICE (ALL APPLICABLE TAXES INCLUDED)	BRAND	DELIVERY PERIOD	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

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

SIGNED AT ..... ON .....

NAME (PRINT) .....

SIGNATURE .....

OFFICIAL STAMP

WITNESSES

1. ....

2

**T2.1 J                      CONTRACT FORM – RENDERING OF SERVICES – MBD 7.2**

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

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

1. I hereby undertake to render services described in the attached bidding documents to (name of the institution)..... in accordance with the requirements and task directives / proposals specifications stipulated in Bid Number..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance certificate;
    - Pricing schedule(s);
    - Filled in task directive/proposal;
    - Preference claims for Broad Based Black Economic Empowerment Status Level of Contribution in terms of the Preferential Procurement Regulations 2011;
    - Declaration of interest;
    - Declaration of Bidder's past SCM practices;
    - Certificate of Independent Bid Determination;
    - Special Conditions of Contract;
  - ii) General Conditions of Contract; and
  - iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

<b>WITNESSES</b>
1. ....
2. ....
DATE: .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**CONTRACT FORM – RENDERING OF SERVICES**

**PART 2 (TO BE FILLED IN BY THE PURCHASER)**

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

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	B-BBEE STATUS LEVEL OF CONTRIBUTION	MINIMUM THRESHOLD FOR LOCAL PRODUCTION AND CONTENT (if applicable)

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

SIGNED AT ..... ON  
 .....

NAME (PRINT).....

SIGNATURE .....

OFFICIAL STAMP

WITNESSES

1.....

2.....

**T2.1 K CONTRACT FORM – SALE OF GOODS/WORKS – MBD 7.3**

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

**PART 1 (TO BE FILLED IN BY THE BIDDER)**

1. I hereby undertake to purchase all or any of the goods and/or works described in the attached bidding documents from (name of institution)..... in accordance with the requirements stipulated in (bid number)..... at the price/s quoted. My offer/s remain binding upon me and open for acceptance by the seller during the validity period indicated and calculated from the closing time of bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
  - i) Bidding documents, viz
    - Invitation to bid;
    - Tax clearance certificate;
    - Pricing schedule(s);
    - Declaration of interest;
    - Declaration of Bidder's past SCM practices;
    - Special Conditions of Contract;
  - ii) General Conditions of Contract; and
  - iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) quoted cover all the goods and/or works specified in the bidding documents; that the price(s) cover all my obligations and I accept that any mistakes regarding price(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.
5. I undertake to make payment for the goods/works as specified in the bidding documents.
6. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
7. I confirm that I am duly authorised to sign this contract.

NAME (PRINT) .....

CAPACITY .....

SIGNATURE .....

NAME OF FIRM .....

DATE .....

<b>WITNESSES</b>
1. ....
2. ....
<b>DATE:</b>
.....

**CONTRACT FORM – SALE OF GOODS/WORKS**

**PART 2 (TO BE FILLED IN BY THE PURCHASER)**

1. I..... in my capacity as.....  
 accept your bid under reference number .....dated.....for the purchase  
 of goods/works indicated hereunder and/or further specified in the annexure(s).
2. I undertake to make the goods/works available in accordance with the terms and conditions of the  
 contract.

ITEM NO.	DESCRIPTION	PRICE (ALL APPLICABLE TAXES INCLUDED)		

3. I confirm that I am duly authorized to sign this contract.

SIGNED AT ..... ON .....

NAME (PRINT) .....

SIGNATURE .....

OFFICIAL STAMP

WITNESSES

1. ....

2.....

**T2.1 L DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES- MBD 8**

<b>MBD 8</b>
--------------

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

Item	Question	Yes	No
4.1	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).  <b>The Database of Restricted Suppliers now resides on the National Treasury's website(<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) and can be accessed by clicking on its link at the bottom of the home page.</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
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)?  <b>The Register for Tender Defaulters can be accessed on the National Treasury's website (<a href="http://www.treasury.gov.za">www.treasury.gov.za</a>) by clicking on its link at the bottom of the home page.</b>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

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

**CERTIFICATION**

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

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

.....  
**Signature**

.....  
**Date**

.....  
**Position**

.....  
**Name of Bidder**

**T2.1 M CERTIFICATE OF INDEPENDENT BID DETERMINATION – MBD 9**

**MBD 9**

- 1 This Municipal Bidding Document (MBD) must form part of all bids<sup>1</sup> 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).<sup>2</sup> Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
- 3 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:
  - a. take all reasonable steps to prevent such abuse;
  - b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
  - c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.
- 4 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid:

<sup>1</sup> Includes price quotations, advertised competitive bids, limited bids and proposals.

<sup>2</sup> 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.

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

**CERTIFICATE OF INDEPENDENT BID DETERMINATION**

I, the undersigned, in submitting the accompanying bid:

\_\_\_\_\_  
(Bid Number and Description)

in response to the invitation for the bid made by:

\_\_\_\_\_  
(Name of Municipality / Municipal Entity)

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 consortium<sup>3</sup> 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;

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

- (b) geographical area where product or service will be rendered (market allocation)
  - (c) methods, factors or formulas used to calculate prices;
  - (d) the intention or decision to submit or not to submit, a bid;
  - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
  - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
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









**T2.2 OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION**

T2.2 A	CERTIFICATE OF AUTHORITY OF SIGNATORY .....	U.65
T2.2 B	CERTIFICATE OF REGISTRATION WITH THE CONSTRUCTION INDUSTRY DEVELOPMENT BOARD .....	U.69
T2.2 C	RECORD OF ADDENDA TO BID DOCUMENTS .....	U.74
T2.2 D	FORM OF INTENT TO PROVIDE A DEMAND GUARANTEE .....	U.75
T2.2 E	HEALTH AND SAFETY PLAN: DECLARATION BY BIDDER .....	U.76
T2.2 F	SCHEDULE OF PROPOSED SUB-CONTRACTORS.....	U.77
T2.2 G	QUALITY ASSURANCE PROGRAMME.....	U.80
T2.2 H	INSURANCE STATEMENT .....	U.81
T2.2 I	SCHEDULE OF AVAILABLE INFRASTRUCTURE AND RESOURCES .....	U.82
T2.2 J	FINANCIAL INFORMATION OF BIDDER .....	U.86
T2.2 K	COMMERCIAL EQUITY DECLARATION .....	U.88
T2.2 L	JOINT VENTURE DISCLOSURE FORM.....	U.90
T2.2 M	ALTERATIONS BY BIDDER.....	U.97
T2.2 N	AUDITED ANNUAL FINANCIAL STATEMENT FOR THE PAST THREE YEARS .....	U.98
T2.2 O	MUNICIPAL UTILITY ACCOUNT.....	U.99
T2.2 P	B-BBEE STATUS VERIFICATION CERTIFICATE.....	U.101

**T2.2 A CERTIFICATE OF AUTHORITY OF SIGNATORY**

Indicate the status of the Bidder by ticking the appropriate box hereunder. The Bidder must complete the certificate set out below for the relevant category.

A Company

B Partnership

C Joint Venture

D Sole Proprietor

E Close Corporation

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

**A. Certificate for company**

I, ....., chairperson of the board of directors of .....  
 ....., hereby confirm that by resolution of the board (copy  
 attached) taken on ..... 20....., Mr/Ms .....,  
 acting in the capacity of ....., was authorised to sign all  
 documents in connection with this bid and any contract resulting from it on behalf of the company.

As witnesses:

1. ....  
 .....  
 Chairman  
 .....  
 Print Name .....  
 Print Name

2. ....  
 .....  
 Date  
 .....  
 Print Name

**B. Certificate of partnership**

We, the undersigned, being the key partners in the business trading as .....  
 ....., hereby authorise Mr/Ms ....., acting in  
 the capacity of ....., to sign all documents in connection with  
 the bid for Contract ....., and any contract resulting from it on  
 our behalf.

Name	Address	Signature	Date

**NOTE:** This certificate is to be completed and **signed by each and all of the key partners** upon whom rests the direction of the affairs of the Partnership as a whole.

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**C. Certificate for Joint Venture**

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

This authorisation is evidenced by the attached power of attorney signed by legally authorised  
 signatories of all the partners to the Joint Venture.

Name of Firm	Address	Authorising	
		Signature	Name
Lead Partner			

**D. Certificate for sole proprietor**

I, ....., hereby confirm that I am the sole owner of  
 the business trading as  
 .....

.....

Signature: Sole Owner

Print Name

As witnesses:-

1. ....  
 Print Name Date

2. ....  
 Print Name Date

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

**E. Certificate for Close Corporation**

We, the undersigned, being the key members in the business trading as .....  
 ..... hereby authorise Mr/Ms ....., acting in  
 the capacity of ....., to sign all documents in connection with the bid  
 for Contract ..... and any contract resulting from it on our behalf.

Name	Address	Signature	Date

Note: This Certificate is to be completed and signed by each and all of the key members upon whom rests the direction of the affairs of the Close Corporation as a whole.

**T2.2 B CERTIFICATE OF REGISTRATION WITH THE CONSTRUCTION INDUSTRY  
DEVELOPMENT BOARD**

**1. General**

The Register of Contractors is established by the Construction Industry Development Board in terms of the CIDB Act 38 of 2000 and Construction Industry Development Regulations as published in Government Gazette number 26427 of 2004.

The Act makes it mandatory for public sector clients to apply this register when considering bids. Any enterprise that submits a bid or enters into contract for construction works with the public sector, must be registered.

Once-off joint ventures do not have to register, provided that each partner of the joint venture is separately registered.

**2. Status**

Bidders shall fill in the following sections of this form, depending on their status:

2.1 Section A

Bidders who have accomplished registration and can provide proof of their grading designation.

2.2 Section B

Bidders who are in the process of registration of an update to an existing registration or a renewal.

2.3 Section C

Bidders who have submitted the first application.

2.4 Section D

Bidders submitting this Bid offer in Joint Venture and can provide proof that each partner of the Joint Venture is separately registered.

**Note: Only complete one of Sections A, B, C or D.**

**SECTION A**

I, ..... acting in capacity of .....  
 was authorised to sign all documents in connection with this bid an any contract resulting from it on  
 behalf of the following entity: .....

hereby declare that the above mentioned entity has achieved registration with the Construction Indus-  
 try Development Board on date ..... and declare that the grading  
 designation is reflected in the following **symbols** on the registration certificate.

Contract Value	
----------------	--

Type of Work		
--------------	--	--

.....  
 Signature of Bidder

.....  
 Signature of Witness

.....  
 Print Name

.....  
 Print Name

**SECTION B**

I, ..... acting in capacity of ..... was authorised to sign all documents in connection with this bid and any contract resulting from it on behalf of the following entity: ..... hereby declare that the above mentioned entity has achieved registration with the Construction Industry Development Board on date ..... furthermore declare that the existing grading designation is:

Contract Value	
----------------	--

Type of Work		
--------------	--	--

and the following update has been applied for:

Amendment of Category Status	
Change of Particulars	
Annual Confirmation of Particulars	
Renewal of Registration	

mark with a "✓"

.....  
 Signature of Bidder

.....  
 Signature of Witness

.....  
 Print Name

.....  
 Print Name

**SECTION C**

I, ..... acting in capacity of .....  
was authorised to sign all documents in connection with this bid and any contract resulting from in/on  
behalf of the following entity: .....  
hereby declare that the above-mentioned entity has submitted its FIRST APPLICATION FOR  
REGISTRATION with the Construction Industry Development Board on date .....

I furthermore accept that failure to achieve registration with the Construction Industry Development  
Board in a category stipulated in the Bid Data within 10 days from the date of closing this bid, implies a  
non-responsive bid and warrants rejection of the Bid on account of non-compliance with the  
requirements of the Bid Data.

.....  
Signature of Bidder

.....  
Signature of Witness

.....  
Print Name

.....  
Print Name

**SECTION D**

I, ..... acting in capacity of the LEAD PARTNER in the Joint Venture

.....  
 . was authorised to sign all documents in connection with this bid and any contract resulting from it, hereby declare that each of the Joint Venture is separately registered with the Construction Industry Development Board and declare that the grading designation is reflected in the following **symbols** on the registration certificates:

Name of Lead Partner:		
Contract Value		
Type of Work		

Name of 2 <sup>nd</sup> Partner:		
Contract Value		
Type of Work		

Name of 3 <sup>rd</sup> Partner:		
Contract Value		
Type of Work		

.....  
 Signature of Bidder

.....  
 Signature of Witness

.....  
 Print Name

.....  
 Print Name

**T2.2 C RECORD OF ADDENDA TO BID DOCUMENTS**

We confirm that the following communications received from the Procuring Department before the submission of this Bid Offer, amending the Bid Documents, have been taken into account in this Bid Offer:

	<b>Date</b>	<b>Title or Details</b>
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**T2.2 D FORM OF INTENT TO PROVIDE A DEMAND GUARANTEE**

If my/our bid is accepted, I/we will, when required and within the time stipulated, provide a guarantee of

Insurance Company (name) .....

(of address) .....

.....

or

Commercial Bank (Name) .....

(Branch) .....

(of address) .....

.....

to be approved by you, the Employer, for the amount stipulated.

I/we understand that failure to produce an acceptable Demand Guarantee within the stipulated period is a fundamental breach of Contract, entitling the Employer to:

- (i) withhold all payments which may be due to the Contractor pending compliance with the stipulated requirements to produce an acceptable Demand Guarantee.
- (ii) instruct the Contractor to cease all work pending provision of the Demand Guarantee, and
- (iii) cancel the Contract.

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**T2.2 E HEALTH AND SAFETY PLAN: DECLARATION BY BIDDER**

I/we declare that we have read and understand the health and safety specifications contained in the Contract Data and undertake to:

- provide and demonstrate to the Employer a suitably and sufficiently documented health and safety plan, which shall be applied from the date of commencement of and for the duration of the construction work,
- appoint a full-time competent employee in writing as the Construction Supervisor from the date of commencement of and for the duration of construction work,
- appoint a full time/part time competent employee in writing as the Construction Safety Officer from the date of commencement of and for the duration of construction work.

I/we undertake to rectify all non-conforming conditions for which we are responsible. I/we accept that, should I/we not rectify these timeously, they will be corrected by the Employer and the cost subtracted from any amounts due to me/us in terms of the Contract Data.

I/we confirm that I/we am/are registered and in good standing with the Compensation Fund and our registration number is: .....

alternatively, my/our licensed compensation insurer is:

(Name) .....

(Address) .....

.....

To this effect, I/we attach proof of registration and good standing.

I/we certify that to the best of my/our knowledge and belief, the curricula vitae of our proposed key health and safety personnel cited hereinafter correctly describe their qualifications and experience.

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**T2.2 F SCHEDULE OF PROPOSED SUB-CONTRACTORS**

We notify you that it is our intention to employ the following Sub-Contractors 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 Sub-Contractors in accordance with requirements in the Contract for such appointments.

	<b>Name and Address of Proposed Sub-Contractor</b>	<b>Nature and Extent of Work</b>	<b>Previous Experience with Sub-Contractor</b>
1			
2			
3			
4			
5			

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**SUB-CONTRACTING UNDERTAKING**

LETTER OF UNDERTAKING TO PERFORM AS A SUB-CONTRACTOR  
(Copy as many as necessary)

Contract Number: .....

From: (Name and address of Sub-contractor)

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

To: (Name and address of Contractor)

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

The undersigned undertakes to \*perform work/provide services/supply goods in connection with the above Contract as a \*close corporation/sole proprietor/partnership/company and is prepared to perform in connection with the above-named Contract as Sub-contractor to the Contractor, the following \*work/provide the following services/supply the following goods:

**\*(delete that which is not applicable)**

.....  
.....

for an estimated amount of R..... excluding VAT, subject to the terms of any agreement made between us for the purpose of the Contract which agreement shall include the General Conditions of Contract and relevant Special Conditions that govern this Contract.

Signature: .....

Name: .....

Designation: .....

Date: .....

who duly warrants that he/she is authorised to sign this letter.

**SUB-CONTRACTING UNDERTAKING**

LETTER OF UNDERTAKING TO PERFORM AS A SUB-CONTRACTOR  
(Copy as many as necessary)

Contract Number: .....

From: (Name and address of Sub-contractor)

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

To: (Name and address of Contractor)

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

The undersigned undertakes to \*perform work/provide services/supply goods in connection with the above Contract as a \*close corporation/sole proprietor/partnership/company and is prepared to perform in connection with the above-named Contract as Sub-contractor to the Contractor, the following \*work/provide the following services/supply the following goods:  
**\*(delete that which is not applicable)**

.....  
.....

for an estimated amount of R..... excluding VAT, subject to the terms of any agreement made between us for the purpose of the Contract which agreement shall include the General Conditions of Contract and relevant Special Conditions that govern this Contract.

Signature: .....

Name: .....

Designation: .....

Date: .....

who duly warrants that he/she is authorised to sign this letter.

**T2.2 G QUALITY ASSURANCE PROGRAMME**

Bidder to submit details here below of his Quality Assurance Policy whereby he shall demonstrate that he has the following:

- (a) An Operating Quality Management System based on SABS/ISO 9001 : 2000 international standards, if not, state alternative.
- (b) Proof of Quality Assurance Co-ordination.
- (c) Proven technical capabilities and resources to ensure Quality Management.
- (d) A recent assessment/audit report on his Quality Management and Quality Control System(s).

Contractor's details with respect to items a), b), c) and d):

SIGNATURE OF BIDDER ..... DATE .....

.....  
Print Name of Signatory

ON BEHALF OF: ..... (the Bidder)

**T2.2 H INSURANCE STATEMENT**

**BIDDER'S DECLARATION OF INSURANCES**

I/We hereby declare that the insurances enumerated below have been effected by me/us.

I/We further declare that all premiums in respect of the insurances are fully paid up to date.

<b>Cover Effected</b>	<b>Insurer and Policy Number</b>	<b>Expiry Date</b>	<b>Limits of Indemnity / Sums Insured</b>	<b>Deductibles</b>
Contractor's All Risks				
Occupational Injuries and Diseases				
Unemployment Insurance				
Motor Vehicle Insurance				
Other:				

We submit herewith a letter of good standing from the Workman's Compensation Commissioner in respect of Occupational Injuries and Diseases Insurance.

Bidder: .....

.....  
 Signature of Bidder

.....  
 Print Name of Signatory

.....  
 Capacity





TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS

---

6. List a maximum of five contract which your enterprise is engaged in and has not yet completed

Contract Description	Location	Client	Contract Amount	Expected Completion (month & year)

7. List the four largest assignments completed by your enterprise in the last three years

Nature of Work Performed	Client	Consultant Contact Person	Telephone No.	Contract Amount

8. Address of workshop facilities from where maintenance of works will be undertaken

.....  
 .....

9. Address of Branch Offices in the RSA

.....  
 .....

10. Address of Nearest Representative to Polokwane

.....  
 .....

11. Has work previously been performed for the Employer? YES/NO\* - Specify

.....  
 .....

12. Bidder's Financial Ability to execute and complete the Works

Provide the estimated cash flow on the project in terms of submissions of payment certificates or payment schedules of the Employer.

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY**  
**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT**  
**ELTIVILLAS**

---

**NOTES APPLICABLE:**

- (i) Value added tax to be included in all amounts
- (ii) Assume for the purpose of this estimate, payment of certificates within 30 days after receipt by the Employer.
- (iii) In calculation of the last column,
 

$j = d$	$m = l + g$
$k = j + e$	$n = m + h$
$l = k + f$	etc
- (iv) Failure to detail the required information, shall automatically signify that the Bidder lacks the infrastructure and resources necessary to execute and complete the Works.

Month No. in Contract Period	Estimated amount in Rands (VAT included)			
	a Received	b Payments made	a-b Net cash flow	Cumulative cash flow
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
Maximum negative cash flow. Take the largest negative number in the last column and write in here → → → → →				

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

**T2.2 J FINANCIAL INFORMATION OF BIDDER**

This information sheet has to be filled in by the financier of the Bidder, duly signed and stamped on behalf of the financial institution he represents.

**Bidder / Bid Details**

Bid Description : .....

Contract Period : .....

Name of Bidder : .....

Bank Account Number : .....

Bidding Amount : .....

Demand Guarantee will be provided by this Bank: YES  NO

If yes, state amount of Demand Guarantee: R .....

**Financial Institution**

Name of Commercial Bank : .....

Branch : .....

Name of Bank Manager : .....

Telephone Number : .....

I / We acting on behalf of the above Commercial Bank confirm that  
 ..... (Bidder)

has operated an account with us for the last ..... years.

We have been requested to provide a bank rating based in relation to the financial capability of the Bidder, taking into account directives set out in the following two tables.

**Financial Capability**

Maximum value of contract that the Bidder is considered capable of	Value on which Bank Rating must be used
up to R300 000	R24 000
R1 000 000	R78 000
R3 000 000	R240 000
R5 000 000	R480 000
R10 000 000	R900 000
R30 000 000	R2 400 000
R100 000 000	R7 800 000

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

<b>BANK RATING</b>	
<b>Bank Code</b>	<b>Description of Bank Code</b>
A	Undoubted for the amount of enquiry
B	Good for the amount of enquiry
C	Good for the amount quoted if strictly in the way of business
D	Fair trade risk for amount of enquiry
E	Figures considered too high
F	Financial position unknown
G	Occasional dishonours
H	Frequent dishonours

The value on which our Bank Rating of the Bidder is based is R.....

(In words ..... only)

**The Bank Rating is code:** .....

.....  
 Signature: Manager Financial Institution

.....  
 Print Name

.....  
 Date

**RUBBER STAMP OF INSTITUTION**



**T2.2 K COMMERCIAL EQUITY DECLARATION**

**1. General**

The Employer considers the information contained in this Declaration as a material aspect of the Contract. Should there, during the duration of either the bid enquiry or contract, be any significant change in the equity situation of the Bidder, the Employer shall immediately be notified and the Employer will, in terms of the Contract Data, exercise its rights.

**2. Name of Bidder** .....

**3. Type of enterprise e.g. Sole proprietor, partnership, CC, Pty, JV, etc** .....

**4. Details of Firm:**

Name of Company: .....

Street Address: .....

Postal Address: .....

Tel. Number: (Code) ..... (Number) .....

Fax Number: (Code) ..... (Number) .....

Contact Person: .....

Company Registration No. ....

Income Tax Registration No. ....

VAT Registration No. ....

Number of years in Business: .....

Founding Date of Firm: .....

**5. List all equity owners**

Name	M/F	PDI (Y/N)	D (Y/N)	% Equity owned	ID Number

Attached registration documents and shareholders agreements.

PDI (Previously Disadvantaged Individuals). If disabled indicate under D.

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**6. Did the enterprise exist under a previous name? (Tick one box)**

Yes                       No

If yes:

What was its previous name? .....

Why did it change its name? .....

List the previous owners/partners/directors .....

.....  
 .....

**7. Identify by name, status and length of service, those individuals in the enterprise (including owners) responsible for day-to-day management and business decisions.**

Financing decisions	Name	Status (Yes/No)*			Length of service (years)
		PDI	Women	Disabled	
Cheque signing					
Signing and co-signing of loans					
Acquisition of lines of credit					
Demand & Retention Guarantees					
Major Purchases or acquisitions					
Signing contracts					

Management decision	Name	Status (Yes/No)*			Length of service (years)
		PDI	Women	Disabled	
Estimating					
Marketing and sales operations					
Hiring & firing of management personnel					
Hiring & firing of non-management personnel					
Supervision of office personnel					
Supervision of field/production activities					

\*State Yes or No                      Attach separate list, if necessary.

I (1), ..... and (2) ..... (names), hereby certify that, to the best of our knowledge, the information, facts and representations are correct and that we are duly authorised to sign on behalf of the Bidder.

Date: .....

Signature: (1)..... (2) .....

**T2.2 L JOINT VENTURE DISCLOSURE FORM**

Employer: .....

Contract Number: .....

NOTE 1 This form need only be completed in the event of a Joint Venture submitting this bid.

NOTE 2 Fill in all the information requested in the spaces provided. Attach additional sheets if required.

NOTE 3 Provide a copy of the Joint Venture agreement. Demonstrate that the partners to the Joint Venture share in the ownership, control, management responsibilities, risks and profits of the Joint Venture. The Joint Venture agreement shall include specific details relating to:  
a) the contributions of capital and equipment;  
b) portions of the Contract to be performed by the partner's own resources; and  
c) portions of the Contract to be performed under the supervision of each partner.

NOTE 4 Provide copies of all written agreements between partners concerning the Joint Venture, including those that relate to ownership options and to restrictions/limits regarding ownership and control.

**1. Joint Venture Particulars**

Name .....

Postal Address .....

Physical Address .....

.....

Telephone .....

Fax .....

Name of authorized representative .....

**2. Identity of Partner No. 1**

Name .....

Postal Address .....

Physical Address .....

.....

Telephone .....

Fax .....

Contact Person .....

**3. Identity of Partner No. 2**

Name .....

Postal Address .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

Physical Address .....

.....

Telephone .....

Fax .....

Contact Person .....

**4. Identity of Partner No. 3**

Name .....

Postal Address .....

Physical Address .....

.....

Telephone .....

Fax .....

Contact Person .....

**5. Description of the role of the partners in the joint venture**

Partner No. 1: .....

.....

Partner No. 2: .....

.....

Partner No. 3: .....

.....

**6. Ownership of the joint venture**

(i) Ownership percentage(s) Partner No. 1 ..... %  
Partner No. 2 ..... %  
Partner No. 3 ..... %

(ii) Partner percentage in respect of:

a) Profit and loss sharing: Partner No. 1 ..... %  
Partner No. 2 ..... %  
Partner No. 3 ..... %

b) Initial capital contribution Partner No. 1 R.....  
Partner No. 2 R.....

Partner No. 3 R.....

(iii) Anticipated ongoing capital contributions:

Partner No. 1 R.....

Partner No. 2 R.....

Partner No. 3 R.....

(iv) Contributions of equipment (specify types, quality and quantities of equipment) to be provided by each partner:

Partner No. 1 .....

.....

Partner No. 2 .....

.....

Partner No. 3 .....

.....

**7. Recent contracts performed by partners in their own right or as partners in other joint ventures**

a) Partner No. 1

(i) .....

(ii) .....

(iii) .....

(iv) .....

(v) .....

b) Partner No. 2

(i) .....

(ii) .....

(iii) .....

(iv) .....

(v) .....

c) Partner No. 3

(i) .....

(ii) .....

(iii) .....

- (iv) .....
- (v) .....

**8. Control and participation in the joint venture**

(Identify by name and firm those individuals who are, or will be, responsible for, and have authority to engage in the relevant management functions and policy and decision making, indicating any limitations in their authority, for example, co-signature requirements and monetary limits).

- a) Joint Venture cheque signing  
.....  
.....
- b) Authority to enter into contracts on behalf of the Joint Venture  
.....  
.....
- c) Signing, co-signing or collateralizing of loans  
.....  
.....
- d) Acquisition of lines of credit  
.....  
.....
- e) Acquisition of demand bonds  
.....  
.....
- f) Negotiating and signing of labour agreements  
.....  
.....

**9. Management of the performance of the Contract**

(Fill in the name and firm of the responsible person)

- a) Supervision of field operations .....
- b) Major purchasing .....
- c) Estimating .....
- d) Technical management .....

**10. Management and control of the joint venture**

- a) Identify the managing partner  
.....  
.....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

- b) What authority does each partner have to commit or obligate the other to financial institutions, insurance companies, suppliers, subcontractors or other parties participating in the performance of the contemplated works:

Partner No. 1: .....

.....

Partner No.2: .....

.....

Partner No. 3: .....

.....

- c) Describe the management structure for the joint venture's work under this Contract:

Management Function/Designation	Name	Partner

**11. Personnel**

- a) State the approximate number of operative personnel (by trade/function/discipline) needed to execute the Joint Venture contract.

Trade/function/discipline	Number

- b) State the number of operative personnel to be employed on the Contract who are currently in the employ of partners:
- .....

- c) State the number of operative personnel who are not currently in the employ of the respective partners and shall be engaged on the project by the Joint Venture:
- .....

- d) State the name of the individual who shall be responsible for hiring Joint Venture employees:
- .....

- e) State the name of the partner who shall be responsible for the preparation of Joint Venture payrolls:
- .....

**12. Services**

List the firms who provide the following services:

Service	Name	Contact Person	Tel. No.
Accounting			
Auditing			
Banking			
Insurance			
Legal			

**13. Control and structure of the Joint Venture**

Briefly describe the manner in which the Joint Venture is structured and controlled.

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

The undersigned warrants that he/she is duly authorised to sign this Joint Venture disclosure form and affirms that the foregoing statements are correct and include all the material information necessary to identify and explain the terms and operations of the Joint Venture and the intended participation of each partner in the undertaking.

The undersigned further covenants and agrees to provide the Employer with complete and accurate information regarding actual joint venture work and the payment therefore, and any proposed changes in any provisions of the Joint Venture Agreement, and to permit the audit and examination of the books, records and files of the Joint Venture, or those of each partner relevant to the Joint Venture, by duly authorized representatives of the Employer.

Duly authorized to sign on behalf of: .....  
 ..... **(the Joint Venture)**

Signature: ..... Print Name: .....

Name: .....

Address: .....  
 .....

Telephone: .....

Date: .....

Duly authorized to sign on behalf of: .....  
 ..... **(Partner No. 1)**

Signature: ..... Print Name: .....

Name: .....

Address: .....  
 .....

Telephone: .....

Date: .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

Duly authorized to sign on behalf of: .....

..... (**Partner No. 2**)

Signature: ..... Print Name: .....

Name: .....

Address: .....

Telephone: .....

Date: .....

Duly authorized to sign on behalf of: .....

..... (**Partner No. 3**)

Signature: ..... Print Name: .....

Name: .....

Address: .....

Telephone: .....

Date: .....

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

**T2.2 M ALTERATIONS BY BIDDER**

Should the Bidder desire to make any departures from or modifications to the “Bid” or “Contract”, or to qualify his bid in any way, he shall set out his proposals clearly hereunder or alternatively state them in a covering letter attached to his bid and referred to hereunder, failing which the bid will be deemed to be unqualified.

Page	Item of Clause	Details	Cost Involved (R)

Signed ..... Date .....

Print Name ..... Position .....

Bidder .....

**T2.2 N AUDITED ANNUAL FINANCIAL STATEMENT FOR THE PAST THREE YEARS**

**ATTACH AUDITED FINANCIAL STATEMENTS**

**T2.2 O MUNICIPAL UTILITY ACCOUNT**

**DECLARATION BY THE TENDERER**

I the undersigned \_\_\_\_\_, has  
been duly authorized to sign all documents with the Bid Number  
\_\_\_\_\_ on behalf of \_\_\_\_\_  
hereby make a declaration as follows:(referred to herein as “the Bidder”)

1. I declare that the bidder and /or any of its director(s) / member(s) does not owe the municipality, or any other municipality and/or municipal entity any amount which is in arrears in respect of any municipal rates and taxes or municipal service charges.
  
2. I understand and accept that in the event that this declaration is proved to be false, the bid shall be rejected forthwith. All other rights of the municipality (including but not limited to the right to claim damages where applicable) shall remain reserved in full.

SIGNED ON BEHALF OF THE COMPANY

\_\_\_\_\_

IN HIS CAPACITY AS

\_\_\_\_\_

DATE

\_\_\_\_\_

FULL NAMES OF SIGNATORY

\_\_\_\_\_

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
ELTIVILLAS**

---

<b>UTILITY ACCOUNT NUMBER</b>	<b>NAME OF MUNICIPALITY</b>	<b>NAME OF OWNER</b>

**ATTACH AN ORIGINAL A CERTIFIED COPY OF A MUNICIPAL  
UTILITY ACCOUNT (NOT OLDER THAN THREE (3) MONTHS)**

**Important: Note the following**

- List Account(s) registered either in the name(s) of the Director(s) or the Company on the declaration form attached hereto.
- Attach Municipal Utility account of Company's registered office (if applicable) and in case of leased premises, attach lease agreement and the services account of leased premises. (issued in the name of the bidding company)

**T2.2 P B-BBEE STATUS VERIFICATION CERTIFICATE**

**ATTACH AN ORIGINAL OR CERTIFIED COPY OF B-BBEE STATUS  
VERIFICATION CERTIFICATE**

**NOTE THE FOLLOWING IN RESPECT OF B-BBEE CERTIFICATES:**

1. Certificates attached hereto should be those issued by approved verification agencies as directed by the National Treasury and the DTI ( Department of Trade and Industry)
2. Verification agencies should be approved by SANAS and Accounting Officers and Auditors should be approved in terms of the IRBA (Independent Regulatory Body for Auditors), and as prescribed by the Close Corporations Act for designation as an Accounting Officer
3. Certified copies of the B-BBEE certificate should be within the financial year of the issued bid or quotation.

Further information in respect of the above is obtainable from the National treasury and DTI websites and the Preferential Procurement Regulations, 2011

**T2.3      RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO  
            THE CONTRACT**

T2.3 A      PROJECT PROGRAMME AND METHOD STATEMENT .....U.103  
T2.3 B      SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE.....U.104  
T2.3 C      RATES FOR SPECIAL MATERIALS .....U.105

**T2.3 A PROJECT PROGRAMME AND METHOD STATEMENT**

Tenderer to supply project programme, using acceptable software, in sufficient detail to cover the various facets of the work.

This programme is to be supported by a method statement indicating the tenderer's proposed work plan for the construction of the works.

SIGNED ON BEHALF OF TENDERER:.....

**Note to Tenderer**

**If a tenderer wishes to submit an alternative tender then this form, appropriately completed, shall be attached to the bill of quantities for the alternative proposal.**

**TENDER No:58 of 2021 ..... MAKHADO LOCAL MUNICIPALITY  
 COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT  
 ELTIVILLAS**

---

**T2.3 B SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE**

The tenderer shall state his estimated value of the work to be completed every month, based on his preliminary programme and his tendered unit rates, in the table below. The amounts for contingencies and contract price adjustment shall not be included.

<b>MONTH</b>	<b>VALUE (INCLUDING VAT)</b>
1	R
2	R
3	R
4	R
5 (FINAL)	R
<b>TOTAL: R.....</b>	
<b>(EXCLUDING CONTINGENCIES AND CONTRACT PRICE ADJUSTMENT)</b>	

SIGNED ON BEHALF OF TENDERER: .....



# **MAKHADO MUNICIPALITY**

**TENDER NO.: 58 of 2021**

**COMMISSIONER AND MAIN STREET INTERSECTION  
REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

## **THE CONTRACT**

PART C1.....AGREEMENT AND CONTRACT DATA

PART C2.....PRICING DATA

# MAKHADO MUNICIPALITY

## **PART C1: AGREEMENT AND CONTRACT DATA**

- C1.1 FORM OF OFFER AND ACCEPTANCE
- C1.2 AGREEMENT IN TERMS OF THE OCCUPATIONAL  
HEALTH AND SAFETY ACT 85 OF 1993 AND APPOINTMENT AS MINE  
MANAGER IN TERMS OF SECTION 3(1)A OF MINE HEALTH AND  
SAFETY ACT 29 OF 1996
- C1.3 PERFORMANCE GUARANTEE
- C1.4 ABSTRACTS OF THE MINE AND SAFETY ACT NO.29 OF 1996 AND  
AMENDMENT ACT NO.72 OF 1997
- C1.5 CONTRACT DATA

# MAKHADO MUNICIPALITY

TENDER NO.: 58 of 2021

## COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

### C.1.1 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: **TENDER NO.: 58 of 2021. COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS.** The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the tender schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of 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 PRICE INCLUSIVE OF VALUE ADDED TAX IS (CONTRACT PRICE)

.....  
.....

R a n d ( i n w o r d s ) ; R ( i n f i g u r e s )

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

Signature(s) .....

Name(s) .....

Capacity .....

for the tenderer .....  
(Name and address of organization)

Name of Witness ..... Signature Date .....

## Acceptance

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

The terms of the contract are contained in:

PART C1 Agreements and contract data, (which includes this agreement)

PART C2 Pricing data

PART C3 Scope of work

PART C4 Site information

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

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule, which must be signed by the authorised representative(s) of both parties.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one copy of the fully signed original document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

Signature(s) .....  
Name(s) .....  
Capacity .....

for the Employer.....  
(Name and address or organization)

Name of Witness ..... Signature .....

Date

**For the Contractor:**

Signature(s) .....

Name(s)

Capacity

.....  
(Name and address of organization)

Name of Witness ..... Signature .....

Date

# MAKHADO MUNICIPALITY

TENDER NO.: 58 of 2021

## COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

### C.1.2 Agreement in terms of the occupational Health & Safety Act

This AGREEMENT made at ..... on this ..... day of ..... in the year ..... between MAKHADO MUNICIPALITY (hereinafter called “the Employer” on the one part, herein represented by ..... in his capacity as ..... And delegate of the Employer and ..... (hereinafter called “the Principal Contractor”) of the other part, herein represented by ..... in his capacity as.....

WHEREAS the Employer is desirous that certain works be constructed, as stated for in Bid No For (description of contract) .....

..... in the District of Limpopo Province and has accepted a tender by the Principal Contractor for the construction, completion and maintenance of such works and whereas the Employer and the Principal Contractor have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Principal Contractor with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993 and the Construction Regulation, February 2014):

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. The Principal Contractor 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 of a written notice from the employer or engineer requiring him to commence the execution of the Works, to either:
  - a) The date of the final certificate issued in terms of clause 6.10 of the General Conditions of Contract for Construction Works 2015 (3<sup>rd</sup> Edition) as issued by the South African Institution of Civil Engineering (hereinafter referred to as “the GCC 2015”), as contained in the contract documents pertaining to this contract, or
  - b) The date of termination of the contract in terms of clauses 9.1, 9.2 or 9.3 of the GCC 2015.
3. The Principal Contractor declares himself to be conversant with the following:-
  - a) All 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.

- 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.
    - v. Construction Regulations 2014, and other safety regulations, as applicable.
  - b) The procedures and safety rules of the employer as pertaining to the Principal Contractor and to his sub-contractors.
4. The Principal Contractor is responsible for the compliance with the Act by his sub-contractors, whether or not selected and/or approved by the employer.
  5. The Principal Contractor warrants that all his and his sub-contractors' employees (permanent and temporary) are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993 which cover shall remain in force whilst any such employees are present on site. The Principal Contractor shall submit a written report to this effect at each Progress Site Meeting
  6. The Principal Contractor undertakes to ensure that he and/or his sub-contractors and/or their respective employees will at all times comply with the following conditions:
    - a) The Principal Contractor shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Principal contractor shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Principal contractor obtains such approval and delegates any duty in terms of Section 16.2, a copy of such written delegation shall immediately be forwarded to the Employer.
    - b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Principal Contractor to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
    - c) The Employer hereby obtains an interest in the issues of any formal enquiry conducted in terms of Section 32 of the Occupational Health and Safety Act into any incident involving the Principal Contractor and/or his employees and/or his sub-contractors.

Further to the above mentioned, where contracts involve quarries or borrow pits, the following shall be applicable:-

In terms of Section 3(1)(a) of the Mine Health and Safety Act of 1996, The Roads Agency Limpopo (Pty) Ltd. shall appoint a manager for its mine/s.

You are hereby appointed as the mine manager for  
 ..... , with effect from .....  
 until further notice.

In terms of this appointment you are charged with the functions, duties and

responsibilities imposed by the aforementioned Act and its regulations. Without derogating from the duties, functions and responsibilities imposed by this legislation, you are to:

- i) Control, manage and direct employees at the Mine (borrow pit or quarry).
- ii) Take all reasonable measures to ensure the health and safety of employees and proper discipline at the Mine.
- iii) Take all reasonable measures to ensure that the provisions of the Mine Health and Safety Act and its regulations (as may be amended from time to time) are implemented and adhered to at the Mine.
- iv) Ensure and maintain a healthy and safe mine environment for all persons.
- v) Ensure an adequate supply of health and safety equipment and facilities.
- vi) Staff the Mine, with due regard to health and safety.
- vii) Provide health and safety training as far as reasonably practicable to all employees.
- viii) Initiate, prepare and implement codes of practice, relating to health and safety.
- ix) Maintain an effective risk identification and management system.
- x) Ensure the effective maintenance of hazard identification and medical monitoring records.
- xi) Prepare and or review the Health and Safety Policy for the Mine.
- xii) Ensure that an annual medical report is compiled at the Mine, and forwarded to the owner or the appointed owner representative of the Mine.
- xiii) Ensure compliance with relevant environmental legislation.
- xiv) Assist with implementation and maintenance of the Makhado Municipality SHE Management Standards, the Contractor's Compliance Pack and operational procedures.
- xv) Enhance a culture of high performance in safety and health.

You are to appoint the prescribed persons to assist you in your duties and functions, and you are hereby authorised and obliged to take all reasonable measures to comply with legislative requirements. You are to ensure that an acting mine manager is appointed when you are to be absent, or on leave for a period longer than five (5) days.

Instructions and procedures are from time to time issued by the board of Makhado Municipality, and it will be your responsibility to ensure the implementation and adherence to these instructions and procedures at the Mine.

You are further responsible to ensure that relevant environmental legislative requirements are complied with, including the implementation of all internal

procedures and systems to ensure compliance with such legislation.  
It would be the responsibility of yourself to report any shortcomings, in relation to the implementation of applicable legislation which you are unable to rectify, immediately in writing to the appointed owner representative.

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

**SIGNED FOR ON BEHALF OF THE EMPLOYER/SECTION 4.1 APPOINTEE**

.....

WITNESS: 1 ..... 2 .....

NAME .....

(IN CAPITALS) 1 ..... 2 .....

.....

DATE:

**SIGNED FOR AND ON BEHALF OF THE PRINCIPAL CONTRACTOR/MINE  
MANAGER**

.....

WITNESS: 1 ..... 2. ....

NAME .....

(IN CAPITALS) 1 ..... 2 .....

.....

DATE:

Copy to: The Chief Inspector - Department of Minerals and Energy

# MAKHADO MUNICIPALITY

## C.1.3 Performance guarantee

I/We, the undersigned, .....

.....

.....

acting herein in my/our capacity as

.....

..... and as such duly authorized  
to represent

..... (Hereinafter  
referred to as "the Guarantor") (in the case of a Company a resolution to be attached) do hereby  
bind the said Guarantor for the

obligations of .....  
(hereinafter referred to as "the Contractor") in terms of the above-mentioned Contract between the  
Municipal Manager of Makhado Municipality Limpopo and the said Contractor, and/or for the refund  
by the Contractor of any excess payments to the Contractor not due and which cannot be recovered  
from the amount of the retention money to the credit of the Contractor in terms of Clauses 7 and 49 of  
the General Conditions of Contract 2010, and do further bind the Guarantor as surety and co-principal  
debtor with the Contractor for any other amounts which may become payable to the said Municipal  
Manager from any cause whatsoever arising from the insolvency of the Contractor.

The Guarantor's liability in terms hereof shall be limited to the sum of R .....  
((..... %) of the contract amount) which amount I/we agree to hold at your disposal.

I/we declare that I/we on behalf of the Guarantor am/are fully acquainted with the terms and  
conditions of the said contract

and the Guarantor undertakes to pay the said amount of R

.....  
or such portion thereof as may be demanded immediately on receipt of a written demand from you in  
terms of the General Conditions of Contract 2015. A certificate under your hand shall be sufficient and  
satisfactory evidence as to the amount of the Guarantor's liability for the purpose of enabling  
provisional sentence or any similar relief to be obtained against the Guarantor.

It is recorded that this guarantee shall remain in force until all moneys which might become due and  
payable by the Contractor to the Municipal Manager have been paid and you or the said Municipal  
Manager shall always be entitled without your or the Municipal Manager's rights being affected, to  
release securities, to give time, to compound or to make any other arrangements with the  
Contractor, and any alteration or variation of the said Contract shall in no way release the Guarantor  
from liability in terms of this Guarantee.

This Guarantee is neither negotiable nor transferable, and must be surrendered to the Guarantor  
in the event of the full amount of the Guarantee being paid to your Municipality.

This Guarantee shall lapse upon the issue of the Completion Certificate in terms of the General  
Conditions of Contract 2015.

SIGNED at..... on the..... day of .....20 .....

AS WITNESSES:

1.

GUARANTOR

ADDRESS: .....

.....

2 . .....

ADDRESS: .....

.....

# MAKHADO MUNICIPALITY

## C.1.4 Form agreement in terms of the Mine Health & Safety Act

**EXAMPLE FOR USE BY CONTRACTOR WHEN APPOINTING SUB-ORDINATES IN TERMS OF THE MINE HEALTH AND SAFETY ACT (1996) AS AMENDED. (To be printed on Contractors letter head)**

**APPOINTMENT AS COMPETANT PERSON IN CHARGE OF MACHINERY IN TERMS OF REGULATION 2.13.2 IN FORCE IN TERMS OF SCHEDULE 4 OF THE MINE HEALTH AND SAFETY ACT (ACT NO. 29 OF 1996) AS AMENDED BY THE HEALTH AND SAFETY AMENDEMENT ACT (ACT NO. 72 OF 1997)**

I, ..... in my capacity as ....., having been appointed in terms of **Section 3(1)** of the Act (as amended), by the Senior General Manger: Engineering, who is our client, 'Makhado Municipality' and owner of the Mine(s) to be worked under the requirements of the above mentioned Acts hereby, in terms of **Regulations 2.13.2** of the Act as amended, appoint ..... as Competent Person in charge of machinery for the Contractor, ..... of address ..... and contact number, ..... on all contracts in the Limpopo Province that are undertaken by the contractor.

You are to report any accident to the mine manager immediately and personally visit the scene of the accident without delay.

You must familiarise yourself with the Mine Health and Safety Act and the Minerals Act and the Regulations and ensure that you have a copy in your possession and you must take all reasonable measures to ensure that the provisions of this Act are complied with.

Your attention are further drawn to Regulation 2.13.4.1 as well as the requirements of Chapter 18,20 and 21.

Please confirm this appointment by signing at the bottom.

SIGNED: ..... DATE:.....  
NAME: .....

SIGNED: ..... DATE:.....  
NAME: .....

## MAKHADO MUNICIPALITY

### C.1.5 Abstracts of the Mine Health and Safety Act No.29 of 1996 and amendment Act No.: 72 Of 1997

#### DEFINITIONS:

Section 102 of the Mine Health and Safety Act refers. "mine" means, when –

a. "used as a noun-

- i. any borehole, or excavation, in any tailing or in the earth, including the portion of the earth that is under the sea or other water, made for the purpose of searching for or winning a mineral, whether is being worked or not, or
- ii. any other place where a mineral deposit is being exploited, including the mining area and all buildings, structures, machinery, mine dumps, access roads or objects situated on or in that area that are used or intended to be used in connection with searching, winning, exploiting or processing of a mineral, or for health and safety purposes. But, if two or more excavations, boreholes or places are being worked in conjunction with one another
- iii. a works; and

b) used as a verb, the making of any excavation or borehole referred to in paragraph (a) (i), or the exploitation of any mineral deposit in any other manner, for the purpose of winning a mineral including prospecting in connection with the winning of a mineral.

- i. whether that substance is in solid, liquid or gaseous form;
- ii. that occurs naturally in or on the earth, in or under water or in tailings, and
- iii. that has been formed by or subjected to a geological process.

"processing" means the recovering, extracting, concentrating, refining, calcimining, classifying, crushing, milling, screening, washing, reduction, smelting or gasification or any mineral, and "process" has a similar meaning

"works" means any place, excluding a mine, where any person carries out-

- a). The transmitting and distributing to another consumer of any form of power from a mine, by the owner thereof, to the terminal point of bulk, to the power supply meter on any such other consumer's premises, or
- b). Training at any central rescue station, or
- c). The making, repairing, re-opening or closing of any subterranean tunnel, or
- d). Any operations necessary in connection with any of the operational listed in this paragraph.

# MAKHADO MUNICIPALITY

## C.1.6 Contract data

### C.1.6.1 Conditions of Contract

The Conditions of Contract are:

- the “General Conditions of Contract” as they appear in the commercially-available publication “General Conditions of Contract for Construction Works, Third Edition, 2015”, hereinafter referred to as “GCC 2015”; and
- specific data as contained in this Contract Data.

Each party to the Contract shall purchase its own copy of the GCC 2015 that applies to this Contract, available from its publisher:

South African Institution of Civil Engineering  
Private Bag X200  
Halfway House  
1685  
South Africa

Tel +27 (0)11 805 5947

### The following Notes apply:

#### Note 1

The GCC 2015 makes several references to the Contract Data.

Each item of data below is cross-referenced to the clause in the Conditions of Contract to which it applies. Notwithstanding anything specified to the contrary, the Contract Data shall take precedence in the interpretation of any ambiguity or inconsistency between it and the GCC 2015.

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purpose of interpretation, the priority of the documents shall be in accordance with the following order of precedence:

- (a) The Form of Offer and Acceptance.
- (b) Amendments to the General Conditions of Contract within the Contract Data.
- (c) Additional conditions to the General Conditions of Contract within the Contract Data.
- (d) Corrigenda to the General Conditions of Contract.
- (e) The General Conditions of Contract.
- (f) The Specifications, Drawings, Schedules and other documents forming part of the Contract (in that order) contained in the Scope of Work and the Site Information.

If any ambiguity or discrepancy is found in the documents, the Engineer needs to be contacted to issue any necessary clarification or instruction.

## Note 2

Certain pro-forma forms and pro-forma agreements contained in the GCC 2015 have been adapted for this particular contract. Those pro-forma forms and pro-forma agreements contained in the GCC 2015 do not apply where replaced by similar pro-forma forms and pro-forma agreements in this document.

### C.1.6.2 Contract-specific Data

The following contract-specific data, referring to the General Conditions of Contract, are applicable to this Contract:

#### C.1.6.2.1 Compulsory Data

Clause	Data
1.1.1.13	The Defects Liability Period is <b>12 months</b>
1.1.1.14	The time for achieving Practical Completion is <b>6 months</b>
1.1.1.15	The name of the Employer is Makhado Municipality
1.1.1.26	The Pricing Strategy of a Re-measurement Contract shall apply
1.2.1.2	The address of the Employer is: Makhado Local Municipality  Physical address:  Postal address: Private Bag X2596 Louis Trichardt 0920  e-mail address: <a href="mailto:manager@makhado.gov.za">manager@makhado.gov.za</a>  Contact numbers: Corporate: (015) 519 3000 Direct: Fax: (015) 516 1198
1.1.1.16	The name of the Engineer is: Voningela Consulting Projects

Clause	Data
1.2.1.2	<p>The address of the Engineer is:</p> <p>Physical address:</p> <p>531 Section E, Giyani, 0826</p> <p>P.O. Box 1020, Giyani, 0826</p> <p>Tel: 083 328 2060</p> <p>E-mail: vsono@voningelaconsulting.co.za</p>
3.1.3	<p>The Engineer is required to obtain the specific approval of the Employer in order to authorize any expenditure in excess of the Tender Sum.</p>
4.9.1	<p>The Contractor shall deliver to the Engineer, on a monthly basis, a detailed inventory of Construction Equipment kept on Site, full particulars given for each day of the month. Distinction shall be made between Owned Equipment and Hired Equipment as well as Equipment in working order and Equipment out of order. Such inventory shall be submitted by the seventh day of the month following the month to be reported.</p>
4.10.2	<p>The Contractor shall deliver to the Engineer, on a monthly basis, a return in detail of supervisory staff and the number of categorized classes of labour employed each day for the said period by the Contractor for execution of the Contract. Such return shall be submitted by the seventh day of the month following the month to be reported.</p>
5.3.1	<p>The documentation required before commencement with Works execution are:</p> <ul style="list-style-type: none"> <li>• Health and Safety Plan (Refer to Clause 4.3)</li> <li>• A signed Agreement between the Employer and the Contractor for the Works to be completed by the Contractor in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act (Act No.85 of 1993) and the Construction Regulations promulgated thereunder (Refer to Clause 4.3).</li> <li>• Proof of payment to the Employer, that the Contractor has paid all contributions required in terms of the Compensation for Occupational Injuries and Diseases Act, No 130 of 1993 (Refer to Clause 4.3).</li> <li>• Initial programme (Refer to Clause 5.6).</li> <li>• Security (Refer to Clause 6.2).</li> <li>• Insurance (Refer to Clause 8.6).</li> </ul>
5.3.2	<p>The time to submit the documentation required before commencement with Works execution is <b>14 Days</b>.</p>
5.4.2	<p>The access and possession of Site shall not be exclusive to the Contractor but shall be as set out elsewhere in the Contract.</p>

Clause	Data
5.8.1	<p>The non-working Days are Sundays.</p> <p>The special non-working Days are:</p> <ul style="list-style-type: none"> <li>a) Public holidays; and</li> <li>b) All annual year-end shutdown periods as recommended by the South African Federation of Civil Engineering Contractors (SAFCEC), and which commence after the Commencement Date and which commence before the Due Completion Date.</li> </ul>
5.13.1	<p>The penalty for failing to complete the Works is <b>R3,000</b> per calendar day to a maximum as determined by the Client from time to time.</p>
5.16.3	<p>The latent defect period is 1 years, commencing on the Day after the date of certification of Practical Completion.</p>
6.10.1.5	<p>The percentage advance on materials not yet built into the Permanent Works is 80%. Proof of ownership is required.</p>
6.10.3	<p>The limit of <b>retention money is 10%</b> of the value of the Contract Price.  <b>A Retention Money Guarantee is compulsory.</b>  A penalty will be applied for non-delivery of the Retention Money Guarantee as required. The penalty will be 10% of the value of the completion Retention Money Amount per calendar month for late delivery of the said Retention Money Guarantee.</p>
8.6.1.1.2	<p>The value of Plant and materials supplied by the Employer to be included in the insurance sum is <b>nil</b>.</p>
8.6.1.1.3	<p>The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is a maximum of <b>10% (ten percent)</b> of the Contract Sum.</p>
8.6.1.3	<p>The limit of indemnity for liability insurance is equal to the contract amount.</p>
10.5.1	<p>Dispute resolution shall be by standing adjudication, use GCC 2015, Appendix 5.</p>
10.7.1	<p>The determination of disputes shall be by arbitration.</p>
	<p><b>Payment for labour-intensive component of the works</b></p> <p><i>Payment for works identified in the Scope of Works as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.</i></p>
	<p><b>Linkage of payment for labour-intensive component of works to submission of project data</b></p> <p><i>The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.</i></p>

Clause	Data
	<p><b>Applicable Labour Laws</b></p> <p><i>The current Ministerial Determination (also downloadable at <a href="http://www.epwp.gov.za">www.epwp.gov.za</a>), Expanded Public Works Programmes, issued in terms of the Basic Condition of Employment Act of 1997 by the Minister of Labour in Government Notice, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled workers.</i></p>

**C.1.2.1.2.2 Variations to the General Conditions of Contract**

Clause	Data
2.5.1	<p><b>Cession</b></p> <p><i>Amend Clause 2.5.1 as follows:</i></p> <p><i>Delete the words “without the written consent of the other”</i></p>
5.14.5.1	<p><b>Consequences of Completion</b></p> <p><i>Amend Clause 5.14.5.1 as follows:</i></p> <p><i>In the second line, substitute the word ‘Guarantor’ with ‘Contractor’.</i></p>
6.2	<p><b>Security</b></p> <p><i>Replace Sub-Clauses 6.2.1 and 6.2.2 with:</i></p> <p>“The Contractor shall deliver to the Employer within such time as may be stated in the Contract Data, a Demand Guarantee, of an Insurance Company registered in terms of the Short-term Insurance Act (Act 53 of 1998) or of a registered Commercial Bank, in a sum equal to the amount stated in the Contract Data. The Demand Guarantee shall be issued by an entity subject to the approved of the Employer, and shall conform in all respects to the format contained in the Contract Data.</p> <p>The security to be provided by the Contractor shall be a Demand Gurantee of 10% of the Contract Sum.</p> <p>Wherever a joint venture constitutes the contracting party, the Demand Guarantee shall be issued on behalf of the joint venture.</p> <p>Failure to produce an acceptable Demand Guarantee within the period stated in the Contract Data, is a fundamental breach of Contract, entitling the Employer to cancel the Contract by due notice in terms of Clause 9.2 with specific reference to Sub-clause 9.2.2 as amended in the Contract Data.”</p>
6.3.1	<p><b>Variations</b></p> <p><i>Amend Clause 6.3.1, as follows:</i></p> <p><i>In the first paragraph, third line, after the words "or for any reason appropriate", add the phrase</i>  <i>" , including the limiting of contract expenditure so as not to exceed the Employer's budgeted project funding, "</i></p> <p><i>Add the following phrase to the last paragraph of Clause 6.3.1.6, after the words "ascertaining the amount of the Contract Price":</i></p> <p><i>" , and no such variation shall give reason for consideration of any claim in terms of Clause 6.11."</i></p>
6.3.2	<p><b>Orders for Variations to be in writing</b></p> <p>Omit the words “Provided that” under Clause 6.3.2 and omit Clause 6.3.2.1.</p>
6.10.1	<p><b>Interim Payments</b></p> <p><i>Amend Clause 6.10.1.5 as follows:</i></p> <p><i>In the third line, add the words ‘not yet’ before the words ‘built into’</i></p>

Clause	Data
6.10.5	<p><b>Payment of retention money</b></p> <p><i>Amend Clause 6.10.5 as follows:</i></p> <p><i>In the second line, add the words ‘, if any,’ after the words ‘Defects Liability Period’</i></p>
6.11	<p><b>Variations exceeding 15 per cent</b></p> <p><i>Replace the marginal heading with:</i></p> <p><b>“Variations exceeding 20 per cent”</b></p> <p><i>Replace “15 per cent” with “20 per cent” in the text of this Sub-Clause</i></p>
7.4.4 7.8.2	<p><b>Cost of test specimens and tests</b></p> <p><b>Cost of making good of defects</b></p> <p><i>Amend Clause 7.8.2.1 as follows:</i></p> <p><i>In the first line, correct the spelling of ‘therefore’.</i></p>
8.3.1	<p><b>Excepted risks</b></p> <p><i>Amend Clause 8.3.1.12 as follows:</i></p> <p><i>In the second line, delete the words ‘Employer or any of their’ and substitute with ‘or any of its’.</i></p>
8.6.6	<p><b>Contractor to produce proof of payment</b></p> <p>“The Contractor shall before commencement of the Works produce to the Engineer:</p> <p style="padding-left: 40px;">8.6.6.1 The policies by which the insurances are effected,</p> <p style="padding-left: 40px;">8.6.6.2 Proof that due payment of all premiums there under, covering the full required period has been made, and</p> <p style="padding-left: 40px;">8.6.6.3 Proof of continuity of the policies for the required period.</p>
	<p>Should, during the currency of the Contract, the required period of insurance be extended for any reason, the Contractor shall timeously extend (so as to maintain) the said insurances for the full extended duration.</p> <p>The Engineer shall be empowered to withhold all payment certificates until the Contractor has complied with his obligations in terms of this Clause 8.6.6.”</p>
8.6.7	<p><b>Remedy on Contractor’s failure to insure</b></p> <p><i>Delete sub-clause 8.6.7 and substitute with:</i></p> <p>“Failure on the part of the Contractor to effect and keep in force any of the insurances referred to in Clause 8.6.1 and its sub-clauses, is a fundamental breach of Contract, entitling the Employer to cancel the Contract by due notice in terms of Clause 9.2 and with specific reference to sub-clause 9.2.2, as amended in the Contract Data.”</p>
9.1.2	<p><b>State of emergency</b></p> <p><i>In the fourth line, delete the words ‘supply of’ and substitute with ‘availability of’.</i></p>
9.2	<p><b>Termination by Employer</b></p>

Clause	Data
	<p><i>Delete the contents of Clause 9.2 and substitute with:</i></p> <p>“9.2.1 The Employer may terminate the Contract by written notice to the Contractor if:</p> <p>9.2.1.1 Sequestration of the Contractor’s estate is ordered by a Court with due jurisdiction, or</p>
	<p>9.2.1.2 The Contractor publishes a notice of surrender or presents a petition for the surrender of his estate as insolvent, or makes a compromise with his creditors, or assigns in favour of his creditors, or agrees to carry out the Contract under the supervision of a committee representing his creditors, or (being a company) goes into liquidation, whether provisionally or finally (other than a voluntary liquidation for the purpose of amalgamation or reconstruction), or if the Contractor assigns the Contract without having first obtained the Employer’s consent in writing, or if execution is levied on his goods, or</p>
	<p>9.2.1.3 The Contractor, or anyone on his behalf, or in his employ, offers to any person in the employ of the Employer or the Engineer, a gratuity or reward or commission, or</p>
	<p>9.2.1.4 The Contractor furnished materially inaccurate information in his Tender, which had a bearing on the award of the Contract, or</p>
	<p>9.2.1.5 The Contractor has abandoned the Contract.</p> <p>9.2.2 If the Contractor:</p> <p>9.2.2.1 Has failed to commence the Works in terms of Clause 10 hereof, or has suspended the progress of the Works for fourteen (14) days after receiving from the Engineer written notice to proceed, or</p> <p>9.2.2.2 Has failed to provide the Guarantee in terms of Clause 7 within the time stipulated in the Contract Data, or</p> <p>9.2.2.3 Has failed to proceed with the Works with due diligence, or</p> <p>9.2.2.4 Has failed to remove materials from the Site or to pull down and replace work within fourteen (14) days after receiving from the Engineer written notice that the said materials or work have been condemned and rejected by the Engineer in terms of these conditions, or</p> <p>9.2.2.5 Is not executing the Works in accordance with the Contract, or is neglecting to carry out his obligations under the Contract, or</p> <p>9.2.2.6 Has, to the detriment of good workmanship or in defiance of the Engineer’s instructions to the contrary, sublet any part of the Contract, or</p> <p>9.2.2.7 Has assigned the Contract or any part thereof without the Employer’s consent in writing,</p>

Clause	Data
	<p>then the Employer may give the Contractor 14 days notice to rectify the default, and if the Contractor fails to rectify the default in said 14 days, then, without further notice, notify the Contractor in writing of the termination of the Contract and expel the Contractor and order the Contractor to vacate the site within 24 hours of issue of the Notice of Termination and to hand the Site over to the Employer, and the Employer may then enter upon the Site and the Works without affecting the rights and powers conferred on the Employer or the Engineer by the Contract and the Employer may himself complete the Works or may employ another contractor to complete the Works, and the Employer or such other contractor may use for such completion so much of the Construction Equipment, Temporary Works and materials brought onto the Site by the Contractor as the Employer may think proper, and the Employer may at any time sell any of the said Construction Equipment, Temporary Works and unused materials and apply the proceeds of sale towards payment of any sums that may be due or become due to the Employer by the Contractor under the Contract. In such circumstances the Contractor shall forthwith vacate the Site and shall not be entitled to remain on the Site on the grounds that he is entitled to do so on a right of retention until amounts due to him have been paid, neither will the Contractor be entitled to any further payments in terms of this Contract.</p>
9.2.3	<p>If the Contractor, having been given notice to rectify a default in terms of 9.2.2 above, rectifies said default, but later repeats the same or substantially the same default, then the Employer may notify the Contractor of the immediate termination of the Contract, and proceed as stated in the paragraph following the word 'writing' in Clause 9.2.2.7 above.</p>
9.2.4	<p>Should the amounts that the Employer must pay to complete the Works, exceed the sum that would have been payable to the Contractor on due completion by him, then the Contractor shall upon demand pay to the Employer the difference, and it shall be deemed a debt due by the Contractor to the Employer and shall be recoverable accordingly. Provided that should the Contractor on demand not pay the amount of such excess to the Employer, such sum may be determined and deducted by the Employer from any sum due to or that may become due to the Contractor under this or any previous or subsequent contract between the Contractor and the Employer.”</p>

**C.1.6.2.2 Additional clauses to the General Conditions of Contract:**

Clause	Data
1.1	<p><b>Definitions</b></p> <p><i>Add the following at the end of Sub-Clause 1.1.1:</i></p> <p>1.1.1.35 “Client”, as used in the Occupational Health and Safety Act - Construction Regulations, means Employer.</p> <p>1.1.1.36 “Principal Contractor”, as used in the Occupational Health and Safety Act - Construction Regulations, means Contractor.</p>
4.12	<p><b>Contractor’s superintendence</b></p> <p><i>Add the following sub-clause 4.12.4 to Clause 4.12:</i></p> <p>“Where a form is included in the Contract Data for this purpose, the Tenderer shall fill in the name of the person he proposes to entrust with the post of Contractor’s Site Agent on this Contract in the space provided therefore. Previous experience of this person on work of a similar nature during the past five (5) years is to be entered on the form.</p> <p>The Contractor’s Site Agent shall be on Site at all times when work is being performed.</p> <p>The person shall be subject to approval of the Engineer in writing and shall not be replaced or removed from Site without the written approval of the Engineer.”</p>
5.6	<p><b>Programme</b></p> <p><i>Add the following sub-clause 5.6.6 to Clause 5.6:</i></p> <p>“Failure on the part of the Contractor to deliver to the Engineer, the</p> <ul style="list-style-type: none"> <li>• programme of the Works in terms of Clause 5.6.1 and</li> <li>• supporting documents in terms of Clause 5.6.2</li> </ul> <p>Within the period stated in the Contract Data, shall be sufficient cause for the Engineer to retain 25 per centum of the value of the Fixed Charge and Value-related items in assessment of amounts due to the Contractor, until the Contractor has submitted aforementioned first Programme of the Works and Supporting Documents”.</p>
5.9.7	<p><b>Engineer to approve Contractor’s Designs and Drawings</b></p> <p><i>Add the following sub-clause 5.9.7.1 to Clause 5.9:</i></p> <p>“All designs, calculations, drawings and operation and maintenance manuals shall be fully endorsed by a third party registered engineer, accomplished in such specific field of practice and the cost thereof shall be borne solely by the Contractor.</p> <p>Once the alternative design has been approved, the Contractor shall indemnify and hold harmless the Engineer, the Employer, their agents and assigns, against all claims howsoever arising out of the said design, whether in contract or delict”.</p>

Clause	Data
5.11	<p><b>Suspension of the Works</b></p> <p><i>Add the following sub-clause 5.11.7 to Clause 5.11:</i></p> <p>“If the Contractor does not receive from the Employer the amount due under an Interim Payment Certificate within 28 days after expiry of the time stated in sub-clause 6.10.4 within which payment is to be made (except for deductions in accordance with sub-clauses 6.10.1.6 and 6.10.1.7), the Contractor may, after giving 14 days’ notice to the Employer, suspend the progress of the Works.</p> <p>The Contractor’s action shall not prejudice his entitlements to a claim in terms of Clause 10.1 and to cancellation of the Contract in terms of Clause 9.3.</p> <p>If the Contractor subsequently receives full payment of the amount due under such Interim Payment Certificate before giving a notice of cancellation of the Contract, the Contractor shall resume normal working as soon as is reasonably practicable.”</p>
5.12	<p><b>Extension of Time for Practical Completion</b></p> <p><i>Add the following at the end of Sub-Clause 5.12.2.2:</i></p> <p>“The extension of time to be allowed due to abnormal rainfall shall be calculated separately for each calendar month or part thereof in accordance with the following formula:</p> $V = (Nw - Nn) + \left( \frac{Rw - Rn}{x} \right)$ <p>where</p> <p>V = Extension of time in calendar days for the calendar month under consideration</p> <p>Nw = Actual number of days during the calendar month on which a rainfall of 10 mm or more has been recorded</p> <p>Nn = Average number of days for the calendar month on which a rainfall of 10 mm or more has been recorded, as derived from existing rainfall records</p> <p>Rw = Actual recorded rainfall for the calendar month</p> <p>Rn = Average rainfall for the calendar month, as derived from existing rainfall records</p> <p>x = 20</p> <p>The factor (Nw - Nn) shall be considered to represent a fair allowance for days during which rainfall exceeds 10 mm and the factor (Rw - Rn)/x shall be considered to represent a fair allowance for those days when rainfall does not exceed 10 mm but wet conditions prevent or disrupt work.</p>

	<p>The total extension of time shall be the algebraic sum of all monthly totals for the contract period, but if the algebraic sum is negative the time for completion shall not be reduced due to subnormal rainfall. Extensions of time for a part of a month shall be calculated using pro rata values of Nn and Rn.”</p> <p>For this project the rainfall formula will only apply as background information, or dispute resolution. Extension of time for rainfall will only be granted on Actual Delays experienced; noted and agreed upon by the engineer.</p>
--	---

<b>Clause</b>	<b>Data</b>
6.10	<p><b>Payments</b></p> <p><i>Add the following at the end of Sub-Clause 6.10.1:</i></p> <p>“The Contractor shall complete the ‘Contractor’s Monthly Report Schedule’, which pro forma documentation is obtainable from the Engineer. Pursuant to Sub-Clause (1), these, duly signed by all concerned, together with the Contractor’s statement and a VAT invoice in original format are to be submitted to the Engineer. Issue by the Engineer to the Employer and Contractor of any signed payment certificate is conditional to this information being fully endorsed, accurately and timeously submitted to the Engineer”.</p>
	<p><i>Add the following at the end of Sub-Clause 6.10.1.5:</i></p> <p>“All documentary evidence of such materials shall be unambiguous with respect to ownership having fully passed to the Contractor on or before the date of submittal of the Contractor’s monthly statement.</p> <p>Should the Contractor fail to supply unambiguous documentary evidence, he shall, prior to submittal of his monthly statement, deliver to the Employer a Guarantor Guarantee in the form contained in the Appendices to the Contract Data.”</p>
9.3	<p><b>Termination by the Contractor</b></p> <p><i>Add the following at the end of Sub-Clause 9.3:</i></p> <p>9.3.5 “In addition to, or as an alternative to the rights to termination contained in this Clause 9.3, the Contractor may notify the default to the Employer, with a copy to the Engineer, and if the default is not rectified within 10 days the Contractor may suspend progress of the works until a date 7 days after the default is rectified. The Contractor shall be entitled to extension of time to the extent of delay caused by or resulting from such suspension, and to payment of additional costs caused by or resulting from the suspension. Such extension of time and additional costs shall be promptly ascertained by the Engineer, who shall then grant the extension of time and include the additional costs in all future payment certificates. Such suspension, extension of time and/or payment of additional costs, shall not prejudice the Contractor’s rights to cancel the contract.”</p>

### C.1.6.2.3 Data provided by the Contractor

The General Conditions of Contract, as specified in Part 1, shall be used as a basis for this Data which is required to be completed.

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: Physical address:
1.2.1.2	Postal address:  e-mail address:  Contact numbers: Corporate: Direct: Mobile: Fax:

**C.2 Pricing data**

C2.1 PRICING INSTRUCTIONS

C2.2 BILL OF QUANTITIES

C2.3 SUMMARY OF BILL OF QUANTITIES

C2.4 CALCULATION OF TENDER SUM

# MKHADO MUNICIPALITY

## C.2.1 Pricing instructions

Measurement and payment shall be in accordance with the relevant provisions of the COLTO Standard Specification for Road and Bridge Works for State Authorities (March 1998 Edition) and the Preamble to Electrical Works.

- 1 For the purposes of this bill of quantities, the following words shall have the meanings hereby assigned to them:

Unit: The unit of measurement for each item of work as defined in the standard specifications or the project specifications.

Quantity: The number of units of work for each item.

Rate: The payment per unit of work for which the tenderer tenders to do the work.

Amount: The product of the quantity and the rate tendered for an item.

Lump Sum: An amount tendered 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.

- 2 This bill of quantities forms part of the contract documents and must be read in conjunction with all the other documents comprising the contract documents.

- 3 The quantities set out in the bill of quantities are only approximate quantities. The quantities of work finally accepted and certified for payment, and not the quantities given 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 finally certified for payment. Work is valued at the rates or lump sums tendered, subject only to the provisions of sub-clause 1209 (a) of the standard specifications.

4 Rates and lump sums shall include full compensation for overheads, profits, incidentals, tax (other than VAT), etc, and for the completed items of work as specified, all in accordance with sub-clause 1209 (b) of the standard specifications. Full compensation for completing and maintaining, during the defects liability period, all the work shown on the drawings and specified in the standard specifications and project specifications and for all the risks, obligations and responsibilities specified in the general conditions of contract, special conditions of contract, standard specifications and project specifications shall be considered as provided for collectively in the items of payment given in the bill of quantities, except in so far as the quantities given in the bill of quantities are only approximate.

5 The tenderer shall fill in a rate or a lump sum for each item where provision is made for it even where no quantities are given. Items against which no rate or lump sum has been entered in the tender will not be paid for when the work is executed, as payment for such work will be regarded as being covered by other rates or lump sums in the bill of quantities.

The tenderer shall fill in a rate against all items where the words "rate only" appear in the amount column. Although no work is foreseen under such item and no quantities are consequently given in the quantity column, the tendered rate shall apply should work under this item actually be required. Tenders should note the provisions of paragraph 12 of this preamble.

If the tender should group a number of items together and tender one lump sum for each group of items, this single tendered lump sum shall apply to that group of items and not to each individual item, or should he indicate that full compensation for any item has been included in the rate for another item, the rate for the item included in another item shall be deemed to be nil.

The tendered lump sums and rates shall be valid irrespective of any change in the quantities during the execution of the contract.

6 The works executed are measured for payment in accordance with the methods described in the contract documents under the various payment items, notwithstanding any custom to the contrary. Attention is directed to the provisions of clause 1220 of the standard specifications regarding the measurements of quantities for payment. Except where specified otherwise than in clause 1220, the nett measurement or mass of the finished work in place shall be taken for payment, and any volume or mass of work in excess of that prescribed, shall be excluded.

7 The amount of work or the quantities of material stated in the bill of quantities shall not be considered as restricting or extending the amount of work to be done or quantity of material to be supplied by the contractor.

8 The statement of quantities of material or the amount of work in the bill of quantities shall not be regarded as authorisation for the contractor to order material or to execute work.

The contractor shall obtain the engineer's detailed instructions for all work before ordering any materials or executing work or making arrangements in this regard.

- 9 The short descriptions of the payment items in the bill of quantities are only given to identify the items and to provide specific details. Reference shall, inter alia, be made to the drawings, standard specifications, project specifications, general conditions of contract and special conditions of contract for more detailed information regarding the extent of work entailed under each item.
- 10 The provisions of clause 45 of the general conditions of contract shall apply to provisional sums and prime cost sums.
- 11 Subject to the conditions stated in paragraph 12 below, the rates and lump sums filled in by the tenderer in the bill of quantities shall be final and binding with regard to submitting the tender, and may not be adjusted should there be any mistakes in the extensions thereof and in the total sums appearing in the tender. Should there be any discrepancies between the tender sum and the correctly extended and totalled bill of quantities, the rates will be regarded as being correct, and the employer shall have the right to make adjustments to the tender sum to reconcile the tender sum with the total of the bill of quantities. In such an event the contractor will be consulted but, failing agreement between the parties, the decision of the employer shall be final and binding. Adjustment of the tender sum will take place prior to the signing of the contract. In their own interest tenderers must make doubly sure of the correctness of their tendered rates, the extensions and the tender sum.
- 12 A tender may be rejected if the unit rates or lump sums for some of the items in the bill of quantities are, in the opinion of the employer, unreasonable or out of proportion, and if the tenderer fails, within a period of seven (7) days of having been notified in writing by the employer to adjust the unit rates or lump sums for such items, to make such adjustments.
- 13 The units of measurement indicated in the bill of quantities are metric units

The following abbreviations are used in the bill of quantities:

mm	=	millimetre
m	=	metre
km	=	kilometre
km-pass	=	kilometre-pass
m <sup>2</sup>	=	square metre
m <sup>2</sup> -pass	=	square metre pass
ha	=	hectare
m <sup>3</sup>	=	cubic metre
m <sup>3</sup> km	=	cubic metre kilometre
l	=	litre
kl	=	kilolitre
kg	=	kilogram

t	=	ton (1000 kg)
No	=	number
mn	=	meganewton
mn-m	=	meganewton-metre
%	=	per cent
kW	=	kilowatt
Kn	=	kilonewton
PC sum	=	prime cost sum
Prov sum	=	provisional sum

- 14 All rates and sums of money quoted in the bill of quantities shall be in rands and whole cents. Fractions of a cent shall be discarded
- 15 The item numbers appearing in the bill of quantities refer to the corresponding item numbers in the standard specifications. Item numbers prefixed by the letter B refer to payment items described under part B of the project specifications, those with C to payment items described under part C, and so on for further parts of the project specifications.

Item numbers in schedule B of the bill of quantities are, in addition, preceded by the number of each separate part of schedule B of the bill of quantities, e.g. payment item 62.02 described in the standard specifications (clause 6210), when used in part 3 of schedule B of the bill of quantities, would be numbered 3/62.02, and if this payment item had been amended in part B of the project specifications, the payment item would be indicated as 3/B62.02.

16. Labour intensive items are highlighted in the bills of quantities for the payment items relating to labour intensive works.

16.1 Those parts of the contract to be constructed using labour intensive methods have been marked in the bills of quantities with the letters LI in a separate column filled in against every item so designated. The works or part of the works so designated are to be constructed using labour intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The letters marked with LI are **not necessarily an exhaustive list** of all items which must be done by hand, and this clause does not override any of the requirements in the generic labour intensive specification in the Scope of Works.

16.2 Payment for items which are designated to be constructed using labour intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour intensive methods. Any unauthorised use of plant to carry out work which was to be done labour intensively will not be condoned and any work so constructed will not be certified for payment. If a contractor, through innovation on other activities, achieved the set LI requirement, but he did not perform all LI-marked activities through labour, he will not be penalized. However, if a contractor did not achieve the set LI target and constructed a LI-marked activity through other means, he **will not be paid** for

that activity.

17. All cost for formal training to the targeted workforce (amongst others: allowances, wages, administration, transport, etc) shall be deemed to be included in the rates for Labour Intensive items.

## **MAKHADO MUNICIPALITY**

### **C.2.2 Bill of quantities**

PROJECT NO: 58 of 2021

PROJECT: COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT ELTIVILLAS

SUMMARY OF SECTION 1 : CIVIL WORKS

SECTION	DESCRIPTION	ESTIMATED AMOUNT
1200	GENERAL REQUIREMENTS AND PROVISIONS	
1300	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS	
1400	HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL	
1500	ACCOMMODATION OF TRAFFIC	
1700	CLEARING AND GRUBBING	
1800	DAYWORKS	
2200	PREFABRICATED CULVERTS	
2300	CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS	
3300	MASS EARTHWORKS	
3400	PAVEMENT LAYERS OF GRAVEL MATERIAL	
3500	STABILIZATION	
4100	PRIME COAT	
4200	ASPHALT BASE AND SURFACING	
5600	ROAD SIGNS	
5700	ROAD MARKING	
5800	LANDSCAPING AND PLANTING PLANTS	
5900	FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS	
7300	CONCRETE BLOCK PAVING FOR ROADS	
8100	TESTING MATERIALS AND WORKMANSHIP	
SCHEDULE C	OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS	-
	<b>Total Carried to Calculation of Tender Sum</b>	
	<b>Total of Schedules (A) : Roadworks</b>	-
	<b>Total of Schedules (A) : Roadworks</b>	-
	Variation on Special Material	-
	Contingencies @ 10.0%	-
	<b>Subtotal</b>	-
	Value Added Tax @15%	-
	<b>Tender Sum</b>	-

PROJECT NO: 58 of 2021

PROJECT: COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORMWATER AT ELTIVILLAS

SECTION 1 : CIVIL WORKS

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>1200</b>	<b><u>GENERAL REQUIREMENTS AND PROVISIONS</u></b>				
<b>B12.01</b>	<b>Training:</b>				
	(a) Generic training	Prov Sum	1	100 000.00	R 100 000.00
	(b) Student training ( 2 students) R4500 per Student One each for contractor and engineer	Prov Sum	6	9 000.00	R 54 000.00
	(c) Contractor's handling costs, profit and all other charges in respect of subitem B12.01(a) above				
	(i) Generic training	%	R 100 000.00		
	(ii) Student training	%	R 54 000.00		
<b>B12.02</b>	<b>Remuneration of the Project Liaison Officer and members of the Project Steering Committee to be paid in equal monthly payments over 6 months:</b>				
	(a) Project Liaison Officer R5000 per month	Prov Sum	6	5 000.00	R 30 000.00
	(b) Project Steering Committee R200 per seat per member	Prov Sum	1	20 000.00	R 20 000.00
	(c) Contractor's handling costs, profit and all other charges in respect of subitems B12.02(a) and (b):				
	(i) Project Liaison Officer	%	R 30 000.00		
	(ii) Project Steering Committee	%	R 20 000.00		
<b>B12.05</b>	Compliance with OHS Act and Regulations (including the Construction Regulations 2014)	Lump Sum	1		
<b>B12.06</b>	Provision and erection of construction Notice boards as per the drawings	No.	1		
1200	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
<b>B12.06</b>	<b>Protection, removal, realignment and replacement of services:</b>				
	(a) Underground utility detection:				
	(i) Conduct underground utility detection survey through selected subcontractor	Prov Sum	1	60 000.00	R 60 000.00
	(ii) Handling costs and profit in respect of subitem B12.06(a)(i) above	%	R 60 000.00		
	(b) Utility services:				
	(i) Protection, removal, realignment and replacement of Sewer, Water, Fiber optic cables, Electrical and Telkom services	Prov Sum	1	220 000.00	R 220 000.00
	(ii) Handling costs and profit in respect of subitem B12.06(b)(i) above	%	R 220 000.00		
<b>B12.30</b>	<b>Hire and servicing of 4 mobile toilets</b> (toilets to be serviced at least twice a week)	month	6		
<b>B12.31</b>	<b>Specialist services</b>				
	(a) Health and Safety Consultant	P.C Sum	1	120 000.00	R 120 000.00
	(b) Environmental Practitioner	P.C Sum	1	120 000.00	R 120 000.00
	(c) Social Facilitation	P.C Sum	1	120 000.00	R 120 000.00
	(d) Handling costs and profit in respect of items a) to c) above	%	R 360 000.00		
<b>1200</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1300	<p><b><u>CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS</u></b></p> <p><b>B13.01 The contractor's general obligations:</b></p> <p>(a) Fixed obligations</p> <p>(b) Value-related obligations</p> <p>(c) Time-related obligations</p> <p>NB: The combined total tendered for subitems (a),(b) and (c) shall not exceed 15% of the Tender Sum.excluding the contingency sum, CPA and VAT)</p>	<p>Lump Sum</p> <p>Lump Sum</p> <p>month</p>	<p>1</p> <p>1</p> <p>6</p>		
1300	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1400	<b><u>HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL</u></b>				
14.01	<b>Office and laboratory accommodation:</b>				
	(a) Offices (interior floor space only)	m <sup>2</sup>	30		
	(e) Ablution units	Lump Sum	1		
14.02	<b>Office and laboratory furniture:</b>				
	(a) Chairs	number	15		
	(f) Conference tables	number	2		
B14.03	<b>Office and laboratory fittings, installations and equipment:</b>				
	(a) Items measured by number:				
	(i) 220/250 volt power points	number	4		
	(v) Single CLF-light fittings complete with 18 watt globes	number	4		
	(x) Fire extinguisher, 9,0 kg, all purpose dry powder type, complete, mounted on wall with brackets	number	1		
14.08	<b>Services:</b>				
	(a) Services at offices and laboratories:				
	(i) Fixed costs	lump sum	1		
	(ii) Running costs	month	6		
1400	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1500	<b>ACCOMMODATION OF TRAFFIC</b>				
B15.01	Accommodating traffic and maintaining temporary deviations	km	0.4		
B15.03	<b>Temporary traffic-control facilities:</b>				
	(a) Flagmen	man-day	180		
	(b) Portable STOP and GO-RY signs	No	6		
	(e) Road signs, R- and TR-series, 1 200 mm in diameter	No	4		
	(f) Road signs, TW-series, (rectangular, 1 500 mm sides	No	4		
	(g) Rectangular road signs, TGS-, TIN- and TW-series (excluding TW-series delineators and barricades)	m <sup>2</sup>	5		
	(h) Delineators (DTG50J)				
	(ii) Double sided blade (250 mm x 800 mm)	No	20		
	(j) Traffic cones (600 mm)	No	40		
	(n) Other traffic control measures ordered by the Engineer:				
	(i) Provision of other traffic control measures	Prov Sum	1	36 000.00	R 36 000.00
	(ii) Handling costs and profit in respect of subitem B15.03(n)(i)	%	R 36 000.00		
	(o) Other signs or facilities:				
	(i) Provision of other signs or facilities	Prov Sum	1	18 000.00	R 18 000.00
	(ii) Handling costs and profit in respect of subitem B15.03(o)(i)	%	R 18 000.00		
B15.10	Accommodation of traffic where the road is constructed in half-widths	km	0.4		
1500	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	<b>CLEARING AND GRUBBING</b>				
17.04	Clearing and grubbing at inlets and outlets of hydraulic structures	m <sup>2</sup>	20		
17.05	Cleaning out of hydraulic structures:				
	(a) Pipes with an internal diameter up to and including 750 mm	m <sup>3</sup>	30		
B17.07	Removal of topsoil and temporary stockpiling thereof in:				
	(a) Topsoil in temporary stockpiles after loading material into trucks including 1,0 km free haul	m <sup>3</sup>	622		
B17.08	Demolition, removal and disposal off site of miscellaneous structures consisting of:				
	(a) Un-reinforced concrete	m <sup>3</sup>	10		
	(b) Masonry and stone pitching	m <sup>3</sup>	10		
	(c) Reinforced concrete	m <sup>3</sup>	10		
	<u>OVERHAUL</u> (Section 1600)				
17/16.02	Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)	m <sup>3</sup> -km	800		
B100.02	Compliance and penalties				
	<b>Penalty for serious violation</b>				
	(a) Hazardous chemical/oil spill and/or dumping in non-approved sites	No.		(-10000.00)	Rate only
	(b) General damage to sensitive environments	No.		(-5000.00)	Rate only
	(c) Damage to cultural and historical sites	No.		(-5000.00)	Rate only
	(d) Pollution of water sources	No.		(-10000.00)	Rate only
	(e) Unauthorised blasting activities	No.		(-5000.00)	Rate only
1700	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1700	Brought forward				
	(f) Uncontrolled/unmanaged erosion per incident, depending on environment impacts, plus rehabilitation at contractor's cost	No.		(-5000.00)	Rate only
<b>B100.03</b>	<b>Penalty for less serious violation</b>				
	(a) Littering on site.	No.		(-1000.00)	Rate only
	(b) Lighting of illegal fires on site	No.		(-1000.00)	Rate only
	(c) Persistent or un-repaired fuel and oil leaks	No.		(-1000.00)	Rate only
	(d) Excess dust or excess noise emanating from site	No.		(-1000.00)	Rate only
	(e) Dumping of milled material in side drains or on grassed areas	No.		(-1000.00)	Rate only
	(f) Possession or use of intoxicating substances on site	No.		(-500.00)	Rate only
	(g) Any vehicles being driven in excess of designated speed limits	No.		(-500.00)	Rate only
	(h) Urination and defecation anywhere except in designated areas	No.		(-500.00)	Rate only
<b>1700</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>B1800</b>	<b><u>DAYWORKS</u></b>				
<b>B18.01</b>	<b>Personnel during normal working hours:</b>				
	(a) Unskilled labour	hour	40		
	(b) Semi-skilled labour	hour	40		
	(c) Skilled labour	hour	40		
	(d) Ganger	hour	40		
	(e) Flagmen	hour	40		
<b>B18.02</b>	<b>Personnel outside normal working hours:</b>				
	(a) Outside normal working hours and on Saturdays:				
	(i) Unskilled labour	hour	10		
	(ii) Semi-skilled labour	hour	10		
	(iii) Skilled labour	hour	10		
	(iv) Ganger	hour	10		
	(v) Flagmen	hour	10		
	(b) Sundays and public holidays:				
	(i) Unskilled labour	hour	10		
	(ii) Semi-skilled labour	hour	10		
	(iii) Skilled labour	hour	10		
	(iv) Ganger	hour	10		
	(v) Flagmen	hour	10		
<b>B1800</b>	Carried forward				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Brought forward				
<b>B18.03</b>	<b>Equipment/Plant:</b>				
	(a) Front end loader	hour	10		
	(b) Backhoe loader	hour	10		
	(c) Compressor and two jackhammers	hour	10		
	(d) Grader	hour	10		
	(e) Vibratory roller	hour	10		
	(e) Grid roller	hour	10		
	(f) Tipper truck	hour	10		
	(g) Water dowser, 10 000 litre	hour	10		
	(h) Concrete mixer	hour	10		
<b>B18.04</b>	<b>Materials:</b>				
	(a) Procurement of materials	Prov Sum	1	100 000.00	R 100 000.00
	(b) Contractor's handling costs, profit and all other charges in respect of subitem B18.04(a)	%	R 100 000.00		
<b>B18.05</b>	<b>Transport:</b>				
	(a) LDV	km	50		
	(b) Flatbed truck	km	50		
<b>B1800</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>2200</b>	<b>PREFABRICATED CULVERTS</b>				
22.01	Excavation:				
	(a) Excavating soft material situated				
	(i) 0m up to 1.5m	m <sup>3</sup>	660		
	(ii) Exceeding 1.5m and up to 3.0m	m <sup>3</sup>	240		
	(b) Extra over subitem 22.01 (a) for excavation in material, irrespective of depth	m <sup>3</sup>	120		
22.02	Backfilling:				
	(a) Using the excavated material	m <sup>3</sup>	345		
	(b) Using imported selected material	m <sup>3</sup>	255		
22.03	Concrete pipe culverts:				
	(c) On class C bedding:				
	(i) Type SC 100D-load pipes, spigot and socket				
	(a) 600mm dia.	m	110		
	(b) 1050mm dia.	m	90		
<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>					

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
2300	<b><u>CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES, AND CONCRETE LININGS FOR OPEN DRAINS</u></b>				
23.01	<b>Concrete kerbing:</b>				
	(a) Prefabricated barrier kerb, SABS 927 fig 3, as shown on the drawings	m	400		
	(d) Prefabricated barrier kerb, SABS 927 fig 11	m	400		
23.02	<b>Concrete kerbing-Channeling Combination:</b>				
	(a) Prefabricated barrier kerb, SABS 927 fig 7 and channel , as shown on the drawings	m	120		
23.05	<b>Inlet, outlet, transition and similar structures:</b>				
	(a) Concrete kerb inlet as shown on drawings	No.	9		
	(b) Brick junction box as shown on drawings	No.	2		
23.14	<b>Cutting bituminous surfacing and pavement layers for concrete kerbing, channelling or concrete-lined drains</b>	m	240		
B23.17	<b>Removing existing kerbing</b>	m	800		
2300	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3300</b>	<b><u>MASS EARTHWORKS</u></b>				
<b>B33.01</b>	<b>Cut and borrow to fill, including all haul:</b>				
	(a) Material in compacted layer thicknesses of 200 mm and less:				
	(ii) Compacted to 93% of modified AASHTO density (obtained from commercial sources)	m <sup>3</sup>	1184		
<b>B33.04</b>	<b>Cut to spoil, including all haul. Material obtained from:</b>				
	(a) Soft excavation	m <sup>3</sup>	1120		
	(b) Intermediate excavation	m <sup>3</sup>	1200		
<b>33.10</b>	<b>Roadbed preparation and the compaction of material:</b>				
	(a) Compaction to 95% of modified AASHTO density	m <sup>3</sup>	1180		
	(b) Compaction to 98% of modified AASHTO density	m <sup>3</sup>	1180		
<b>B33.07</b>	<b>Removal of unsuitable Material(including free haul of 0.5km)</b>	m <sup>3</sup>	160		
<b>33.14</b>	<b>Extra over item 33.01 for excavating material from the pavements and fills of existing roads:</b>				
	(a) Non-cemented material	m <sup>3</sup>	393		
	(b) Cemented material	m <sup>3</sup>	1776		
<b>33/16.02</b>	<b>Overhaul on material hauled in excess of 1,0 km (ordinary overhaul)</b>	m <sup>3</sup> -km	9500		
<b>3300</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3400</b>	<b><u>PAVEMENT LAYERS OF GRAVEL MATERIAL</u></b>				
<b>B34/36.01</b>	<b>Pavement layers constructed from commercial sources, including procurement, cost of material, working, and all haul</b>				
	(a) Base				
	(i) 150mm G1 Crushed stone material compacted to 88% apparent relative	m <sup>3</sup>	195		
	(ii) 125mm Cement stabilised material (C3) compacted to 97% of mod. AASHTO	m <sup>3</sup>	538		
	(b) Upper Subbase				
	(i) 125mm Cement stabilised material (C3) compacted to 97% of mod. AASHTO	m <sup>3</sup>	163		
	(c) Lower Subbase				
	(i) 125mm Cement stabilised material (C4) compacted to 96% of mod. AASHTO	m <sup>3</sup>	700		
	(d) Selected Subgrade (SSG)				
	(i) 150mm Natural gravel (G7) compacted to 93% of mod. AASHTO density.	m <sup>3</sup>	840		
	(e) Upper SSG				
	(i) 150mm Natural gravel material (G6) compacted to 95% of mod. AASHTO	m <sup>3</sup>	645		
<b>B34.06</b>	<b>Extra Over item sub item 34.04 (d) for adding extra material as specified in subclause 3207(b)(iii)</b>				
	(b) Gravel Subbase	m <sup>3</sup>	120		
<b>34/32.06</b>	<b>Stockpiling of material</b>	m <sup>3</sup>	2200		
<b>3400</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>3500</b>	<b><u>STABILIZATION</u></b>				
<b>35.01</b>	Cement stabilization (extra over the untreated layers)  150mm thick SubBase layer	m <sup>3</sup>	1776		
<b>35.02</b>	<b>Chemical stabilizing agent:</b>				
	(a) Ordinary Portland Cement CEM II 32.5MPa	t	98		
<b>35.03</b>	<b>Mechanical modification (extra over untreated layer)</b>				
	(b) By mixing materials from different sources	m <sup>3</sup>	90		
<b>35.04</b>	Provision and application of water for curing	Kl	400		
<b>3500</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4100	<u>PRIME COAT</u>				
41.01	Prime coat:				
	(c) MC-30 cut-back bitumen	l	1117.8		
41.03	Extra over payment item B41.01 for applying the	l	1117.8		
4100	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
4200	<b><u>ASPHALT BASE AND SURFACING</u></b>				
42.02	<b>Asphalt Surfacing 40mm thick:</b>				
	(a) Continuously graded (A-P1 plastomer modified binder Asphalt)	m <sup>2</sup>	1397		
42.04	<b>Tack Coat of 30% stable-grade emulsion</b>	l	1118		
42.08	<b>100 mm Cores in asphalt paving</b>	No	12		
4200	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5600	<b><u>ROAD SIGNS</u></b>				
B56.01	<b>Road sign boards with painted or coloured semi-matt background. Symbols, lettering and borders in semi-matt black or Class I retro-reflective material, where the sign board is constructed from:</b>  (a) Aluminium sheet (2,0 mm thick): (i) Area not exceeding 2 m <sup>2</sup> (ii) Area exceeding 2 m <sup>2</sup> but not 10 m <sup>2</sup>				
56.05	<b>Excavation and backfilling for road sign supports (not applicable to kilometre posts)</b>	m <sup>3</sup>	18		
56.06	<b>Extra over item 56.05 for cement-treated soil backfill</b>	m <sup>3</sup>	18		
56.08	<b>Dismantling, storing and re-erecting road signs with a surface area of:</b>  (a) Up to 2 m <sup>2</sup> (b) Exceeding 2 m <sup>2</sup> but not 10 m <sup>2</sup>				
5600	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5700	<b><u>ROAD MARKINGS</u></b>				
57.01	<b>Road-marking paint:</b>				
	(a) White lines (broken or unbroken):				
	(i) 100 mm wide	km	0.8		
	(iii) 200 mm wide	km	0.4		
	(b) Yellow lines (broken or unbroken):				
	(i) 100 mm wide	km	0.8		
	(ii) 150 mm wide	km	0.4		
	(d) White lettering and symbols	m <sup>2</sup>	120		
57.06	<b>Setting out and pre-marking the lines (excluding traffic-island markings, lettering and symbols)</b>	km	2.4		
57.08	<b>Removal of existing, temporary or permanent road markings by:</b>				
	(a) Sand-blasting	m <sup>2</sup>	60		
5700	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
5900	<u>FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS</u>				
59.01	Finishing the road and road reserve:				
	(b) Single carriageway road	km	0.4		
5900	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				

ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
<b>7300</b>	<b><u>CONCRETE BLOCK PAVING FOR ROADS</u></b>				
73.02	Bedding Sand	m <sup>2</sup>	4400		
73.01	CONCRETE BLOCK PAVING				
	80 mm Thick Concrete Interlocking Blocks Class 30 S-A to SABS 1058, Grey, in Herringbone Pattern	m <sup>2</sup>	4400		
73.02	Cast in situ concrete edge and intermediate Beams Class 25/19 concrete	m <sup>3</sup>	39		
73.03	Provision of Approved herbicidi and Ant Poisoning	m <sup>2</sup>	4400		
<b>7300</b>	<b>TOTAL CARRIED TO SUMMARY OF SECTION 1</b>				



**SCHEDULE C : OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS**

ITEM NO	DESCRIPTION	UNIT	QUANTIT Y	RATE	AMOUNT
	<p><b>OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS</b></p>				
C1.2	Time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations by nominated Safety Consultant:	Prov Sum	1	R 60 000.00	R 60 000.00
	(c) Handling cost and profit in respect of item C1.2	%	60 000		
C1.3	Submission of the Health and Safety File	Lump Sum	1		
C1.4	General Provisions of OHS (Protective clothing embroidered with EPWP logo)	Lump Sum	1		
C1.5	Compliance with the Occupational, Health and Safety Act (Act 85 of 1993) as amended, read with the Hazardous Biological Agents Regulations. In light with the current Covid-19 pandemic, Section 8 (1) of OHS Act as amended requires the employer to provide and maintain as far as is reasonably practicable a working environment that is safe and without risk to the Health of employees.				
C1.5.1	Allow for setting up of Health and Safety Plan in terms of the Covid-19	Item	1		
C1.5.2	Conduct medical tests for Covid-19 for all employees	No	20		
C1.5.3	Provision of Risk Assessment in terms of Covid-19	Item	1		
C1.5.4	Induction in terms of Covid-19 to workers and all visitors accessing the site	Item	1		
C1.5.5	Allowance for Thermometer to screen employees daily	No	2		
C1.5.6	Allowance for delays resulting from screening	Item	1		
	Carried Forward				

<b>SCHEDULE C : OCCUPATIONAL HEALTH AND SAFETY ACT OBLIGATIONS</b>					
<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QUANTIT Y</b>	<b>RATE</b>	<b>AMOUNT</b>
	Brought Forward				
C1.5.7	Dis-infection of Plant and Equipment	Item	1		
C1.5.8	Provide training in terms of Covid-19 (Training to be on-going for the duration of the Project)	Item	1		
C1.5.9	Covid-19 awareness	Item	1		
C1.5.10	Provide Hand Sanitizers for the duration of the Project	No	50		
C1.5.11	Provision for Dis-infection wipes	Item	1		
C1.5.12	Provide Cloth face masks to all employees for the duration of the Project	No	60		
<b>TOTAL SCHEDULE D CARRIED TO SUMMARY</b>					

# THE CONTRACT

**PART C3 SCOPE OF WORKS**

**PART C4 SITE INFORMATION**

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**PART C3: SCOPE OF WORK**

C3.1	DESCRIPTION OF WORKS .....	88
C3.2	ENGINEERING.....	96
C3.3	PROCUREMENT POLICY .....	96
C3.4	CONSTRUCTION.....	97
C3.5	MANAGEMENT .....	203

### C3.1 DESCRIPTION OF WORKS

#### C3.1.1 Employer's Objectives

The objectives of the project is the rehabilitation, repair and reseal with continuously graded asphalt and paving blocks of an existing 0.4 km street and intersection in Louis Trichardt.

The employer's other objectives are to deliver public infrastructure using labour intensive methods in accordance with EPWP Guidelines.

#### C3.1.2 Overview and Location of Works

The project site is situated approximately 2.6 km North of town centre of Louis Trichardt in Vhembe District Municipality under Makhado Local Municipal area. The site is accessible via the National Road (N1) leading north, away from the town of Louis Trichardt. The approximate central co-ordinates of the project are: **23° 3'1.70"S 29°55'4.20"E**.

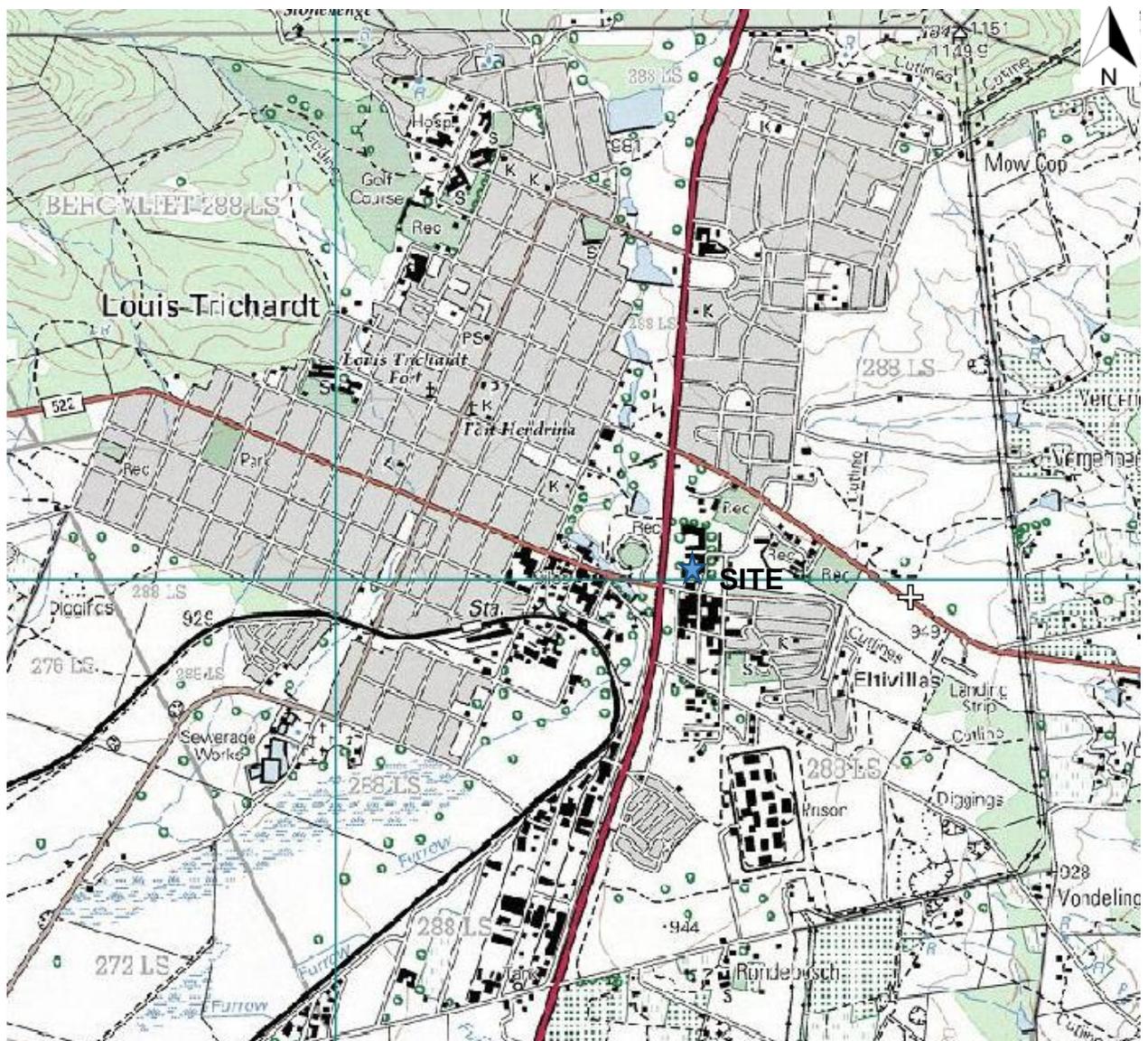


Figure 1: Site for development

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS



Figure 2 Site

**C3.1.3 Extent of Works**

The works shall consist of the following main items to be upgraded under the contract:

**a) Roadworks**

- Setting out of the road 0.4km;
- Site Clearance;
- Demolition and disposal of existing concrete pavement block slabs.
- Accommodation of traffic (establishment of detours);
- Locating and protection of the existing services;
- Remove and rebuild existing catch pits along the streets,
- Cleaning of existing stormwater pipes on Main street;
- Construction of new stormwater pipes and drains;
- Repair of pavement defects and failures
- Installation of road signs and road markings;

- From chainage 0 - 60 will be asphalt surfacing.
- From Chainage 60 - 340 will be paving blocks.
- From Chainage 0 - 80m there are four (4) lanes 4m wide.
- From Chainage 80 - 340m there are two (2) lanes 4m wide.
- From chainage 0 – 60, Construct asphalt pavement structure as per pavement design below:

Surfacing	40mm Continuously Graded medium, A-P1 plastomer modified binder Asphalt.
Base	150mm G1 Crushed stone material compacted to 88% apparent relative density.
Upper Subbase	125mm Cement stabilised material (C3) compacted to 97% of mod. AASHTO density.
Lower Subbase	125mm Cement stabilised material (C4) compacted to 96% of mod. AASHTO density.
Selected Subgrade(SSG)	150mm Natural gravel (G7) compacted to 93% of mod. AASHTO density.

- From Chainage 60 – 340, Construct paving block pavement structure as per pavement design below:

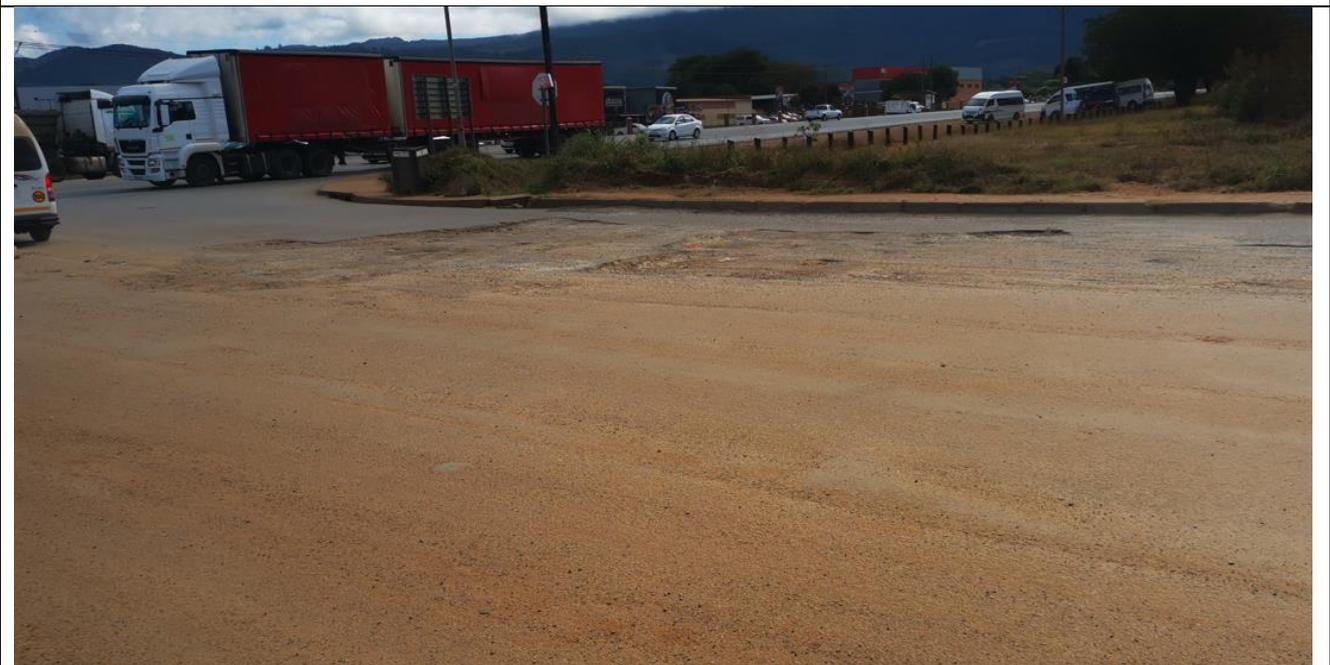
Surfacing	80mm Paving Blocks 25MPa Class, Type S-A, laid in herringbone pattern with 20mm sand bedding or Clay Brick Paving.
Base	125mm Cement stabilised material (C3) compacted to 97% of mod. AASHTO density.
Subbase	125mm Cement stabilised material (C4) compacted to 96% of mod. AASHTO density.
Upper SSG	150mm Natural gravel material (G6) compacted to 95% of mod. AASHTO density.
Lower SSG	150mm Natural gravel (G7) compacted to 93% of mod. AASHTO density.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

---



Damaged concrete slab intersection



N1 intersection



**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**C3.1.4 Location of the Works**

The following details provide the key elements of the project area.

- Municipal Area :Makhado Local Municipality
- Central Co-ordinates:
  - Latitude (S) : **23° 3'1.70"S**
  - Longitude (E) : **29°55'4.20"E**

The project site is situated approximately 2.6 km North of town centre of Louis Trichardt in Vhembe District Municipality under Makhado Local Municipal area. The site is accessible via the National Road (N1) leading north, away from the town of Louis Trichardt.

**C3.1.5 Temporary Works**

A temporarily by-pass for traffic accommodation during construction.

**C3.1.6 General Information****C3.1.6.1 Drawings**

The reduced drawings contained in book 2 of 2 that form part of the tender document shall be used for tender purposes only. Further drawings are to be provided on an on-going basis by the engineer.

The contractor will be supplied with an unreduced 0,05 mm thick transparent polyester print of each of the drawings. These polyester prints are 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, which the resident engineer requires to complete the 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 shall not be scaled unless so instructed by the engineer. The engineer will supply all figured dimensions omitted from the drawings.

**C3.1.6.2 Power, Water Supply and Other Services**

The contractor shall make his own arrangements concerning the supply of electrical power and all other services. No direct payment will be made for the provision of electrical and other services. The cost of providing these services will be deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.

**C3.1.6.3 Contractor's Camp Site and Security**

The contractor shall make his own arrangements regarding the establishment of a camp site and housing for his construction personnel and all regulations stipulated by the local authority shall be adhered to.

It is anticipated that the contractor's choice of a camp site will be influenced by the availability of telephone and electrical connections as well as the supply of potable water.

Provision is made in these specifications for the erection of a security fence around the site offices. The contractor shall be responsible for the security of his personnel and constructional plant on and around the site of the works and for the security of his camp, and the employer will consider no claims in this regard.

#### C3.1.6.4 Additional Requirements for Construction Activities

C3.1.6.4.1 The contractor may not commence constructional activities before adequate provision has been made to accommodate traffic in accordance with the requirements of this document and the South African Road Traffic Signs Manual.

C3.1.6.4.2 The contractor shall submit proposals in connection with directional signs to the engineer for approval.

#### C3.1.6.5 Programme Requirements for Construction Activities

The contractor shall programme his activities to be suitable in terms of his resources to complete the contract inside the stipulated time period.

#### C3.1.6.6 Construction in Confined Areas

It may be necessary for the contractor to work in confined areas. In certain areas the width of the fill material and pavement layers may reduce to zero and the working space may be confined. The method of construction in these confined areas depends on the contractor's construction plant. However, the contractor must note that measurement and payment will be in accordance with the specified cross-sections and dimensions, irrespective of the method used to achieve these cross-sections and dimensions, and that the rates and amounts tendered will be deemed to include full compensation for any special equipment or construction methods or for any difficulty encountered in working in confined areas and narrow widths, and at or around obstructions, and that no extra payment will be made nor will any claim for payment be considered on account of these difficulties.

### C3.1.7 Labour Regulations

#### C3.1.7.0 EPWP Requirements

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of this Scope of Work

#### **Competencies of LI Management and Supervisory staff**

Contractors shall engage supervisory and management staff in labour-intensive works that have completed the skills programme including Foremen/Supervisors at NQF "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/Manager at NQF level 4 "Manage labour-intensive Construction Processes" or equivalent QCTO qualifications.

#### **Wage Dispute (Contractor default to pay beneficiaries)**

Any dispute between the Contractor and labourers, regarding delayed payment or default in payment of fair wages, if not resolved immediately may compel the Employer to intervene.

The Employer may, upon the Contractor defaulting payment, pay the moneys due to the workers not honoured in time, out of any moneys due or which may become due to the Contractor under the Contract.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**Provision of Hand tools**

The Contractor shall provide his labour force with hand tools of adequate quality, sufficient in numbers and make the necessary provisions to maintain the tools in good and safe working conditions

**Reporting Requirements**

The Contractor should submit the following at the beginning of the Contract:

- (a) Contracts of all the workers employed on the contracts including their certified identity documents;
- (b) Proof of Registration for COIDA and UIF;
- (c) OHS Files

The Contractor shall submit Monthly returns/reports as specified below:

- (a) Signed Muster rolls/pay sheets of temporary workers and permanent staff detailing the number, category, gender, rate of pay and daily attendance.
- (b) Copies of certified identity documents of workers
- (c) Number of persons who have attended training including nature and duration of training provided
- (d) Assets created, rehabilitated or maintained in accordance with indicators in the EPWP M&E framework
- (e) Plant utilization returns
- (f) Progress report detailing production output compared to the programme of works

**C3.1.7.1 Payment for the labour-intensive component of the works**

Payment for works identified in clause 2.3 “the Extent of the Project” in the Project Specifications as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the scope of work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

**C3.1.7.2 Applicable labour laws**

Ministerial determination 4:

1. Special Public Works Programs Government Gazette no. 34310-3 of 4 May 2012.
2. Code of Good Practice for Employment and Conditions of works of Expanded Public Works Programs – Government Gazette no. 34032 of 18 February 2011.

## **C3.2 ENGINEERING**

### **C3.2.1 Design**

- (a) The **Employer** is responsible for the design of the permanent Works as reflected in these Contract Documents unless otherwise stated.
- (b) The **Contractor** is responsible for the design of the temporary Works and their compatibility with the permanent Works.
- (c) The **Contractor** shall supply all details necessary to assist the engineer in the compilation of the as-built drawings.

### **C3.2.2 Employer's Design**

- (a) Detail description of Works
- (b) General Works

### **C3.2.3 Contractor's Design**

Where contractor is to supply the design of designated parts of the permanent Works or temporary Works he shall supply full working drawings supported by a professional engineer's design certificate.

### **C3.2.4 Design procedures**

All designs and modifications thereto shall be communicated in writing and the contractor and engineer shall maintain master lists to record and track all transactions.

## **C3.3 PROCUREMENT POLICY**

Bids will be assessed under the provisions of the following Acts and its Regulations: Municipal Finance Management Act, (Act 56 of 2003); BBBEE, Supply Chain Management Policy of the municipality in accordance with the specifications and in terms of 90:10 preferential points system and functionality. The minimum threshold for functionality is 70%, bidders who score less than 70% will not be considered for further evaluation.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**C3.4 CONSTRUCTION**

**C3.4.1 STANDARD SPECIFICATIONS**

The following specifications shall apply for the construction of the Works:

- (a) The COLTO Standard Specifications for Road and Bridge Works for State Road Authorities (1998).

The contractor may purchase copies of above mentioned document from the South African Institution of Civil Engineering (SAICE):

SAICE House

Block 19, Thornhill Office Park

Bekker Street

Vorna Valley X21

Midrand

Private Bag X200, Halfway House, 1685

Tel: (011) 805 5947/48/53

Fax: (011) 805 5971

- (b) SANS or BS Specifications and Codes of Practice

Wherever any reference is made to the South African Bureau of Standards (SABS) in either the Bill of Quantities, this reference shall be deemed to read "SANS standard"

- (c) Various other specifications specified in the COLTO Standard Specifications or the Project Specifications.

**C3.4 GENERAL CONDITIONS OF CONTRACT**

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

## C3.4.2 PROJECT SPECIFICATIONS RELATING TO STANDARD SPECIFICATIONS

### C3.4.2.1 General Conditions of Contract Referred to in the Standard Specifications

The references to the General Conditions of Contract appearing in the COLTO Standard Specifications refer to the COLTO General Conditions of Contract which is superseded in this contract by the General Conditions of Contract for Construction Works 2015. The corresponding clause in the latter document pertaining to the reference in the COLTO Standard Specifications is listed in the table below.

<b>Clause No. in the Standard Specifications</b>	<b>Clause No. in COLTO General Conditions</b>	<b>Equivalent Clause No. in General Conditions of Contract 2015</b>
1202	15	5.6.1
1206	14	Deleted
1209	52	6.10.2
1210	54	51.1
1212(1)	49	6.10.1
1215	45	5.12.1
1217	35	8.2.1
1303	49	6.8
1303	53	6.11
1303	12	5.6
1303	45	5.12.1
1403	40(1)	6.4.1
1505	40	6.4
31.03	40	6.4
3204(b)	40	6.4
3303(b)	2	3
5803(c)	40	6.4
5805(d)	40	6.4
6103(c)	40	6.4
Item 83.03	22	5.15
ALL SECTIONS	48	6.6

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**C3.4.2.2 Amendments to the Standard Specifications**

Amendments to the Standard Specifications as issued by the Committee of Land Transport Officials (COLTO) are given in the following sections.

**C3.4.2.3 Project Specifications Relating to Standard Specifications**

This part of the project specifications deals with matters relating to the standard specifications. Where reference is made in the standard specifications to the project specifications this part shall also contain the relevant information e.g. the requirements where a choice of materials or construction methods are provided for the standard specifications.

In certain clauses the standard specifications allow a choice to be specified in the project specifications between alternative materials or methods of construction and for additional requirements to be specified to suit a particular contract. Details of such alternatives or additional requirements applicable to this contract are contained in this part of the project specifications. It also contains some additional specifications and amendments of the standard specifications required for this particular contract.

The number of each clause and each payment item in this part of the project specifications consists of the prefix B followed by a number corresponding to the number of the relevant clause or payment item in the standard specifications. The number of a new clause or a new payment item, which does not form part of a clause or a payment item in the standard specifications and is included here, is also prefixed by B followed by a new number. The new numbers follow on the last clause or item number used in the relevant section of the standard specifications.

Clauses and pay items referring to labour intensive methods are prefixed by L in the project specifications.

Clauses and pay items referring to emerging contractors are prefixed by E in the project specifications.

**C3.4.2.4 Project Specifications Relating to EPWP****EPWP Special Project Specification**

As much as is economically feasible all work shall be implemented by employing Labour Intensive Construction methods. Over and above the normal Building and Allied works to be implemented by employing skilled and unskilled labour the works specified in the "Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)" shall be undertaken using Labour Intensive Construction methods

**Requirement for Sourcing and engagement of Labour**

Unskilled and semi-skilled labour required for the execution of all labour intensive works shall be engaged strictly in accordance with prevailing legislation and SANS 1914-5, Participation of Targeted Labour.

The latest minimum rate of pay set for the EPWP is per task or per day is to be used.

Tasks established by the contractor must be such that:

- a) the average worker completes 5 tasks per week in 40 hours or less; and
  - b) the weakest worker completes 5 tasks per week in 55 hours or less.
- (d) The contractor must revise the time taken to complete a task whenever it is established that the time taken to complete a weekly task is not within the requirements of 1.1.3.
- (e) The Contractor shall, through all available community structures, inform the local community of the labour intensive works and the employment opportunities presented thereby. Preference must be given to people with previous practical experience in construction and / or who come from households:
- a) where the head of the household has less than a primary school education;
  - b) that have less than one full time person earning an income;
  - c) where subsistence agriculture is the source of income.
  - d) those who are not in receipt of any social security pension income

### **Employment demographics**

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

- a) 60 % women;
- b) 55% youth who are between the ages of 18 and 35; and
- c) 2% on persons with disabilities.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**MATTERS RELATING TO THE STANDARD SPECIFICATIONS**

SECTION 1200 : GENERAL REQUIREMENTS AND PROVISIONS .....	102
SECTION 1300 : CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS .....	112
SECTION 1400 : HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL .....	113
SECTION 1500 : ACCOMMODATION OF TRAFFIC .....	115
SECTION 1800 : DAYWORK SCHEDULE.....	120
SECTION 2100 : DRAINS.....	122
SECTION 2200 : PREFABRICATED CULVERTS.....	123
SECTION 2300 : CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES AND CONCRETE LININGS FOR OPEN DRAINS .....	126
SECTION 3100 : BORROW MATERIALS.....	128
SECTION 3300 : MASS EARTHWORKS.....	130
SECTION 3400 : PAVEMENT LAYERS OF GRAVEL MATERIAL.....	131
SECTION 5200 : GABIONS.....	134
SECTION 5600 : ROAD SIGNS.....	136
SECTION 5700 : ROAD MARKINGS.....	138
SECTION 5900 : FINISHING THE ROAD AND ROAD RESERVE AND TREATING OLD ROADS .....	139
SECTION 6100 : FOUNDATIONS FOR STRUCTURES.....	140
SECTION 6200 : FALSEWORK, FORMWORK AND CONCRETE FINISH.....	143
SECTION 6300: STEEL REINFORCEMENT FOR STRUCTURES.....	144
SECTION 6400 : CONCRETE FOR STRUCTURES.....	145
SECTION 6600 : NO-FINES CONCRETE, JOINTS, BEARINGS, BOLT GROUPS FOR ELECTRIFICATION, PARAPETS AND DRAINAGE FOR STRUCTURE	151

## **SECTION 1200 : GENERAL REQUIREMENTS AND PROVISIONS**

### **B1202 SERVICES**

Add the following to the fifth paragraph:

“Provision is made in the bill of quantities for payment for searching and exposing of known or unknown services as well as the relocation and/or protection of existing services. Any moving of existing services which may be required within the proclaimed road reserve will be undertaken by the relevant service authorities or by a selected subcontractor if so ordered by the engineer.”

### **B1204 PROGRAMME OF WORKS**

#### **(a) General requirements**

Amend the word “network” in the fourth line of the first paragraph to read as “bar (Gantt) chart”.

Add the following after the third paragraph:

“The bar-chart programme to be provided by the contractor shall show the various activities in such detail as may be required by the engineer. Progress in terms of the programme shall be updated monthly by the contractor in accordance with the progress made by the contractor.

In compiling the programme of work, the contractor shall indicate and make due allowance for the following, as specified elsewhere in the contract documents:

- The requirements regarding the accommodation of traffic and areas that may be occupied at any time for construction purposes (as indicated on the drawings and specified in Section 1500 of the specifications)
- Requirements regarding the training of labourers and Emerging Contractors (EC’s).
- The requirements for work to be undertaken by labourers and work to be undertaken by EC’s.

#### **(b) Programme of work for rehabilitation work**

Amend the word “network” in the fourth line of the second paragraph to read as “bar (Gantt) chart”.

### **B1205 WORKMANSHIP AND QUALITY CONTROL**

Add the following to the third paragraph:

“The engineer shall, however, undertake acceptance control tests for the judgement of workmanship and quality, without accepting any obligations vested with the contractor in terms of the contract with specific reference to quality of materials and workmanship. Such acceptance control test done by the engineer shall not relieve the contractor of his obligations to maintaining his own quality control system.”

Add the following at the end of this clause:

"The engineer shall, for the purpose of acceptance control on products and workmanship, assess test results and measurements in accordance with the provisions of section 8300 of the standard specifications. Where small quantities of work are involved, a lot shall mean a full day's production for a specific item of work subject to acceptance control testing."

### **B1206 THE SETTING-OUT OF THE WORK AND PROTECTION OF BEACONS**

Add the following:

“The contractor shall be responsible for the true and proper setting out of the Works and for the correctness of the position, levels, dimensions and alignment of all parts of the Works and for the provision of all necessary instruments, appliances and labour in connection therewith.”

The Contractor shall take care that property beacons, trigonometrical survey beacons or setting-out beacons are not displaced or destroyed without the consent of the Engineer.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

Property beacons and trigonometrical survey beacons that have been displaced or destroyed shall be replaced by a registered land surveyor, who shall certify such replacement.

The cost of replacing all beacons displaced or destroyed during the course of the Contract without the consent of the Engineer shall be borne by the Contractor."

**B1209 PAYMENT****(b) Rates to be inclusive**

Add the following:

"VAT shall be excluded from the rates and provided for as a lump sum in the Summary of Bill of Quantities".

**(e) Materials on the site**

Add the following:

"In addition, the engineer may at his sole discretion also allow payments under "Materials on Site" in respect of any construction materials if stored off-site providing that:

- (a) The site selected for this purpose is approved by the engineer
- (b) Such land is physically separated from any production plant or operation
- (c) Only materials for use under this contract is stockpiled on such land
- (d) The contractor has provided proof of an agreement with the owner of such land that the owner has no claim whatsoever on any materials stockpiled on such land
- (e) Materials obtained by the contractor for or on behalf of emerging subcontractors (SMME's) shall remain the responsibility of the contractor after payment has been made in respect of materials on site."

**B1214 CONTRACTOR'S ACTIVITIES IN RESPECT OF PROPERTY OUTSIDE THE ROAD RESERVE AND OF SERVICES MOVED, DAMAGED OR ALTERED**

Add the following to the first paragraph of subclause (d)(ii)

"This is also required with respect to fences, gates, camp sites, bypasses and material spoiled on private property."

Add the following after subclause (e)

"These written statements, as required in Clause 1214(b)-(e) shall be handed to the Engineer before the final certificate will be issued."

**B1215 EXTENSION OF TIME RESULTING FROM ABNORMAL RAINFALL**

Add the following after the first paragraph of this clause:

"For the purposes of this contract, extension of time resulting from abnormal rainfall or other forms of inclement weather shall be determined according to the requirements of Method ii (critical-path method)."

**Method (ii) (Critical path method)**

Delete "(based on a five-day working week)" in the fifth and sixth lines of the second paragraph of the description of this method.

Delete the last sentence of the second paragraph of the description of this method and replace with the following:

"The value of "n" shall be taken as five (05) working days per calendar Month.

If normal rainy or inclement weather, resulting in delays, occurs for less than five (05) working days in any calendar Month, the difference between the five (05) working days and the actual number of working days on which normal rainy or inclement weather occurred, shall be ignored and not accumulated for the duration of the contract period for the purposes of determining an extension of time due to normal rainy weather, nor due to any other reason.

Items of work on the critical path of the programme of work which are subject to climatic limitations shall also be considered for extension of time if such items of work are delayed by e.g. cold weather, high winds or other inclement weather conditions.

In this regard, reference shall be made to weather limitations specified for the application of various bituminous products. However, for Months during which seal-work cannot be undertaken in terms of the specifications, no extension of time shall be claimed for.

Rainfall records for LOUIS TRICHARDT

<b>MONTH</b>	<b>AVERAGE RAINFALL (mm)</b>	<b>RAIN DAYS (per Month)</b>
JANUARY	95.8	12
FEBRUARY	82.9	11
MARCH	65.4	10
APRIL	25	6
MAY	9.7	3
JUNE	14.4	2
JULY	2.4	1
AUGUST	2.8	1
SEPTEMBER	4.1	3
OCTOBER	37.3	7
NOVEMBER	111	14
DECEMBER	92.6	13

**B1217 PROTECTION OF THE WORKS AND REQUIREMENTS TO BE MET BEFORE CONSTRUCTION OF NEWWORK ON TOP OF COMPLETED WORK IS COMMENCED**

Add the following subclause:

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

"(h) No concrete kerbing or concrete drains directly adjoining the bituminous surfacing shall be constructed prior to the completion of the bituminous surfacing."

**B1222 USE OF EXPLOSIVES**

Add the following subclause:

"(h) Where blasting operations are undertaken in close proximity of temporary deviations, the contractor shall implement all such safeguarding measures as may be required and instructed by the engineer."

**B1224 THE HANDING-OVER OF THE ROAD RESERVE**

Add the following:

"The total length of the road reserve between the specified limits of construction will be handed over to the contractor on the commencement date. Reference shall, however, be made to the requirements of section 1500 of these specifications where limitations in respect of work-areas are specified. In the event of the non-adherence by the contractor in terms of the mentioned specifications, the engineer shall withdraw such sections of the road reserve as may be justified to ensure suitable progress of the works or safe passage of traffic."

## B1229 SABS CEMENT SPECIFICATIONS

Replace the last paragraph of this clause with the following:

“Where reference is made in this specification or the standard specifications to the cement specifications, eg. SABS 471: Portland cement and rapid hardening Portland cement, it shall be replaced with the new specification:

### SABS ENV 197-1: Cement-composition, specifications and conformity criteria.

Part 1: Common cements.

Furthermore, where reference is made in this specification or the standard specifications to the different cement types, the following new names/types shall apply:

Old product nomenclature	Typical new product nomenclature	
	Cement type	Cement strength class
OPC	CEM I	32,5
	CEM I	32,5R
RHC	CEM I	42,5
	CEM I	42,5R
LASRC	No provision made	No provision made
PC15SL	CEM II/A-S	32,5
	CEM II/A-S	32,5R
	CEM II/A-S	42,5
PC15FA	CEM II/A-V	32,5
	CEM II/A-V	32,5R
	CEM II/A-W	32,5
	CEM II/A-W	32,5R
RH15FA	CEM II/A-V	42,5
	CEM II/A-V	42,5R
	CEM II/A-W	42,5
	CEM II/A-W	42,5R
PBFC	CEMIII/A	32,5
	CEMIII/A	32,5R
PFAC	CEM II/B-V	32,5
	CEM II/B-W	32,5
RH30SL	CEM II/B-S	32,5R
	CEM II/B-S	42,5
RH40SL	CEMIII/A	32,5R
	CEMIII/A	42,5

CEM I 32,5, CEM II A-S 32,5, CEM II/A-V 32,5, or CEMIII A may be used for the manufacture of reinforced concrete members.”

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

Add the following new clauses:

**“B1230: IN-SERVICE AND STRUCTURED TRAINING**

The contractor shall in addition to the structured (accredited) training as provided for in Part C of this document implement an in-service training programme, from the commencement of the contract, in which the various skills required for the execution and completion of the works are imparted to the labourers engaged thereon, in a programmed and progressive manner. Labourers shall be trained progressively throughout the duration of the contract, in the various stages of a particular type of work.

**(a) Details of in-service and structured training**

- (i) The contractor shall attach to form RDP 1(E) basic details of his proposed in-service training programme, which details shall inter alia include the following:
  - the details of training to be provided
  - the manner in which the training is to be delivered
  - the number and details of trainers to be utilised.
- (ii) The in-service training programme shall be submitted with the initial works programme. The progress in relation to this programme will be recorded Monthly and attached to the site meeting minutes and payment certificate.
- (iii) The contractor shall provide onsite, sufficient skilled and competent trainers to train all labourers engaged on the contract, in the various skills required for the execution and completion of the works.
- (iv) All labourers shall be remunerated in respect of all time spent undergoing training.
- (v) Every worker engaged on the contract shall on the termination of his participation on the contract, be entitled to receive from the contractor, a certificate of service in which the following information shall be recorded:
  - the name of the contractor
  - the name of the employee
  - the name of the project/contract
  - the nature of the work satisfactorily executed by the worker and the time spent thereon
  - the nature and extent of training provided to the worker
  - the dates of service.

The cost of the above obligations shall be deemed to be covered by the sums and rates tendered for items B13.01(a), (b) and (c) in the bill of quantities. The performance of the contractor in providing in-service training, shall be taken into consideration should the contractor fail to reach his CPG at the completion of the project.

**(b) Lead time for training**

The training of labour as specified shall, as far as possible, take place before commencement of each activity and the contractor shall take into account in his programme the lead-time he requires for such training. All training herein specified shall be deemed to be a construction activity and a non-negotiable condition of the contract”.

## **B1231 COMMUNITY LIAISON OFFICER (CLO)**

The contractor or his appointed agent will appoint a Community Liaison Officer (CLO) after consultation with the local communities, the engineer and the employer. The contractor shall direct all his liaison efforts with the local communities through the appointed officer. The contractor shall, however, accept the appointed as part of his management personnel.

### **(a) Duties of the Community Liaison Officer**

The Community Liaison Officer's duties will be:

- (i) To be available on site daily between the hours of 07:00 and 17:00 and at other times as the need arises. His normal working day will extend from 07:00 in the morning until 16:00 in the afternoon.
- (ii) To determine, in consultation with the contractor, the needs of the temporary labour for relevant skills training. He will be responsible for the identification of suitable trainees and will attend one of each of the training sessions.
- (iii) To communicate daily with the contractor and the engineer to determine the labour requirements with regard to numbers and skill, to facilitate in labour disputes and to assist in their resolution.
- (iv) To assist in and facilitate in the recruitment of suitable temporary labour and the establishment of a "labour desk".
- (v) To attend all meetings in which the community and/or labour are present or are required to be represented.
- (vi) To assist in the identification, and screening of labourers from the community in accordance with the contractor's requirements.
- (vii) To inform temporary labour of their conditions of temporary employment and to inform temporary labourers as early as possible when their period of employment will be terminated.
- (viii) To attend disciplinary proceedings to ensure that hearings are fair and reasonable.
- (ix) To keep a daily written record of his interviews and community liaison.
- (x) To attend Monthly site meetings to report on labour and RDP matters.
- (xi) All such other duties as agreed upon between all parties concerned.
- (xii) To submit Monthly returns regarding community liaison as illustrated in Part C5.1 of this document (form RDP 12(E)).

### **(b) Payment for the community liaison officer**

A special pay item is incorporated in section 1200 of the bill of quantities relating to payment of the liaison officer on a prime cost sum basis. This payment shall only be made for the period for which the duties of the liaison officer are required. The remuneration of the CLO shall be determined by the Employer in terms of the Sectorial determination 2: Civil Engineering Sector (Task grade 3).

### **(c) Period of employment of the community liaison officer**

The period of employment of the community liaison officer shall be as decided upon jointly by the contractor, engineer and employer at a maximum period of a six Months basis, but with the option of renewal.

## **B1232 SUBCONTRACTORS**

Over and above the stipulations of clause 4.4 of the General Conditions of Contract 2010, regarding subletting of part of the works, it is a condition of the contract that an approved

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

subcontractor shall not sublet part of his work, covered in his appointment by the main contractor, to another subcontractor without the consent and approval of the engineer. Subletting shall in all cases be critically considered by the engineer.

In addition to the provisions of clause 4.4 of the general conditions of contract regarding subcontracting of the works, it is a requirement of this contract that an approved subcontractor shall not further subcontract work subcontracted to him by the main contractor, to another subcontractor without the consent and approval of the engineer. Subcontracting shall in all cases be critically considered by the engineer. The engineer reserves the right to limit the extent or the volume of work subcontracted by the contractor, should he deem it necessary in terms of progress or quality of workmanship.

**B1233 WORKMEN'S COMPENSATION ACT**

All labour employed on the site shall be covered by the Compensation for Occupational Injuries and Deceases Act (COIDA). The contractor shall pay in full, including the payment of the necessary levies, such amounts, as are due in terms of the Act. The contractor at the commencement of the contract shall resolve the manner in which Workmen's Compensation will be handled. Amounts paid by the contractor shall not be included in the wage rates but shall be covered by the Contractor to be deemed as included in his General Obligations rates in Section 1300 of the Bill of Quantities.

Add the following clause:

## **B1234 MINE HEALTH AND SAFETY ACT 1996, ACT 29 OF 1996**

### **(a) Introduction**

The main objective of this Act is to protect the health and safety of persons at mines. This specification is therefore aimed at promoting health and safety specifically at borrow pits. Borrow pits are classified as mines.

### **(b) General Provisions**

The contractor shall be responsible for controlling his operations at every borrow pit where material is being excavated to ensure compliance with all the requirements of the Mine Health and Safety Act, 1996. The contractor shall also ensure that the works, shaping and finishing off of the borrow pit are done in accordance with the provisions as specified in section 3100 of the COLTO Standard Specifications and this Act. The contractor shall also comply to the requirements as set out in C3.4.3.2 Environmental Management Plan.

The minimum requirements for operations at borrow pits are:

- Borrow pits are worked in such a way that the health and safety of employees and the public will not be endangered.
- A Monthly report shall be submitted to the engineer on health and safety aspects at the borrow pits.
- The contractor shall appoint a manager to manage the borrow pits in accordance with the Mine Health and Safety Act.
- The contractor shall take the necessary steps to ensure that the work area of the borrow pits are safe at all times. This shall include items such as the provision of fencing and security guards.

### **(c) Duties of the Manager**

The minimum duties of the manager supervising the activities at borrow pits shall be:

- Maintain a healthy and safe borrow pit environment.
- Identify hazards and related risks to which persons and employees are exposed.
- Establish a health and safety policy that
  - Describes the organisation of work.
  - Contains aspects concerning the protection of the employees and other persons' health and safety.
  - Contains a risk analysis.
- Supply and erect the necessary safety and warning signs.

Add the following pay items and change the clause number.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**B12.35 MEASUREMENT AND PAYMENT**

Add the following items:

**“ITEM** **UNIT**

**B12.01 Locating Existing Services** Provisional Sum

**ITEM** **UNIT**

**B12.02 Hand Excavation to determine the positions of existing services**  
 To determine the positions of existing services cubic meter (m<sup>3</sup>)

Measurement and payment shall be as specified for item 22.01 in the standard specifications.

**ITEM** **UNIT**

**B12.03 Project Launch**  
 Project Launch Prime Cost Sum

**ITEM** **UNIT**

**B12.07 Provision for a Community Liaison Officer**  
 Provisional sum for the payment of the Community Liaison Officer Provisional Sum

Expenditure of the above item shall be made in accordance with the general conditions of contract.

**ITEM** **UNIT**

**B12.07 Provision for a Community Liaison Officer**  
 Provisional sum for the payment for attending steering Committee meetings Provisional Sum

**ITEM** **UNIT**

**B12.07 Handling costs and profit in respect of sub-items a to e**  
percentage (%)

Measurement and payment shall be in accordance with the general conditions of contract.”

The tendered percentage is a percentage of the amount actually spent under the sub-items, which shall include full compensation for the handling costs of the contractor, and the profit.

The prime cost sums shall be paid in accordance with the provisions of the General Conditions of Contract. The tendered percentage is a percentage of the amount actually spent under the prime cost items, which shall include full compensation for the profit in connection with providing the specified service.

**SECTION 1300 : CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS**

**B1302 GENERAL REQUIREMENTS**

**(a) Camps, constructional plant and testing facilities**

Add the following:

"The contractor shall, at each area where work is being undertaken, provide on a daily basis at least one (1) portable chemical latrine unit per thirty (30) workers for use by construction workers employed on the project. The latrine units shall be serviced daily and kept in a hygienic and orderly state to the satisfaction of the engineer. No separate payment shall be made for this requirement and shall be deemed to be included in the rates tendered for the contractor's time-related obligations."

**B1303 PAYMENT**

<b>ITEM</b>	<b>UNIT</b>
<b>B13.01 The contractor's general obligations</b>	(As specified)

Add the following after the fifth paragraph:

"The combined total tendered for sub-items (a), (b) and (c) shall not exceed 15% of the tender sum, excluding VAT.

Should the contractor be of the opinion that 15% is inadequate to cover his costs in terms of section 1300, he shall indicate separately with his tender where such costs have been allowed for in his tender. If no such indication is given, the contractor shall not at any stage during the contract for any reason whatsoever claim additional compensation under this item."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION 1400 : HOUSING, OFFICES AND LABORATORIES FOR THE ENGINEER'S SITE PERSONNEL**

**B1402 OFFICES AND LABORATORIES**

**(a) General**

Add the following:

"The facilities to be provided for the engineer in terms of these specifications shall be fenced off by a two metre high veranda type security fence with diamond mesh on the vertical portion and barbed wire on the overhang. A security gate shall be provided in the fence which shall be guarded at all times by an acceptable watchman provided by the contractor.

The engineer's establishment may be incorporated within the contractor's establishment provided that the preceding requirements are met to the satisfaction of the engineer.

Separate payment shall be made for the provision and erecting of the security fence and gate as indicated on the drawings, but the cost in respect of the provision of a watchman at all times by the contractor shall be deemed to be included in the contractor's tendered rate for item B13.01(c)."

**(b) Offices**

Add the following new sub-sub-clause:

"(xviii) The engineer's site supervisory staff shall be provided with cellular telephones by the contractor for site communication purposes. Provision is made in the bill of quantities for separate payment of the supply and operating costs of such cellular phones."

**B1406 MEASUREMENT AND PAYMENT**

Add the following sub-item:

<b>ITEM</b>	<b>UNIT</b>
<b>B14.11 Provision of cellular telephone to the Engineer:</b>	
(a) Cost of cellular phone, calls and other charges	Provisional Sum (P Sum)
(b) Handling cost and profits in respect of item B14.11(a)	Percentage (%)

The unit of measurement for item B14.11 shall include full compensation for the Monthly cellular phone costs for the Engineer's site personnel.

Measurement and payment in respect of the provisional sum item shall be made in accordance with the provisions of the general conditions of contract.

<b>ITEM</b>	<b>UNIT</b>
<b>B14.12 Provision and erection of security fencing (Including gate)</b>	metre (m)

The unit of measurement shall be the metre of security fence supplied and erected as indicated on the drawings and/or ordered by the engineer. The tendered rate shall include full

compensation for procuring and furnishing of all material, including one vehicle gate, labour and equipment required to erect the specified security fence and maintain it for the duration of the contract."

**General: Method of payment**

Add the following:

"The tendered rates under this section of the bill of quantities shall also include full compensation for the dismantling and removal from site of all offices, laboratories and other facilities provided for the engineer's supervisory staff at the completion of the contract."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION 1500 : ACCOMMODATION OF TRAFFIC****B1502 GENERAL REQUIREMENTS****(e) Access to properties**

Add the following:

“Where the alignment of the new road coincides with the alignment of the existing road, a number of accesses to private properties will have to be operational and maintained during the constructional period. No separate payment will be made for providing acceptable and safe access across the new road at all times during construction of the road.”

**(i) Traffic safety officer**

Add the following after subclause (viii):

“(ix) be responsible for contacting all the relevant authorities in the event of an accident on the site of the Works

(vi) arrange for the removal of broken down vehicles that obstruct the normal traffic flow

The Contractor shall provide the traffic safety officer with all the necessary resources to carry out his duties as specified, inter alia, light delivery van (LDV), personnel, warning signs and revolving amber flashing lights. A warning sign with the words “CONTRACTOR TRAFFIC CONTROL” and/or “AANNEMER VERKEERSBEHEER” in clearly legible letters shall be mounted on the vehicle at least 1,5m above ground level to be clearly visible. The vehicle shall be equipped with two revolving amber-coloured flashing lights with a minimum intensity of 55W. The flashing lights shall be switched on and the warning sign be displayed at all times when the vehicle is used on the site.

No separate payment will be made for the traffic safety officer, his vehicle, personnel and equipment and the cost thereof shall be included in the Contractor’s cost for his establishment and general obligations (Section 1300).”

Add the following new subclauses:

**“(j) Handing over the site**

The total extent of the site between the limits of construction as described in this document and indicated on the drawings will be handed over to the contractor at the commencement of the contract period. The engineer however reserves the right to adjust this arrangement should progress or safe passage of traffic warrant such a change.

**(k) Use of explosives in close proximity of temporary deviations**

The contractor shall arrange all necessary traffic control and other requirements to safeguard the traffic on temporary deviations during blasting operations.

**(l) Land taken up for deviations**

Negotiations with landowners to obtain the land taken up by temporary deviations will be undertaken by the employer. A prime cost sum is allowed in the bill of quantities for payment of compensation to affected landowners. All other negotiations regarding temporary access to properties, land-use, fencing requirements etc. shall be dealt with by the contractor in conjunction with the engineer and be confirmed in writing and be kept on record by the contractor.

**“(m) Maximum lengths of construction areas**

A temporary deviation, where the proposed road follows the existing route shall be constructed

along the length of existing road. Traffic shall generally be accommodated as follows:

On a two-way two lane gravel deviation (Class 1) constructed partially outside or adjacent to the existing road reserve boundaries of road.

- (i) On one-way single lane gravel deviation (Class 2) constructed inside the existing road reserve boundaries and on either side of road. In this instance special cognisance shall be taken to accommodate traffic to private properties.

A maximum length of one section of approximately 5,0km or two sections of 3,0km each of deviation (Class 1 or 2) shall be operational at a time and no relieve of this limitation shall be considered by the engineer except where the programme necessitates such at the construction of bridges.”

### **B1503 TEMPORARY TRAFFIC CONTROL FACILITIES**

Add the following after the first paragraph:

“All temporary road signs, devices, sequences, layouts and spacing shall comply with the requirements of the Road Traffic Act, 1996 (Act 93 of 1996), the National Road Traffic Regulations, 2000, the South African Road Traffic Signs Manual, the requirements of the relevant road authority and the drawings. All temporary traffic control facilities shall comply with the guidelines set in SA Road Traffic Signs Manual, Volume 2, Chapter 13: Roadworks Signing, (SARTSM, June 1999, obtainable from the Government Printer, Pretoria).”

#### **(b) Road signs and barricades**

Add the following:

“All the temporary road signs are to be mounted on posts as specified in section 5600 of the specifications. Provision shall be made for the supply and erection of the signs and the maintenance of the signs during the construction period. Provisions shall also be made for the removal of the temporary road signs on completion of the construction work when such signs are no longer required.

Temporary road signs and channelization devices shall be manufactured in accordance with the latest edition of the South African Road Traffic Signs Manual (June 1999) and placed as shown on the drawings and in Road Signs Note 13. Delineators shall be manufactured from a non-metal material and shall be mounted on a base section also manufactured of non-metal material. Single as well as back-to-back mounted delineators are required.

The obligation to arrange safe passage of traffic shall always be vested with the contractor regardless what is indicated on the drawings of the engineer.”

#### **(c) Channelization devices and barricades**

Add the following:

“Drums shall not be used as channelization devices.

TW 401 and TW 402 delineators shall comply with the following requirements:

- a) It shall be manufactured from a flexible material and shall comply with SABS 1555. The blade portion of the delineator shall be positively affixed to a base unit which in turn shall be stable on its own or be stabilized by means of sandbags when used on the road.
- ii) The blade shall be retro-reflectorised, with class 1 yellow sheeting on the side facing oncoming traffic..
- iii) It shall nominally be 1000mm high x 250mm wide and the bottom edge of the delineator shall not be more than 200mm above the road surface.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

iv) It shall be subject to the approval of the Engineer.

The maximum spacing between centres of delineators shall be as shown on the drawings or as directed by the Engineer.”

**(e) Warning devices**

Add the following:

“It is a requirement of this contract that all construction vehicles and plant used on the works will be equipped with rotating amber flashing lights and warning boards as specified in the standard specifications. Construction vehicles travelling outside the limits of construction areas shall however, not operate the warning lights.

The warning lights shall have a base diameter of at least 170mm and the amber bulb cover a height of a least 150mm high. It shall be a requirement that the contractor also provides the engineer’s site personnel with warning lights for their vehicles (a maximum of two lights are required) without any payment applicable.

**B1514 TEMPORARY FENCING AND GATES**

Replace the contents of this clause with the following:

“Where temporary fencing is ordered by the engineer, it shall be paid for under item 55.06 of the standard specifications. The temporary fencing shall be new fencing material, which shall subsequently be dismantled and removed and erected at an alternative position as directed by the engineer. When ordered by the engineer, temporary fences and gates shall be moved to new locations or either left in place or when no longer required be dismantled and removed from site if so directed. Allowance is made in the bill of quantities for moving existing fences and gates.”

Add the following clause:

**B1517 RETRO-REFLECTIVE MATERIAL**

“Retro-reflective material for temporary signs shall comply with the requirements of SABS 1519-1 for weathered material. Tests shall be carried out with a field retro-reflectometer and the testing procedure and classification are described in Clause B 8118. The value of the coefficient of Retro-Reflection shall be at least 60% of the values indicated in Table B 8118/1.”

**B1518 MEASUREMENT AND PAYMENT**

Re-number item 15.01 as B15.01 and add the following:

“The tendered rate shall also include for all measures necessary to safeguard traffic on temporary deviations during blasting operations as well as all temporary traffic-control facilities for temporary deviations.”

Delete all references to half width construction under payment item 15.01. Half width construction will be measured under payment item 15.10.

Re-number item 15.03 as B15.03 and add the following

“This sections provides only for additional traffic-control facilities as and when required on instruction by the Engineer and does not provide for facilities already included under payment item B15.01”

Add the following sub-item:

<b>“ITEM</b>	<b>UNIT</b>
<b>B15.02 Temporary traffic control facilities</b>	
(n) Provision of high visibility safety jackets and safety hats	number (No)

The unit of measurement shall be the number of safety jackets supplied to the supervisory staff.

The tendered rate shall include full compensation for providing and maintaining hats and the jackets equipped with high visibility retro-reflective and/or fluorescent panels in red, yellow and white for the duration of the contract”.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION1700: CLEARING AND GRUBBING**

**B1702 DESCRIPTION OF WORK**

**a) Clearing**

Add the following:

“Clearing shall include the removal of material to a thickness of up to 150mm in-situ material as ordered by the engineer. No payment shall be made for temporary stockpiling of topsoil material in the case where this material is applied as topsoil after completion of road side slopes.

Should the required depth exceed 150mm, the total volume of material removed shall either be classified as “temporary stockpiling of topsoil” or “unsuitable roadbed material” or “cut to spoil” whichever is applicable as allowed for in the standard specifications. In these cases no payment shall be made for clearing and grubbing.

Clearing as described shall in all cases be undertaken in such a manner that the topsoil is preserved and not contaminated with other debris or rubbish. Cross-sections for the determination of earthworks quantities shall be taken after clearing (topsoil or unsuitable roadbed material) and roadbed preparation if applicable.

Payment for gabion boxes and mattresses which have to be removed and the material sorted and stacked shall be made under section 5200”

**B1703 EXECUTION OF WORK**

**(a) Areas to be cleared and grubbed**

Add the following:

“Apart from normal clearing and grubbing, the fill embankments of the existing roads are also to be cleared and grubbed over the areas where the new horizontal alignment coincides with the alignment of the existing road, or where repairs are required to the fill embankments of the approaches of bridges. Provision is made for separate payment for clearing and grubbing of the existing fill embankments where conventional machinery might be suitable to undertake the work due to the steep side slopes of the embankments. An additional pay-item is allowed for in the bill of quantities for this type of clearing and grubbing which may have to be undertaken by hand or similar manner.”

**B1704 MEASUREMENT AND PAYMENT**

Change item 17.01 to read as follows:

<b>ITEM</b>	<b>UNIT</b>
<b>B17.01 Clearing and grubbing of:</b>	
Clearing and grubbing	hectare (ha)

Measurement and payment for item B17.01 shall be as specified for item 17.01 of the standard specifications.

## SECTION 1800 : DAYWORK SCHEDULE

Note: This is a new section added to the Standard Specifications.

Add the following:

### B1801 SCOPE

This section covers the listing of daywork items for use in determining payment for work which cannot be quantified in specific pay item "units" in the bill of quantities or work ordered by the engineer during the construction period which was not foreseen at tender stage for which no applicable rate exists in the schedule or for work of a special or different character warranting special payment as decided by the engineer.

### B1802 ORDERING OF DAYWORK

No daywork shall be undertaken unless specific written authorisation is obtained from the engineer.

### B1803 MEASUREMENT AND PAYMENT

The engineer may order the following daywork items:

ITEM	DESCRIPTION	UNIT
B18.01	(a) Normal hours of duty of:	
	(i) Unskilled	Hour (h)
	(ii) Semi-skilled	Hour (h)
	(iii) Skilled	Hour (h)
	(iv) Foreman	Hour (h)
B18.02	Hire of construction equipment	
	(a) Excavator 22 –30 ton	Hour (h)
	(b) TL Backactor	Hour (h)
	(c) Front end loader	Hour (h)
	(d) Platform truck	Hour (h)
	(e) Tip truck	Hour (h)
	(f) Grader (CAT 140G or similar)	Hour (h)
	(g) Walk behind roller ( <i>Bomag BW90 or similar</i> )	Hour (h)
	(h) Mechanical Broom	Hour (h)
	(i) D6 Dozer	Hour (h)
	(j) Compressor	Hour (h)
	(k) Submersible dewatering pump	Hour (h)

The unit of measurement shall be the actual number of hours worked by labourers or foremen or an item of plant.

The tendered rates shall include full compensation for all cost items including overheads, head-office expenses and profits as described in sub-clause 6.5 of the general conditions of contract and shall be subject to contract price adjustment as provided for in the contract.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

The mark-ups on daywork items in accordance with the Appendix to the Tender shall not be applicable on daywork items listed in the bill of quantities in terms of the above specifications. In the event of new daywork rates being requested for items not appearing in the bill of quantities, then the provisions of the general conditions of contract and the Appendix to the Tender shall apply.

Prior to the commencement of any work by the labourers described under item B18.01, the contractor must obtain written consent from the engineer regarding the classification and composition of all labourers in terms of “unskilled” and “skilled” labourers required for the work as ordered by the engineer.”

## **SECTION 2100 : DRAINS**

### **B2103 BANKS AND DYKES**

Add the following:

“Mitre banks at culvert inlets should be considered at such a skew angle that it guides the water into the inlet with a minimum loss of velocity (energy).”

### **B2104 SUBSOIL DRAINAGE**

#### **(a) Materials**

##### **(i) Pipes**

Delete the last sentence of the fifth paragraph and substitute it with the following:

“Perforation for 100mm pipes shall be spaced in two rows, one on each side of the vertical centre line of the pipe, and at one third of the circumference. The perforation for the 150mm pipes shall be spaced in four rows, two as described for 100mm pipes, and the other two rows at two thirds of the circumference.”

##### **(ii) Synthetic-fibre filter fabric**

Add the following:

“All filter fabric shall be a non-woven needle punched type material and must be approved by the engineer. Filter fabrics shall have a minimum co-efficient of permeability of  $3 \times 10^{-3}$  m per second.”

### **B2107 MEASUREMENT AND PAYMENT**

Add the following new items:

<b>ITEM</b>	<b>UNIT</b>
-------------	-------------

<b>B21.20 Galvanised wire mesh 250 x 250mm, at the outlets of subsoil drainage systems. Mesh 10mm x 2,5mm wire diameter</b>	Number (No)
---	-------------

The unit of measurement shall be the number of 250mm x 200mm pieces of wire mesh, with a 10mm x 10mm mesh and 2,5mm wire diameter built into the subsurface drain outlet structure as shown on the drawings.

The tendered rate shall include for procuring, furnishing and installing the material, cutting, waste and keeping the mesh in the pipe opening clean during installation.

<b>ITEM</b>	<b>UNIT</b>
-------------	-------------

<b>B21.21 Subsoil drainage markers</b>	Number (No)
--	-------------

Measurement and payment shall be as specified for item 22.24 in the standard specifications.”

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION 2200 : PREFABRICATED CULVERTS****B2201 SCOPE**

Add the following:

“All rectangular culverts with spans from 0,9m up to and including 2,4m shall be constructed with precast units.

The attention of the contractor is drawn to the fact that information given on the plans, longitudinal sections or drainage schedules may have to be altered to suit actual site conditions and, therefore, the contractor shall only construct these culverts after the engineer has verified the information on the drawings from detail surveys taken on site by the contractor as directed by the engineer.

Precast units shall be ordered by the contractor from actual measurements of length acquired on the site and not from lengths stated in the drainage schedule or from the bill of quantities.

No precast units shall be ordered until the engineer has satisfied himself that the proposed units have been manufactured to the required tolerances and loading standards. The engineer must be given the opportunity to load test units if he considers this necessary”.

**B2203 MATERIALS****(f) Skewed Ends**

Delete the second and third paragraphs and substitute with the following:

“Precast portal and rectangular culverts placed on a skew shall be supplied with cast in situ skewed ends as shown on the drawings. In situ skew ends are to be constructed simultaneously with the wingwalls and headwalls”.

**B2204 CONSTRUCTION METHODS**

Add the following:

“In all cases where soft founding materials is classified as suitable for culvert bedding construction, the in situ material shall be ripped, moistened and compacted to 90% or 93% modified AASHTO density. The depth of preparation and compaction of founding material shall be as indicated on the drawings or as specified by the engineer. Allowance for measurement and payment for this work is made in the bill of quantities under this section.”

**(c) Excavation by hand**

Where circumstances prevent the use of mechanical excavators and material can be removed only by hand tools, the engineer shall authorise the supplementary payment to the contractor for such work at the tendered rates for excavation by hand should he be satisfied that the contractor had been unable to prevent the necessity for excavation by hand by proper planning and precautionary measures. The supplementary rate for excavation by hand shall not apply to minor finishing or clearing jobs in excavations which are otherwise being done by mass excavation plant.

Payment for hand excavation shall be an "extra over" payment to normal excavation as allowed for in item 22.01.”

**B2205 EXCAVATION FOR CONSTRUCTION BY TRENCH METHOD**

Add the following subclauses:

**"(c) Excavation by hand**

Where circumstances prevent the use of mechanical excavators and material can be removed only by hand tools, the engineer shall authorise the supplementary payment to the contractor for such work at the tendered rates for excavation by hand should he be satisfied that the contractor had been unable to prevent the necessity for excavation by hand by proper planning and precautionary measures. The supplementary rate for excavation by hand shall not apply to minor finishing or clearing jobs in excavations which are otherwise being done by mass excavation plant.

Payment for hand excavation shall be an "extra over" payment to normal excavation as allowed for in item 22.01.

**(d) Drainage of excavations**

The contractor shall apply suitable, effective drainage and dewatering methods for preventing the ingress of water into the excavation and to keep them dry.

Drainage measures, with the exception of pumping, shall be maintained until the backfilling has been completed. Between various construction stages, pumping may be interrupted in consultation with the engineer.

Any draining or pumping of water shall be done in a manner as will preclude the concrete or materials or any part thereof from being carried away.

Allowance for measurement and payment for dewatering and keeping dry of culvert excavations is made in the schedule in this section".

**B2210 LAYING AND BEDDING OF PREFABRICATED CULVERTS**

**B2210(b)(i) Cast in situ invert slabs**

Replace with the following:

"In accordance with the drawings, transverse construction joints are required in cast in situ concrete invert slabs for portal culverts. In addition, longitudinal construction joints as shown on the drawings between the invert slabs of each of the barrels of multiple culverts are required. Allowance for measurement and payment for a Class F1 surface finish and soft board in these joints is made in the bill of quantities. No payment shall be made for formwork on the outside edges of invert slabs (closest to excavated face).

All culverts (precast as well as in situ) shall be constructed with an in situ reinforced concrete floor laid on a 75mm concrete screed".

Delete subclause B.2210(b)(ii) : "Prefabricated floor slabs."

**B2211 BACKFILLING OF PREFABRICATED CULVERTS**

Change the last sentence in the fourth paragraph to read "90% or 93% as shown on the drawings or as directed by the engineer."

**B2212 INLET AND OUTLET STRUCTURES, CATCHPITS AND MANHOLES**

**(b) Concrete work**

Add the following:

"The type of surface finish for in situ concrete in the culverts shall be as indicated on the drawings. Generally all exposed faces shall be of Class F2 formwork and faces covered by backfill shall be Class F1. The top of parapet walls and wingwalls shall be finished to a Class U2 surface finish."

**(h) Prefabricated inlet and outlet structures**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

Add the following:

"The use of precast concrete inlets and outlets as described in clause 2212(h), shall not be allowed under any circumstances. Cast in situ concrete wingwall type inlets and outlets shall be constructed as indicated on the drawings and shall be in accordance with section 6000 of the Standard Specifications. Allowance for measurement and payment for wingwall type inlets and outlets is made in the schedule in this section."

**B2218 MEASUREMENTS AND PAYMENT**

Add the following to pay item 22.05:

"In addition to the requirements for measuring concrete backfill to rectangular culverts as specified for item 22.08, the following shall apply:

Concrete backfill shall be measured to the actual dimensions of the precast units, i.e. actual volumes between ribs and haunches shall be taken into account. For the purpose of calculating concrete backfill quantities, the horizontal dimensions of the concrete backfill on the outside of the culvert(s) (closest to excavated face), shall be taken as 100mm maximum irrespective of what type or make of precast portal is used or the actual width of the excavation.

The width of the concrete backfill between portals in the case of multiple culverts, shall be taken as 80mm for precast units with a leg height of 1500mm and 100mm for precast units with a leg height exceeding 1500mm. The vertical dimensions, in both cases, shall be equal to the height of the portal".

## **SECTION 2300 : CONCRETE KERBING, CONCRETE CHANNELLING, CHUTES AND DOWNPIPES AND CONCRETE LININGS FOR OPEN DRAINS**

### **B2301 SCOPE**

Add the following:

“The position and length of the following types of concrete kerbs and channels are indicated on the geometric layout plans, typical drawings and on the drainage plans.

- Type A : In situ concrete channel, 0,8m wide on fills
- Type B : Precast concrete kerbing, semi-mountable (SABS 927-1969)
- Type C : In situ concrete kerbing at intersections
- Edge beam : In situ concrete kerbing at farm access and bus stops
- Type E, F1 & F2 : In situ concrete “V”-shaped channels in side drains and open drains.”

### **B2302 MATERIAL**

Add the following new sub-clauses:

#### **(e) Metal pipes**

“Metal pipes down side slopes shall comply with the requirements of clause 2203 of the standard specifications.”

### **B2304 CONSTRUCTION**

#### **(d) Slip form kerbing**

Add the following:

“Slip-form kerbing shall under no circumstances be allowed.”

#### **(e) Cast in situ kerbs and channels**

Add the following:

“Forming and templates used to form joints between alternate sections shall be of steel plate of which the thickness shall not be less than 5mm.”

Add the following new sub-clauses:

#### **(i) Construction sequence**

Replace paragraphs (i), (ii) and (iii) with the following:

“In all cases where kerbing and/or channelling adjoin the bituminous surface of the road, the kerbing and/or channelling may only be constructed after the bituminous surface has been completed.

Before commencing with the kerbing and/or channelling, the surfacing and the base, shall be accurately cut to line with a mechanical saw to a minimum depth of 75mm. After excavation the concrete shall then be cast against the cut surface without formwork. All material outside the cut line must be carefully removed to the required thickness of concrete without damaging the edge before commencing with the casting of the concrete. No payment shall be made for repair work as instructed by the engineer to damage caused by the cutting/excavating process of surfacing and base layers. Any concrete spilt onto the surfacing shall immediately be removed and cleaned. Where so required by the engineer, the contractor shall, without any additional compensation, paint emulsion over the stained surface.

Add the following sub-clause:

#### **(k) Formwork and finish**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

“Formwork and finish of concrete kerbs shall comply with the requirements of section 6200. All visible edges on the sides or at joints of cast in situ concrete kerbs or channels shall be rounded with a rounding tool.”

## **SECTION 3100 : BORROW MATERIALS**

### **B3102 NEGOTIATIONS WITH OWNERS AND AUTHORITIES**

Add the following to sub-clause 3102(a):

“Arrangements regarding to access to borrow pits and the alignment of haul roads shall be made between the contractor and the owners of the land on which borrow pits are situated. The engineer’s representative on site shall be present at all such negotiations, which shall be confirmed in writing by the contractor. All costs involved with such negotiations as well as the requirements contained in clause 3102 and clause 1225 of the specifications shall be borne entirely by the contractor.”

### **B3103 OBTAINING BORROW MATERIALS**

#### **(a) General**

Add the following:

“The expropriation and compensation for land from which borrow materials is obtained shall be negotiated and paid for by the employer.”

#### **(b) Use of borrow materials**

Add the following to the second paragraph of this sub-clause:

“Compensation to owners and arrangements with owners for taking material from alternative borrow pits proposed by the contractor shall be the contractor’s responsibility and entirely at his own expenses.”

### **B3104 OPENING AND WORKING BORROW PITS AND HAUL ROADS**

#### **(c) Excess overburden**

Add the following:

“All excess overburden removed at borrow pits shall be replaced over the entire area of the borrow pit after initial shaping has been undertaken in an even layer. Payment for this requirement shall be deemed to be included in pay item 31.01

#### **(f) Protecting borrow pits**

Add the following:

"It is a requirement of the contract that each borrow pit or pits shall be provided with fencing around the perimeters, including a access gate, of the borrow areas, including the supply of danger warning signage fixed to the fencing, visible at all sides approaching the borrow pit area. The fencing shall be erected prior to entering the land for borrowing purposes and shall on final finishing of the borrow areas as specified by the employer, be dismantled and removed or left in-place as instructed by the employer. Payment for fencing around borrow pits shall be made in accordance with the stipulations of section 5500 in these specifications."

In addition to fencing, Security Guards shall be supply on a 24 hour, 7 days a week basis, with full time communication to the Site Manager or site camp for the duration of the contract and activities at the borrow pits.”

Add the following new sub-clause:

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**“(h) Haul roads**

Haul roads to designated borrow pits along the road shall be constructed along alignments as instructed by the engineer and shall be maintained at the contractor's own cost to the satisfaction of the engineer."

**B3105 FINISHING-OFF BORROW AREAS AND HAUL ROADS**

Add the following to this clause:

"Should the employer, engineer or any other authority approved by the engineer, require a higher standard of shaping and finishing off of borrow pits than specified in the standard specifications, measurement and payment for such extra work shall be made using daywork items as scheduled under this section."

**B3108 MEASUREMENT AND PAYMENT**

Change item 31.01 to read as follows:

<b>"ITEM</b>	<b>UNIT</b>
<b>B31.01 Excess overburden :</b>	
(a) Depth up to and including 0,5m	cubic meter (m <sup>3</sup> )
(b) Depth exceeding 0,5m and up to 1,0m	cubic meter (m <sup>3</sup> )

Measurement and payment shall be as specified for item 31.01 of the standard specifications with the abovementioned depth ranges applicable."

Add the following new item:

## **SECTION 3300 : MASS EARTHWORKS**

### **B3305 TREATING THE ROADBED**

#### **(a) Removing unsuitable material**

Add the following to the third paragraph:

"For the purpose of this contract, excavation and removal of in-situ clayey material over areas where the road is in a fill condition, shall be classified as removal of unsuitable material, irrespective of the stability or moisture condition of the in-situ material".

#### **(c) Preparing and compacting the roadbed**

Delete the last sentence of the first paragraph "If necessary, roadbed.....depth of compaction" and replace as follows:

"Where demarcated by the engineer, prior to the roadbed being scarified, the excess in situ material forming part of the present roadway, and within the limits of the roadbed, and in close proximity of the layer works, but falling within the limits of the layer works, shall be bladed to controlled level in order to achieve the required level and necessary depth of compaction."

### **B3307 FILLS**

#### **(c) Constructing a pioneer layer**

Add the following to the first paragraph:

"For the purpose of this contract, pioneer layers shall be completed by means of eight-pass roller compaction using vibratory rollers as specified in sub-clause 3304(b) of the standard specifications."

#### **(d) Benching**

Add the following:

"Benching of fill and pavement layer material is required to be undertaken into the existing fill embankments and pavement layers. No additional payment shall be made over and above the normal pay items applicable to earthworks and pavement layers where benching is required for widening of the existing road formation. Benching shall be undertaken as shown on the drawings.

It is a requirement that benching shall always be started at the bottom of the existing fill progressing to the top of the formation. The dimensions and details of benching are shown on the drawings."

### **B3308 FINISHING THE SLOPES**

#### **(d) General**

Add the following:

"Where existing cut and fill slopes are excessively eroded or where slippages occurred in slopes, the slopes are to be reinstated by means of backfilling with suitable gravel material. All loose material and vegetation shall first be removed from the eroded cut and fill slopes before backfilling may commence from the bottom of the cut or fill. The backfill material shall be benched into the existing slopes and compacted to 90% of modified AASHTO density, using suitable small compaction equipment e.g. Bomag walk-behind rollers or hand-held compaction tools. Benching shall be executed to the dimensions shown on the drawings. Upon completion of the backfilling operation the cut and fill slopes shall be neatly finished as specified."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION 3400 : PAVEMENT LAYERS OF GRAVEL MATERIAL****B3402 MATERIALS****(a) General**

Add the following:

"Material requirements for gravel pavement layers are in accordance with TRH4 and shall be indicated on the drawings."

**B3405 CONSTRUCTION TOLERANCES****(e) Cross-section**

Delete the second paragraph and replace with the following:

"The normal crossfall of the road wearing course where the road is in a straight horizontal alignment, is specified as 3% as shown on the drawings.

At any cross-section the measured crossfall between any two points shall at least be 2,8% and not more than 3,5%. At any cross-section the actual level at any point shall not be higher than 10mm above the computed level from the cross-section as specified and the actual level, if lower than the computed level, shall not be lower by more than that derived from the specifications for longitudinal grade and crossfall deviations."

**(f) Surface regularity**

Add the following:

"Where transverse construction joints in base layers are made between newly and previously constructed sections, the contractor shall exercise level control at such joints by installing level poles at 5m intervals on either side of the joint of the layer covering at least a 30m length into the newly constructed section.

**B3406 QUALITY OF MATERIALS AND WORKMANSHIP**

Add the following:

"Test results and measurements shall be assessed by the engineer according to the provisions of Section 8300 of the standard specifications".

## SECTION 3500 : STABILISATION

### B3503 CHEMICAL STABILISATION

#### (a) Preparing the layer

Add the following:

Breaking-down and removal of oversize material and addition of material to make to required thickness shall be completed before stabilising agent shall be added."

#### (h) Curing the stabilised work

Add the following:

"It is the intention of this contract that curing of chemically stabilised layers shall be undertaken in accordance to protection method (ii) as specified. Any other method of curing shall only be allowed in special circumstances as decided upon by the engineer, but no additional payment whatsoever over and above that allowed for in item 35.05 will be made."

#### (i) Construction limitations

In table 3503/1, replace "8 hours" with "6 hours."

### B3506 TOLERANCES

#### (b) Uniformity of mix (chemical stabilisation)

Add the following:

"All pavement layers, especially layers which are to be chemically stabilised, shall, apart from the application of other mixing equipment, include at least two motor grader blade mixing operations to the full depth of the layer.

The in-place mixing of chemical stabilising agents with gravel materials shall be executed in such a manner that the coefficient of variation in the uniformity of the mix shall not exceed 30% when the stabilised layer is subjected to the chemical titration test, TMH1 method A15d. For plant-mixed stabilised materials the coefficient of variation shall not exceed 20%.

The coefficient of variation,  $C_v$ , is calculated by the formula:

$$C_v = \frac{S_n}{X_n} \times 100 \text{ where,}$$

$S_n$  = standard deviation of n determinations of stabilising agent content

$X_n$  = mean percentage of n determinations of stabilising agent content with n = 4 minimum."

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**B3509      QUALITY OF MATERIALS AND WORKMANSHIP**

Add the following:

“The preparation of chemically stabilised material for the determination of the modified AASHTO density of the material shall be executed in accordance with TMH1 test method A16T and compaction thereof in accordance with TMH1 test method A7.”

## SECTION B4200: ASPHALT BASE AND SURFACING

### B4202 MATERIALS

#### (a) Bituminous binders

##### (i) Conventional binders

*Add the following:*

“The binders to be used shall be as follows:

- (a) Continuously graded surfacing: A-P1 plastomer modified binder class”.

#### (b) Aggregates

*Add the following paragraph to the introductory description:*

“Asphalt mixes shall be manufactured using different individual single size coarse aggregates fractions and crushed fine aggregates blended to conform to the specified grading requirements. The use of natural sands shall only be permitted if approved by the engineer and shall be limited to a maximum of 5% for continuously graded mixes. All aggregate in excess of 4,75mm shall consist of individual nominal single sized aggregate. Contractors shall note that commercial suppliers may not be able to supply all the required single size aggregates, in which instance arrangements will have to be made for additional on site screening. No additional payment shall be made for screening aggregate. The use of run of crusher type materials shall not be permitted.

If Recovered Asphalt Product (RAP) is used, maximum of forty percent (40%) of RAP will be added to the new material.”

##### (v) Absorption

*Add the following sentence:*

“In addition, the total binder absorption of the combined coarse and fine aggregate blend shall not exceed 0,5%”

##### (viii) Grading

*Delete the second paragraph commencing with "The target grading..." and add the following paragraphs:*

The grading limits for the combined aggregate grading for the asphalt surfacing shall be as specified in table 4202/7: Continuously graded medium grade.”

#### (c) Fillers

*Delete the second last sentence of the first paragraph and replace with:*

“With the exception of stone mastic asphalt, in no instance shall more than 2% by mass of active filler be used in the mixes.”

*Add the following after the last paragraph:*

“For tender purposes the active filler shall be hydrated lime”

**(h) General**

*Add the following after the second paragraph:*

“Sufficient aggregate for a minimum of 3 days production shall be separately stockpiled and tested for conformance and uniformity prior to use. The test results shall be presented to the engineer”

**B4203 COMPOSITION OF ASPHALT BASE AND SURFACING MIXTURES**

*In the first paragraph, third last line, after “or active filler content” add:*

“or aggregate content”

*Replace the fifth paragraph with the following:*

“The design of the asphalt mixes shall be in accordance with “Interim guidelines for the design of hot-mix asphalt in South Africa (June 2001)”, and appropriate research results. The mix properties and requirements shall be as specified in the project specifications”

The binder used must be appropriate for the quality of the RAP and the contractor is to decide on the bitumen to be used so that the mix complies with the requirements of Table B4203/2.

The asphalt mixes for the surfacing layer shall comply with the requirements in table B4203/2.

**TABLE B4203/2: PROPERTIES OF POLYMER-MODIFIED BINDER FOR HOT-MIX**

**ASPHALT**

Property	Unit	Test Method	Binder Class
			A-P1
Softening Point <sup>1</sup>	°C	MB-17	63-73
Dynamic Viscosity@165°C	Pa.s	MB-18	≤0.55
Force Ductility @ 5°C	N	EN 13703	Report <sup>3</sup>
Elastic Recovery @ 15°C	%	MB-4	>30
Torsional Recovery @ 25°C	%	MB-5	Report
Storage Stab @ 160°C)	°C	MB-6	≤5
Flash Point	°C	ASTM: D93	≥230
Complex shear modulus: G*Sin δ @10 rad/s	°C	AASHTO:TP5	Report
Creep Stiffness	MPa	AASHTO:TP1	Report
<b>Properties after ageing (RTFOT)</b>			<b>MB-3</b>
Diff in Softening Point	°C	MB-17	-2 to +8
Elastic Recovery @ 15°C	%	MB-4	Report <sup>2</sup>
Mass change	%	MB-3	≤1.0
Torsional Recovery @ 25°C	%	MB-5	Report
Dynamic Viscosity @ 165°C	Pa.s	MB-18	Report <sup>2</sup>

Data presented above to be verified / updated with the latest version of “*Technical Guideline: The use of Modified Bituminous Binders in Road Construction, TG1, November 2007*” available from the Asphalt Academy ([www.asphaltacademy.co.za](http://www.asphaltacademy.co.za)).

## **SECTION 5200 : GABIONS**

### **B5201 SCOPE**

Add the following paragraph

“This section also covers the removal, dismantling and stacking of existing gabion work, and the reuse of these materials where authorised by the engineer.”

### **B5203 CONSTRUCTION OF GABION CAGES**

#### **(a) General**

Add the following new sub-clause:

“(iii) Reno mattresses or similar may be used as alternative to gabion boxes. These Reno mattresses are to be manufactured of 80mm x 100mm mesh (2,5mm diameter wires, diaphragm spacing 0,6m).

### **B5204 CONSTRUCTING GABIONS**

#### **(c) Assembly**

Delete and substitute with:

#### **(c) Assembly, erection and stretching**

##### **(i) Assembly**

“Prior to assembly, the gabion material shall be opened out flat on the ground and stretched to remove any kinks and bends. The gabion boxes shall then be assembled individually by raising the sides, ends and diaphragms ensuring that all creases are in the correct position and that the tops of all four sides are even. The four corners of the gabion boxes shall be laced first followed by the edges of internal diaphragms to the sides. In all cases lacing shall commence at the top of the box by twisting the end of the lacing wire around the selvages. It shall then be passed round two edges being joined, through each mesh in turn and securely tied off at the bottom. The ends of all lacing wire shall be turned to the inside of the box on completion of each lacing operation.

##### **(ii) Erection**

Only assembled boxes, or groups of boxes, shall be positioned in the structure. The side, or end, from which work is to proceed, shall be secured to either completed work or by rods or stakes driven into the ground at the corners. These must be secured and reach at least to the top of the gabion box. Further gabions shall then be positioned in the structure as required, each being securely laced to the preceding one at all corners and diaphragm points.

##### **(iii) Stretching**

On completion of erection of a suitable length of gabion, the gabion boxes shall be stretched using a wire strainer or winch of at least one ton capacity firmly secured to the free end of the assembled gabion boxes.

Whilst under tension the gabion boxes shall be securely laced along edges (top, bottom and sides) and at diaphragm points, to all adjacent boxes and shall thereafter be filled.”

#### **(d) Rock filling**

Add the following new sub-sub-clause:

##### **(iii) General**

“Filling shall be carried out only whilst gabion boxes are under tension. Filling material shall consist of rock of size not less than 120mm and not greater than 250mm so placed to produce a neat face and line with a minimum of voids.

Internal horizontal bracing wire shall be provided at 500mm vertical centres or such spacing to ensure a ratio of four to every 1m<sup>3</sup> of filling. These bracing wires shall be wrapped around two mesh wires and extended from front to back so positioned to ensure a neat face and line free

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

of excessive bulges and depressions. Gabion boxes shall be filled in stages and horizontal bracing wires inserted as filling is brought up.

Similar bracing wires used vertically shall be provided in 0,5mm deep gabions at 330mm horizontal centres where water falls directly onto gabions or where a neat face is required.

Tension on the gabion boxes shall be released only when sufficiently full to prevent the mesh from slackening.

Gabion boxes shall be overfilled by 20 to 50mm above their tops to allow subsequent settlement of the filling."

Add the following new sub-clauses:

**(e) Final wiring**

"Closing and wiring down of lids shall proceed as soon as possible after filling operations and certainly in the likelihood of storms or floods during construction. The wiring down shall consist of wrapping around wire at such intervals as required or specified.

Lids shall be stretched tight over the filling with bars and wired down securely through each mesh along all edges, ends and diaphragms. The ends of all tying and bracing wires shall be turned into the gabion box on completion of all lacing operations.

Tightness of mesh, well packed filling and secure lacing is essential in all structures."

**(f) Removal, dismantling and stacking of gabions**

"Existing gabions, either damaged or not, that require to be removed or moved to a new location shall be dismantled. Material not required for re-assembly or unsuitable for re-use shall be neatly stacked at approved locations in accordance with the engineer's instructions. Payment will be made only for gabions removed in accordance with the written instruction of the engineer.

Where gabions require moving, or as declared suitable by the engineer are re-usable, the contractor shall re-use all the material, plus supply such new materials as may be required to re-assemble the gabion again to the standard specification for new gabions."

## **SECTION 5600 : ROAD SIGNS**

### **B5601 SCOPE**

“This section also covers the supply and erection of permanent danger plates at culverts and bridges at the locations indicated on the drawings or as directed by the engineer.”

### **B5603 MANUFACTURING OF ROAD SIGN BOARDS AND SUPPORTS**

#### **(a) Road signboards**

Add the following:

“The contractor shall make every effort to ensure that signboards are correct in all respect and before dispatching the boards from the manufacturer’s factory shall provide the Engineer with a 100mm x 150mm colour photograph of each sign face for approval of the correctness of the legend. Such approval will not imply final acceptance of the board. If the Contractor is in any doubt as to the correctness of the sign detail, the sign designer shall be contacted for verification.”

#### **(a) (ii) Steel profile road signboards**

Add the following:

“Where the letter or legends cross the horizontal joints of the sign panels, the letter shall be cut on the joint and both ends folded around the radius.

Retro-reflective material to adjoining Chromadek panels on a sign shall be practical visual match of the specified colour.”

### **B5604 ROAD SIGN FACES AND PAINTING**

Add the following new subclause:

#### **“(e) Application of retro-reflective material**

All sign faces shall be faced with diamond grade retro-reflective material. Painted front sign faces shall not be used.

Where applied to Chromadek sections, retro-reflective material shall be applied as specified for aluminium section in Clause 5603(d) of the Standard Specification, and of Clause B5603(a)(ii) of this project Specification.”

### **B5605 STORAGE AND HANDLING**

Add the following:

“The following shall not be allowed on the sign face:

Drilling of holes, except for the fastening of overlays

Application of any form of adhesive

Cleaning with any chemicals that are not specifically approved by the manufacturer of the retro-reflective material

Covering the sign face with an impermeable material that does not allow free circulation of air.”

### **B5606 ERECTING ROAD SIGNS**

#### **(c) Erection**

Add the following:

“After erection the signboard shall be thoroughly cleaned with a cleaning agent approved by the retro-reflective material’s manufacturer.

All vegetation obstructing the new or replaced sign board shall be removed and disposed of as instructed by the Engineer.”

### **B5608 DISMANTLING, STORING AND RE-ERECTING EXISTING ROAD SIGNS**

Add the following:

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

“Existing overhead and ground mounted road signs that are being replaced by new signs shall be dismantled and disposed of by the Contractor. Where possible the dismantling of the signs shall not be before the replacement sign is erected and displayed. Where dismantling of the sign is required before erection of the replacement sign, the dismantling shall not take place until immediately before work is to commence on the replacement, and the replacement shall be completed and the new sign displayed as soon as possible thereafter (within 72 hours).

Dismantling shall include sign panels and ground mounted sign supports.

Ground mounted sign supports shall be cut off just below ground level. Material excavated for removal of buried poles shall be replaced, and any depression made good using excess material from excavation for new signs.

Pay items are provided in the Bill of Quantities. Payment will differentiate between different types of sign panels.”

**B5609 MEASUREMENT AND PAYMENT**

**ITEM** **UNIT**

B56.01 Road sign boards with painted or coloured semi-matt background. Symbols, lettering, and borders in diamond grade retro-reflective material, where the sign board is constructed from:

Amend the last two lines of the second paragraph to read:

“completion, delivery, installation of the road sign board complete as specified, and the removal and disposal of all vegetation obstructing the motorists’ view of the new or replaced sign board. Add the following pay items:

**“ITEM** **UNIT**

**B56.10 Danger plates at culverts/structures**

	(a)	Type A at stormwater culverts (size indicated)	number (No.)
	(b)	Type B at bridges (size indicated)	number (No.)

The unit of measurement shall be the number of danger plates provided and erected in accordance with the drawings.

The tendered rate shall include full compensation for all labour and material, painting, posts, excavation, backfilling with soil etc., as may be necessary for completing the work in accordance with the details shown on the drawings.”

## **SECTION 5700 : ROAD MARKINGS**

### **B5706      SETTING OUT THE ROAD MARKINGS**

Add the following:

“Where road markings are to be replaced after milling/overlay seal, it is essential that all existing barrier lines and other road marking lines be accurately referenced before commencement of milling or other operations which will obliterate the existing road markings. The position of barrier lines shall be re-assessed on site by the Engineer before the Contractor commences with the road marking.”

### **B5707      APPLYING THE PAINT**

Add the following:

“The Contractor’s establishment on site and general obligation shall be deemed to fully include the establishment of the road-marking team, irrespective of the number of times the road-marking team is required to be onsite or is required to move within the site.”

### **B5711      GENERAL**

Insert the following into the last sentence of the last paragraph between “black paint” and “or chemical paint remover”:

“, bituminous emulsion, slurry”

Add the following to the last paragraph:

“Where black paint is used, it shall be matt.”

Add the following new clause:

### **“B5715      REMOVAL OF EXISTING ROAD STUDS**

The existing road studs shall be removed from the road surface prior to milling.”

### **B5714      MEASUREMENT AND PAYMENT**

<b>ITEM</b>	<b>UNIT</b>
<b>B57.06      Setting out and pre-marking the lines (excluding traffic island markings, lettering and symbols)</b>	

Add the following:

“Referencing of existing barrier lines and other road marking lines prior to milling and other operations, shall be included in the tendered rate for setting out and pre-marking.”

Add the following item:

<b><u>Item</u></b>	<b><u>Unit</u></b>
B57.07 Establishment of painting unit during the construction period	Lump sum

The unit of measurement shall be the lump sum to compensate the contractor for the establishment and removal of the painting unit after the retention period.

The tendered lump sum shall include full compensation for the establishment on site and for the removal of all equipment, personnel, etc. as may be required for the application of the road marking.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**SECTION 5900 : FINISHING THE ROADANDROAD RESERVE AND TREATING OLD  
ROADS**

**B5902 FINISHING THE ROADANDROAD RESERVE**

Add the following to the first paragraph:

“The contractor shall pay special attention to the collection and removal of all waste materials originating from the construction activities. All materials trimmed or excavated from the road shall be collected and removed from the road reserve to the satisfaction of the engineer.

This requirement shall be deemed to be incorporated in the tendered rates for item 59.01 of the bill of quantities or such other items as the contractor may decide upon.

The engineer may order additional finishing of the road reserve which will entail the collection and disposal of loose rocks etc. Payment for this work will be made under daywork items included in section 5900 of the bill of quantities as described in section 1800 of these project specifications.”

## **SECTION 6100 : FOUNDATIONS FOR STRUCTURES**

### **B6102 MATERIAL**

#### **(b) Rock (for rock fill)**

*Replace this section with the following:*

“Stones/rock shall be hard, angular veld or quarry stones or rock fragments of such quality that they will not disintegrate on exposure to water or weathering. The stones/rock shall be free from soil, shale or organic material.

The size of the stone/rock fragments must be uniform, with a maximum largest stone/rock dimension of 250mm, and at least 85% of the rocks shall have an average least dimension of 100mm. Neither the breath or the thickness of a single stone shall be less than one-third its length.”

#### **(c) Crushed stone**

*Replace this section with the following:*

“Crushed stone used for construction of crushed stone foundation fill shall be 20mm stone used and approved for concrete works.”

### **B6105 EXCAVATION**

#### **(d) Classification of excavated material**

*Delete clause (i) and substitute it with the following:*

##### **“(i) Hard Material**

“Boulders which the longest dimension exceeds 1,5m or which the volume exceeds 0,75m<sup>3</sup> shall be classified as hard material;

or

material which cannot be excavated except by drilling and blasting or by using pneumatic tools or mechanical breakers shall be classified as hard material.”

### **B6108 BACKFILL AND FILL NEAR STRUCTURES**

#### **(a) General**

*Add the following:*

- (iv) "During backfilling within 1,0m of any concrete structure, or as directed by the Engineer, only hand operated mechanical compaction equipment shall be used to achieve the required density."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**B6109 FOUNDATION FILL**

*Add the following after the 3rd paragraph:*

"Granular foundation fill shall be constructed from approved granular material of at least gravel subbase quality."

*Add the following after the 6th paragraph:*

"Concrete screeds shall extend 200mm beyond the horizontal dimensions of all footings to facilitate the placing of formwork, unless otherwise directed by the engineer.

In the case of structures where excessive ground water is encountered, the screed shall extend over the full plan area of the base of the excavation. Payment shall be made for the quantity of concrete calculated as the product of the specified thickness of the screed and the actual area of screed specified by the engineer up to a maximum area of the product of the neat footing length plus 1m and the neat footing width plus 1m."

**B6115 MEASUREMENT AND PAYMENT**

*Add the following note immediately after B6115 Measurement and Payment clause heading:*

"Note:

The Contractor shall note that, notwithstanding the fact that various payment items indicate that haul, overhaul and all associated terms will be paid for separately, this shall not apply to Section 6100."

<b>ITEM</b>	<b>UNIT</b>
<b>B61.02 Excavation</b>	cubic metre (m <sup>3</sup> )

*Delete the following words in the second last paragraph:*

"the hauling of excavated material for the free-haul distance of 1,0 km,"

*Add the following sentence at the end of the same paragraph:*

"The haulage and disposal of excavated material to an approved spoil site shall be deemed to be included in the tendered rates, irrespective of the hauling distance."

<b>ITEM</b>	<b>UNIT</b>
<b>B61.03 Access and Drainage</b>	
<b>(a) Access</b>	lump sum

*Add the following to the payment paragraph:*

"The tendered lump sum shall also include for all draining by pumping or in any other way and for any other work necessary for keeping the excavations dry or for working in the dry."

<b>ITEM</b>	<b>UNIT</b>
<b>B61.04 Backfill to excavation utilising</b>	cubic metre (m <sup>3</sup> )

*Delete the following words in the last paragraph:*

... "transporting the material within the free-haul distance of 1,0 km," ...

*Add the following sentence at the end of the same paragraph:*

"The transportation of backfill material shall be deemed to be included in the tendered rates, irrespective of the hauling distance."

<b>ITEM</b>	<b>UNIT</b>
<b>B61.08 Foundation fill consisting of:</b>	
<b>(a) Rock fill</b>	cubic metre (m <sup>3</sup> )
<b>(b) Crushed-stone fill</b>	cubic metre (m <sup>3</sup> )

*Add the following to the payment paragraph:*

"The tendered rates for rock fill and crushed stone fill shall also include full compensation for procuring the material from commercial sources and all transporting and stock piling costs."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**SECTION 6200 : FALSEWORK, FORMWORK AND CONCRETE FINISH****B6205 CONSTRUCTION****(b) Formwork****(i) General**

*Add the following:*

“Formwork to faces of structures with a gradient equal to or greater than ten vertical to one horizontal shall be classified as vertical formwork.

Formwork to faces of structures with a gradient of less than ten vertical to one horizontal, or equal to or greater than one vertical to ten horizontal, shall be classified as inclined formwork.

Formwork to faces of structures with a gradient of less than one vertical to ten horizontal shall be classified as horizontal formwork.”

**B6206 REMOVING THE FALSEWORK AND FORMWORK**

*Replace the second and third sentences in the first paragraph with:*

“The minimum period for the falsework and formwork for the deck/roof slabs to remain in place shall be:

- At Structure B1 a period of 21 days.
- At structure B2 a period of 14 days.

and on condition that the deck (or roof slab) concrete attained 80% of its specified strength by that time.”

**B6210 MEASUREMENT AND PAYMENT**

*Delete the heading "Note" and the subsequent paragraph after item 62.04.*

## **SECTION 6300: STEEL REINFORCEMENT FOR STRUCTURES**

### **B6302 MATERIALS**

#### **(a) Steel bars**

*Replace the first and second paragraph with the following:*

"Steel reinforcing bars shall comply with the requirements of SANS 920. For each consignment of steel reinforcement delivered on site, the contractor shall submit a certificate by a recognised testing authority to confirm that the steel complies with the specified requirements. The reinforcement may only be used on approval by the engineer.

Cold-worked reinforcing bars shall not be used.

The type of bar required shall be indicated on the drawings by the symbols R, Y or Z in accordance with SANS 282."

### **B6306 PLACING AND FIXING**

*Delete the second and third paragraph and replace with the following:*

"The concrete cover for all structural concrete shall be within the acceptance ranges as per section 6803(f). Prior to fixing the steel, samples of the proposed cover and spacer blocks shall be submitted to the Engineer along with a written method statement for in-situ manufacture, if applicable, for approval."

### **B6307 COVER AND SUPPORT**

*Add the following to the end of the fifth paragraph:*

"No plastic or wood cover blocks will be permitted. Only semi-spherical concrete cover blocks shall be used. Where fixing wire is inserted into cover blocks, it shall be galvanised. Concrete cover and spacer blocks can be sourced from approved commercial source or can be manufactured on site. All cover blocks regardless if manufactured on site or obtained commercially shall not be visible on exposed concrete surfaces."

If cover blocks are manufactured on site, it must also have approved semi-spherical shape, and must be made using the same cement and aggregate type as the main concrete with the same water/cement ratio so that differences in shrinkage, thermal movements and strain are minimised. Cover blocks shall be water cured by submersion for a minimum of 7 days and thereafter kept submerged in water until immediately before fixing onto reinforcing steel."

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

**SECTION 6400 : CONCRETE FOR STRUCTURES**

**B6402 MATERIALS**

**(a) Cement**

*Replace the colon at the end of the first paragraph with a comma, and add the following:*

“taking into account the adoption of the new SANS 50197-1:2000 code for cements: (refer to C&CI website [www.cnci.org.za](http://www.cnci.org.za))”

*Add the following paragraphs:*

“The type of cement to be used in any concrete element shall take into account the environmental conditions and durability requirements at the location of the site of the works, and shall be selected according to Table B6402/1 below, subject to the approval of the engineer.

With the exception of the standard SANS approved cement blends supplied by the primary cement producers, the blending of CEM1 and extenders shall not be permitted unless specifically approved by the engineer on the basis of an acceptable quality assurance procedure. In the case of the major culverts and bridges to be constructed in terms of this contract, the applicable condition of exposure in Table B6402/1 for **the selection of the type of cement shall be “2. SEVERE”**

**Table B6402/1: SELECTION OF CEMENT TYPE**

Condition of Exposure	Placing Temperature of Concrete	Type of Cement***
1. MODERATE Concrete surfaces above ground level and protected against alternately wet and dry conditions caused by water, rain and sea-water spray	< 20°C	CEM I CEM II A – S CEM II B – S
	20°C - 30°C	CEM I CEM II A – S CEM II B – S CEM II A – V CEM II B – V
<b>2. SEVERE</b> <b>Concrete surfaces exposed to hard rain and alternatively wet and dry conditions</b>	< 20°C	CEM I CEM II A – S CEM II B – S
	<b>20°C - 30°C</b>	<b>CEM I</b> <b>CEM II A – S</b> <b>CEM II B – S</b> <b>CEM II A – V</b> <b>CEM II B – V</b>

3. VERY SEVERE Concrete surfaces exposed to aggressive water, sea-water spray or a saline atmosphere	< 20°C	CEM II B – S CEM II B – V
	20°C - 30°C	CEM II B – S CEM II B – V
4. EXTREME Concrete surfaces exposed to the abrasive action of sea water or very aggressive water	< 20°C	CEM II B – S
	20°C - 30°C	CEM II B – S

\*\*\* Notes to Table B6402/1:

1. Where the effective final composition of the cement as used in the manufacture of the concrete falls within the CEM I category, such concrete shall be used only in environments where the concrete is not prone to chloride attack, i.e., in inland drier environments.
2. Where a strength class of 42,5 or greater is required, and the placing temperature of concrete is between 20°C and 30°C, a set and hydration retarding admixture shall be used where required so as not to exacerbate bleeding.

**b) Aggregates**

*Delete the remainder of the sentence after “exceed” in sub-clause (i)(1) and replace with the following:*

“150% of that of the reference norite aggregate or any of the other three reference aggregates”

*Delete the remainder of the sentence after “exceed” in sub--clause (i)(2) and replace with the following:*

“200% and of the coarse aggregate 175% of that of the reference norite aggregate or any of the other three reference aggregates”

*Delete the remainder of the sentence after “exceed” in the first paragraph of sub-clause (i)(3) and replace with the following:*

“235% of that of the reference norite aggregate or any of the other three reference aggregates”

*Delete the entire last paragraph of sub-sub-sub-clause (i)(3) commencing with “The drying shrinkage of concrete...”*

*Replace subclause B6402(b)(iv) with the following:*

"The particular combination of aggregate and cement shall be tested for potential alkali aggregate reactivity in accordance with the test method as described in subclause 8105(f) and, where the results point to such reaction, either the aggregate or the cement, or both shall be replaced so that an acceptable combination may be obtained."

*Add the following subclauses:*

"(vi) The maximum chloride ion content of fine aggregate shall be 0,03% by mass of aggregate as measured by SANS 1083:2006. Where concrete is situated in a chloride environment, the value shall be reduced from 0,03% to 0,01%.

(vii) In addition to SANS 1083:2006 grading requirements for fine aggregates, the grading of the approved sand shall be such that between 25% and 35% by mass shall pass the 300 µm sieve. Sands that do not comply with this requirement will have to be blended with an approved fine sand in order to achieve the requirement.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

(viii) The aggregate shall have a wet 10% FACT value of at least 75% of that of the determined dry value (SANS 1083)."

**d) Water**

*Add the following:*

"Water for concrete other than prestressed concrete, shall not contain chlorides, calculated as sodium chloride, in excess of three thousand parts per million (3000ppm) nor sulphates, calculated as sodium sulphate, in excess of two thousand parts per million (2000ppm).

Water for curing concrete shall not contain impurities in sufficient amount to cause discolouration of the concrete or produce etching of the surface.

No water containing salts shall be used.

No water shall be added on site to ready mix concrete prior to placing to improve workability. All concrete delivered to site shall be checked for workability using the slump cone test and slump measured outside of the limit set from the design mix shall be rejected."

**e) Admixtures**

*Add the following sub-sub-clauses:*

"(v) Admixtures, which have a retarding effect on the rate of hydration of the cement, may not be used when the concrete temperature is below 20°C.

(vi) A retarding admixture shall be used if the temperatures of concrete mixes using cements of strength class 42.5 or higher is between 20 to 30°C or where the ambient temperature is between 20 to 30°C."

*Add the following:*

"Note: Only admixtures of the type that do not increase the water content of the mix will be considered by the Engineer. In addition, no admixtures shall be added on site to ready mix concrete prior to placing to improve workability."

**B6404 CONCRETE QUALITY****(b) Strength concrete**

Add the following paragraph:

"The cement content for any class of structural concrete or mass concrete used in structures shall not be less than 300kg/m<sup>3</sup> of concrete.

The contractor must provide the engineer with complete mix designs and materials test results for strength concrete at least four (4) weeks before the first concrete is cast on the project" on Colto Form D2 complete with all required test results for stone, sand and water. The minimum target design strengths for concrete mix designs must be at least 15% higher than the specified concrete cube strength (Characteristic cube compressive strength)

The following information/tests on the stone are also required and to be completed on form D2:

- Rock type from which sourced
- Flakiness index,
- ACV(%)
- 10% FACT (kN)
- Alkali reaction (y/n)
- Voids content
- Water absorption

The following information/tests on the sand are also required and to be completed on form D2:

- Rock type originally from
- Organic impurities/materials (y/n)
- Sugar detection
- pH
- Soluble deleterious impurities (Soluble salts (%), Soluble sulfates (%), Deleterious clay content, etc)
- Chloride content
- Sand equivalent value
- Shell content
- Alkali Reaction (y/n)

The following information/tests on the water that will be used to manufacture concrete are also required and to be completed on form D2 (also refer to Table 8116/1 in Colto):

- pH
- Sulphates
- Chlorides
- Conductivity
- Total dissolved solids
- Alkali carbonates and bicarbonates
- Sugar
- Organic impurities

The cost of obtaining concrete mix designs in the prescribed format, and the cost of all above tests must be included in the Contractor's rates for concrete."

## **B6405 MEASURING THE MATERIALS**

### **(c) Aggregates**

Add the following:

"All concrete for structures shall be manufactured by mechanical mass batching on site. Volume batching will not be allowed."

## **B6406 MIXING**

### **(a) General**

Add the following:

"The Contractor must include in his rates to establish a concrete batching plant on site. The Contractor must establish on site a 750 litre minimum size, calibrated mechanical mass batch-mixer and also a standby mixer of at least 400 litre minimum size, calibrated mechanical mass batch-mixer"

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**(e) Standby mixer**

Add the following:

"The Contractor must include in his rates to establish a concrete batching plant on site. The Contractor must establish on site also a standby mixer of at least 400 litre minimum size, calibrated mechanical mass batch-mixer"

**(f) Ready-mixed Concrete**

Replace the paragraph with the following:

"Commercial ready-mixed concrete will not be allowed on this project, to maximise local labour content on the project"

**B6407 PLACING AND COMPACTING****(a) General**

Add the following after the third paragraph:

"Concrete shall only be placed up to 20:00 at the latest. Under exceptional circumstances the Engineer may allow night work on condition that proper lighting arrangements can be made and a new and rested shift for night work is provided and ambient temperatures are such as to not adversely affect the setting of the concrete."

*Add the following paragraphs to the end of subclause 6407(a):*

"The concreting operations for all major culvert and bridge elements shall require careful planning, and sufficient concrete product and concreting resources such as labour, tools, equipment and plant shall be made available on each day of concreting to ensure that the concrete construction planned for that day is successfully achieved.

One Month before the programmed date for the first element of box culvert or bridge concreting, the contractor shall be required to submit to the engineer for his approval a detailed method statement fully covering the proposed concreting operations required to construct the box culvert or bridge. The method statement shall, inter alia, include details of labour and supervision, tools and equipment (wheel barrows, spades, poker vibrators, hoists, baffled chutes, downpipes, flexible drop chutes, etc.), plant (batching plant, concrete dumpers, cranes, pumps, etc. including back-up plant and equipment), production rates, ready-mixed concrete supplier details and proposed schedule of concrete delivery times (if ready-mixed concrete is to be used), sequence of construction, curing method to be used, contingency plans and health and safety obligations. Box culvert and bridge concrete shall only be placed once the engineer is satisfied that every reasonable effort has been made by the contractor to ensure the success of the concrete placing operation. The approved method statement shall then apply to all other major culvert and bridge concreting operations of similar nature, and any amendments required to the approved method statement shall also be approved by the engineer prior to implementation."

## **B6408 CONSTRUCTION JOINTS**

### **(a) General**

Add the following:

"No construction joints other than those indicated on the drawings will be permitted without the written approval of the engineer".

## **B6409 CURING AND PROTECTING**

Add the following:

Any vertical faces where formwork is removed before 7 days must be treated with an approved **wax-based** curing compound

The surface area of bridge footings, culvert floor slabs and culvert roof slabs shall be cured as follows:

- (i) The area of freshly cast and finished concrete surface shall be immediately covered and cured as specified in clause 6409 (c) and (e), or
- (ii) After the concrete has set sufficiently the entire area shall be treated with an approved **wax-based** curing compound as specified in clause 6409(f).

The surface area of bridge decks, which will be surfaced with asphalt, shall be cured as follows:

- (i) The area of freshly cast and finished concrete surface shall be immediately covered and cured as specified in clause 6409 (c) and (e), or
- (ii) After the concrete has set sufficiently the entire area shall be treated with an approved **resin-based** curing compound as specified in clause 6409(f)."

## **B6414 QUALITY OF MATERIALS AND WORKMANSHIP**

### **(a) Criteria for compliance with the requirements**

Add the following:

"Quality control shall be carried out by the engineer as specified in Section 8200 : Quality Control (Scheme 1)."

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**B6416 MEASUREMENT AND PAYMENT**

<b>ITEM</b>	<b>UNIT</b>
<b>B64.01 Cast in situ concrete:</b>	cubic metre (m <sup>3</sup> )

Add the following after the first paragraph:

"Where foundation slabs are set directly against the face of excavations, the volume of concrete measured for payment shall include the total volumes of concrete placed, allowing for up to a maximum over the neat footing dimensions of 200mm where in the opinion of the engineer accurate excavation to neat lines and levels indicated on the drawings is not possible. (No formwork to the footing shall be measured when the concrete is cast against the face of the excavations)."

**SECTION 6600 : NO-FINES CONCRETE, JOINTS, BEARINGS, BOLT GROUPS FOR  
ELECTRIFICATION, PARAPETS AND DRAINAGE FOR STRUCTURE**

**B6606 DRAINAGE FOR STRUCTURES**

**(c) Synthetic-fibre filter fabric**

Add the following:

"The synthetic-fibre filter fabric used in conjunction with crushed stone in drainage strips shall be Bidim Grade A4 or an approved equivalent material. An overlap of 300 mm shall be provided at joints."

### **C3.4.3 PROJECT SPECIFICATIONS: ADDITIONAL SPECIFICATIONS**

#### **CONTENTS**

- C3.4.3.1 REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS
- C3.4.3.2 ENVIRONMENTAL MANAGEMENT PLAN
- C3.4.3.3 PROVISION OF STRUCTURED TRAINING
- C3.4.3.4 PROVISION OF THE TEMPORARY WORKFORCE

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**C3.4.3.1 OCCUPATIONAL HEALTH AND SAFETY ACT 1993 : HEALTH AND SAFETY SPECIFICATION****CONTENTS**

C3.4.3.1.1 INTRODUCTION

C3.4.3.1.2 SCOPE

C3.4.3.1.3 GENERAL OCCUPATIONAL HEALTH AND SAFETY PROVISIONS

C3.4.3.1.4 OPERATIONAL CONTROL

ANNEXURE 1: MEASURING INJURY EXPERIENCE

ANNEXURE 2: EXECUTIVE SHE RISK MANAGEMENT REPORT

ANNEXURE 3: LIST OF RISK ASSESSMENTS

**C3.4.3.1.1 Introduction**

In terms of the Construction Regulation 4(1) (a) of the Occupational Health and Safety Act, No. 85 of 1993, Makhado Local Municipality, as the Client, is required to compile a Health & Safety Specification for any intended project and provide such specification to any prospective tenderer.

The Client's further duties are as in C3.5.1.3.1.1. below and in the Construction Regulations, 2003.

This specification has as objective to ensure that Principal Contractors entering into a Contract with the Makhado Local Municipality achieve an acceptable level of OH&S performance. This document forms an integral part of the Contract and Principal and other Contractors should make it part of any Contracts that they may have with Contractors and/or Suppliers.

Compliance with this document does not absolve the Principal Contractor from complying with minimum legal requirements and the Principal Contractor remains responsible for the health & safety of his employees and those of his Mandataries.

**C3.4.3.1.2 Scope**

Development of a health & safety specification that addresses all aspects of occupational health and safety as affected by the abovementioned contract work.

The specification will provide the requirements that Principal Contractors and other Contractors will have to comply with in order to reduce the risks associated with the abovementioned contract work that may lead to incidents causing injury and/or ill health, to a level as low as reasonably practicable.

### **C3.4.3.1.3 General Occupational Health & Safety Provision**

#### **(a) Hazard Identification & Risk Assessment (Construction Regulation 7)**

##### **(i) Risk Assessments**

Annexure 3 contains a list of Risk Assessment headings that have been identified by Makhado Local Municipality as possibly applicable to the abovementioned contract work. It is, by no means, exhaustive and is offered as an assistance to Contractors intending to tender.

Based on the Risk Assessments, the Principal Contractor must develop a set of site-specific OH&S rules that will be applied to regulate the OH&S aspects of the construction.

The Risk Assessments, together with the site-specific OH&S rules must be submitted to the Makhado Local Municipality before mobilisation on site commences.

Despite the Risk Assessments listed in Annexure 3, the Principal Contractor is required to conduct a baseline Risk Assessment and the aforesaid listed Risk Assessments must be incorporated into the base-line Risk Assessment. The baseline Risk Assessment must further include the Standard Working procedures (SWP) and the applicable Method Statements based on the Risk Assessments

All out-of-scope work must be associated with a Risk Assessment.

##### **(ii) Review of Risk Assessments**

The Principal Contractor is to review the Hazard Identification, Risk Assessments and SWP's at each Production Planning and Progress Report meeting as the Contract work develops and progresses and each time changes are made to the designs, plans and construction methods and processes.

The Principal Contractor must provide the Client, other Contractors and all other concerned-parties with copies of any changes, alterations or amendments as contemplated in above.

#### **(b) Legal Requirements**

All Contractors entering into a Contract with the Makhado Local Municipality shall, as a minimum, comply with the

- Occupational Health & Safety Act and Regulations (Act 85 of 1993). A current, up-to-date copy of the OHS Act must be available on site at all times
- Compensation for Occupational Injuries & Diseases Act (Act 130 of 1993). The principal Contractor will be required to submit a letter of Registration and "good-standing" from the Compensation Insurer before being awarded the Contract. A current, up-to-date copy of the COID Act must be available on site at all times.
- Where work is being carried out on mines' premises the Contractor will have to comply with the Mine Health & Safety Act and Regulations (Act. 29 of 1996) and any other OH&S requirements that the mine may specify. A current, up-to-date copy of the OHS Act must be available on site at all times.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

(c) Structure and Responsibilities

(i) Overall Supervision and Responsibility for OH&S

\* It is a requirement that the Principal Contractor, when he appoints Contractors (Sub-contractors) in terms of Construction Regulations 5(3), (5), (9), (10) and (12) he includes an OHS Act Section 37(2) agreement: "Agreement with Mandatary" in his agreement with such Contractors.

\* Any OH&S Act (85/1993), Section 16(2) appointee/s as detailed in his/her/their respective appointment forms

(ii) Further (Specific) Supervision Responsibilities for OH&S

The Contractor shall appoint designated competent employees and/or other competent persons as required by the Act and Regulations. Below is a list of identified appointments and may be used to select the appropriate appointments for the current contract:

	Ref. Section/Regulation in OHSAct
Batch Plant Supervisor	(Construction Regulation 6(1))
Construction Vehicles/Mobile Plant/Machinery Supervisor	(Construction Regulation 21)
Demolition Supervisor	(Construction Regulation 12)
Drivers/Operators of Construction Vehicles/Plant	(Construction Regulation 21)
Electrical Installation and Appliances Inspector	(Construction Regulation 22)
Emergency/Security/Fire Coordinator	(Construction Regulation 27)
Excavation Supervisor	(Construction Regulation 11)
Explosive Powered Tool Supervisor	(Construction Regulation 19)
Fall Protection Supervisor	(Construction Regulation 8)
First Aider	(General Safety Regulation 3)
Fire Equipment Inspector	(Construction Regulation 27)
Formwork & Support work Supervisor	(Construction Regulation 10)
Hazardous Chemical Substances Supervisor	(HCS Regulations)
Incident Investigator	(General Admin Regulation 29)
Ladder Inspector	(General Safety Regulation 13A)
Lifting Equipment Inspector	(Construction Regulation 20)
Materials Hoist Inspector	(Construction Regulation 17)
OH&S Committee	(OHS Act Section 19)
OH&S Officer	(Construction Regulation 6(6))
OH&S Representatives	(OHS Act Section 17)
Person Responsible for Machinery	(General Machinery Regulation 2)
Scaffolding Supervisor	(Construction Regulation 14)
Stacking & Storage Supervisor	(Construction Regulation 26)
Structures Supervisor	(Construction Regulation 9)
Suspended Platform Supervisor	(Construction Regulation 15)
Tunneling Supervisor	(Construction Regulation 13)
Vessels under Pressure Supervisor	(Vessels under Pressure Regulations)
Working on/next to Water Supervisor	(Construction Regulation 24)
Welding Supervisor	(General Safety Regulation 9)

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

Copies of appointments must be submitted to the Makhado Local Municipality together with concise CV's of the appointees. All appointments must be officially approved by Makhado Local Municipality. Any changes in appointees or appointments must be communicated to Makhado Local Municipality forthwith.

The Principal Contractor must, furthermore, provide Makhado Local Municipality with an organogram of all Contractors that he/she has appointed or intends to appoint and keep this list updated on a weekly basis.

In addition, Makhado Local Municipality may require that a Traffic Safety Officer be appointed for any project.

(iii) Designation of OH&S Representatives (Section 18 of the OHS Act)

OH&S Representatives have to be designated in writing and the designation must include the area of responsibility of the person and term of the designation.

(iv) Duties and Functions of the OH&S Representatives (Section 19 of the OHS Act)

The Principal Contractor must ensure that the designated OH&S Representatives conduct a minimum Monthly inspection of their respective areas of responsibility using a checklist and report thereon to the Principal Contractor

OH&S representatives must be included in accident/incident investigations

OH&S representatives must attend all OH&S committee meetings.

(v) Appointment of OH&S Committee (Section 20 of the OHS Act)

The Principal Contractor must establish an OH&S Committee consisting of all the designated OH&S Representatives together with a number of management representatives that are not allowed to exceed the number of OH&S representatives on the committee and a representative of the Client who shall act as the chairman without a vote. The members of the OH&S committee must be appointed in writing.

The OH&S Committee must meet minimum Monthly and consider, at least, the following Agenda:

1. Opening & Welcome
2. Present/Apologies/Absent
3. Minutes of previous Meeting
4. Matters Arising from the previous Minutes
5. OH&S Reps Reports
6. Incident Reports & Investigations
7. Incident/Injury Statistics
8. Other Matters
9. Endorsement of Registers and other statutory documents by a representative of the Principal Contractor
10. Close/Next Meeting

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

(d) Administrative Controls and the Occupational Health & Safety File

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

As required by Construction Regulation 5(7), the Principal Contractor and other Contractors will each keep an OH&S File on site containing the following documents as a minimum:

- \* Notification of Construction Work (Construction Regulation 3.)
- \* Copy of OH&S Act (updated) (General Administrative Regulation 4.)
- \* Proof of Registration and good standing with a COID Insurer (Construction Regulation 4 (g))
- \* OH&S Programme agreed with the Client including the underpinning Risk Assessment/s & Method Statements (Construction regulation 5 (1))
- \* Copies of OH&S Committee and other relevant Minutes
- \* Designs/drawings (Construction Regulation 5 (8))
- \* A list of Contractors (Sub-Contractors) including copies of the agreements between the parties and the type of work being done by each Contractor (Construction Regulation 9)
- \* Appointment/Designation forms as per (a)(i) & (ii) above.
- \* Registers as follows:
  - \* Accident/Incident Register (Annexure 1 of the General Administrative Regulations)
  - \* OH&S Representatives Inspection Register
  - \* Asbestos Demolition & Stripping Register
  - \* Batch Plant Inspections
  - \* Construction Vehicles & Mobile Plant Inspections by Controller
  - \* Daily Inspection of Vehicles, Plant and other Equipment by the Operator/Driver/User
  - \* Demolition Inspection Register
  - \* Designer's Inspection of Structures Record
  - \* Electrical Installations, -Equipment & -Appliances (including Portable Electrical Tools)
  - \* Excavations Inspection
  - \* Explosive Powered Tool Inspection, Maintenance, Issue & Returns Register (incl. cartridges & nails)
  - \* Fall Protection Inspection Register
  - \* First Aid Box Contents
  - \* Fire Equipment Inspection & Maintenance

- \* Formwork & Support work Inspections
- \* Hazardous Chemical Substances Record
- \* Ladder Inspections
- \* Lifting Equipment Register
- \* Materials Hoist Inspection Register
- \* Machinery Safety Inspection Register (incl. machine guards, lock-outs etc.)
- \* Scaffolding Inspections
- \* Stacking & Storage Inspection
- \* Inspection of Structures
- \* Inspection of Suspended Platforms
- \* Inspection of Tunnelling Operations
- \* Inspection of Vessels under Pressure
- \* Welding Equipment Inspections
- \* Inspection of Work conducted on or Near Water
- \* All other applicable records

Makhado Local Municipality will conduct an audit on the OH&S file of the Principal Contractor from time-to-time.

- (e) OH&S Goals & Objectives & Arrangements for Monitoring & Review of OH&S Performance

The Principal Contractor is required to maintain a CIFR of at least 8 (See Annexure 1. to this document: "Measuring Injury Experience) and report on this to Makhado Local Municipality on a Monthly basis

- (f) Notification of Construction Work (Construction Regulation 3.)

The Principal Contractor must, where the Contract meets the requirements laid down in Construction Regulation 3, within 5 working days, notify the Department of Labour of the intention to carry out construction work and use the form (Annexure A in the Construction Regulations) for the purpose. A copy must be held on the OH&S File and a copy must be forwarded to Makhado Local Municipality for record keeping purposes.

- (g) Training, Awareness and Competence

The contents and syllabi of all training required by the Act and Regulations are to be included in the Principal Contractor's OH&S Plan.

- (i) General Induction Training

All members of Contractor's Site management as well as all the persons appointed as responsible for OH&S in terms of the Construction and other Regulations will be required to attend a general induction session by the Client

All employees of the Principal and other Contractors to be in possession of proof of General Induction training.

- (ii) Site Specific Induction Training

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

The Principal Contractor will be required to develop Contract work project specific induction training based on the Risk Assessments for the Contract work and train all employees and other Contractors and their employees in this.

All employees of the Principal and other Contractors to be in possession of proof of Site Specific OH&S Induction training at all times.

(iii) Other Training

All operators, drivers and users of construction vehicles, mobile plant and other equipment to be in possession of valid proof of training.

All employees in jobs requiring training in terms of the Act and Regulations to be in possession of valid proof of training as follows:

OH&S Training Requirements: (as required by the Construction Regulations and as indicated by the OH&S Specification & the Risk Assessment/s):

- \* General Induction (Section 8 of the Act)
- \* Site/Job Specific Induction (also visitors) (Sections 8 & 9 of the Act)
- \* Site/Project Manager
- \* Construction Supervisor
- \* OH&S Representatives (Section 18 (3) of the Act)
- \* Training of the Appointees indicated above
- \* Operators & Drivers of Construction Vehicles & Mobile Plant (Construction Regulation 21)
- \* Basic Fire Prevention & Protection (Environmental Regulations 9 and Construction regulation 27)
- \* Basic First Aid (General Safety Regulations 3)
- \* Storekeeping Methods & Safe Stacking (Construction Regulation 26)
- \* Emergency, Security and Fire Co-coordinator

(iv) Awareness &Promotion

The Principal Contractor is required to have a promotion and awareness scheme in place to create an OH&S culture in employees. The following are some of the methods that may be used:

- Toolbox Talks
- OH&S Posters
- Videos
- Competitions
- Suggestion schemes
- Participative activities such as OH&S Safety circles.

(v) Competence

The Principal Contractor shall ensure that his and other Contractors personnel appointed are competent and that all training required to do the work safely and without risk to health, has been completed before work commences

The Principal Contractor shall ensure that follow-up and refresher training is conducted as the contract work progresses and the work situation changes.

Records of all training must be kept on the OH&S File for auditing purposes.

(h) Consultation, Communication and Liaison

OH&S Liaison between the Client, the principal Contractor, the other Contractors, the Designer and other concerned parties will be through the OH&S committee as contemplated in above.

In addition to the above, communication may be directly to the Client or his appointed Agent, verbally or in writing, as and when the need arises.

Consultation with the workforce on OH&S matters will be through their Supervisors, OH&S Representatives, the OH&S committee and their elected Trade Union Representatives, if any.

The Principal Contractor will be responsible for the dissemination of all relevant OH&S information to the other Contractors e.g. design changes agreed with the Client and the Designer, instructions by the Client and/or his/her agent, exchange of information between Contractors, the reporting of hazardous/dangerous conditions/ situations etc.

The Principal Contractor will be required to do Site Safety Walks with Makhado Local Municipality at least on a basis to be determined between the two parties.

The Principal and other Contractors will be required to conduct Toolbox Talks with their employees on a weekly basis and records of these must be kept on the OH&S File. Employees must acknowledge the receipt of Toolbox Talks which record must, likewise be kept on the OH&S File.

The Principal Contractors most senior manager on site will be required to attend all Makhado Local Municipality OH&S meetings and

a list of dates, times and venues will be provided to the Principal Contractor by Makhado Local Municipality.

(i) Checking, Reporting and Corrective Actions

(i) Monthly Audit by Client (Construction Regulation 1(d))

Makhado Local Municipality will be conducting a Monthly Audit to comply with Construction Regulation 4(1)(d) to ensure that the principal Contractor has implemented and is maintaining the agreed and approved OH&S Plan.

(ii) Other Audits and Inspections by Makhado Local Municipality:

Makhado Local Municipality reserves the right to conduct other ad hoc audits and inspections as deemed necessary. This will include Site Safety Walks.

(iii) Conducting an Audit

A representative of the Principal Contractor must accompany Makhado Local Municipality on all Audits and Inspections and may conduct his/her own audit/inspection

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

at the same time. Each party will, however, take responsibility for the results of his/her own audit/inspection results.

(iv) Contractor's Audits and Inspections

The Principal Contractor is to conduct his own Monthly internal audits to verify compliance with his own OH&S Management system as well as of with this specification.

(v) Inspections by OH&S Representative's and other Appointees

OH&S Representatives must conduct weekly inspections of their areas of responsibility and report thereon to their foreman or supervisor whilst other appointees must conduct inspections and report thereon as specified in their appointments e.g. vehicle, plant and machinery drivers, operators and users must conduct daily inspections before start-up.

(vi) Recording and Review of Inspection Results

All the results of the abovementioned inspections to be in writing, reviewed at OH&S committee meetings, endorsed by the chairman of the meeting and placed on the OH&S File.

(vii) Reporting of Inspection Results

The Principal Contractor is required to provide the Client with a Monthly report in the format as per the attached Annexure 2: "SHE Risk Management Report"

(j) Incident Reporting and Investigation

Reporting of Accidents and Incidents (Section 24 and General Administrative Regulation 8 of the OHS Act)

The Principal Contractor must report all incidents where an employee is injured on duty to the extent that he/she:

- \* dies
- \* becomes unconscious
- \* loses a limb or part of a limb
- \* is injured or becomes ill to such a degree that he/she is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or continue with the activity for which he/she was usually employed

OR where:

- \* a major incident occurred
- \* the health or safety of any person was endangered
- \* where a dangerous substance was spilled
- \* the uncontrolled release of any substance under pressure took place
- \* machinery or any part of machinery fractured or failed resulting in flying, falling or uncontrolled moving objects
- \* machinery ran out of control

to Makhado Local Municipality within two days and to the Provincial Director of the Department of Labour within seven days (Section 24 of the Act & General Administrative Regulation 8.) EXCEPT that, where a person has died, has become unconscious for any reason or has lost a limb or part of a limb or may die or suffer a permanent physical defect, the incident must be reported to both Makhado Local

Municipality and the Provincial Director of the Department of Labour forthwith by telephone, telefax or E-mail.

The Principal Contractor is required to provide Makhado Local Municipality with copies of all statutory reports required in terms of the Act within 7 days of the incident occurring.

The Principal Contractor is required to provide Makhado Local Municipality with copies of all internal and external accident/incident investigation reports including the reports contemplated below within 7 days of the incident occurring.

#### Accident and Incident Investigation (General Administrative Regulation 9)

The Principal Contractor is responsible for the investigation of all accidents/incidents where employees and non-employees were injured to the extent that he/she/they had to be referred for medical treatment by a doctor, hospital or clinic

The results of the investigation to be entered into the Accident/Incident Register listed in above.

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

The Principal Contractor is responsible for the investigation of all road traffic accidents and keeping a record of the results of such investigations including the steps taken to prevent similar accidents in future.

The Makhado Local Municipality reserves the right to hold its own investigation into an incident or call for an independent external investigation.

#### **C3.4.3.1.4 Operational Control**

##### (a) Emergency Preparedness, Contingency Planning and Response

The Principal Contractor must appoint a competent person to act as Emergency Controller/Coordinator.

The Principal Contractor must conduct an emergency identification exercise and establish what emergencies could possibly develop. He/she must then develop detailed contingency plans and emergency procedures, taking into account any emergency plan that Makhado Local Municipality may have in place.

The Principal Contractor and the other Contractors must hold regular practice drills of contingency plans and emergency procedures to test them and familiarise employees with them.

##### (b) First Aid (General Safety Regulation 3)

The Principal Contractor must provide First Aid equipment (including a stretcher) and have qualified First Aider/s as required by General Safety Regulation 3 of the OHS Act.

The Contingency Plan of the Principal Contractor must include the arrangements for speedily and timeously transporting injured/ill person/s to a medical facility or of getting emergency medical aid to person/s that may require it.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

The Principal Contractor must have firm arrangements with his other Contractors in place regarding the responsibility of the other Contractors injured/ill employees

(c) Security

The Principal Contractor must establish site access rules and implement and maintain these throughout the construction period. Access control must include the rule that non-employees will not be allowed on site unaccompanied.

The Principal Contractor must develop a set of Security rules and procedures and maintain these throughout the construction period

(d) Fall Protection (Working in Elevated Positions (Construction regulation 8.)

A pre-emptive Risk Assessment will be required for any work to be carried out above two metres from the ground or any floor level and will be classified as "Work in Elevated Positions".

As far as is practicable, any person working in an elevated position will work from a platform, ladder or other device that is at least as safe as if he/she is working at ground level and whilst working in this position be wearing a single belt with lanyard that will be worn to prevent the person falling from the platform, ladder or other device utilised. This safety belt will be, as far as is possible, secured to a point away from the edge over which the person might fall and the lanyard must be of such a length that the person will not be able to move over the edge.

Alternatively any platform, slab, deck or surface forming an edge over which a person may fall may be fitted with guard rails at two different heights as prescribed in SABS 085: Code of Practice for the Design, Erection, Use and Inspection of Access Scaffolding.

Where the requirement in is not practicable, the person will be provided with a full body harness that will be worn and attached above the wearer's head at all times and the lanyard must be fitted with a shock absorbing device OR the person must be attached to an approved, by Makhado Local Municipality, fall arrest system.

Where the requirements are not practicable, a suitable catch net must be erected.

Workers working in elevated positions must be trained to do this safely and without risk to health

Where work on roofs is carried out, the Risk Assessment must take into account the possibility of persons falling through fragile material. Skylights and openings in the roof.

#### **C3.4.3.1.5 Measurement and Payment**

Payment for the contractor's obligations in respect of the Occupational Health and Safety act and Construction Regulations shall be made through three payment items described below. The three payment items together shall include full compensation for all personnel (including a dedicated full time Construction Safety Officer), cost and incidentals in respect of compliance with the enforcement of the Health and Safety Specifications, which shall include for the compilation, presentation, implementation and maintenance of the Health and Safety Plan as contemplated. In tendering rates for the

three items the contractor shall ensure that the sum of the amounts for the three items shall not be less than one percent (1%) of the Tender Amount.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

<b>Item</b>	<b>Unit</b>
<b>B1.1 Contractor's initial obligations in respect of the Occupational Health and Safety Act and Construction Regulations</b>	Lump Sum

The full amount will be paid in one instalment only once:-

- (a) The contractor has notified the Provincial Director of the Department of Labour in writing of the project.
- (b) The contractor has made the required initial appointments of employees and sub-contractors.
- (c) The client has approved the contractor's Health and Safety Plan.
- (d) The contractor has set up his Health and Safety File.

<b>Item</b>	<b>Unit</b>
<b>B1.2 Contractor's time related obligations in respect of the Occupational Health and Safety Act and Construction Regulations</b>	Month

The tendered Monthly amount shall represent full compensation for that part of the contractor's general obligations in terms of the Occupational Health and Safety Act and the Construction Regulations which are mainly a function of time. This includes inter alia payment of all costs for the appointment of all staff contemplated in the construction regulations and the transport of employees on site. Payment will be Monthly only after payment for Item **B1.1** has been made.

<b>Item</b>	<b>Unit</b>
<b>B1.3 Submission of the Health and Safety File</b>	Lump Sum

The tendered lump sum shall represent full compensation for the contractor meeting all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and for the preparation and submission of his Health and Safety File complete as envisaged on this specification to the Client's satisfaction.

This amount will be paid only once the contractor has met all his obligations in respect of the Occupational Health and Safety Act and the Construction Regulations and has submitted his Health and Safety File complete as envisaged on this specification to the Client's satisfaction.

#### **C3.4.3.1.6 Project/Site Specific Requirements**

**See Annexure 3**

**Annexure 1: Measuring Injury Experience**

**Annexure 2: SHE Risk Management Report**

**Annexure 3. List of Risk Assessments**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**ANNEXURE 1: MEASURING INJURY EXPERIENCE**

Injury experience has traditionally been measured by the use of a disabling injury frequency rate, the so-called "DIFR". The DIFR is calculated by multiplying the number of disabling injuries by 1 million and dividing by the number of man-hours worked.

Lately the DIFR has been replaced internationally with a DIIR: disabling injury incidence rate. The only difference between the two rates are that the 10 million in the calculation is replaced with 200 000. (200 000 purported to be the number of hours and average person works in a lifetime.)

The use of the two rates above has proved to be somewhat problematical as they are open to manipulation and disabling injuries are often "hidden" by returning the injured employee to the workplace so as not to lose a shift and therefore having to register a disabling injury.

The Construction Industry recently decided to promote the use of a new frequency rate based on the number of compensation injury claims as these are more difficult to hide or manipulate because the reporting of compensable injuries is a legal requirement.

The industry is hoping that adoption of this new measurement of injury experience will enable the industry to monitor itself as far as work related injuries are concerned.

Below follows an explanation of this new rating system.

**COMPENSATION INCIDENCE FREQUENCY RATE (CIFR)**

**FORMULA**

No. of Compensation Claims X 200 000 /

\*220 man hours X No. of Employees

**DEFINITIONS**

No. of Compensation

Claims: **The number of claims lodged with the COID insurer for the period under review**

**200 000:** The fixed factor to align the rate with other rates used internationally

Manhours Worked

Include:       \*       Hourly Paid Employees  
                   \*       Sub-contactors (No. of Employees X \*220 each)  
                   \*       Staff (No. of Employees X \*220 hours each)

**220 man hours:** The \*average number of hours worked by one employee in one Month in the Construction industry.

\* Overtime, absence on leave or sick leave, unrecorded after hours time worked by senior and middle management factored into this average.

**No. of Employees:** The actual or average number of employees employed for the period under review.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

**ANNEXURE 2: EXECUTIVE SHE RISK MANAGEMENT REPORT**

The SAFCEC OH&S committee recently developed the following report in an attempt to standardise on reporting and assist contractors in obtaining a clear picture of their SHE Risk Management performance. It is hoped that clients will also accept this standardised report. Your comments/suggestions for improvement is invited.

**EXAMPLE ONLY: ALL INFORMATION IS FICTITIOUS**

XYZ construction

\*SHE RISK MANAGEMENT REPORT

PERIOD JANUARY TO MARCH 2002

\*(SHE = Safety, Health & Environment)

**1. Introduction**

We hope that this new format of quarterly SHE Risk Management reporting will provide a clear picture of the company’s performance as far as occupational health & safety is concerned.

The first quarter of 2002 generally reflected an improvement in injury experience and shows a decline in the number of injuries. Although Building was the only division where there was an increase in compensation claims, figures are still well down from the average 2001 figures. A sub-contractor experienced one fatality.

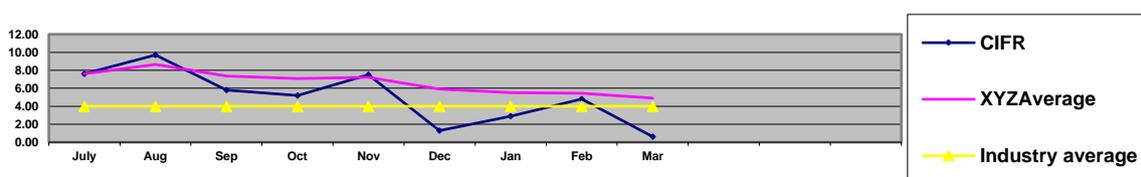
All divisions are eagerly awaiting the final implementation in May of the new electronic SHE Management system that will make the tools to implement the SHE programme available to all management and supervisory staff.

**2. Incident Statistics**

**Compensation Incident Frequency Rate (CIFR)**

CIFR = Total No. of Claims against the Workmen’s Compensation Fund X 200 000

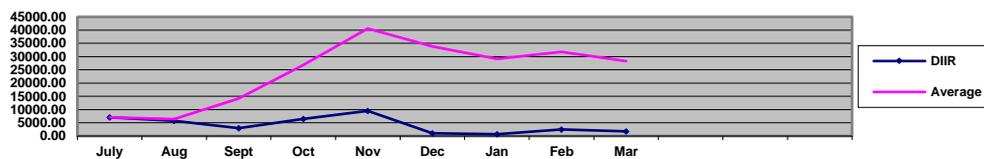
Manhours worked



2.2.

Disabling Injury Incidence Rate (DIIR)

$$\text{DIIR} = \frac{\text{No. Disabling Injuries} \times 200\,000}{\text{Manhours worked}}$$



### 2.3. Other Major Incidents

Three other major incidents were experienced in the period under review:

- 2.3.1. A major trench collapsed at Job. 00123: XYZ Head Office, Bochum: No personnel injured, extensive damage to foundations: 3 days delay.
- 2.3.2. A concrete dumper ran away when its brakes failed. It smashed into the glass façade of the building on Job 00332: McDonalds, Polokwane. The driver jumped off and was not injured. Cost of damage to façade: R45 000.
- 2.3.3. A storage hut on Job 00567: BP Petrol Station, Swartruggens was demolished by fire when the night watchman made a fire inside the storage hut which contained concrete vibrators and levelling machines. Cost of replacing the hut and machines: R30 000

## 3. RISK AREAS

The following items of concern need priority consideration by management:

- 3.1. New employees must undergo pre-employment medical examinations to:
  - protect XYZ from claims at a later stage
  - ensure that only healthy persons are employed
  - prevent injuries and illness in the workplace
  - enhance XYZ image
- 3.2. Vehicle drivers and plant operators must be instructed to inspect their vehicles daily before start-up using the prescribed checklists to ensure that these are safe to operate and in good condition.

## 4. AUDITS

Three SHE audits were conducted in February and March:

- |      |            |                      |                       |
|------|------------|----------------------|-----------------------|
| 4.1. | Job 00432: | Gillooly's Mall      | Compliance: 56%(*)    |
|      | Job 00786: | Cullinan Head Office | Compliance: 83%(****) |
|      | Job 00589: | Cleveland Station    | Compliance: 76%(***)  |

## 5. TRAINING

One hundred and forty two employees, representing 7% of employees, attended nine training courses. \*Our objective is to train 5,5% of employees quarterly.

Month	No. of Employees Trained	Course	Source

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

January	26 15 3	Induction OH&S Reps Crane Drivers	Internal Consultant External
February	23 17	Induction OH&S Reps	Internal Consultant
March	43 9 3 3	Induction OH&S Reps Bomag Rollers First Aiders	Internal Consultant Supplier St. John's

## 6. LEGAL ISSUES

- 6.1. An inspector of the Department of Labour issued an improvement notice on Job 00987: Gillooly's Mall. The notice requires that all scaffolding comply with the SABS standards for the Erection and Maintenance of Access Scaffolding (SABS 085). This is currently being attended to and the inspector will return on 15 April 2002 to ascertain if the notice has been complied with.

## 8. OCCUPATIONAL AIND OTHER HEALTH MATTERS

### 8.1. HIV Aids

The proposed SAFCEC clinic will soon be operational and we will then be able to send our employees who have tested positive to the clinic for counselling and eventual treatment when necessary

The mobile clinic saw and tested fifty employee volunteers at 3 sites this Month. Eighteen of them tested positive.

### 8.2. Tuberculosis

The mobile clinic will be calling at Gillooly's Mall and Cleveland Station on 15 and 16 October respectively to screen employees for TB.

### 8.3. Noise

All suspected noise pollution areas have been tested and the results are awaited. Employees working in areas testing over 85dBa will be issued with suitable hearing protectors.

## 9. ENVIRONMENTAL MEASURES

Inspectors from the Botswana Department of the Environment visited Djwaneng and inspected the site and yard. They gave it a "clean bill of health" and advised that we should increase the dust control measures by spraying roads three times per day instead of the present twice per day.

10. **ACHIEVEMENTS/AWARDS**

- 10.1. The client (Job 00786) awarded the XYZ site first position in the housekeeping competition conducted bi-Monthly by the client's SHE managers. The project manager and his team are to be congratulated for this sterling effort.
- 10.2. Job 0987: Refurbishment of Pretoria Main Railway Station has just completed 1million compensation claim free days. This was no easy achievement if we consider the conditions being worked under after the extensive fire that caused major damage.

SHE Risk Manager

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**ANNEXURE 3: LIST OF RISK ASSESSMENTS**

- \* Clearing & Grubbing of the Area/Site
- \* Site Establishment including:
  - Office/s
  - Secure/safe storage for materials, plant & equipment
  - Ablutions
  - Sheltered eating area
  - Maintenance workshop
  - Vehicle access to the site
- \* Dealing with existing structures
- \* Location of existing services
- \* Installation and maintenance of temporary construction electrical supply, lighting and equipment
- \* Adjacent land uses/surrounding property exposures
- \* Boundary and access control/Public Liability Exposures (NB: the Employer is also responsible for the OH&S of non-employees affected by his/her work activities.)
- \* Health risks arising from neighbouring as well as own activities and from the environment e.g. threats by dogs, bees, snakes, lightning etc.
- \* Exposure to noise
- \* Exposure to vibration
- \* Protection against dehydration and heat exhaustion
- \* Protection from wet & cold conditions
- \* Dealing with HIV/Aids and other diseases
- \* Use of Portable Electrical Equipment including
  - Angle grinder
  - Electrical drilling machine
  - Skill saw
- \* Excavations including
  - Ground/soil conditions
  - Trenching
  - Shoring
  - Drainage of trench
- \* Welding including
  - Arc Welding
  - Gas welding
  - Flame cutting
  - Use of LP gas torches and appliances
- \* Loading & offloading of trucks
- \* Aggregate/sand and other materials delivery
- \* Manual and mechanical handling
- \* Lifting and lowering operations
- \* Driving & operation of construction vehicles and mobile plant including
  - Trenching machine
  - Excavator
  - Bomag roller
  - Plate compactor

- Front end loader
- Mobile cranes and the ancillary lifting tackle
- Parking of vehicles & mobile plant
- Towing of vehicles & mobile plant
- \* Use and storage of flammable liquids and other hazardous substances
- \* Layering and bedding
- \* Installation of pipes in trenches
- \* Pressure testing of pipelines
- \* Backfilling of trenches
- \* Protection against flooding
- \* Gabion work
- \* Use of explosives
- \* Protection from overhead power lines
- \* As discovered by the Principal Contractor's hazard identification exercise
- \* As discovered from any inspections and audits conducted by the Client or by the Principal Contractor or any other Contractor on site
- \* As discovered from any accident/incident investigation.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**C3.4.3.2 ENVIRONMENTAL MANAGEMENT PLAN**

CONTENTS

- C3.4.3.2.1 SCOPE
- C3.4.3.2.2 DEFINITIONS
- C3.4.3.2.3 IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS
- C3.4.3.2.4 LEGAL REQUIREMENTS
- C3.4.3.2.5 ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS
- C3.4.3.2.6 TRAINING
- C3.4.3.2.7 ACTIVITIES/ASPECTS CAUSING IMPACTS
- C3.4.3.2.8 ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION ACTIVITIES
- C3.4.3.2.9 RECORD KEEPING
- C3.4.3.2.10 COMPLIANCE AND PENALTIES
- C3.4.3.2.11 MEASUREMENT AND PAYMENT

**C3.4.3.2.1. SCOPE**

This environmental management programme (EMP) sets out the methods by which proper environmental controls are to be implemented by the contractor. The duration over which the contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the General Conditions of Contract, and the project specifications, as the defects notification period (maintenance period).

The provisions of this EMP are binding on the contractor during the life of the contract. They are to be read in conjunction with all the documents that comprise the suite of documents for this contract. In the event that any conflict occurs between the terms of the EMP and the project specifications or Record of Decision, the terms herein shall be subordinate.

The EMP is a dynamic document subject to similar influences and changes as are brought by variations to the provisions of the project specification. Any substantial changes shall be submitted to the Makhado Local Municipality in writing for approval.

The EMP identifies the following:

Construction activities that will impact on the environment.

Specifications with which the contractor shall comply in order to protect the environment from the identified impacts.

Actions that shall be taken in the event of non-compliance.

#### **C3.4.3.2.2. DEFINITIONS**

**Alien Vegetation:** alien vegetation is defined as undesirable plant growth which shall include, but not be limited to, all declared category 1 and 2 listed invader species as set out in the Conservation of Agricultural Resources Act (CARA) regulations. Other vegetation deemed to be alien shall be those plant species that show the potential to occupy in number, any area within the defined construction area and which are declared to be undesirable.

**Construction Activity:** a construction activity is any action taken by the contractor, his subcontractors, suppliers or personnel during the construction process as defined in the South African National Roads Agency Limited and National Roads Act, 1998 (Act No. 7, 1998)

**Environment:** environment means the surroundings within which humans exist and that could be made up of -

- the land, water and atmosphere of the earth;
- micro-organisms, plant and animal life;
- any part or combination of (i) and (ii) and the interrelationships among and between them; and
- the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.

**Environmental Aspect:** an environmental aspect is any component of a contractor's construction activity that is likely to interact with the environment.

**Environmental Impact:** an impact or environmental impact is the change to the environment, whether desirable or undesirable, that will result from the effect of a construction activity. An impact may be the direct or indirect consequence of a construction activity.

**Record of Decision:** a record of decision is a written statement from the Limpopo Department of Economic Development, Environment and Tourism, that records its approval of a planned undertaking to improve, upgrade or rehabilitate a section of road and the mitigating measures required to prevent or reduce the effects of environmental impacts during the life of a contract.

**Road Reserve:** the road reserve is a corridor of land, defined by co-ordinates and proclamation, within which the road, including access intersections or interchanges, is situated. A road reserve may, or may not, be bounded by a fence.

**Road Width:** for the purposes of the EMP, the road width is defined as the area within the road reserve i.e. fence line to fence line, but also includes all areas beyond the road reserve that are affected by the continuous presence of the road, e.g. a reach of a water course.

#### **C3.4.3.2.3. IDENTIFICATION OF ENVIRONMENTAL ASPECTS AND IMPACTS**

The contractor shall identify likely aspects before commencing with any construction activity. Examples of environment aspects include:

- waste generation
- stormwater discharge
- emission of pollutants into the atmosphere
- chemical use operations
- energy use operations
- water use operations
- use of natural resources
- noise generation

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

Thereafter the contractor shall programme his work in such a way that each cause and effect of a construction activity is also identified and the activity planned so as to prevent any impact from happening. If prevention is not practicable, or in the event of mishap or misapplication, the contractor shall provide plans and measures for the engineer's approval, which will limit and contain the magnitude, duration and intensity of the impact. The contractor shall demonstrate that he/she is capable of carrying out any repair and reinstatement of the damaged environment. These requirements shall be concurrent with the time constraints to produce an approved construction programme according to subclause 8.3 as amended by Particular Condition of the general conditions of contract and clause B1204 of these project specifications.

Listed below are some environmental impacts that could adversely alter an aspect of the environment through usual construction activities:

- Pollution of atmosphere, soil or water
- Destruction or removal of fauna and flora and effect on biological diversity
- Deformation of the landscape
- Soil erosion
- Destruction of historical/heritage sites
- Effect on the built environment
- Effect on agricultural land and wetlands

General good construction practice will play an important role in avoiding the occurrence of an Impact. The contractor's attention is drawn, in this regard, to C1008. Environmental Management of Construction Activities

**C3.4.3.2.4. LEGAL REQUIREMENTS****a) General**

Construction will be according to the best industry practices, as identified in the project documents. This EMP, which forms an integral part of the contract documents, informs the contractor as to his duties in the fulfilment of the project objectives, with particular reference to the prevention and mitigation of environmental impacts caused by construction activities associated with the project. The contractor should note that obligations imposed by the EMP are legally binding in terms of environmental statutory legislation and in terms of the additional conditions to the general conditions of contract that pertain to this project. In the event that any rights and obligations contained in this document contradict those specified in the standard or project specifications then the latter shall prevail.

**b) Statutory and other applicable legislation**

The contractor is deemed to have made himself conversant with all legislation pertaining to the environment, including provincial and local government ordinances, which may be applicable to the contract.

**C3.4.3.2.5. ADMINISTRATION OF ENVIRONMENTAL OBLIGATIONS****a) Appointment of a Designated Environmental Officer (DEO)**

For the purposes of implementing the conditions contained herein, the contractor shall submit to the engineer for approval the appointment of a nominated representative of the contractor as the DEO for the contract. The request shall be given, in writing, at least fourteen days before the start of any work clearly setting out reasons for the nomination, and with sufficient detail to enable the engineer to make a decision. The engineer will, within seven days of receiving the request, approve, reject or call for more information on the nomination. Once a nominated

representative of the contractor has been approved he/she shall be the DEO and shall be the responsible person for ensuring that the provisions of the EMP are complied with during the life of the contract. The engineer will be responsible for issuing instructions to the contractor where environmental considerations call for action to be taken. The DEO shall submit regular written reports to the engineer, but not less frequently than once a Month.

The engineer shall have the authority to instruct the contractor to replace the DEO if, in the engineer's opinion, the appointed officer is not fulfilling his/her duties in terms of the requirements of the EMP or this specification. Such instruction will be in writing and shall clearly set out the reasons why a replacement is required.

There shall be an approved DEO on the site at all times.

b) Administration

Before the contractor begins each construction activity the DEO shall give to the engineer a written statement setting out the following:

The type of construction activity.

Locality where the activity will take place.

Identification of the environmental aspects and impacts that might result from the activity.

Methodology for impact prevention for each activity or aspect.

Methodology for impact containment for each activity or aspect.

Emergency/disaster incident and reaction procedures.

Treatment and continued maintenance of impacted environment.

The contractor may provide such information in advance of any or all construction activities provided that new submissions shall be given to the engineer whenever there is a change or variation to the original.

The engineer may provide comment on the methodology and procedures proposed by the DEO, but he shall not be responsible for the contractor's chosen measures of impact mitigation and emergency/disaster management systems. However, the contractor shall demonstrate at inception and at least once during the contract that the approved measures and procedures function properly.

c) Good Housekeeping

The Contractor shall undertake "good housekeeping" practices during construction as stated in clause 1217 of the COLTO Standard Specifications for Roads and Bridges and subclauses 4.3.1 and 4.3.2 of the General Conditions of Contract. This will help avoid disputes on responsibility and allow for the smooth running of the contract as a whole. Good housekeeping extends beyond the wise practice of construction methods that leaves production in a safe state from the ravages of weather to include the care for and preservation of the environment within which the site is situated.

#### **C3.4.3.2.6. TRAINING**

The designated environmental officer (DEO) must be conversant with all legislation pertaining to the environment applicable to this contract and must be appropriately trained in environmental management and must possess the skills necessary to impart environmental management skills to all personnel involved in the contract.

The contractor shall ensure that adequate environmental training takes place. All employees shall have been given an induction presentation on environmental awareness. Where possible, the presentation needs to be conducted in the language of the employees. The environmental training should, as a minimum, include the following:

- The importance of conformance with all environmental policies
- The environmental impacts, actual or potential, of their work activities;

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

- The environmental benefits of improved personal performance;
- Their roles and responsibilities in achieving conformance with the environmental policy and procedures and with the requirement of the Agency's environmental management systems, including emergency preparedness and response requirements;
- The potential consequences of departure from specified operating procedures;
- The mitigation measures required to be implemented when carrying out their work activities.

In the case of permanent staff the contractor shall provide evidence that such induction courses have been presented. In the case of new staff (including contract labour) the contractor shall inform the engineer when and how he/she intends concluding his environmental training obligations.

#### **C3.4.3.2.7. ACTIVITIES/ASPECTS CAUSING IMPACTS**

A list of possible causes of environmental impacts that occur during construction activities is given in Table 7/1: Aspects or Activities that Cause Environmental Impacts during Construction Activities, which is to be found at the end of this part. This list is not exhaustive, and shall be used for guideline purposes only.

#### **C3.4.3.2.8. ENVIRONMENTAL MANAGEMENT OF CONSTRUCTION ACTIVITIES**

##### a) Site Establishment

##### i) Site Plan

The contractor shall establish his construction camps, offices, workshops, staff accommodation and testing facilities on the site in a manner that does not adversely affect the environment. However, before construction can begin, the contractor shall submit to the engineer for his approval, plans of the exact location, extent and construction details of these facilities and the impact mitigation measures the contractor proposes to put in place.

The plans shall detail the locality as well as the layout of the waste treatment facilities for litter, kitchen refuse, sewage and workshop-derived effluents. The site offices should not be sited in close proximity to steep areas, as this will increase soil erosion. Preferred locations would be flat areas along the route. If the route traverses water courses, streams and rivers, it is recommended that the offices, and in particular the ablution facilities, aggregate stockpiles, spoil areas and hazardous material stockpiles are located as far away as possible from any water course as possible. Regardless of the chosen site, the contractor's intended mitigation measures shall be indicated on the plan. The site plan shall be submitted not later than the first site meeting. Detailed, electronic colour photographs shall be taken of the proposed site before any clearing may commence. These records are to be kept by the engineer for consultation during rehabilitation of the site. Read with COLTO Specification 1302(a), 1402 (e).

##### ii) Vegetation

The contractor has a responsibility to inform his staff of the need to be vigilant against any practice that will have a harmful effect on vegetation.

The natural vegetation encountered on the site is to be conserved and left as intact as possible. Vegetation planted at the site shall be indigenous and in accordance with instructions issued by the engineer. Only trees and shrubs directly affected by the works, and such others as may be indicated by the engineer in writing, may be felled or cleared. In wooded areas where natural vegetation has been cleared out of necessity, the same species of indigenous trees as were occurring, shall be re-established.

The project specification for the rehabilitation of the grass cover shall be strictly adhered to. Any proclaimed weed or alien species that propagates during the contract period shall be cleared by hand before seeding. (Read in conjunction with COLTO Specification 5801(b), 5802(b), (c), (d) and (e), 5804, 5805, 5806 and 5807). Fires shall only be allowed in facilities or equipment specially constructed for this purpose. A firebreak shall be cleared and maintained around the perimeter of the camp and office sites.

##### iii) Rehabilitation

The area where the site offices were erected will require rehabilitation at the end of the contract. All construction material, including concrete slabs and braai areas shall be removed from the site on completion of the contract.

##### iv) Water for human consumption

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

Water for human consumption shall be available at the site offices and at other convenient locations on site.

All effluent water from the camp / office sites shall be disposed of in a properly designed and constructed system, situated so as not to adversely affect water sources (streams, rivers, pans dams etc). Only domestic type wastewater shall be allowed to enter this drain.

v) Heating and Cooking fuel

The contractor shall provide adequate facilities for his staff so that they are not encouraged to supplement their comforts on site by accessing what can be taken from the natural surroundings. The contractor shall ensure that energy sources are available at all times for construction and supervision personnel for heating and cooking purposes.

b) Sewage treatment

Particular reference in the site establishment plan shall be given to the treatment of sewage generated at the site offices, site laboratory and staff accommodation and at all localities on the site where there will be a concentration of labour. Sanitary arrangements should be to the satisfaction of project management, the local authorities and legal requirements.

Safe and effective sewage treatment will require one of the following sewage handling methods: septic tanks and soak-aways, dry-composting toilets such as "enviro loos", or the use of chemical toilets which are supplied and maintained by a subcontractor. The type of sewage treatment will depend on the geology of the area selected, the duration of the contract and proximity (availability) of providers of chemical toilets. Should a soak-away system be used, it shall not be closer than 800 metres from any natural water course or water retention system. The waste material generated from these facilities shall be serviced on a regular basis. The positioning of the chemical toilets shall be done in consultation with the engineer. Read with COLTO Specifications 1402(g) and 1404(a).

Toilets and latrines shall be easily accessible and shall be positioned within walking distance from wherever employees are employed on the works. Use of the veld for this purpose shall not, under any circumstances, be allowed.

Outside toilets shall be provided with locks and doors and shall be secured to prevent them from blowing over. The toilets shall also be placed outside areas susceptible to flooding. The contractor shall arrange for regular emptying of toilets and shall be entirely responsible for enforcing their use and for maintaining such latrines in a clean, orderly and sanitary condition to the satisfaction of the engineer.

c) Waste Management

The contractor's intended methods for waste management and waste minimisation shall be implemented at the outset of the contract. All personnel shall be instructed to dispose of all waste in the proper manner.

i) Solid Waste

Solid waste shall be stored in an appointed area in covered, tip proof metal drums for collection and disposal. A refuse control system shall be established for the collection and removal of refuse to the satisfaction of the engineer. Disposal of solid waste shall be at a Department of Water Affairs and Forestry (DWAF) licensed landfill site or at a site approved by DWAF in the event that an existing operating landfill site is not within reasonable distance from the site offices

and staff accommodation. No waste shall be burned or buried at or near the site offices, nor anywhere else on the site, including the approved solid waste disposal site. Read with COLTO Specification 1404(a).

ii) Litter

No littering by construction workers shall be allowed. During the construction period, the facilities shall be maintained in a neat and tidy condition and the site shall be kept free of litter.

Measures shall be taken to reduce the potential for litter and negligent behaviour with regard to the disposal of all refuse. At all places of work the contractor shall provide litter collection facilities for later safe disposal at approved sites. (Read with COLTO Specification 1302(b)).

iii) Hazardous waste

Hazardous waste such as bitumen, tar, oils etc. shall be disposed of in a Department of Water Affairs and Forestry approved landfill site. Special care shall be taken to avoid spillage of tar or bitumen products such as binders or pre-coating fluid to avoid water-soluble phenols from entering the ground or contaminating water.

Under no circumstances shall the spoiling of tar or bituminous products on the site, over embankments, in borrow pits or any burying, be allowed. Unused or rejected tar or bituminous products shall be returned to the supplier's production plant. Any spillage of tar or bituminous products shall be attended to immediately and affected areas shall be promptly reinstated to the satisfaction of the engineer.

d) Control at the workshop

The contractor's management and maintenance of his plant and machinery will be strictly monitored according to the criteria given below, regardless whether it is serviced on the site (i.e. at the place of construction activity or at a formalised workshop).

i) Safety

All the necessary handling and safety equipment required for the safe use of petrochemicals and oils shall be provided by the contractor to, and used or worn by, the staff whose duty it is to manage and maintain the contractor's and his subcontractor's and supplier's plant, machinery and equipment.

ii) Hazardous Material Storage

Petrochemicals, oils and identified hazardous substances shall only be stored under controlled conditions. All hazardous materials e.g. tar or bitumen binders shall be stored in a secured, appointed area that is fenced and has restricted entry. Storage of tar or bituminous products shall only take place using suitable containers to the approval of the engineer.

The contractor shall provide proof to the engineer that relevant authorisation to store such substances has been obtained from the relevant authority. In addition, hazard signs indicating the nature of the stored materials shall be displayed on the storage facility or containment structure. Before containment or storage facilities can be erected the contractor shall furnish the engineer with details of the preventative measures he proposes to install in order to mitigate against pollution of the surrounding environment from leaks or spillage. The preferred method shall be a concrete floor that is bunded. Any deviation from the method will require proof from the relevant authority that the alternative method proposed is acceptable to that authority. The proposals shall also indicate the emergency procedures in the event of misuse or spillage that will negatively affect an individual or the environment.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

## iii) Fuel and Gas Storage

Fuel shall be stored in a secure area in a steel tank supplied and maintained by the fuel suppliers.. An adequate bund wall, 110% of volume, shall be provided for fuel and diesel areas to accommodate any leakage spillage or overflow of these substances. The area inside the bund wall shall be lined with an impervious lining to prevent infiltration of the fuel into the soil. Any leakage, spillage or overflow of fuel shall be attended to without delay.

Gas welding cylinders and LPG cylinders shall be stored in a secure, well-ventilated area.

## iv) Oil and Lubricant Waste

Used oil, lubricants and cleaning materials from the maintenance of vehicles and machinery shall be collected in a holding tank and sent back to the supplier. Water and oil should be separated in an oil trap. Oils collected in this manner, shall be retained in a safe holding tank and removed from site by a specialist oil recycling company for disposal at approved waste disposal sites for toxic/hazardous materials. Oil collected by a mobile servicing unit shall be stored in the service unit's sludge tank and discharged into the safe holding tank for collection by the specialist oil recycling company.

All used filter materials shall be stored in a secure bin for disposal off site. Any contaminated soil shall be removed and replaced. Soils contaminated by oils and lubricants shall be collected and disposed of at a facility designated by the local authority to accept contaminated materials.

## e) Clearing the Site

In all areas where the contractor intends to, or is required to clear the natural vegetation and soil, either within the road reserve, or at designated or instructed areas outside the road reserve, a plan of action shall first be submitted to the engineer for his approval.

The plan shall contain a photographic record and chainage/land reference of the areas to be disturbed. This shall be submitted to the engineer for his records before any disturbance/stockpiling may occur. The record shall be comprehensive and clear, allowing for easy identification during subsequent inspections.

The contractor shall be responsible for the re-establishment of grass within the road reserve boundaries for all areas disturbed during road construction. This includes, for example, service roads, stockpile areas, stop/go facilities, windrows and wherever material generated for, or from, road construction has to be stored temporarily or otherwise within the road reserve, or at designated or instructed areas outside the road reserve. This responsibility shall extend until expiry of the defects notification period.

## f) Soil Management

## i) Topsoil

Topsoil shall be removed from all areas where physical disturbance of the surface will occur and shall be stored and adequately protected. The contract will provide for the stripping and stockpiling of topsoil from the site for later re-use. Topsoil is considered to be the natural soil covering, including all the vegetation and organic matter. Depth may vary at each site. The areas to be cleared of topsoil shall include the storage areas. All topsoil stockpiles and windrows shall be maintained throughout the contract period in a weed-free condition. Weeds appearing on the stockpiled or windrowed topsoil shall be removed by hand. Soils contaminated

by hazardous substances shall be disposed of at an approved Department of Water Affairs and Forestry waste disposal site. (Read with COLTO Specifications 3104(a), 5802(a), (g), 5804(a), (b) and (c)). The topsoil stockpiles shall be stored, shaped and sited in such a way that they do not interfere with the flow of water to cause damming or erosion, or itself be eroded by the action of water. Stockpiles of topsoil shall not exceed a height of 2m, and if they are to be left for longer than 6 Months, shall be analysed, and if necessary, upgraded before replacement. Stockpiles shall be protected against infestation by weeds.

The contractor shall ensure that no topsoil is lost due to erosion – either by wind or water. Areas to be topsoiled and grassed shall be done so systematically to allow for quick cover and reduction in the chance of heavy topsoil losses due to unusual weather patterns. The contractor's programme shall clearly show the proposed rate of progress of the application of topsoil and grassing. The contractor shall be held responsible for the replacement, at his own cost, for any unnecessary loss of topsoil due to his failure to work according to the progress plan approved by the engineer. The contractor's responsibility shall also extend to the clearing of drainage or water systems within and beyond the boundaries of the road reserve that may have been affected by such negligence.

ii) Subsoil

The subsoil is the layer of soil immediately beneath the topsoil. It shall be removed, to a depth instructed by the engineer, and stored separately from the topsoil if not used for road building. This soil shall be replaced in the excavation in the original order it was removed for rehabilitation purposes.

g) Drainage

The quality, quantity and flow direction of any surface water runoff shall be established prior to disturbing any area for construction purposes. Cognisance shall be taken of these aspects and incorporated into the planning of all construction activities. Before a site is developed or expanded, it shall be established how this development or expansion will affect the drainage pattern. Recognised water users / receivers shall not be adversely affected by the expansion or re-development. No water source shall be polluted in any way due to proposed changes.

Streams, rivers, pans, wetlands, dams, and their catchments shall be protected from erosion and from direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and bituminous or tar products.

The contractor shall submit to the engineer his proposals for prevention, containment and rehabilitation measures against environmental damage of the identified water and drainage systems that occur on the site. Consideration shall be given to the placement of sedimentation ponds or barriers where the soils are of a dispersive nature or where toxic fluids are used in the construction process. The sedimentation ponds must be large enough to contain runoff so that they function properly under heavy rain conditions.

h) Earthworks and Layerworks

This section includes all construction activities that involve the mining of all materials, and their subsequent placement, stockpile, spoil, treatment or batching, for use in the permanent works, or temporary works in the case of deviations. Before any stripping prior to the commencement of construction, the contractor shall have complied with the requirements of sections C1008 (e) and C1008 (g). In addition, the contractor shall take cognisance of the requirements set out below.

i) Quarries and borrow pits

The contractor's attention is drawn to the requirement of the Department of Minerals and Energy, that before entry into any quarry or borrow pit, an EMP for the establishment, operation and closure of the quarry or borrow pit shall have been approved by the Department. It is the responsibility of the contractor to ensure that he is in possession of the approved EMP or a copy

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

thereof, prior to entry into the quarry or borrow pit. The conditions imposed by the relevant EMP are legally binding on the contractor and may be more extensive and explicit than the requirements of this specification. In the event of any conflict occurring between the requirements of the specific EMP and these specifications the former shall apply. The cost of complying with the requirements shall be deemed to be included in existing rates in the Bill of Quantities. (Read with COLTO Specification 3100 and 3200).

ii) Excavation, hauling and placement

The contractor shall provide the engineer with detailed plans of his intended construction processes prior to starting any cut or fill or layer. The plans shall detail the number of personnel and plant to be used and the measures by which the impacts of pollution (noise, dust, litter, fuel, oil, sewage), erosion, vegetation destruction and deformation of landscape will be prevented, contained and rehabilitated. Particular attention shall also be given to the impact that such activities will have on the adjacent built environment. The contractor shall demonstrate his "good housekeeping", particularly with respect to closure at the end of every day so that the site is left in a safe condition from rainfall overnight or over periods when there is no construction activity. (Read with COLTO Standard Specification clauses 1217 and 3309)

iii) Spoil sites

The contractor shall be responsible for the safe siting, operation, maintenance and closure of any spoil site he uses during the contract period, including the defects notification period. This shall include existing spoil sites that are being re-entered. Before spoil sites may be used proposals for their locality, intended method of operation, maintenance and rehabilitation shall be given to the engineer for his approval. The location of these spoil sites shall have signed approval from the affected landowner before submission to the engineer. No spoil site shall be located within 500m of any watercourse. A photographic record shall be kept of all spoil sites for monitoring purposes. This includes before the site is used and after re-vegetation.

The use of approved spoil sites for the disposal of hazardous or toxic wastes shall be prohibited unless special measures are taken to prevent leaching of the toxins into the surrounding environment. Such special measures shall require the approval of the relevant provincial or national authority. The same shall apply for the disposal of solid waste generated from the various camp establishments. The engineer will assist the contractor in obtaining the necessary approval if requested by the contractor.

Spoil sites will be shaped to fit the natural topography. These sites shall receive a minimum of 75mm topsoil and be grassed with the recommended seed mixture. Slopes shall not exceed a vertical: horizontal ratio of 1:3. Only under exceptional circumstances will approval be given to exceed this ratio. Appropriate grassing measures to minimise soil erosion shall be undertaken by the contractor. This will include both strip and full sodding. The contractor may motivate to the engineer for other acceptable stabilising methods. The engineer may only approve a completed spoil site at the end of the defects notification period upon receipt from the contractor of a landowner's clearance notice and an engineer's certificate certifying slope stability (Read with COLTO standard Specifications clause 1214). The contractor's costs incurred in obtaining the necessary certification for opening and closing of spoil sites shall be deemed to be included in the tendered rates for spoiling.

iv) Stockpiles

The contractor shall plan his activities so that materials excavated from borrow pits and cuttings, in so far as possible, can be transported direct to and placed at the point where it is to be used. However, should temporary stockpiling become necessary, the areas for the stockpiling of excavated and imported material shall be indicated and demarcated on the site plan submitted

in writing to the engineer for his approval, together with the contractor's proposed measures for prevention, containment and rehabilitation against environmental damage.

The areas chosen shall have no naturally occurring indigenous trees and shrubs present that may be damaged during operations. Care shall be taken to preserve all vegetation in the immediate area of these temporary stockpiles. During the life of the stockpiles the contractor shall at all times ensure that they are:

- Positioned and sloped to create the least visual impact;
- Constructed and maintained so as to avoid erosion of the material and contamination of surrounding environment; and
- Kept free from all alien/undesirable vegetation.

After the stockpiled material has been removed, the site shall be re-instated to its original condition. No foreign material generated / deposited during construction shall remain on site. Areas affected by stockpiling shall be landscaped, top soiled, grassed and maintained at the contractor's cost until clearance from the engineer and the relevant Authority is received.

Material milled from the existing road surface that is temporarily stockpiled in areas approved by the engineer within the road reserve, shall be subject to the same condition as other stockpiled materials. Excess materials from windrows, in-situ milling or any detritus of material from road construction activities may not be swept off the road and left unless specifically instructed to do so in the contract drawing or under instruction from the engineer

In all cases, the engineer shall approve the areas for stockpiling and disposal of construction rubble before any operation commences and shall approve their clause only when they have been satisfactorily rehabilitated. (Read with COLTO Specification 3203 and 4306).

v) Blasting activities

Wherever blasting activity is required on the site (including quarries and/or borrow pits) the contractor shall rigorously adhere to the relevant statutes and regulations that control the use of explosives. In addition, the contractor shall, prior to any drilling of holes in preparation for blasting, supply the engineer with a locality plan of the blast site on which shall be shown the zones of influence of the ground and air shock-waves and expected limits of fly-rock. The plan shall show each dwelling, structure and service within the zones of influence and record all details of the dwellings/structures/services including existing positions, lengths and widths of cracks, as well as the condition of doors, windows, roofing, wells, boreholes etc. The contractor, alone, shall be responsible for any costs that can be attributed to blasting activities, including the collection of fly-rock from adjacent lands and fields. The submission of such a plan shall not in any way absolve the contractor from his responsibilities in this regard. The contractor shall also indicate to the engineer the manner in which he intends to advertise to the adjacent communities and/or road users the times and delays to be expected for each individual blast.

i) Batching sites

Asphalt plants are considered scheduled processes listed in the second schedule to the Atmospheric Pollution Prevention Act, 1965 (Act No. 45 of 1965). Should the use of an asphalt plant be considered on site, the contractor shall be responsible to obtain the necessary permit from the Department of Environmental Affairs and Tourism, regardless of where they are sited.

Crushing plants and concrete batching plants, whether sited inside or outside of defined quarry or borrow pit areas, shall be subject to the requirements of the Department of Minerals and Energy legislation as well as the applicable industrial legislation that governs gas and dust emissions into the atmosphere. Such sites will be the subject of regular inspections by the relative authorities during the life of the project. In addition, the selection, entry onto, operation, maintenance, closure and rehabilitation of such sites shall be the same as for those under section C1008(h)(iii), with the exception that the contractor shall provide additional measures to prevent, contain and rehabilitate against environmental damage from toxic/hazardous substances. In this regard the contractor shall provide plans that take into account such additional measures as concrete floors, bunded storage facilities, linings to drainage channels and settlement dams. Ultimate approval of these measures shall be from the relevant national

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

authority, as shall approval of closure. The engineer will assist the contractor in his submissions to the relevant authority.

Effluent from concrete batch plants and crusher plants shall be treated in a suitable designated sedimentation dam to the legally required standards to prevent surface and groundwater pollution. The designs of such a facility should be submitted to the engineer for approval.

The contractor shall invite the relevant department to inspect the site within 2 Months after any plant is commissioned and at regular intervals thereafter, not exceeding 12 Months apart

j) Spillages

Streams, rivers and dams shall be protected from direct or indirect spillage of pollutants such as refuse, garbage, cement, concrete, sewage, chemicals, fuels, oils, aggregate, tailings, wash water, organic materials and tar or bituminous products. In the event of a spillage, the contractor shall be liable to arrange for professional service providers to clear the affected area.

Responsibility for spill treatment lies with the contractor. The individual responsible for, or who discovers a hazardous waste spill must report the incident to his/her DEO or to the engineer. The Designated Environmental Officer will assess the situation in consultation with the engineer and act as required. In all cases, the immediate response shall be to contain the spill. The exact treatment of polluted soil / water shall be determined by the contractor in consultation with the DEO and the engineer. Areas cleared of hazardous waste shall be re-vegetated according to the engineer's instructions

Should water downstream of the spill be polluted, and fauna and flora show signs of deterioration or death, specialist hydrological or ecological advice will be sought for appropriate treatment and remedial procedures to be followed. The requirement for such input shall be agreed with the engineer. The costs of containment and rehabilitation shall be for the contractor's account, including the costs of specialist input.

k) Areas of Specific Importance

Any area, as determined and identified within the project document as sensitive or of special interest within the site shall be treated according to the express instructions contained in these specifications or the approved EMP. The contractor may offer alternative solutions to the engineer in writing should he consider that construction will be affected in any way by the hindrance of the designated sensitive area or feature. However, the overriding principle is that such defined areas requiring protection shall not be changed. Every effort to identify such areas within the site will have been made prior to the project going out to tender. The discovery of other sites with archaeological or historical interest that have not been identified shall require ad hoc treatment.

i) Archaeological Sites

If an artefact on site is uncovered, work in the immediate vicinity shall be stopped immediately. The contractor shall take reasonable precautions to prevent any person from removing or damaging any such article and shall immediately upon discovery thereof inform the engineer of such discovery. The South African Heritage Research Agency (SAHRA) is to be contacted who will appoint an archaeological consultant. Work may only resume once clearance is given in writing by the archaeologist. (Read with COLTO General Condition of Contract Subclause 4.24 as amended by Particular Condition).

ii) Graves and middens

If a grave or midden is uncovered on site, or discovered before the commencement of work, then all work in the immediate vicinity of the graves/middens shall be stopped and the engineer informed of the discovery. SAHRA should be contacted and in the case of graves,

arrangements made for an undertaker to carry out exhumation and reburial. The Employer will be responsible for attempts to contact family of the deceased and for the site where the exhumed remains can be re-interred. (Read with COLTO General Conditions of Contract Sub-clause 4.24 as amended by Particular Condition).

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

l) Noise Control

The contractor shall endeavour to keep noise generating activities to a minimum. Noises that could cause a major disturbance, for instance blasting and crushing activities, should only be carried out during daylight hours. Compliance with the appropriate legislation with respect to noise, shall be mandatory.

Should noise generating activities have to occur at night the people in the vicinity of the drilling shall be warned about the noise well in advance and the activities kept to a minimum.

m) Dust Control

Dust caused by strong winds shall be controlled by means of water spray vehicles. Dust omission from batching plants shall be subject to the relevant legislation and shall be the subject of inspection by the relevant office of the Department of Minerals and Energy.

n) Alien Vegetation

The contractor shall be held responsible for the removal of alien vegetation within the road reserve disturbed during road construction. This includes, for example, service roads, stockpile areas, stop/go facilities, windrows and wherever material generated for or from road construction has been stored temporarily or otherwise within the road reserve. This responsibility shall extend for the duration of the defects notification period.

**C3.4.3.2.9. RECORD KEEPING**

The engineer and the DEO will continuously monitor the contractor's adherence to the approved impact prevention procedures and the engineer shall issue to the contractor a notice of non-compliance whenever transgressions are observed. The DEO should document the nature and magnitude of the non-compliance in a designated register, the action taken to discontinue the non-compliance, the action taken to mitigate its effects and the results of the actions. The non-compliance shall be documented and reported to the engineer in the Monthly report.

Copies of any record of decision or EMP's for specific borrow pits or quarries used on the project shall be kept on site and made available for inspection by visiting officials from the employer or relevant environmental departments.

**C3.4.3.2.10. COMPLIANCE AND PENALTIES**

The contractor shall act immediately when such notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the construction site pertaining to the environment shall be recorded in a dedicated register and the response noted with the date and action taken. This record shall be submitted with the Monthly reports and a verbal report given at the Monthly site meetings.

Any avoidable non-compliance with the above-mentioned measures shall be considered sufficient ground for the imposition of a penalty

The following penalties shall apply for environmental violations:

**a) Unnecessary removal or damage to trees**

- |   |   |                  |
|---|---|------------------|
| • 2600mm girth or less                            | : | R 5 000 per tree |
| • Greater than 2600mm, but less than 6180mm girth | : | R10 000 per tree |
| • Greater than 6180mm girth                       | : | R30 000 per tree |

**b) Serious violations:**

- Hazardous chemical/oil spill and/or dumping in non-approved sites. : R10 000 per incident
- General damage to sensitive environments. : R 5 000 per incident
- Damage to cultural and historical sites. : R 5 000 per incident
- Uncontrolled/unmanaged erosion (plus rehabilitation at contractor's cost). : R1 000 to R5 000 per incident
- Unauthorised blasting activities. : R 5 000 per incident
- Pollution of water sources. : R 10 000 per incident

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final.

**c) Less serious violations:**

- Littering on site. : R1 000 per incident
- Lighting of illegal fires on site. : R1 000 per incident
- Persistent or un-repaired fuel and oil leaks. : R1 000 per incident
- Excess dust or excess noise emanating from site. : R1 000 per incident
- Dumping of milled material in side drains or on grassed areas: R1 000 per incident
- Possession or use of intoxicating substances on site. : R 500 per incident
- Any vehicles being driven in excess of designated speed limits. : R 500 per incident
- Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife. : R2 000 per incident
- Illegal hunting. : R2 000 per incident
- Urination and defecation anywhere except in designated areas. : R 500 per incident

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final. The calculation shall include allied construction activities in the same way as the calculation of reduced payments under section 8200. The imposition of such a penalty shall not preclude the relevant provincial or national authority from applying an additional penalty in accordance with its statutory powers. Any non-compliance with the agreed procedures of the EMP is a transgression of the various statutes and laws that define the manner by which the environment is managed.

Failure to redress the cause shall be reported to the relevant authority for them to deal with the transgression, as it deems fit.

**C3.4.3.2.11. MEASUREMENT AND PAYMENT**

The cost of complying to this specification shall be deemed to be included in the rates tendered for this project.

<b>Item</b>	<b>Unit</b>
<b>B100.01</b> <b>Penalty for unnecessary removal or damage to trees</b> for the following diameter sizes	
(a) 2600mm girth or less	number (No)
(b) Greater than 2600mm, but less than 6180mm girth	number (No)
(c) Greater than 6180mm girth	number (No)

The unit of measurement shall be the number of trees by diameter size removed unnecessary or damaged. The penalty rates applied shall be those stated in clause C3.5.2.10.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

<b>Item</b>	<b>Unit</b>
<b>B100.02</b>	<b>Penalty for serious violations</b>
(a) Hazardous chemical/oil spill and/or dumping in non-approved sites	number (No)
(b) General damage to sensitive environments	
(c) Damage to cultural and historical sites	number (No)
(d) Pollution of water sources	number (No)
(e) Unauthorised blasting activities	number (No)
(f) Uncontrolled/unmanaged erosion per incident, depending on environment impacts, plus rehabilitation at contractor's cost)	number (No)

The unit of measurement for B100.02 (a) to (f) shall be the number of serious violation incidents. The penalty rates to be applied shall be those stated in clause C3.5.2.10.

<b>Item</b>	<b>Unit</b>
<b>B100.03</b>	<b>Penalty for less serious violations</b>
• Littering on site	number (No)
• Lighting of illegal fires on site	number (No)
• Persistent or un-repaired fuel and oil leaks	number (No)
• Excess dust or excess noise emanating from site	number (No)
• Dumping of milled material in side drains or on grassed areas	number (No)
• Possession or use of intoxicating substances on site	number (No)
• Any vehicles being driven in excess of designated speed limits	number (No)
• Removal and/or damage to flora or cultural or heritage objects on site, and/or killing of wildlife	number (No)
• Illegal hunting	number (No)
• Urination and defecation anywhere except in designated areas	number (No)

The unit of measurement shall be the number of less serious violation incidents. The penalty rates applied shall be those stated in clause C3.5.2.10.

The engineer's decision with regard to what is considered a violation, its seriousness and the penalty imposed shall be final. The calculation shall include allied construction activities in the same way as the calculation of reduced payments under section 8200. The imposition of such a penalty shall not preclude the relevant provincial or national authority from applying an additional penalty in accordance with its statutory powers. Any non-compliance with the agreed procedures of the EMP is a transgression of the various statutes and laws that define the manner by which the environment is managed.

Failure to redress the cause shall be reported to the relevant authority for them to deal with the transgression, as it deems fit.

## COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

**Table 1: Mechanisms that Cause Environmental Impacts during Construction Activities**

SECTION	CONTENTS	ENVIRONMENTAL IMPACTS				
		POLLUTION TYPE	DEFORMATION OF LANDSCAPE	SOIL EROSION	ALIEN VEGETATION	SENSITIVE AREAS (to be completed by compiler)
1300	Camp Establishment	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1400	Housing, Offices and laboratories	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1500	Accommodation of Traffic	Waste treatment Hazardous waste Water supply Spillage Storage Noise/lights Dust control	Selection of site Preserve indigenous vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
1600	Overhaul	Spillage Storage Noise/lights Dust control Exhaust fumes Washing waste	Turning circles Parking areas	Restrict access to sensitive areas	Protection of indigenous vegetation Preserve topsoil	
1700	Clearing and	Waste treatment	Selection of site	Selection of site	Protection of indigenous	

## COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

SECTION	CONTENTS	ENVIRONMENTAL IMPACTS				SENSITIVE AREAS (to be completed by compiler)
		POLLUTION TYPE	DEFORMATION OF LANDSCAPE	SOIL EROSION	ALIEN VEGETATION	
	grubbing	Hazardous waste Water supply Noise /lights Dust control	Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil	vegetation Preserve topsoil	
2100 2400	- Drainage	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3100	Borrow pits	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3200	Stockpiling	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3300	Mass Earthworks	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
3400 3900	- Pavement layers	Waste treatment Hazardous waste	Selection of site Preserve indigenous	Selection of site	Preserve indigenous vegetation	

SECTION	CONTENTS	ENVIRONMENTAL IMPACTS				
		POLLUTION TYPE	DEFORMATION OF LANDSCAPE	SOIL EROSION	ALIEN VEGETATION	SENSITIVE AREAS (to be completed by compiler)
		Water supply Spillage Storage Noise / lights Dust control	vegetation Preserve topsoil Demarcate sensitive areas Maintenance of windrows	Preserve indigenous vegetation Preserve topsoil	Preserve topsoil Management of weeds	
4100	Asphalt works / sealing operations	Waste treatment Hazardous waste Water supply Spillage Storage Noise / lights Dust control Smoke control Storage of materials	Selection of site Preserve indigenous vegetation Preserve topsoil Turning circles Parking areas	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil	
5000	Ancillary roadworks	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
6000	Structures	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	
7000	Concrete pavements etc	Waste treatment Hazardous waste Water supply Spillage Storage	Selection of site Preserve indigenous vegetation Preserve topsoil	Selection of site Preserve indigenous vegetation Preserve topsoil	Preserve indigenous vegetation Preserve topsoil Management of weeds	

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**C3.4.3.3 PROVISION OF STRUCTURED TRAINING**

CONTENTS

- C3.4.3.3.1 SCOPE
- C3.4.3.3.2 GENERIC TRAINING
- C3.4.3.3.3 ENTREPRENEURIAL SKILLS TRAINING
- C3.4.3.3.4 MEASUREMENT AND PAYMENT

**C3.4.3.3.1 SCOPE**

This specification covers the requirements for the provision of structured training to be arranged by the contractor over the period of this contract.

**C3.4.3.3.2 GENERIC TRAINING**

C3.4.3.3.2.1 The contractor shall, from the commencement of the contract, implement a structured progressive training programme.

C3.4.3.3.2.2 Training shall be at or by an approved accredited organisation and shall be delivered by suitably qualified and experienced trainers.

C3.4.3.3.2.3 The contractor shall be responsible for the provision of everything necessary for the delivery of the generic training programme, including the following:

- (a) A suitable venue with sufficient furniture, lighting and power.
- (b) All necessary stationery consumables and study material.
- (c) Transport of the students (as necessary).

C3.4.3.3.2.4 Generic training courses shall commence within one Month of possession of site and be completed before the end of the contract period. The Training Schedule should form part of the section 12 programme to be approved by the Engineer at the start of the project.

C3.4.3.3.2.5 The contractor's training programme shall be subject to the approval of Makhado Local Municipality and the contractor shall if so instructed by Makhado Local Municipality alter or amend the programme and course content if a need is identified once the contract commences.

C3.4.3.3.2.6 The contractor shall keep comprehensive records of the training given to each student and whenever required shall provide copies of such records to the engineer. At the successful completion of each course each student shall be issued with a certificate indicating the course contents as proof of attendance and completion.

In addition to the above, a Monthly return shall be submitted by the contractor. An example of the form is illustrated in Part C5 of this document (form RDP 11 (E))

**C3.4.3.3.3 ENTREPRENEURIAL SKILLS TRAINING**

C3.4.3.3.3.1 Small contractors, subcontractors and the Project Steering Committee (PSC) will be entitled to receive a structured training programme, which will comprise both management skills as well as business development skills.

C3.4.3.3.2 The contractor shall closely monitor the performance of all small subcontractors in the execution of their contracts and shall identify all such subcontractors who, in his opinion, display the potential to benefit from structured training as may be provided for in the contract and where required by the engineer, shall make recommendations in this regard. The final list of candidates will be decided between the contractor and the engineer.

C3.4.3.3.3 The training will be delivered by trainers who are accredited by the Civil Engineering Training Scheme (CEITS) or other institutions recognised by the Department of Labour. Accredited training refers to both the trainers as well as to the training material.

C3.4.3.3.4 The contractor shall facilitate in the delivery thereof, by instructing and motivating the subcontractor regarding attendance and participation therein.

C3.4.3.3.5 The contractor shall further make all reasonable efforts to co-ordinate the programming of the subcontractor's work with that of the delivery of the structured training.

C3.4.3.3.7 The contractor shall be responsible for the provision of everything necessary for the delivery of the entrepreneurial training programme, including the following:

- (a) A suitably furnished venue (if required) with lighting and power.
- (b) All necessary consumables, stationery and study material.
- (c) Transport of the subcontractors (as necessary).

C3.4.3.3.7 All entrepreneurial training shall take place within normal working hours.

C3.4.3.3.8 The contractor's training programme shall be subject to the approval of Makhado Local Municipality and the contractor shall if so instructed by Makhado Local Municipality alter or amend the programme and course content if a need is identified once the contract commences.

C3.4.3.3.10 The contractor shall keep comprehensive records of the training given to each subcontractor and whenever required shall provide copies of such records to the engineer. At the successful completion of each course each subcontractor shall be issued with a certificate indicating the course contents as proof of attendance and completion.

In addition to the above, a Monthly return shall be submitted by the contractor. An example of the form to be used is illustrated in Part C5 of this document, (form RDP 12 (E)).

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**C3.4.3.3.4 MEASUREMENT AND PAYMENT**

<b><u>ITEM</u></b>	<b><u>UNIT</u></b>
C12.05 Provision for accredited training	
(a) Generic skills	Provisional sum
(b) Entrepreneurial skills	Provisional sum
(c) Handling cost and profit in respect of sub-item C12.05(a) and (b) above	percentage (%)
(d) Training venue (only if required)	lump sum

The prime cost sums are provided to cover the actual costs (including wages and the daily PSC reimbursement) for attendance of accredited training courses as agreed with the engineer and shall be expended in accordance with the provisions of sub-clause 48(2) of the general conditions of contract. The tendered percentage in sub-item C12.05 (c) is a percentage of the amount actually spent under sub-items C12.05(a) and (b) which shall include full compensation for the contractor's handling cost, profit, mentoring, record keeping, reporting and all other costs in connection therewith.

The lump sum tendered for C12.05(d) shall include full compensation for the provision of the training venue, for all necessary lighting, power, furniture, stationery, consumables and study material and for transportation of the students to and from the training venue.

Payment of the lump sum will be made after the provision of all the accredit training, issuing of all certificates and submission of all records as specified in the document.

### **C3.4.3.4 PROVISION OF THE TEMPORARY WORKFORCE**

#### CONTENTS

##### C3.4.3.4.1 SCOPE

##### C3.4.3.4.2 INTERPRETATIONS

##### C3.4.3.4.3 PERMITTED SOURCES OF TEMPORARY WORKERS

##### C3.4.3.4.4 EMPLOYMENT RECO TO BE PROVIDED

##### C3.4.3.4.5 VARIATIONS IN WORKER PRODUCTION RATES

##### C3.4.3.4.6 TRAINING OF THE TEMPORARY WORKFORCE

##### C3.4.3.4.7 RECRUITMENT AND SELECTION PROCEDURES

##### C3.4.3.4.8 TERMS AND CONDITIONS PERTAINING TO THE EMPLOYMENT OF THE TEMPORARY WORKFORCE

##### C3.4.3.4.9 LABOUR RELATIONS AND WORKER GRIEVANCE PROCEDURES

##### C3.4.3.4.10 THE SUBCONTRACTORS' WORKFORCES

##### C3.4.3.4.11 MEASUREMENT AND PAYMENT

##### C3.4.3.4.1 SCOPE

This Specification covers the provisions and requirements relating to the provision of the temporary workforce. Reference is also made to the Basic Conditions of Employment Act (Act 75 of 1997) with specific reference to the Sectoral Determination 2: Civil Engineering Sector

##### C3.4.3.4.2 INTERPRETATIONS

###### C3.4.3.4.2.1 Supporting documents

The Tender Rules, Conditions of Contract, Standard and Project Specifications, Drawings and statutory minimum requirements relating to the employment and remuneration of labour shall *inter alia* be read in conjunction with this Specification.

###### C3.4.3.4.2.1.2 Definitions and abbreviations

For the purposes of this specification, the definitions given in the Conditions of Contract, the Standard Specifications and the Project Specifications, together with the following additional definitions shall, unless the context dictates otherwise, apply:

- (a) "Key Personnel" means all contracts managers, site agents, materials and survey technicians, trainers, supervisors, foremen, skilled plant operators, artisans and the like, and all other personnel in the permanent employ of the Contractor or Subcontractor who possess special skills and/or who play key roles in the Contractor's or Subcontractor's operation
- (b) "Project Committee" means a committee consisting of the Employer, the Engineer, the Contractor, (or their nominated representatives) as well as representatives of the temporary workforce, which is convened from time to time at the discretion of the Engineer, for the purposes of acting as an avenue for effective communication and liaison between all the parties referred to, in all matters pertaining to the Contract
- (c) "Subcontractor" means any person or group of persons in association, or firm, or body corporate (whether formally constituted or otherwise) not being the Contractor, to whom specific portions or aspects of the Works are sublet or subcontracted by the Contractor in accordance with the provisions of the Contract

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

- (d) "Worker" for the purposes of this Specification means any person, not being one of the Contractor's key personnel, nor any key personnel of any Subcontractor, who is engaged by the Contractor, a Subcontractor or the Employer to participate in the execution of any part of the Contract Works and shall include unskilled labour, semi-skilled and skilled labour, clerical workers and the like
- (e) "Workforce" means the aggregate body comprising all workers and shall, unless the context dictates otherwise, include the workforces of the Contractor and all Subcontractors
- (f) "Project Steering Committee (PSC)" means a committee comprising mainly of representatives (to a maximum of 10) of the affected communities with additional members from Makhado Local Municipality, the Contractor, Consultants and the Municipality. The PSC convenes at least once a Month as well as when the need so dictates, for the purpose of recruiting labour for the project, to address community issues and for acting as an avenue for effective communication and liaison between all the parties.
- (g) "Liaison Officer" means a local representative of the temporary workforce, duly appointed through the PSC processes, to act on behalf of the workers and through whom all matters pertaining to the temporary workforce can be channelled.

**C3.4.3.4.2.1.3 Status**

Where any provisions or requirements of this Specification are in conflict with anything elsewhere set out in the Contract, the provisions and requirements of this Specification shall take precedence and prevail.

**C3.4.3.4.3 PERMITTED SOURCES OF TEMPORARY WORKERS**

The Contractor shall as far as possible make optimum use of the human resources outside his own workforce and the workforces of all subcontractors. The temporary workforce that is to be used in the execution of the Works in terms of Part C3 may consist of the workers of local communities, and shall not be bound to one particular community.

**C3.4.3.4.4 EMPLOYMENT RECORDS TO BE PROVIDED**

- (a) The Contractor shall maintain accurate and comprehensive records of all workers engaged on the Contract and shall provide the Engineer at Monthly intervals from the commencement of the Contract, with interim records substantiating the actual numbers of employment opportunities that shall have been generated to date and the amounts actually paid in respect thereof. Such interim records shall be in a Makhado Local Municipality approved format. An example of the forms to be used is illustrated in Part C5 of this document, (forms RDP 9 and 10 (E).
- (b) The Contractor shall, on completion of the Contract, and as a pre-requisite event to the release of any retention money in terms of the Conditions of Contract, provide the Engineer with copies of the Terms of Employment as well as independently audited documentary evidence of the total number of temporary and permanent employment opportunities actually generated during the Contract.

**C3.4.3.4.5 VARIATIONS IN WORKER PRODUCTION RATES**

Notwithstanding anything to the contrary as may be stated in or inferred from any other provision of this Contract, the Contractor shall not be entitled to any additional payment or

compensation whatever, in respect of any differences as may result between the production rates actually achieved by workers in the course of the execution of the Contract Works and those production rates on which he has based his tender.

#### C3.4.3.4.6 TRAINING OF THE TEMPORARY WORKFORCE

- (a) Selected members of the workforce are to be provided with structured training in accordance with the provisions of Part C3.4.3.3.
- (b) The Contractor shall make all necessary allowances in his programme of work to accommodate and facilitate the delivery of such structured training and shall comply fully with the requirements of Part C3.4.3.3.
- (c) The provision of structured training as described in Part C3.4.3.3. shall not relieve the Contractor of any of his obligations in terms of the Conditions of Contract and the Contractor shall remain fully liable for the provision, at his own cost, of all training of the workforce, additional to that as provided for in Part C3.4.3.3, as may be necessary to achieve the execution and completion of the works strictly in accordance with the provisions of the Contract.

#### C3.4.3.4.7 RECRUITMENT AND SELECTION PROCEDURES

C3.4.3.4.7.1 The Project Steering Committee, through the assistance of the Social Facilitator and the Contractor, shall be responsible for the recruitment and selection of the Community Liaison Officer and the workers to constitute the temporary workforce.

C3.4.3.4.7.2 The Contractor shall advise the Engineer in writing of the numbers of each category of temporary worker which he requires, together with the personal attributes which he considers desirable that each category of worker shall possess (taking due cognisance of the provisions of the Contract relating to training).

C3.4.3.4.7.3 The Social Facilitator shall take the necessary actions to advertise within the affected local communities comprising the personnel resources, the fact that temporary employment opportunities exist and the time and place where recruiting will occur

C3.4.3.4.7.4 The Social Facilitator shall record in writing, the details of all persons applying for employment, including *inter alia*:

- (a) Name, Identity Number, Date of Birth, age and sex
- (b) Marital status and number of dependants
- (c) Qualifications and previous work experience (whether substantiated or not)
- (d) On the job training programmes attended
- (e) Period since last economically active
- (f) Preference for type of work or task.

C3.4.3.4.7.5 The selection of workers from amongst the applicants should take into cognizance the Contractor's requirements for the workforce and the provisions of the contract in regard to the provision of training to the workforce and in accordance with the following principle:

- (a) No potential temporary worker shall be precluded from being employed by the Contractor on the execution of the Works, by virtue of his lack of skill in any suitable operation forming part of the Works, unless -
  - (i) all available vacancies have been or can be filled by temporary workers who already possess suitable skills, or
  - (ii) the Time for Completion allowed in the Contract, or the remaining portion of the Contract Period (as the case may be) is insufficient to facilitate the creation of the necessary skills.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

- (b) Preference shall be given to the unemployed and single heads of households.
- (c) The Contractor shall, in so far as is reasonably practicable, give priority to accommodating the applicants' expressed preferences regarding the types of work for which they are selected.
- (d) The selection process shall not be prejudicial to youth (over the age of fifteen years) and women. The Contractor should strive to achieve the participation target for employment set for this project which is 60% female and 20% youth.

C3.4.3.4.7.6 After making the selection, the Social Facilitator shall forward the list in writing and without undue delay, to the Engineer for record keeping.

C3.4.3.4.7.7 The provisions of this clause shall apply *mutatis mutandis* in respect of the selection of additional or replacement members of the workforce as may be necessary from time to time during the Contract.

C3.4.3.4.7.8 The Contractor shall, after appointing his temporary workforce, arrange at his own cost for the appointment of the Liaison Officer as representative of the workforce to act on their behalf with regards to all matters pertaining to the workforce.

#### C3.4.3.4.8 TERMS AND CONDITIONS PERTAINING TO THE EMPLOYMENT OF THE TEMPORARY WORKFORCE

C3.4.3.4.8.1 All temporary workers engaged in accordance with the provisions of Part A of the Project Specifications, shall be employed on the terms and conditions of employment as are consistent with those as set out in this Contract. The Contractor shall implement and adhere strictly to such terms and conditions relating to the employment of the temporary workforce, and subject only to the provisions of this Contract, shall not employ any temporary worker on terms and conditions which are less favourable to the worker or inconsistent with the standards and norms generally applicable to temporary workers in the Civil Engineering Industry and applicable to the particular area. Refer to the Contract of Employment drafted/published by Department of Labour.

C3.4.3.4.8.2 **RATE OF REMUNERATION.** The Contractor shall pay to all workers engaged in terms of the contract, not less than the applicable gazetted minimum rate of remuneration in terms of the Sectorial Determination 2: Civil Engineering Sector.

The remuneration of the CLO shall be paid Monthly at the rate equivalent to Task Grade 3 in accordance with the provisions of the Basic Conditions of Employment Act, No. 75 of 1997, Amendment i.t.o Sectorial Determination 2: Civil Engineering Sector, South Africa

Compensation for transport for the members of the Project Steering Committee shall be made at a rate determined by the Municipality. This will cover for transport cost to and from the PSC meeting, site meeting and any other meeting deemed necessary to fulfil their obligations.

C3.4.3.4.8.3 **NON-PAYMENT OF LABOURERS.** Under this contract it is expected of the Main Contractor to ensure that all labourers are paid in time on a Monthly basis, whether they are employed by him/her directly or by any of his/her subcontractors. In the event of non-compliance, the employer reserves the right to use any remedies available at its disposal.

#### C3.4.3.4.9 LABOUR RELATIONS AND WORKER GRIEVANCE PROCEDURES

C3.4.3.4.9.1 The Contractor, as the Employer of the workforce, shall be fully responsible for the establishment and maintenance at his own cost, of satisfactory labour relations on site and the resolution of all grievances of temporary workers as may occur. Refer to Disciplinary Procedures for Small Business drafted/published by Department of Labour.

C3.4.3.4.9.2 The Contractor shall at all times adhere to the accepted norms and standards of labour relations prevailing generally in the Civil Engineering Construction Industry and shall conduct himself in a fair and reasonable manner, within the constraints as may be imposed upon him by the terms of the Contract.

C3.4.3.4.9.3 In the event of any temporary worker engaged by the Contractor in terms of the Contract, being aggrieved with regard to his Terms of Employment, working conditions and

training, he shall have the right, at his discretion, to be supported in any inquiry or disciplinary hearing or investigation instituted by the Contractor in terms of Subclause C3.4.3.4.9.2 above, by one member of the temporary workforce and one member of the Project Committee, which persons shall be nominated by the worker.

C3.4.3.4.9.4 In the event of any grievance not being satisfactorily resolved through the application of normal dispute resolution procedures in accordance with Sub clauses C3.4.3.4.9.2 and C3.4.3.4.9.3, then either the Contractor or the worker concerned may require that the matter be referred to the Project Committee for further consideration, with a view to facilitate the resolution thereof.

#### C3.4.3.4.10 THE SUBCONTRACTORS' WORKFORCES

C3.4.3.4.10.1 The provisions of this Part C shall apply *mutatis mutandis* to the workforces employed by all subcontractors engaged by the Contractor and the Contractor shall be fully responsible for ensuring, at his own cost, that the terms of every subcontract agreement entered into are such as to facilitate the application of these provisions in respect of the workforces of all subcontractors.

C3.4.3.4.10.2 The Contractor shall at his own cost and to the extent necessary, assist and monitor all subcontractors in the application of the provisions of this Specification, and shall, in terms of the Conditions of Contract, remain fully liable in respect of the acts, omissions and neglects of all subcontractors, in respect of the application of the provisions of this Specification.

#### C3.4.3.4.11 MEASUREMENT AND PAYMENT

The Contractor will not be separately reimbursed or compensated in respect of the provision of the workforce and creation of temporary employment opportunities and all the Contractor's costs associated with compliance with the provisions of this part of the Project Specifications shall, except to the extent provided for in Part C3.4.3.3. as relevant, be deemed to be included in the rates tendered for the various items of work listed in the Schedule of Quantities.

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**C3.5 MANAGEMENT**

**C3.5.1 MANAGEMENT MEETINGS**

The following meetings will be required as minimum for the management of the contract.

- (a) Monthly client site meeting (using standard agenda for management control).
- (b) Technical meetings as required for each phase of the work.
- (c) Monthly safety meetings in terms of the OHS requirements.
- (d) Weekly progress meetings

**C3.5.2 QUALITY CONTROL**

Contractor to supply details of quality plan and procedures. These shall include:

- Accommodation of traffic.
- Inspection and test plans.
- Approval process.
- Hold-points.
- Milestones.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**PART C4: SITE INFORMATION**

C4.1	SITE INFORMATION.....	205
C4.2	LOCALITY PLAN.....	207

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**C4.1 SITE INFORMATION****C4.1.1 General**

The project site is situated approximately 2.6 km North of town centre of Louis Trichardt in Vhembe District Municipality under Makhado Local Municipal area. The site is accessible via the National Road (N1) leading north, away from the town of Louis Trichardt.

**C4.1.2 Climate and Weather**

The site receives about 791 mm of rain per year, with most rainfall occurring during mid-summer. It receives the lowest rainfall (3 mm) in August and the highest (106 mm) in January. The average midday temperatures for Louis Trichardt range from 20.2°C in June to 27.1°C in January. The region is the coldest during July when the mercury drops to 5.5°C on average during the night.

**C4.1.3 Topography**

The study area is seen to host a slightly undulating surface morphology typical to that of regional gneissic and granitic terrains. These rocks form part of an ancient batholithic intrusion which have subsequently been disturbed by various geological processes (metamorphism, faulting, intrusions, etc.); resulting in a discontinuous underlying rock mass.

**C4.1.4 Material site investigation**

The main road prism investigation entailed centreline materials investigation where ten Test Pits (TP) were excavated to determine the quality of the material in the pavement layers and deeper in situ material. Profiling of the test pits was done and layer materials classified.

**C4.1.5 Pavement and layer-works currently existing**

The existing surfacing was observed to asphalt surfacing. The Commissioner / Main Street intersection has concrete panels. The existing base layer is 150mm to 200mm thick. The layer material consists mainly of gravel of different properties ranging from dark yellow gravel with light brown stone and light brown gravel.

The subbase layer is 150 mm thick and it consists mainly of dark yellow gravel with light brown stone and light brown gravel similar to the base layer. The subbase layer materials can generally be classified as a G6 quality material.

The selected subgrade material of G6 quality gravel.

The subgrade material with varying layer thicknesses consists mainly of dark yellowish orange soil or dark reddish orange soil with light brown stone.

**C4.1.6 Structures**

Stormwater structures to be constructed.

**C4.1.6 Services**

**Water Pipelines and Sewer pipelines:**

**The as-built drawings for existing water pipelines are not available.** Where pipes are crossing the streets, pipe sleeves will be constructed for future maintenance.

**Electricity Lines:**

The streets consist of overhead and underground electrical cables. The underground cables will have to be marked and care will be taken when excavating.

**Fences:**

No fences.

**Telkom lines**

All Telkom lines are overheads and underground.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**C4.2 LOCALITY PLAN**

Locality Map is attached under separate book of drawings.”

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**PART C5: ANNEXURES**

C5.1	PROFORMA DOCUMENTS .....	209
C5.2	HEALTH AND SAFETY SPECTIFICATION .....	220
C5.3	CONTRACT DRAWINGS .....	221

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**C5.1 PROFORMA DOCUMENTS**

The following is a list of proforma documents and examples that are required to be completed by the successful tenderer.

C5.1.1	RETENTION MONEY GUARANTEE PROFORMA.....	210
C5.1.2	EXAMPLE OF SMME DECLARATION AFFIDAVIT .....	212
C5.1.3	FORM RDP 9(E) : CONTRACT EMPLOYMENT REPORT .....	214
C5.1.4	FORM RDP 10(E) : EMPLOYMENT OF SUPERVISORY STAFF REPORT ...	215
C5.1.5	FORM RDP 11(E) : GENERIC TRAINING REPORT .....	216
C5.1.6	FORM RDP 12(E) : ENTREPRENEURIAL TRAINING REPORT .....	217
C5.1.7	FORM RDP 13(E) : ENGINEERING TRAINING REPORT .....	218
C5.1.8	FORM RDP 14(E) : COMMUNITY LIAISON MEETING REPORT.....	219

**C5.1.1 RETENTION MONEY GUARANTEE PROFORMA**

**EXAMPLE**

**MAKHADO LOCAL MUNICIPALITY  
Private Bag x2596  
Louis Trichardt  
0920**

FOR INFORMATION ONLY:  
This Guarantee is not to be completed and signed by the Guarantor.  
A separate form will be issued to the successful Tenderer

**Notes to Tenderer**

1. This pro forma is for information only. The successful tenderer's guarantor will need to reproduce it without amendment, omission or addition for completion and lodgement with the Employer.
2. The tenderer's guarantee will have to be on letterheads indicating the contact details of the guarantor, shareholders/board of directors, guarantee number and the company registration number.

**Tender No.: 58 of 2021**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

The guarantee is issued on behalf of .....

Registration No .....

(hereinafter referred to as "the Contractor") in connection with the above mentioned contract (hereinafter referred to as "the Contract").

Whereas you have agreed that the Contractor may provide a guarantee in lieu of the retention monies provided for under the Contract.

Now therefore we, the undersigned, being duly authorised to represent the .....

.....

(full name of guarantor) registration number .....

undertake to pay you such amounts as you may from time to time demand from us, immediately upon receipt of a written demand from you.

1. Each demand shall be in writing and delivered to us at ..... or such other address as we shall in writing notify to you.
2. Our liability to make the payments herein referred to shall be unconditional and not be affected or diminished by any disputes, claims or counterclaims between you and the Contractor.
3. Our aggregate liability under this guarantee is limited to ..... (R.....) and is restricted to payment of monies only.

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

---

- 4. This guarantee shall expire on the date on which the last of the retention monies, which but for this guarantee would have been retained by you, becomes payable to the Contractor.
- 5. This guarantee is neither negotiable nor transferable and must be returned to us against final payment of our aggregate liability or on the date of the expiry of the guarantee in terms of Clause 4 (above), whichever is the earlier.

Signed at .....for and on behalf of .....

on this the ..... day of ..... in the year .....

GUARANTOR: .....

AS WITNESS:

1. ....	2. ....
NAME(Print): .....	NAME(Print): .....
ADDRESS .....	ADDRESS .....
.....	.....
.....	.....

**C5.1.2 EXAMPLE OF SMME DECLARATION AFFIDAVIT**

- 1. Name of SMME firm : .....
- Postal address : .....
- Physical address of Head Office: .....
- Telephone no. : ..... Fax no .....
- Cell no : .....
- Contact person : .....
- VAT registration no. : .....

- 2. Type of firm (tick as appropriate)
  - Partnership.....
  - One person business/sole trader.....
  - Close corporation: registration no.....
  - Date of registration.....
  - Company: registration no.....
  - Pty Ltd: registration no.....

**[ATTACH LATEST CIPRO PRINTOUT TO PROVE ABOVE INFORMATION]**

- 3. Principal Business Activities :.....
- 4. Service/work to be performed on this contract:.....
- 5. CIDB registration no (if applicable): .....

**[ATTACH LATEST CIDB INFORMATION AS PROOF]**

- 5. SMME status (mark the appropriate category)
  - 5.1. Total full time equivalent of paid employees: .....
  - 5.2. Total Annual turnover: .....
  - 5.3. Total gross asset value (fixed property excluded): .....

**[ATTACH CONFIRMATION LETTER OF AUDITEROR INCOME STATEMENT TO SUBSTANTIATE AND PROVE ABOVE INFORMATION]**

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS**

---

**8. Declaration**

I, .....,  
being duly authorised to sign on behalf of the firm, affirm that the SMME status as stated above and the information as furnished is true and correct.

Signature .....

Name (print) .....

Date .....

Signed on behalf of (print name) .....

Address .....

.....

Telephone no. ....

Commissioner of Oath .....

Date .....

**Note: In the case of a Company a certificate of authority for signatory must be provided.**

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

EXAMPLE

C5.1.3 FORM RDP 9(E) : CONTRACT EMPLOYMENT REPORT

CONTRACT NO 58 of 2021

REPORT ON EMPLOYMENT ON THE ABOVE CONTRACT FOR THE MONTH OF 2021										
NAME OF COMPANY OR FIRMAND VENDOR NUMBER	AGE OF COMPANY OR FIRM	EMPLOYMENT GROUP	EMPLOYMENT							
			MALE	FEMALE	TOTAL	PERSON/HOURS			VALUE (RAND)	
						MALE	FEMALE	TOTAL	MALE	FEMALE
		Unskilled (US)								
		Semi-Skilled (SS)								
		Skilled (SK)								
		Lab.Tech (LT)								
		Surveyor (SUR)								
		Eng. Tech (ET)								
		Engineer (EN)								
		Admin (AD)								
		Others (o)								
<b>TOTALS</b>										
<b>GRAND TOTALS</b>										

EXAMPLE



**C5.1.5 FORM RDP 11(E) : GENERIC TRAINING REPORT**

**CONTRACT NO 58 of 2021**

REPORT ON GENERIC TRAINING ON THE ABOVE CONTRACT FOR THE MONTH OF 2021										
DATES OF TRAINING COURSES		EMPLOYER OF TRAINEE		NAME OF TRAINING INSTITUTE OR IF IN-HOUSE WRITE IH	ATTENDANCES				TOTAL COST OF TRAINING PER TYPE OF TRAINING	
START	FINISH	NAME	VENDOR NO.		NUMBER ATTENDING		CERTIFICATES AWARDED		MALE	FEMALE
					MALE	FEMALE	MALE	FEMALE		
					<b>TOTAL</b>					
					<b>TOTAL ALL TRAINEES</b>					

**EXAMPLE**

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT ELTIVILLAS

**C5.1.6 FORM RDP 12(E) : ENTREPRENEURIAL TRAINING REPORT**

CONTRACT NO 58 of 2021

REPORT ON ENTERPRENEURIAL TRAINING ON THE ABOVE CONTRACT FOR THE MONTH OF 2021										
DATES OF TRAINING COURSES		EMPLOYER OF TRAINEE		NAME OF TRAINING INSTITUTE OR IF IN-HOUSE WRITE IH	ATTENDANCES				TOTAL COST OF TRAINING PER TYPE OF TRAINING	
START	FINISH	NAME	VENDOR NO.		NUMBER ATTENDING		CERTIFICATES AWARDED		MALE	FEMALE
					MALE	FEMALE	MALE	FEMALE		

EXAMPLE

**C5.1.7 FORM RDP 13(E) : ENGINEERING TRAINING REPORT**

**CONTRACT NO 58 of 2021**

REPORT ON ENGINEERING TRAINING ON THE ABOVE CONTRACT FOR THE MONTH OF										2021
DATES OF TRAINING COURSES		EMPLOYER OF TRAINEE		NAME OF TRAINING INSTITUTE OR IF IN-HOUSE WRITE - IH	ATTENDANCES				TOTAL COST OF TRAINING PER TYPE OF TRAINING	
START	FINISH	NAME	VENDOR NO.		NUMBER ATTENDING		CERTIFICATES AWARDED		MALE	FEMALE
				MALE	FEMALE	MALE	FEMALE			
<b>TOTAL</b>										
<b>TOTAL ALL TRAINEES</b>										

## EXAMPLE

## C5.1.8 FORM RDP 14(E) : COMMUNITY LIAISON MEETING REPORT

CONTRACT NO 58 of 2021

REPORT ON COMMUNITY LIAISON MEETINGS ON THE ABOVE CONTRACT FOR THE MONTH OF						2021
DATE OF MEETING	COMPANY/FIRM OR ORGANISATION RESPONSIBLE FOR ARRANGING THE MEETING		NUMBER OF COMMUNITY MEMBERS PRESENT	DURATION OF MEETING (hours)	TOTAL COST OF THE MEETING	COMMENTS
	NAME	VENDOR NO.				

**COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS**

---

**C5.2 HEALTH AND SAFETY SPECTIFICATION**

COMMISSIONER AND MAIN STREET INTERSECTION REHABILITATION AND STORM WATER AT  
ELTIVILLAS

---

**C5.3 CONTRACT DRAWINGS**



NOTES

KEY

REVISIONS

REV	DATE	SIGN	DESCRIPTION
0	.....	....	.....

CLIENT



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920  
Tel: 015 519 3000

CONSULTANT



Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

DRAWING STATUS

FOR INFORMATION

PROJECT TITLE

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

PROJECT LOCATION

The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

DRAWING DESCRIPTION

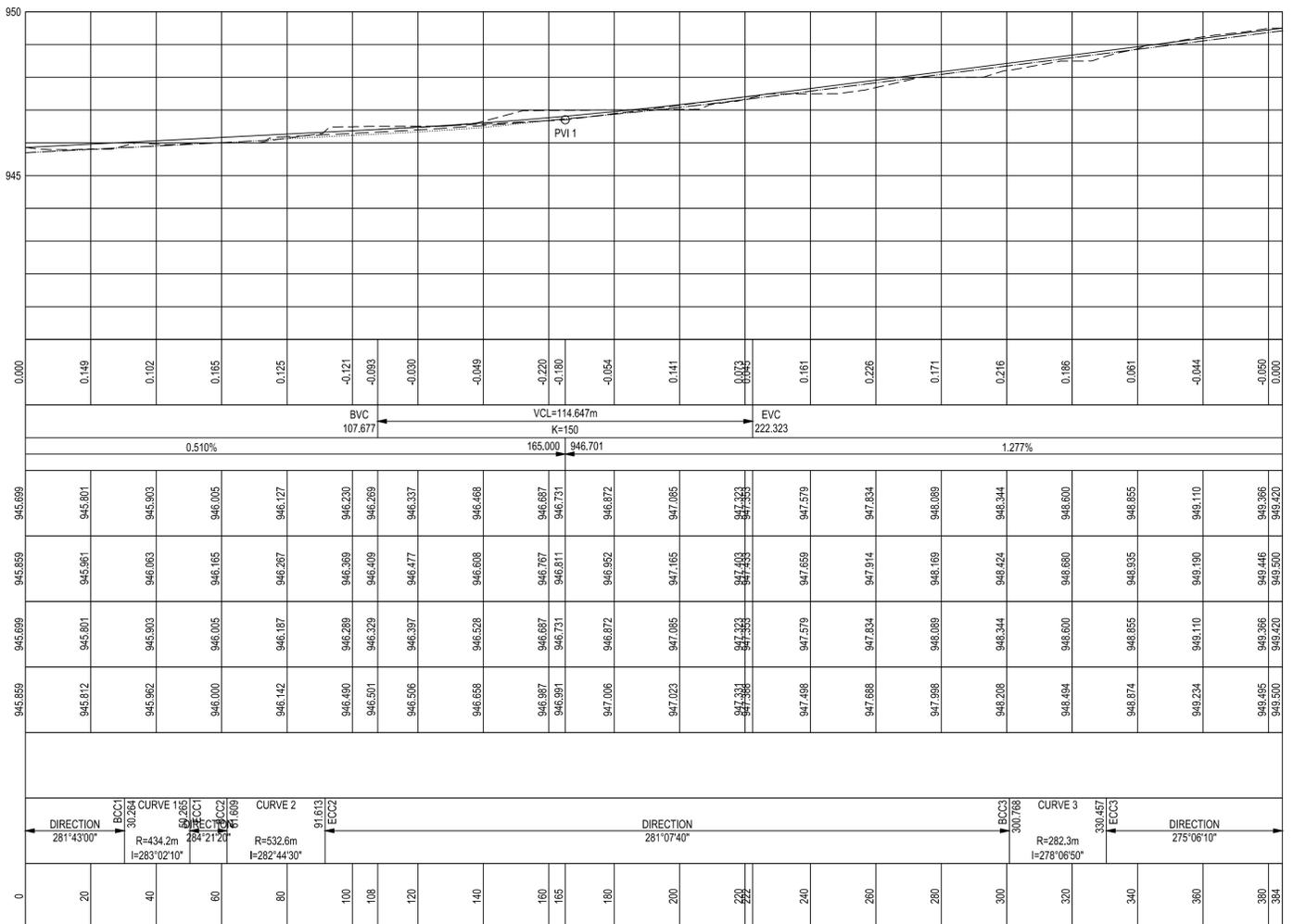
MAIN STREET LAYOUT LAN AND LONG SECTION

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

SCALES:  
Horizontal 1:200  
Vertical 1:20

DATUM 940.000

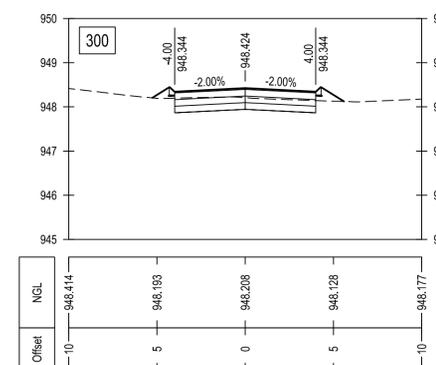
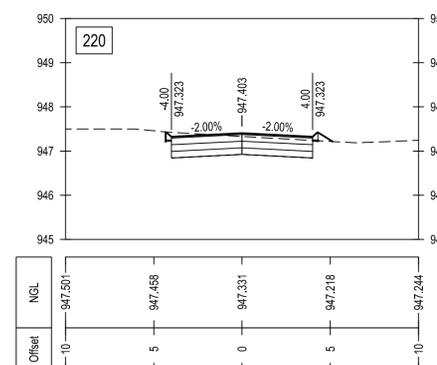
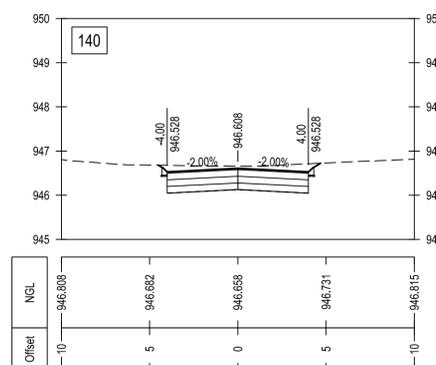
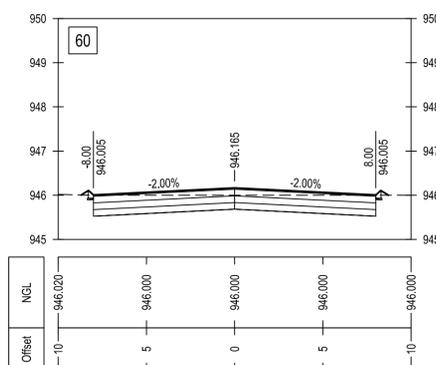
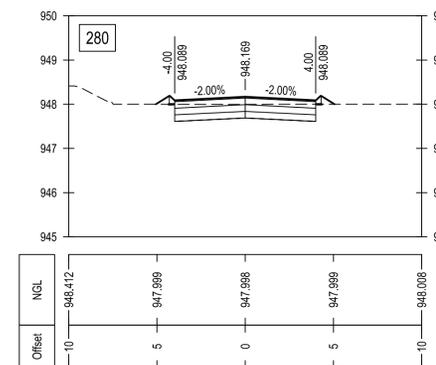
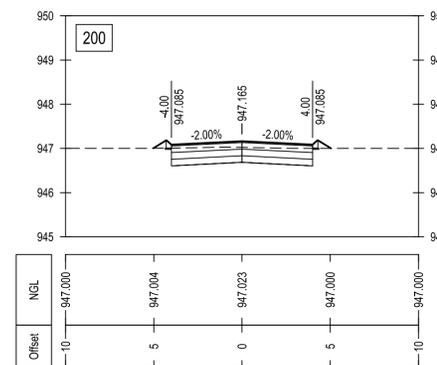
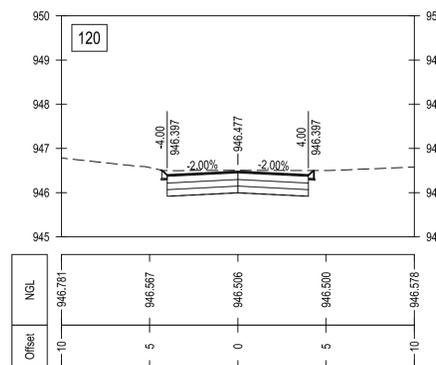
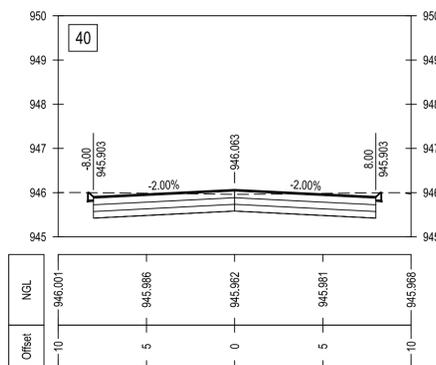
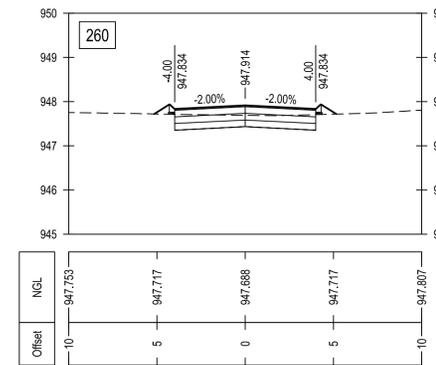
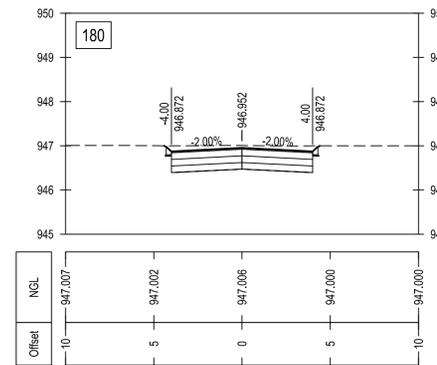
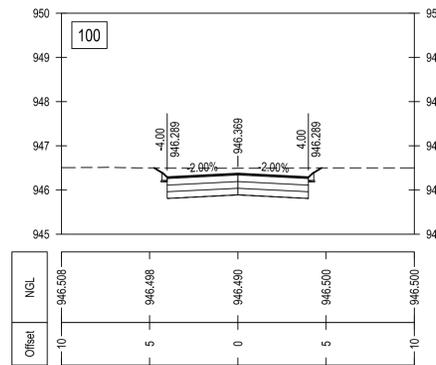
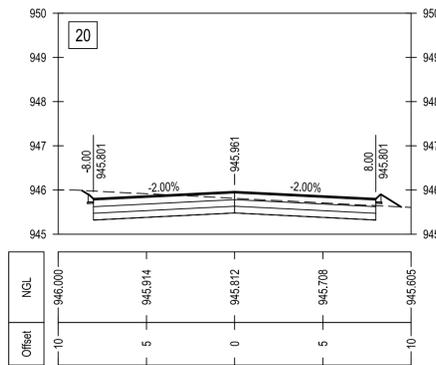
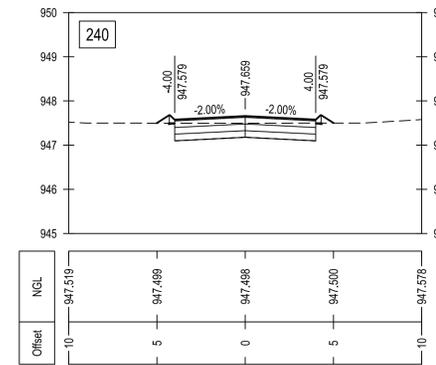
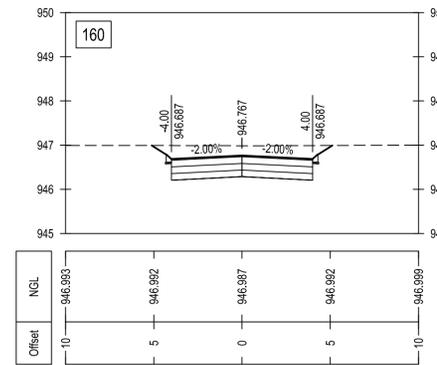
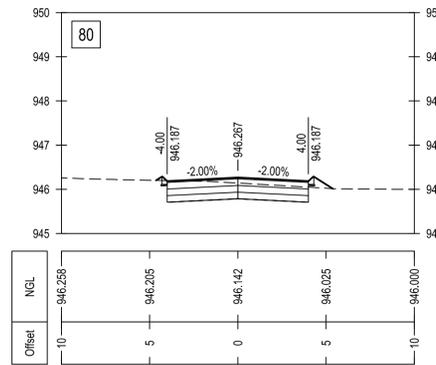
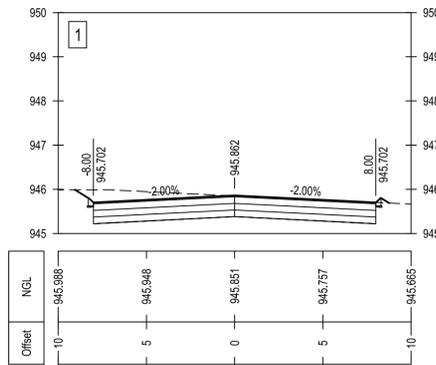
FINAL DESIGN ROAD LEVELS	
LEFT EDGE (HL)	
CENTRE LINE (CL)	
RIGHT EDGE (HR)	



LONGSECTION MAIN STREET 1  
FROM 0.000 TO 384.257

SCALE 1:1 000

A1	DRAWING No. Makhado/RD/01	REVISION A
----	------------------------------	---------------



SCALE 1:200

NOTES

KEY

REVISIONS

REV	DATE	SIGN	DESCRIPTION
0	.....	.....	.....

CLIENT



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920

Tel: 015 519 3000

CONSULTANT



Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

DRAWING STATUS

FOR INFORMATION

PROJECT TITLE

Commissioner (Commercial) and Main street intersection  
rehabilitation and stormwater

PROJECT LOCATION

The intersection is on Main / Commissioner (Commercial) street in  
Louis Trichardt town, in the Vhembe District, Limpopo Province.  
GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

DRAWING DESCRIPTION

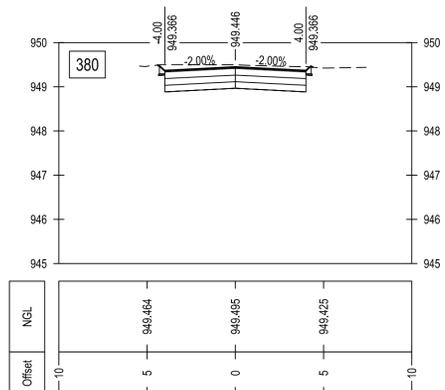
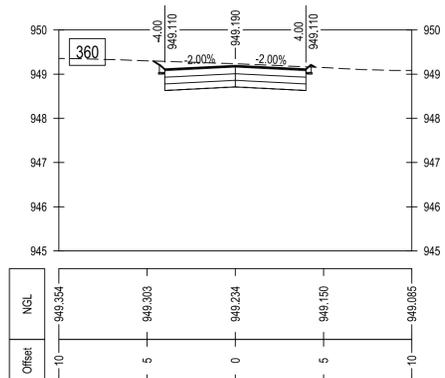
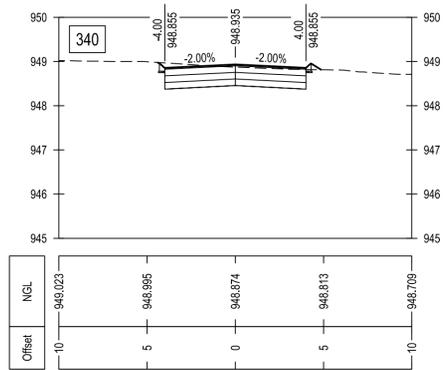
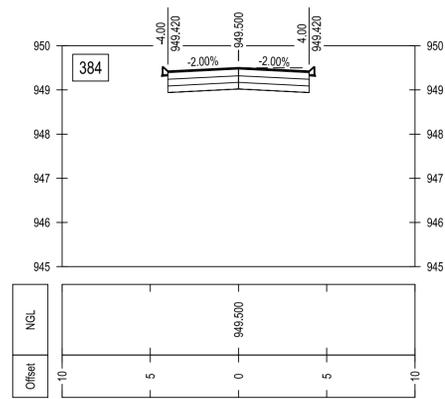
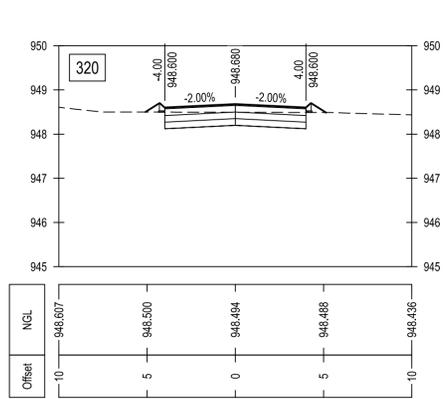
MAIN STREET CROSS SECTION SHEET 1 OF 2

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

A1

DRAWING No.  
Makhado/RD/02

REVISION  
A



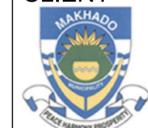
**NOTES**

**KEY**

**REVISIONS**

REV	DATE	SIGN	DESCRIPTION
0	.../.../...	....	.....

**CLIENT**



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920

Tel: 015 519 3000

**CONSULTANT**



Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

**DRAWING STATUS**

FOR INFORMATION

**PROJECT TITLE**

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

**PROJECT LOCATION**

The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

**DRAWING DESCRIPTION**

MAIN STREET CROSS SECTION SHEET 2 OF 2

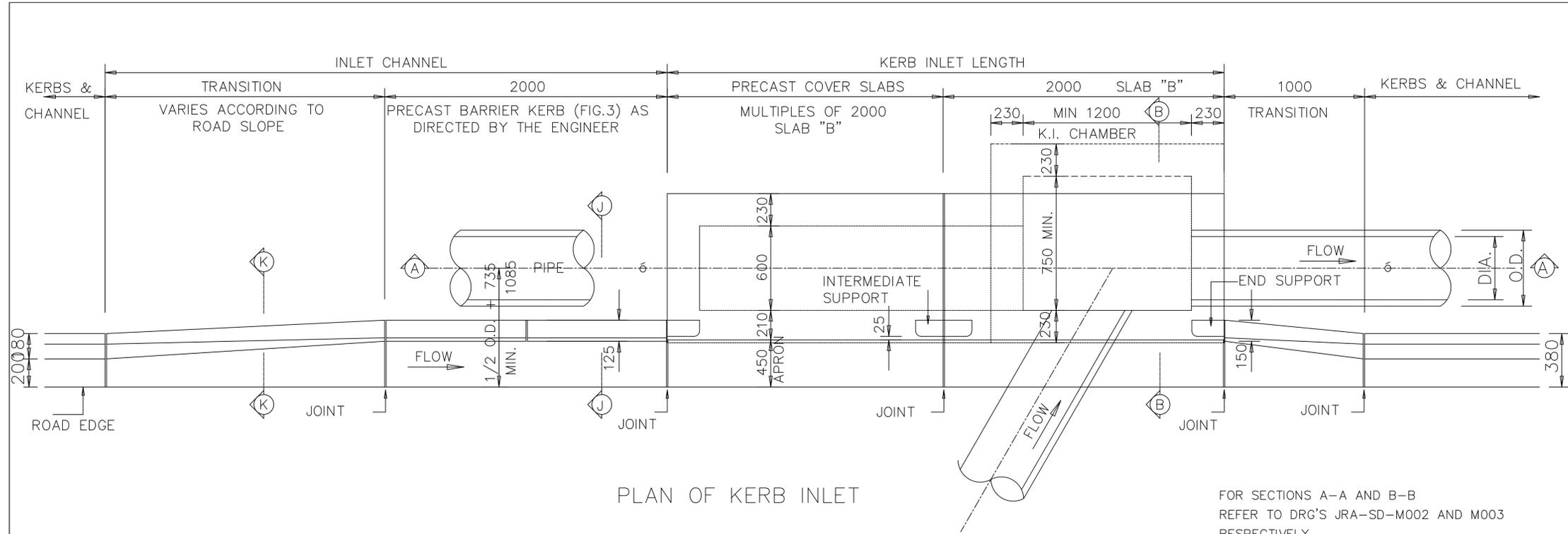
SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

SCALE 1:200

A1

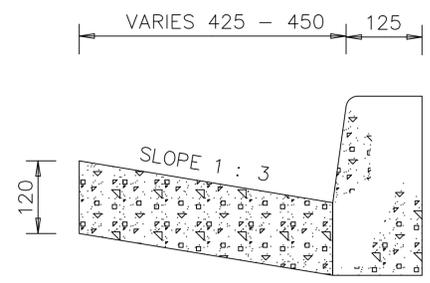
**DRAWING No.**  
Makhado/RD/03

**REVISION**  
A

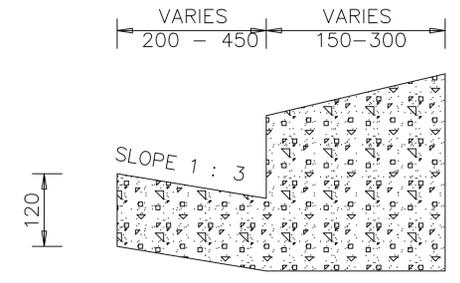


PLAN OF KERB INLET

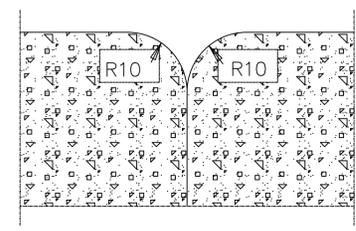
FOR SECTIONS A-A AND B-B  
REFER TO DRG'S JRA-SD-M002 AND M003  
RESPECTIVELY



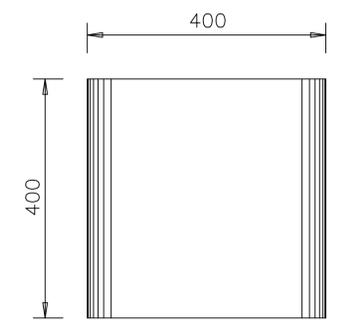
SECTION J - J



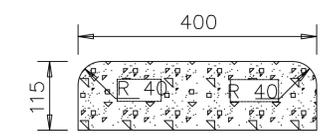
SECTION K - K



DETAIL OF JOINT  
IN APRON



INTERMEDIATE SUPPORT  
FOR COVER SLAB



NOTES

KEY

REVISIONS

REV	DATE	SIGN	DESCRIPTION
0	...	...	.....

CLIENT



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920  
Tel: 015 519 3000

CONSULTANT

Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

DRAWING STATUS

FOR INFORMATION

PROJECT TITLE

Commissioner (Commercial) and Main street intersection  
rehabilitation and stormwater

PROJECT LOCATION

The intersection is on Main / Commissioner (Commercial) street in  
Louis Trichardt town, in the Vhembe District, Limpopo Province.  
GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

DRAWING DESCRIPTION

KERB INLET STRUCTURAL DETAILS SHEET 1 OF 5

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

SCALE 1:500

A1	DRAWING No. Makhado/STD/01	REVISION A
----	-------------------------------	---------------







NOTES

KEY

REVISIONS

REV	DATE	SIGN	DESCRIPTION
0	...	...	.....

CLIENT



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920

Tel: 015 519 3000

CONSULTANT

Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

DRAWING STATUS

FOR INFORMATION

PROJECT TITLE

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

PROJECT LOCATION

The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

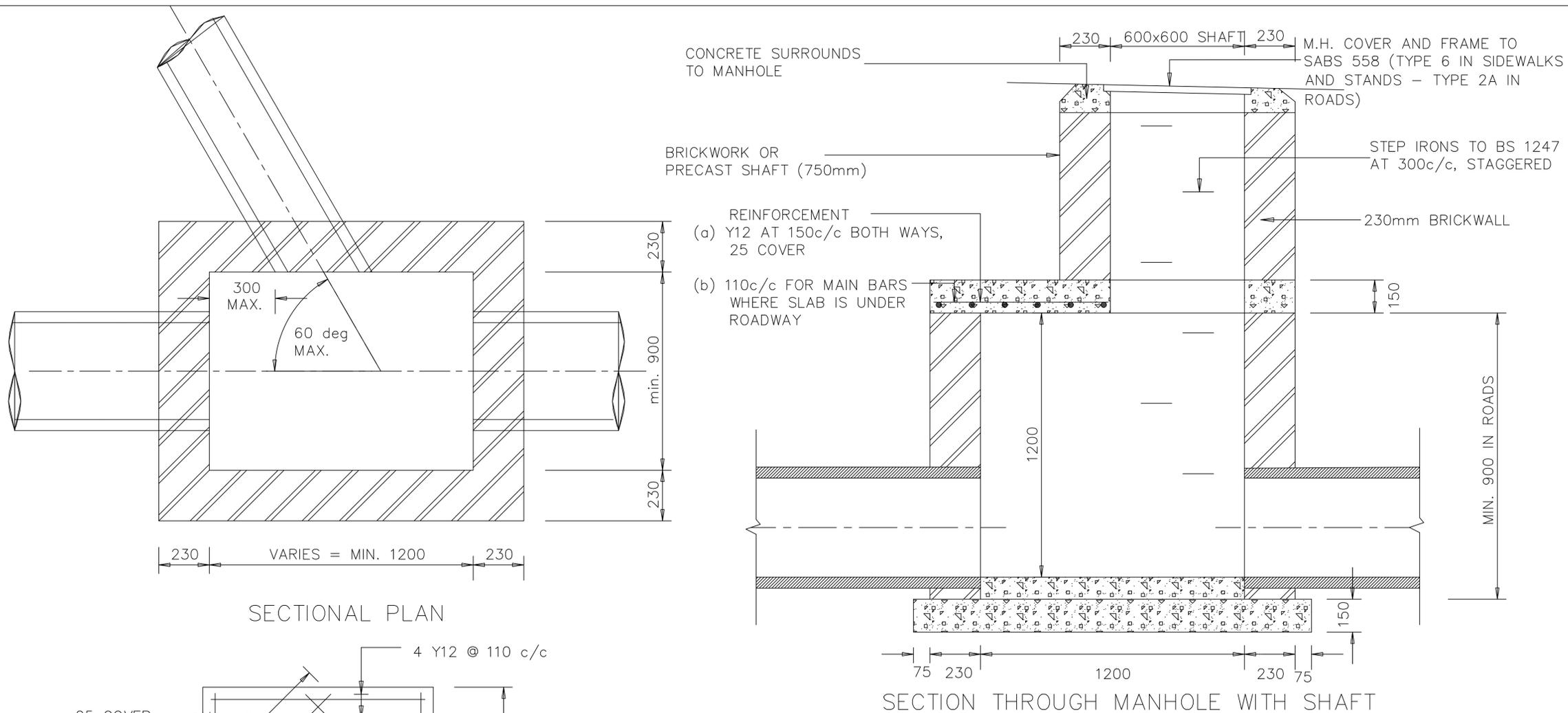
DRAWING DESCRIPTION

KERB INLET STRUCTURAL DETAILS SHEET 4 OF 5

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

DRAWING No.  
Makhado/STD/05

REVISION  
A



CONCRETE SURROUNDS TO MANHOLE

BRICKWORK OR PRECAST SHAFT (750mm)

REINFORCEMENT (a) Y12 AT 150c/c BOTH WAYS, 25 COVER

(b) 110c/c FOR MAIN BARS WHERE SLAB IS UNDER ROADWAY

M.H. COVER AND FRAME TO SABS 558 (TYPE 6 IN SIDEWALKS AND STANDS - TYPE 2A IN ROADS)

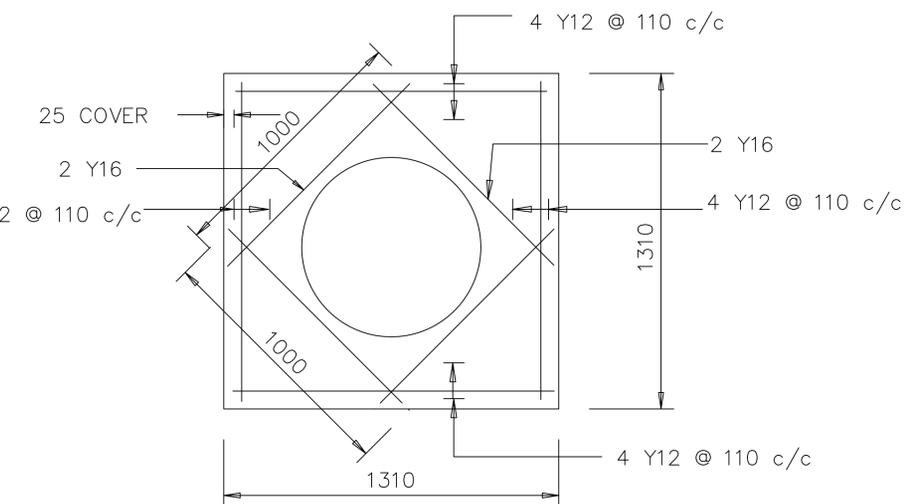
STEP IRONS TO BS 1247 AT 300c/c, STAGGERED

230mm BRICKWALL

MIN. 900 IN ROADS

SECTION THROUGH MANHOLE WITH SHAFT

SECTIONAL PLAN



REINFORCEMENT DETAIL FOR COVER SLAB

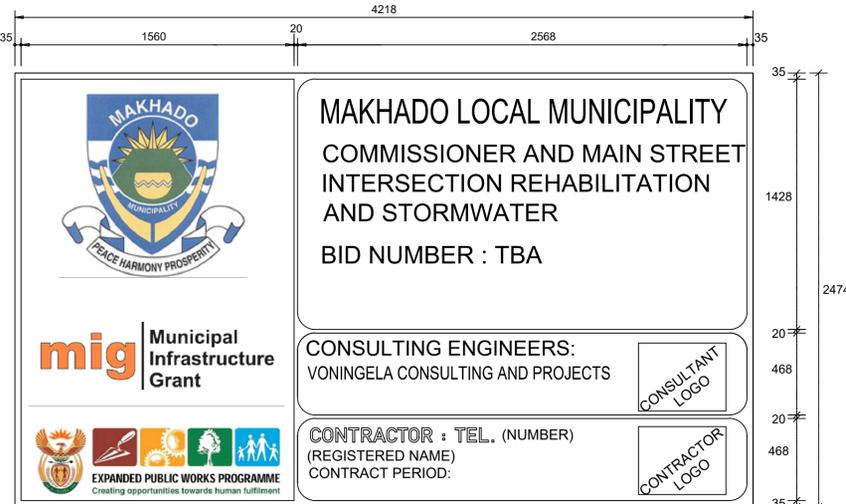
NOTES

- CONCRETE STRENGTH TO BE AS FOLLOWS:
  - MANHOLE SURROUNDS AND BENCHING: CLASS 15/19
  - CAST IN-SITU DECK SLABS AND FOUNDATION: CLASS 20/19
  - PRECAST COVER SLABS AND OTHER ITEMS: CLASS 25/19
  - CAST IN-SITU KERBS, APRONS ETC.: CLASS 25/19
- ALL FLOORS AND BENCHING TO BE STEEL T ROWELLED WITH A SMOOTH RADIUS.
- ALL BRICKS TO BE OF QUALITY FBSE 30 TO SABS 227-1986, ABSORPTION < 14% AND EFFLORESCENCE < 10.
- ALL BRICKWORK TO BE IN ENGLISH BOND.
- MANHOLE AND KERB INLETS WIDTHS AND DEPTHS:

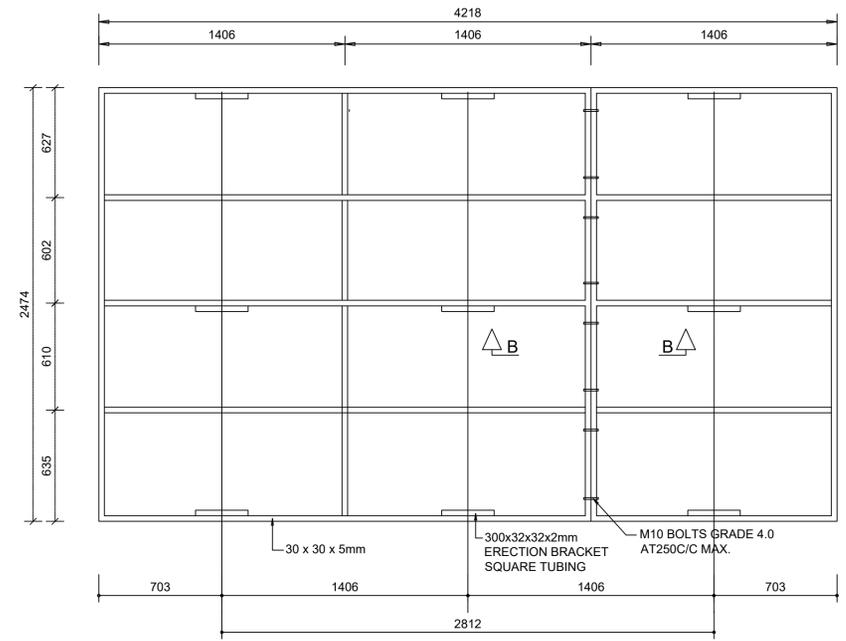
WIDTH-  
750 mm PIPES AND LESS - 900mm  
825 mm PIPES AND MORE - 1200mm  
SOME JUNCTION MANHOLE SIZES TO BE DETERMINED ON SITE

DEPTH-  
THE DEPTH INDICATED SHOULD BE INCREASED IF NECESSARY FOR ANGLE AND JUNCTION MANHOLES TO PERMIT SUFFICIENT DISCHARGE HEAD TO DEVELOP. MANHOLE DEPTH > 1,75m, WIDTH OF BRICKWORK TO BE INCREASED TO 330mm.

A1



FRONT ELEVATION



REAR SIDE BRACING

NOTES:

EMBLEM:  
1. ALL EMBLEMS TO BE DISPLAYED IN FULL COLOUR ON A SEMI-MATT BACKGROUND.

LETTERS AND NUMBERS:  
2. DESCRIPTION : MATT-BLACK, SERIES DIN B LETTERS AND NUMBERS ON A SEMI-MATT SMOKE-GREY BACKGROUND.

BORDERS:  
3. BORDER : GREEN NON-REFLECTORIZED.

QUANTITY:  
4. TWO SIGN BOARDS, SHALL BE ERECTED AT POSITIONS AS DETERMINED BY THE ENGINEER.

DESCRIPTION:  
5. DESCRIPTION OF WORK (NUMBER OF KILOMETRES AND TYPE OF WORK, eg "13.5km RECONSTRUCTION OF ROAD 1974." DESCRIPTION STARTS CENTERED ON THE LEFT-HAND SIDE AND THE FIRST 105mm-DIMENSION BELOW "NORTHERN" 6. SAFCEC EMBLEM ONLY IF CONTRACTOR IS A MEMBER OTHERWISE BLANK.

- NOTES**
1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ONSITE AND NOTIFY THE ENGINEER OF ANY VARIATIONS BEFORE CONSTRUCTION.
  2. IDENTIFY ALL KNOWN EXISTING SERVICES PRIOR TO CONSTRUCTION.
  3. THE COORDINATES ARE BASED ON WGS84 LO29.

**KEY**

**REVISIONS**

REV	DATE	SIGN	DESCRIPTION
0	.....	....	.....

**CLIENT**



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920  
Tel: 015 519 3000

**CONSULTANT**

Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

**DRAWING STATUS**

FOR INFORMATION

**PROJECT TITLE**

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

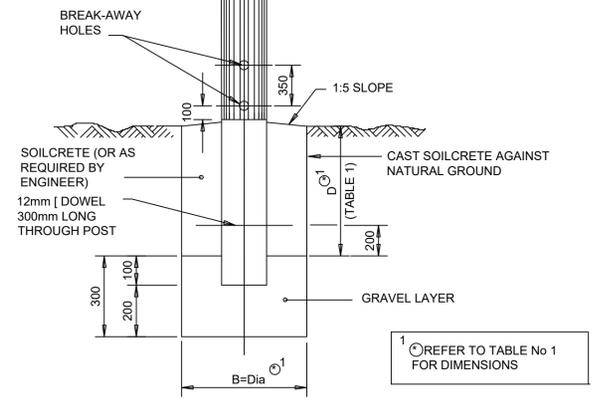
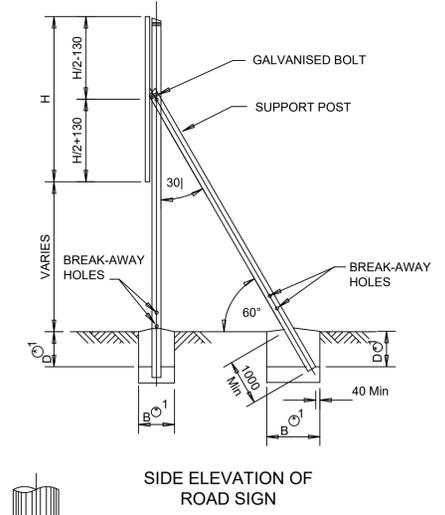
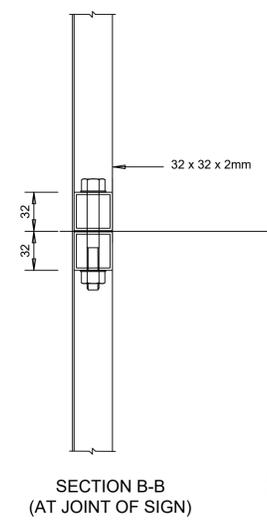
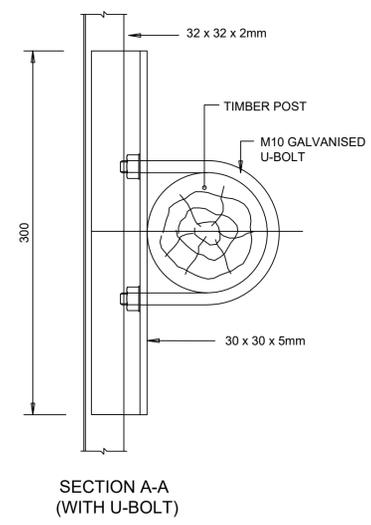
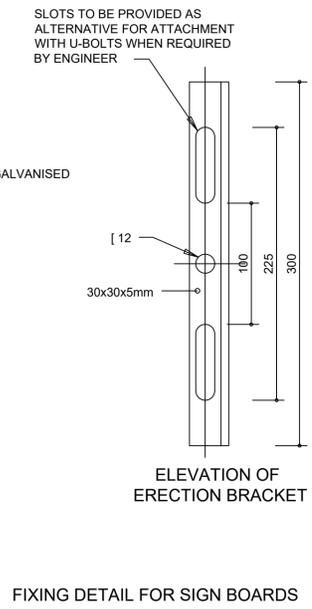
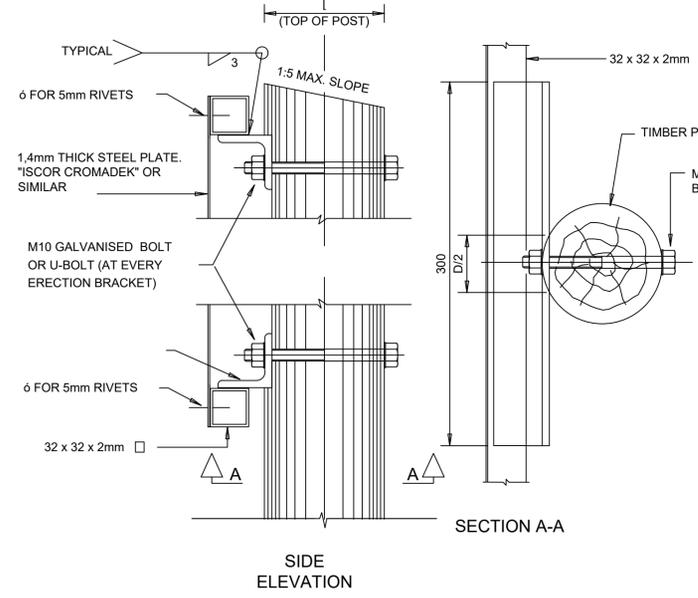
**PROJECT LOCATION**

The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

**DRAWING DESCRIPTION**

NAME BOARD

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM



**TABLE 1: DETERMINATION OF POSTS & FOOTINGS**

TYPE OF POST	ERECTION DETAILS			
	UPRIGHT	STAY	D	B(DIA)
TIMBER POST AND STAY	80mm	80mm	600mm	850mm
TIMBER POST	180mm	-	1000mm	1450mm
D SECTION STEEL POST	100mm x 4mm	-	1000mm	1450mm

**DETERMINATION OF BREAK-AWAY HOLES**

POLE DIA (mm)	HOLE DIA (mm)
< 140	NONE
141 - 170	40
171 - 200	50
201 - 225	65

**NOTES**

1. KERBS - GENERAL
- 1.1 Refer to Table A for the usage of kerbs.
- 1.2 The kerbs shall be cast in concrete.
2. CAST IN SITU CONCRETE
- 2.1 Concrete to be used shall be Class 20/19.
- 2.2 The concrete shall be cast in layers not exceeding 150mm in thickness.
- 2.3 All concrete to be used for kerbs shall be of Class 20/19.
- 2.4 All concrete to be used for kerbs shall be of Class 20/19.
- 2.5 All concrete to be used for kerbs shall be of Class 20/19.
- 2.6 All concrete to be used for kerbs shall be of Class 20/19.
- 2.7 All concrete to be used for kerbs shall be of Class 20/19.
- 2.8 All concrete to be used for kerbs shall be of Class 20/19.
- 2.9 All concrete to be used for kerbs shall be of Class 20/19.
- 2.10 All concrete to be used for kerbs shall be of Class 20/19.
- 2.11 All concrete to be used for kerbs shall be of Class 20/19.
- 2.12 All concrete to be used for kerbs shall be of Class 20/19.
- 2.13 All concrete to be used for kerbs shall be of Class 20/19.
- 2.14 All concrete to be used for kerbs shall be of Class 20/19.
- 2.15 All concrete to be used for kerbs shall be of Class 20/19.
3. PRECAST KERBS
- 3.1 All precast kerbs shall be of Class 20/19.
- 3.2 All precast kerbs shall be of Class 20/19.
- 3.3 All precast kerbs shall be of Class 20/19.
- 3.4 All precast kerbs shall be of Class 20/19.
- 3.5 All precast kerbs shall be of Class 20/19.
- 3.6 All precast kerbs shall be of Class 20/19.
- 3.7 All precast kerbs shall be of Class 20/19.
- 3.8 All precast kerbs shall be of Class 20/19.
- 3.9 All precast kerbs shall be of Class 20/19.
- 3.10 All precast kerbs shall be of Class 20/19.
- 3.11 All precast kerbs shall be of Class 20/19.
- 3.12 All precast kerbs shall be of Class 20/19.
- 3.13 All precast kerbs shall be of Class 20/19.
- 3.14 All precast kerbs shall be of Class 20/19.
- 3.15 All precast kerbs shall be of Class 20/19.

**KEY**

**REVISIONS**

REV	DATE	SIGN	DESCRIPTION
0	...	...	.....

**CLIENT**



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920

Tel: 015 519 3000

**CONSULTANT**

Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

**DRAWING STATUS**

FOR INFORMATION

**PROJECT TITLE**

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

**PROJECT LOCATION**

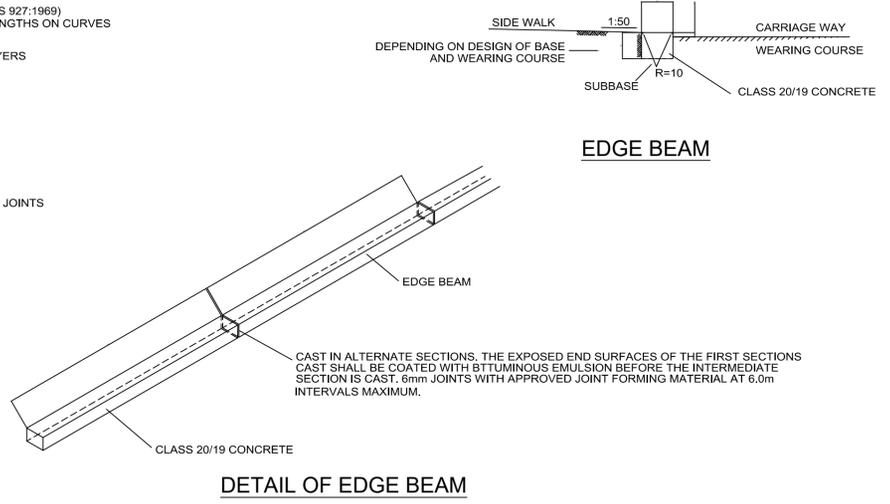
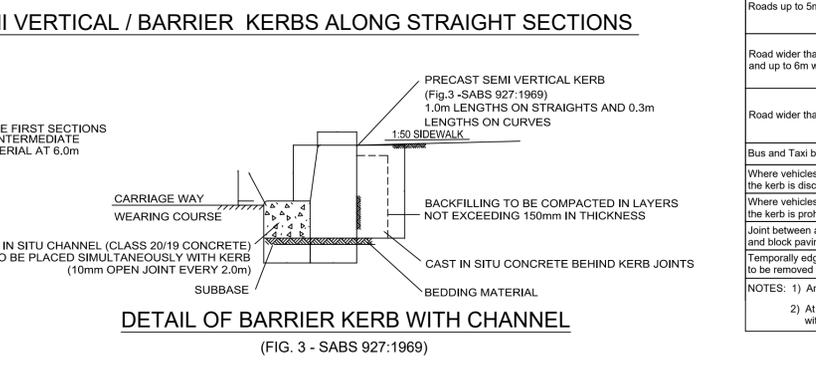
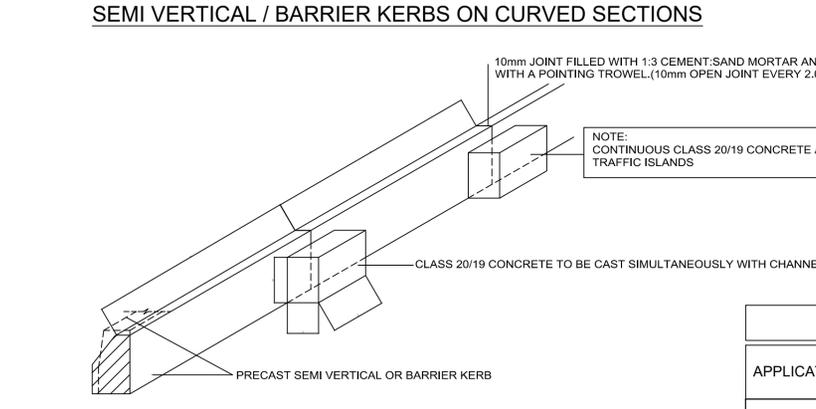
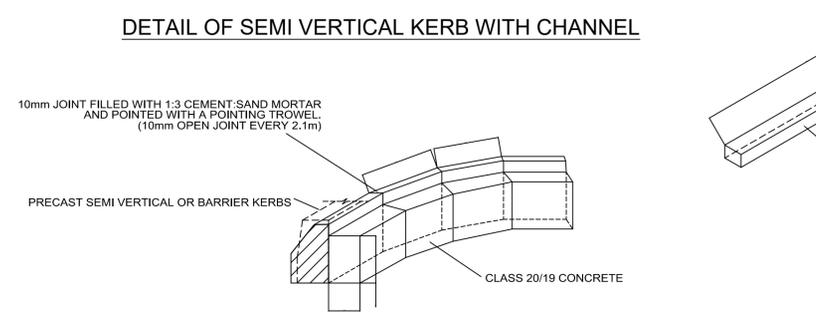
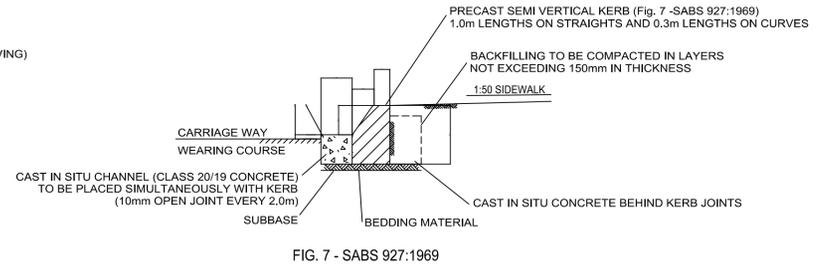
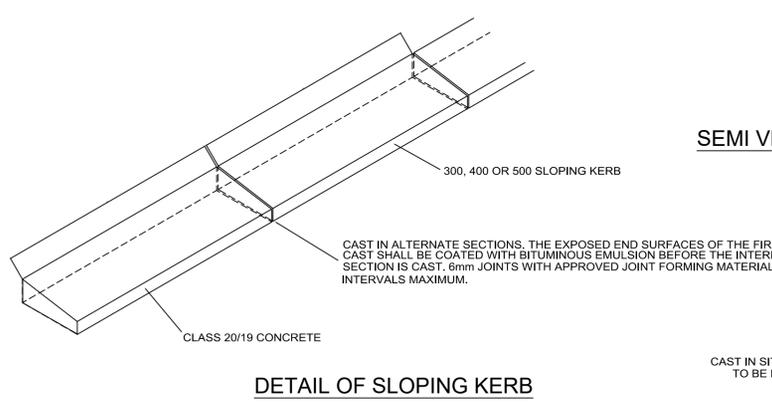
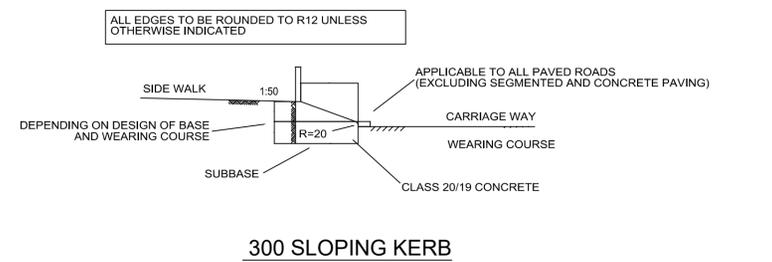
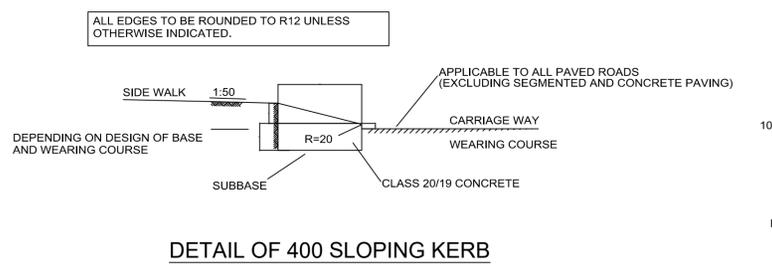
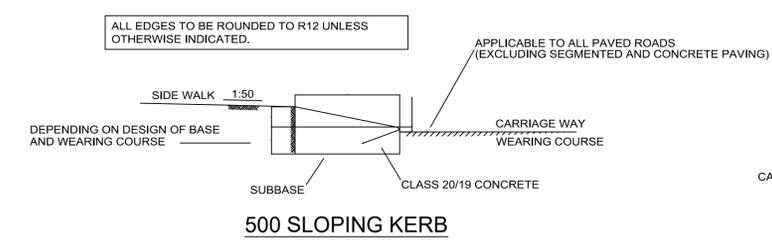
The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

**DRAWING DESCRIPTION**

KERBS INSTALLATION DETAILS

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

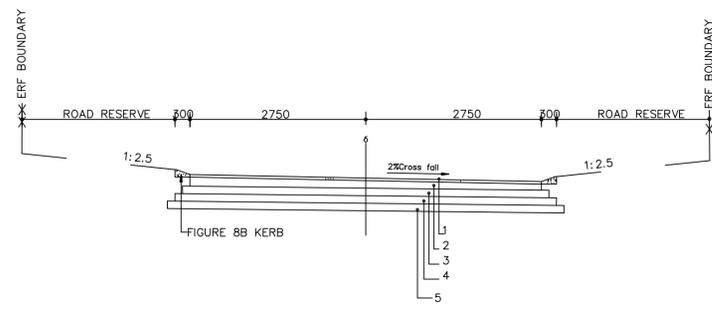
A1	<b>DRAWING No.</b> Makhado/STD/07	<b>REVISION</b> A
----	--------------------------------------	----------------------



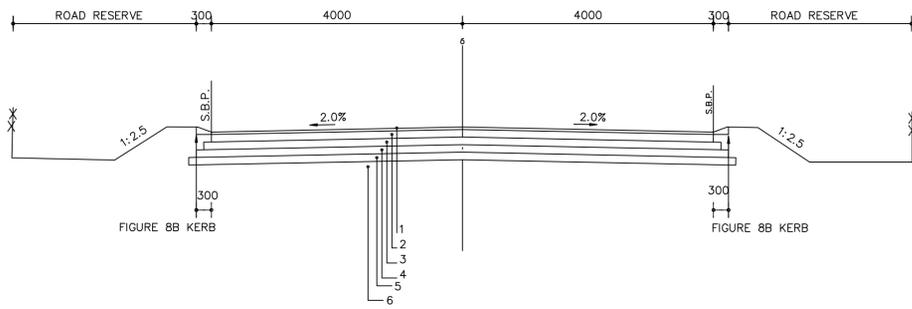
**TABLE A: KERBS TO BE USED FOR ROAD CONSTRUCTION**

APPLICATION	TYPE OF KERB					
	300 Sloping Kerb.	400 Sloping Kerb.	500 Sloping Kerb.	Edge Beam	Semi-vertical Kerb (Fig.7) with channel	Barrier Kerb (Fig.3) with channel
Roads up to 5m wide.	⊗			⊗ (See Note 1.)		
Bellmouths (See Note 2)	⊗					
Road wider than 5m and up to 6m wide.		⊗		⊗ (See Note 1.)		
Bellmouths (See Note 2)		⊗				
Road wider than 6m			⊗			
Bellmouths (See Note 2)						
Bus and Taxi bays.						⊗
Where vehicles crossing the kerb is discouraged.					⊗	
Where vehicles crossing the kerb is prohibited.						⊗
Joint between asphalt and block paving				⊗		
Temporarily edge restraint in asphalt paving to be removed when road is extended.				⊗		

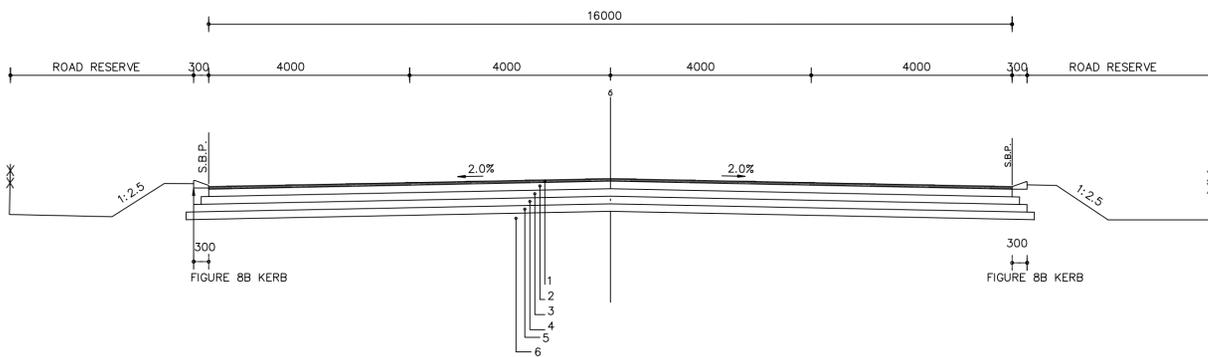
NOTES: 1) An edge beam shall be constructed on the high side of roads with a single cross-fall.  
2) At the intersection of roads with different road widths, the bellmouths shall be constructed with kerbs prescribed for the bellmouths of the wider roads.



COMMERCIAL, ORIENT & 1ST AVENUE STREET – TYPICAL CROSS-SECTION



MAIN STREET FROM CH 80 TO 380– TYPICAL CROSS-SECTION



MAIN STREET FROM CH 0 TO 80– TYPICAL CROSS-SECTION

**DESCRIPTION OF PAVEMENT LAYERS OF MAIN STREET FROM CH 80 TO 380 & COMMERCIAL, ORIENT & 1ST AVENUE STREET**

1. **SURFACING**  
80MM PAVING BLOCKS 25MPA CLASS, TYPE S-A, LAID IN HERRINGBONE PATTERN WITH 20MM SAND BEDDING
2. **BASE - C3**  
125mm THICK STABILIZED GRAVEL COMPACTED TO 97% MODIFIED AASHTO DENSITY, WITH MINIMUM DISERED UCS=1000KPa AT 97% & ITS OF 250KPa OF MODIFIED AASHTO DENSITY (C3)
3. **SUB-BASE - C4**  
125mm THICK STABILIZED GRAVEL COMPACTED TO 97% MODIFIED AASHTO DENSITY, WITH MINIMUM DESIRED UCS=500KPa AT 97% & ITS OF 200KPa OF MODIFIED AASHTO DENSITY (C4)
4. **UPPER SELECTED LAYER - G6**  
150mm THICK IMPORTED GRAVEL COMPACTED TO 95% MODIFIED AASHTO DENSITY, MINIMUM CRB=25% AT 95% MODIFIED AASHTO DENSITY (G6)
5. **LOWER SELECTED LAYER - G7**  
150mm THICK IMPORTED GRAVEL COMPACTED TO 93% MODIFIED AASHTO DENSITY, MINIMUM CRB=15% AT 93% MODIFIED AASHTO DENSITY (G7)
6. **ROADBED**  
RIP & RE-COMPACT INSITU MATERIAL TO 93% MODIFIED AASHTO DENSITY

**DESCRIPTION OF PAVEMENT LAYERS OF MAIN STREET FROM CH 0 TO 80**

1. **SURFACING**  
40MM CONTINUOUSLY GRADED MEDIUM, A-P1 PLASTOMER MODIFIED BINDER ASPHALT.
2. **BASE - G1**  
150mm THICK COMMERCIAL CRUSHED STONE G1 MATERIAL COMPACTED TO 88% APPARENT RELATIVE DENSITY
3. **UPPER SUB-BASE - C3**  
125mm THICK STABILIZED GRAVEL COMPACTED TO 97% MODIFIED AASHTO DENSITY, WITH MINIMUM DISERED UCS=1000KPa AT 97% & ITS OF 250KPa OF MODIFIED AASHTO DENSITY (C3)
4. **LOWER SUB-BASE - C4**  
125mm THICK STABILIZED GRAVEL COMPACTED TO 97% MODIFIED AASHTO DENSITY, WITH MINIMUM DESIRED UCS=500KPa AT 97% & ITS OF 200KPa OF MODIFIED AASHTO DENSITY (C4)
5. **SELECTED SUBGRADE LAYER - G7**  
150mm THICK IMPORTED GRAVEL COMPACTED TO 93% MODIFIED AASHTO DENSITY, MINIMUM CRB=15% AT 93% MODIFIED AASHTO DENSITY (G7)

**NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND LEVELS ONSITE AND NOTIFY THE ENGINEER OF ANY VARIATIONS BEFORE CONSTRUCTION.
2. IDENTIFY ALL KNOWN EXISTING SERVICES PRIOR TO CONSTRUCTION.
3. THE COORDINATES ARE BASED ON WGS84 LO29.

**KEY**

**REVISIONS**

REV	DATE	SIGN	DESCRIPTION
0	.../.../...	...	.....

**CLIENT**



Makhado Local Municipality  
Civic Center  
No 83 Krogh Street  
Louis Trichardt, 0920

Tel: 015 519 3000

**CONSULTANT**



Voningela Consulting and Projects  
P.O. Box 1020  
Giyani  
0826

**DRAWING STATUS**

FOR INFORMATION

**PROJECT TITLE**

Commissioner (Commercial) and Main street intersection rehabilitation and stormwater

**PROJECT LOCATION**

The intersection is on Main / Commissioner (Commercial) street in Louis Trichardt town, in the Vhembe District, Limpopo Province. GPS coordinates of the site are 23° 3'1.65"S 29°55'4.25"E

**DRAWING DESCRIPTION**

TYPICAL PAVEMENT LAYERS CROSS SECTIONS

SCALE	DATE	DESIGNED	DRAWN	CHECKED
As Shown	Feb 2021	AM	HM	LM

A1	<b>DRAWING No.</b> Makhado/STD/07	<b>REVISION</b> A
----	--------------------------------------	----------------------