

# TENDERERS CLARIFICATION BRIEFING PRESENTATION

**EASTERN REGION**

**14 February 2024**

**SANRAL**



**BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS**

## BACKGROUND



### PROJECT

The project is located at Nquthu/Isandlwana area which is within the jurisdiction of the Nquthu Local Municipality and uMzinyathi District Municipality in the KwaZulu-Natal.

### THE ROAD(S)

The roads for construction in this project traverse through the Nquthu Villages and Isandlwana Battlefield Heritage Site areas. These routes include P372 (**Package 1**), and P148, D897, D30, P60, D1348, L1190, L1333 and D2286 (**Package 2**). The site consists of the Isandlwana Museum, Visitors Centre, various Memorials and local communities.

### CURRENT PACKAGE

This Package 1

## PROGRAM STATUS

Road	Description	Envisaged Construction Start (After 3 Months Mobilisation)	Envisaged Construction Completion	Duration (months)	Actual Construction Start Date	Contractor	Status
P372 Package 1	Isandlwana Roads Upgrade – Phase 1 (Upgrade of Provincial Road P372)	01 July 2024	03 July 2026	24	TBD	TBA	Tender Stage

**NOTE: This Brief is for Package 1**

## N2 PROGRAM STATUS

Package	Description	Scope Of Work	Status	Duration (Months)	Contractor	Envisaged Construction Start (After) Mobilisation)
1	Isandlwana Roads Upgrade – Phase 1 (Upgrade of Provincial Road P372)	Upgrading of Gravel Roads to Surfaced Standard using NME Technology in line with the new TRH24	Tender Stage	24	-	01 July 2024

## **CONTRACT SANRAL S.004-005-2020/1**

### **ISANDLWANA ROADS UPGRADE – PHASE 1 (UPGRADE OF PROVINCIAL ROAD P372)**

**Tender documents are available at no cost in electronic format downloadable from SANRAL website [https://www.nra.co.za/sanral-tenders/status?region\\_id=national](https://www.nra.co.za/sanral-tenders/status?region_id=national)**

**Tenderers must have access to Microsoft Office © 2013 and Acrobat Adobe © 9.0, or similar compatible software.**

**NOTE: THERE SHALL NOT BE ANY CORRESPONDENCE BETWEEN TENDERERS AND ANY OF SANRAL OR ENGINEER DURING THE TENDER PERIOD. ALL COMMUNICATION TO BE THROUGH: [procurement3@sanral.co.za](mailto:procurement3@sanral.co.za)**



**PLEASE NOTE:**

**THE SIGNATURE ON THE DULY COMPLETED AND SIGNED FORM A1 SHALL BE CONSIDERED PROOF THAT THE TENDERER ATTENDED THE WHOLE CLARIFICATION BRIEFING SESSION AND CLEARLY UNDERSTOOD ALL DIRECTIVES AND CLARIFICATIONS GIVEN IN THE SESSION.**

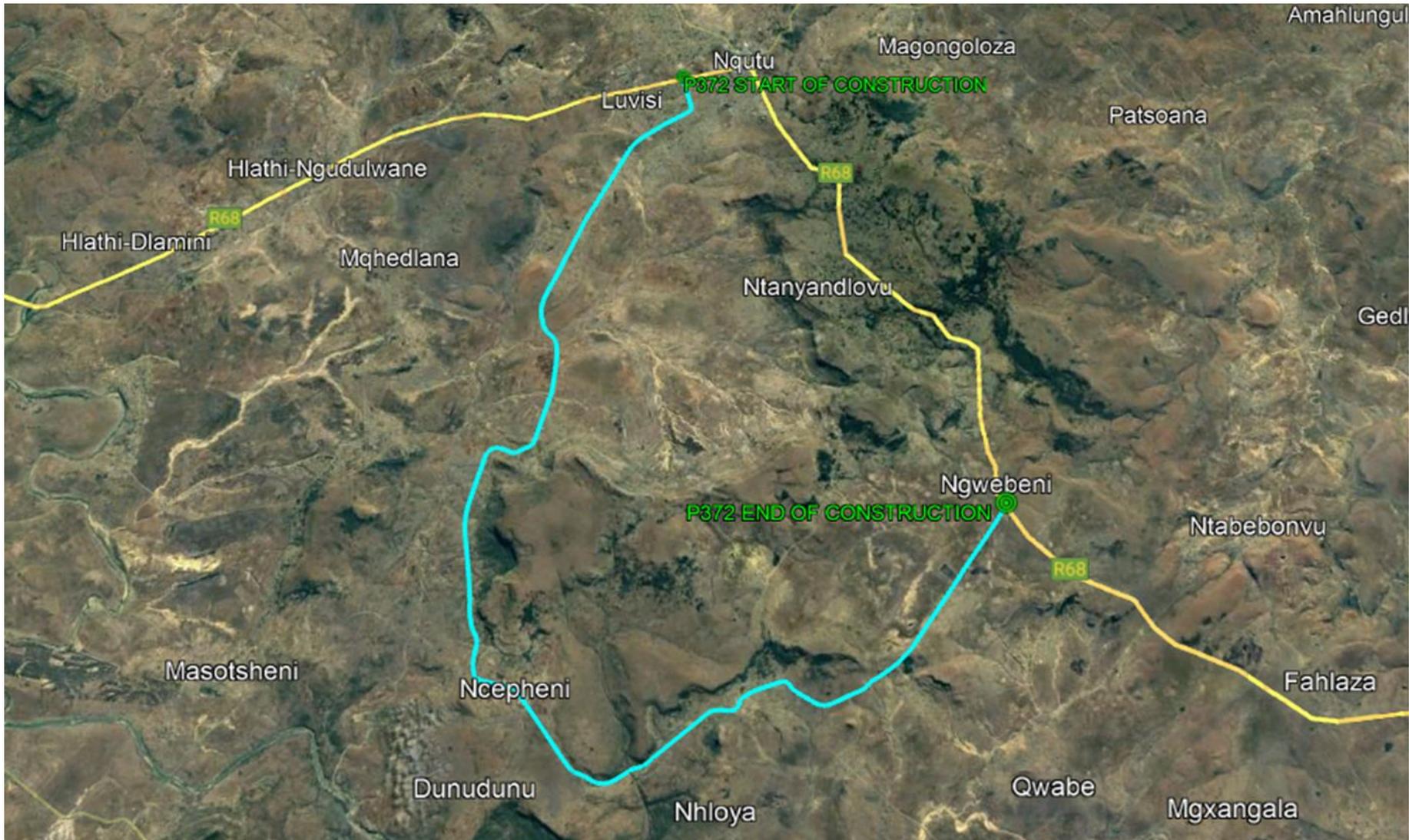
## 2. BACKGROUND

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

P372, FROM LUVISI VILLAGE (START KM 0.0) TO GWEBENI VILLAGE (END KM 31.0)



## P372, FROM LUVISI VILLAGE (START KM 0.0) TO GWEBENI VILLAGE (END KM 31.0)

The Provincial Route (P372) is one of importance as it serves as the main access to Isandlwana Heritage Site best known for **Battle of Isandlwana**, but also for its high archaeological, historical and paleontological sensitivity.

Route P372 is a low volume road (LVR) which serves as access to fairly small remote communities, local deliveries and tourism attractions. P372 furthermore, serves as a collector road for road of lower volume roads namely: P148, D897, D30, P60, D1348, L1190, L1333 and D2286 which form part of the Isandlwana Roads Network.

The road upgrade will improve accessibility for tourist to the Isandlwana Heritage Site, including better access to amenities, such as schools and clinics.

# 4. TENDERING PROCEDURES

## PART T1: CONDITIONS OF TENDER AND TENDER DATA

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## PREQUALIFICATION REQUIREMENTS

**Only tenderers who are registered on the National Treasury Central Supplier Database as stated in the Tender Data C.2.1.1, are eligible to tender.**

## T1.1 SUB-CONTRACTING REQUIREMENTS

**It is a requirement of this project that the successful tenderer subcontract a minimum of 30 percent (30%) or higher as tendered of the work by the end of the contract to Targeted Enterprise(s) as defined in the Contract Data.**

PART T1: TENDERING PROCEDURES  
TENDER NOTICE: ORGANISATIONAL REQUIREMENTS

- **SCM Enquiries : Procurement Office**
- E-mail: [procurement3@sanral.co.za](mailto:procurement3@sanral.co.za)

## IMPORTANT DATES

<b>Submission of Form A1.1</b>	<b>07 February 2024</b>
<b>Submission of Queries</b>	<b>Twelve (12) working days prior to tender closing: 08 March 2024</b>
<b>Tender Closing Date</b>	<b>08 March 2024</b>

## CONDITIONS OF TENDER

**The Conditions of Tender are the Standard Conditions of Tender as contained in Annexure C of the CIDB STANDARD FOR UNIFORMITY IN ENGINEERING AND CONSTRUCTION WORKS CONTRACTS as per Government Notice No. 423 published in Government Gazette No. 42622 of 08 AUGUST 2019 and as amended from time to time. (see [www.cidb.org.za](http://www.cidb.org.za)).**

**The Standard Conditions of Tender may be downloaded from the CIDB website on the following link:**

**[https://www.gov.za/sites/default/files/gcis\\_document/201908/42622gen423.pdf](https://www.gov.za/sites/default/files/gcis_document/201908/42622gen423.pdf)**

## TENDER DATA

Each item of data given is cross-referenced to the clause in the Standard and Special Conditions of Tender to which it mainly applies. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the standard/special conditions of tender.

<b>CLAUSE NUMBER</b>	<b>TENDER DATA</b>
C.1.1	<p>The Employer is the South African National Road Agency SOC Limited (SANRAL). The Employer's domicilium citandi et executandi (permanent physical business address) is:</p> <p>48 Tambotie Avenue VAL DE GRACE 0184</p> <p>The Employer's address for communication relating to this project is:</p> <p>The Regional Manager (Eastern Region) Eastern Region 58 Van Eck Place Mkondeni Pietermaritzburg 3201</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.1.4	The Employer's Agent can be contacted as follows: <a href="mailto:ProcurementER3@sanral.co.za">ProcurementER3@sanral.co.za</a>
C.1.6.2.1	<b>Competitive negotiation procedure</b> Clause C.1.6.2 is not applicable.

## TENDER DATA

C.2.1

### Eligibility

- a) CIDB registration Upper limits per CIDB Regulation 17 (effective 7 October 2019) (Form A12)**
- 8CE at close of tender
  - This contract is classified in terms of CIDB Regulation 25(1B), and the value of the contract may, for the purpose of CIDB Regulation 25(1), be taken at its annual value.
    - **JOINT VENTURES**
      - each member of the joint venture is registered with the CIDB;
      - the lead partner has a contractor grading designation in the CE class of construction work; or not lower than one level below the required grading designation in the class of works construction works under considerations and possess the required recognition status.; and
      - the combined contractor grading designation **calculated based CIDB JV Calculator** is equal to **8CE or Higher**.
- b) National Treasury Central Supplier Database (Form A3.4)**
- Tenderers, or in the event of a joint venture, each member of the joint venture, must be registered on the National Treasury Central Supplier Database at the closing date for tender submissions. If not registered as verified online at tender closing; the tender will be declared non-responsive.

## TENDER DATA

C.2.6	<p><b>Acknowledging addenda</b></p> <p><b>Failure to apply instructions contained in addenda may render a tenderer's offer non-responsive</b> in terms of Condition of Tender C.3.8.</p>
C.2.7	<p><b>Clarification meeting</b></p> <p>Compulsory clarification briefing meeting will be held at the Isandlwana area, at the Mangwe-Buthanani Traditional Administration Centre (GPS: 28°19'35.2"S and 30°39'51.2"E) on 14 February 2023, at 11h00.</p> <p><b>Tenderers must pre-book for attendance at the clarification briefing meeting.</b> Due to restrictions on numbers of attendees, only one representative per tenderer/company can attend the briefing meeting. A request to attend the clarification briefing meeting must be sent to ProcurementER3@sanral.co.za. Late arrivals will not be allowed to participate in the meeting and their submissions shall be declared non-responsive.</p> <p><b>A tenderer's representative cannot represent more than one tenderer at the tender clarification briefing meeting.</b></p> <p>The onus rests with the tenderer to ensure that the representative attending the briefing session is appropriately qualified to understand all directives and clarifications given in the briefing session. The signature on the duly completed and signed Form A1 shall be considered proof that the tenderer attended the whole clarification briefing session and clearly understood all directives and clarifications given in the session..</p>

## TENDER DATA

C.2.8	<b>Seeking clarification</b> Request clarifications at least <b>12 working days</b> before the closing time.
C.2.9	<b>Insurance</b> <b>No insurance</b> is provided by the Employer.
C.2.10	Tenderers are required to state the <b>rates and currencies in Rand</b>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.12	<p data-bbox="311 458 668 496"><b>Alternative Offers</b></p> <p data-bbox="311 546 1843 889">A tenderer wishing to submit an alternative offer (<b>excluding alternative offers of different contract duration, retention guarantees, discounted offers or different compliant material sources</b>) shall <b>first apply to the Employer for confirmation</b> that the Employer's standards and requirements envisaged in the design are not compromised or reduced. Such confirmation must have been provided by the Employer in writing at least 10 (ten) working days before the date of tender closing, or as extended by an addendum sent to all tenderers. The application shall not be submitted later than <b>7 (seven) working days</b> before the date of tender closing given in Tender Data clause C.2.15, or as extended by an addendum sent to all tenderers.</p> <p data-bbox="311 946 1843 1289">The <b>replacement of specified construction items</b> like pipes, in situ culverts, kerbs and channels with similar products constructed of different materials (e.g., plastic products or pre-cast construction) are <b>generally not acceptable</b> as alternatives because construction using such alternative products would have been considered during the design stage and not selected as appropriate and because the Employer is able, post-award, to make proposals to or receive proposals from the contractor. However, if such alternative materials are considered acceptable by the employer's agent as giving the tenderer a financial advantage and/or not transferring risk, the <b>qualification must be recorded on returnable schedule A4: Schedule of Deviations or Qualifications by Tenderer</b>.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.12	<p><b>Alternative Offers (Continued)</b></p> <p>Also, <b>not acceptable</b> as alternative offers are the submission of <b>alternative key persons, alterations to contingency pay items</b> provided in the bill of quantities (pricing schedule), <b>fixed prices for individual items</b> or a <b>fixed price contract</b>.</p> <p>If an <b>alternative proposal is confirmed to be acceptable</b>, calculations, drawings and all other pertinent technical information and characteristics as well as proposed modification of, or alternative to, the Pricing Data <b>must be submitted with the alternative tender offer</b> to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set in clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal.</p> <p>Should an <b>alternative structural design</b> be proposed, the proposed alternative Pricing Data shall include an amount equal to <b>3% of the amount tendered</b> for the alternative offer to cover the Employer's costs of confirming the acceptability of the detailed design before it is constructed. If the alternative offer is accepted, this amount will serve as a <b>negative prime cost sum under Part C section C1.2</b> to be deducted from the contractor's payment certificates. The Employer undertakes to provide full accounting of the amount expended for this contingent sum and if exceeded, no further payments shall be deducted. Failure by a tenderer to include the required amount for confirming the alternative design may render his alternative tender as non-responsive.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.13.2	<p>The returnable documents shall be electronically completed in their entirety, submitted on the issued software format or fully compatible format, unless otherwise specified.</p> <p><b>Submission in the tender box</b></p> <ul style="list-style-type: none"><li>• Submit the tender offer electronically on a <b>flash drive and printed hard copy of Form of Offer and summary of pricing schedule.</b></li><li>• (In the relevant <b>MS Word 2013</b> and <b>MS Excel 2013</b> format as issued, and not in .pdf format, except where so specified.)</li></ul>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.13.3	<p>Only the following needs to be submitted:</p> <p><b>Volume 3 – Scanned on a flash drive</b></p> <p><b>The following information has to be submitted on flash drive:</b></p> <p><b>The 1st file in pdf format which contains:</b></p> <ul style="list-style-type: none"><li>• <b>Scanned copy of Form of Offer (pdf) and printed hardcopy of Form of Offer</b></li><li>• <b>Scanned copies of all returnable schedules and attachments (pdf)</b></li></ul> <p><b>A 2nd file in Excel format</b></p> <ul style="list-style-type: none"><li>• <b>Completed pricing schedule (scanned copy in .pdf and copy in Excel) and printed hardcopy of Summary of Pricing Schedule</b></li></ul>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.13.5	<p>Only the following needs to be submitted:</p> <p>a) Main Tender Offer The following information to be submitted electronically on flash drive and marked Main Tender Offer followed by the “Tenderer name”, in the following order:</p> <ul style="list-style-type: none"> <li>• <b>Form of Offer (signed and scanned as .pdf) and printed hardcopy of Form of Offer.</b></li> <li>• All returnable schedules and attachments and certificates specific to the tender (signed and scanned as .pdf)</li> <li>• <b>Completed pricing schedule (scanned copy in .pdf and copy in Excel) and printed hardcopy of Summary of Pricing Schedule.</b></li> </ul> <p>b) For alternative offers the tenderer shall submit the following additional documentation, in an electronically on a separate flash drive marked Alternative followed by the “Tenderer name”:</p> <ul style="list-style-type: none"> <li>• <b>Form of Offer (signed and scanned as .pdf and state “Alternative Form of Offer”) and printed hardcopy of Form of Offer.</b></li> <li>• All returnable schedules and attachments and certificates applicable to the alternative offer (signed and scanned as .pdf)</li> <li>• <b>Alternative Pricing Schedule (scanned copy in .pdf and copy in Excel) and printed hardcopy of Summary of Pricing Schedule.</b></li> <li>• Other relevant information.</li> </ul>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.13.7	<p>Place and seal the electronically completed tender document (flash drive) in <b>an envelope or package</b> clearly marked “TENDER” and bearing:</p> <ul style="list-style-type: none"><li>• the Employer’s name,</li><li>• the contract number and description,</li><li>• the tenderer’s authorised representative’s name,</li><li>• the tenderer’s postal address and</li><li>• contact telephone numbers.</li></ul>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.14	<p data-bbox="305 534 1238 572"><b>Information and data to be completed in all respects</b></p> <p data-bbox="305 636 1850 725">Provided that the omission is not a material omission, the Employer reserves the right to condone the omission and may waive any nonconformities in the tender.</p> <p data-bbox="305 789 1850 979">Provided that the omission is <b>not a material omission</b>, the Employer reserves the right to condone the omission and <b>may request the tenderer to submit</b> the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the tender related to documentation requirements.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.15	<p><b>Submission in tender box</b></p> <p>The Employer’s address for delivery of tender offers and identification details to be shown on each tender offer package are:</p> <p>Location of tender box: SANRAL Eastern Region Office            Physical address: 58 Van Eck Place, Mkondeni, Pietermaritzburg,3204</p> <p><b>Identification details:</b> Place the tender offer and flash drive in a package marked with the tenderer’s company name, the project number and description:  <b>CONTRACT: SANRAL S.004-005-2020/1 FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]</b></p> <p>Tenders must be submitted during hours <b>(09:00 to 16:00) Monday to Friday</b> at the Employer’s address.</p> <p>It is in the tenderer’s interest to ensure that the delivery of the <b>tender offer is recorded in the Employer’s tenders received register</b> and deposited in the tender box.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.16.1	The tender offer validity period is: <b>24 Weeks.</b>
C.2.16.3	<p><b>Withdrawal of tender</b></p> <p>Where a tenderer, at any time after the opening of his tender offer but prior to entering into a contract based on his tender offer:</p> <ul style="list-style-type: none"> <li>a) withdraws his tender;</li> <li>b) gives notice of his inability to execute the contract in terms of his tender; or</li> <li>c) fails to comply with a request made in terms of C.2.17, C.2.18 or C.3.9;</li> </ul> <p>such tenderer shall <b>be barred from tendering</b> on any of the Employer's tenders for a period to be determined by the Employer, but <b>not less than 6 (six) months</b> from a date determined by the Employer. This sanction also applies to tenders under evaluation and not yet awarded. This sanction does not apply to tenders under evaluation where a request for extension of the validity period was not accepted by the tenderer. The Employer may fully or partly exempt a tenderer from the provisions of this conditions if he is of the opinion that the circumstances justify the exemption.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.2.18	<b>Provide other material</b> Any additional information requested under this clause must be provided within <b>5 (five) working days of date of request.</b>
C.3.1	The <b>Employer shall respond</b> to clarifications received up to <b>twelve (12) working days</b> before tender closing time.
C.3.2	The Employer shall issue <b>addenda until ten (10) working days</b> before tender closing date.

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.3.4	<p><b>Tender Opening</b></p> <p>The time for opening of the tender offers via live streaming at:            SANRAL Eastern Region. 58 Van Eck Place, Mkondeni, Pietermaritzburg, 3204            Time: 11h00 on Friday, 8 March 2024            Location: MS Teams link <a href="#">Click here to join the meeting</a></p>
C.3.7	<p><b>Grounds for rejection and disqualification</b></p> <p>Prior to disqualification, the Employer shall inform the tenderer and give the tenderer an opportunity to make representations within 14 days as to why the tender submitted should not be disqualified and as to why the tenderer should not be restricted by the National Treasury from conducting any business with any organ of state for a period not exceeding 10 years.</p> <p>In the event of disqualification, the Employer may, at its sole discretion, claim damages from the tenderer and impose a specified period during which tender offers will not be accepted from the offending tenderer and, the Employer shall inform the National Treasury and the CIDB in writing.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.3.8.2	<p data-bbox="311 429 726 465"><b>Test for responsiveness</b></p> <p data-bbox="311 529 1846 868">A <b>Substantially responsive tender</b> is a tender in which all of the material information and documentation submitted at close of tender <b>contains non-material and non-conformities to the bid specifications</b> but are <b>not related to price</b>. The correction of any such documentation or information, or the condonement for the non-inclusion of any such document or information may not be prejudicial towards the offer and claimed preference of any responsive tender or be construed to be giving an unfair advantage to any tender.</p> <p data-bbox="311 936 1846 1072">A <b>responsive tender</b> is also one that <b>conforms to all</b> the terms, conditions, and scope of work of the tender documents, <b>without material omissions</b>. The test for a material omission is the same as the test for a material deviation or qualification.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.3.9	<p data-bbox="334 386 1605 425"><b>Arithmetical errors, omissions, discrepancies and imbalanced unit rates</b></p> <p data-bbox="334 489 1850 679">Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount appearing in the summary to the Pricing Schedule shall govern.</p> <p data-bbox="334 743 942 782">Check responsive tender offers for:</p> <ul data-bbox="334 793 1850 1136" style="list-style-type: none"><li data-bbox="334 793 1464 832">a) the gross misplacement of the decimal point in any unit rate;</li><li data-bbox="334 843 1721 882">b) omissions made in completing the Pricing Schedule or Bills of Quantities; or</li><li data-bbox="334 893 1850 1086">c) arithmetic errors in:<ul data-bbox="430 943 1850 1086" style="list-style-type: none"><li data-bbox="430 943 1850 1036">i. line item totals resulting from the product of a unit rate and a quantity in Bills of Quantities or Schedules of Prices; or</li><li data-bbox="430 1048 1020 1086">ii. the summation of the prices;</li></ul></li><li data-bbox="334 1098 794 1136">d) imbalanced unit rates.</li></ul> <p data-bbox="334 1200 1850 1336">Notify shortlisted tenderers of all errors, omissions or imbalanced rates that are identified in their tender offers and either confirm the tender offers as tendered or accept the corrected total prices.</p>

## TENDER DATA

CLAUSE NUMBER	TENDER DATA
C.3.9.4	<p>Where the tenderer elects to confirm the correction of the errors, omissions or imbalanced rates, the tender offer shall be corrected 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 unit rate shall govern, and the line item total shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted and the unit rate shall be corrected.</li><li>b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall be corrected.</li><li>c) Where the unit rates are imbalanced the tenderer shall adjust such rates by increasing or decreasing them and selected others while retaining the total of the prices derived after any other corrections made under (a) and (b) above.</li></ul> <p>Where there is an omission of a line item, no correction is possible, and the offer may be declared non-responsive. Declare as non-responsive and reject any offer from a tenderer who elects not to accept the proposed correction of the; errors, omissions or imbalanced rates, and subject the tenderer to the sanction under C.2.16.2. The tenderer is required to submit balanced unit rates for rate only items in the pricing schedule. The rates submitted for these items will be taken into account in the evaluation of tenders.</p>

## TENDER DATA

CLAUSE	TENDER
C.3.11	<p data-bbox="278 391 838 429"><b>Evaluating price and preference</b></p> <p data-bbox="278 439 1605 478">The following formula will be used to calculate the points out of 90 for price:</p> $P_s = 90(1 - (P_t - P_m) / P_m)$ <p data-bbox="278 648 407 686">Where:</p> <p data-bbox="278 696 1363 735">P<sub>s</sub> is the points scored for price of tender under consideration.</p> <p data-bbox="278 745 1199 783">P<sub>t</sub> is the price of the tender under consideration; and</p> <p data-bbox="278 793 1103 832">P<sub>m</sub> is the price of the lowest acceptable tender.</p>

## TENDER DATA

CLAUSE	TENDER					
C.3.11 (continued)	Points for specific goals will be awarded according to the table below:					
	Specific goals	Criteria	10 points		20 points	
			Point allocation	Max points	Point allocation	Max points
	B-BBEE level	Level 1	10.00	10.00	20.00	20.00
		Level 2	9.00		18.00	
		Level 3	6.00		12.00	
		Level 4	5.00		10.0	
		Level 5	4.00		8.00	
		Level 6	3.00		6.00	
		Level 7	2.00		4.00	
Level 8		1.00	2.00			
Non-compliant contributor		0.00	0.00			

## TENDER DATA

C.3.11 (cont)	<p>Points for specific goals will be awarded according to the table below:</p> <ol style="list-style-type: none"><li>1. The tenderer's scorecard shall be a B-BBEE Certificate issued in accordance with:<ul style="list-style-type: none"><li>- the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No. 41287 on 1 December 2017 by the Department of Trade and Industry; or</li><li>- in the event that the Measured Entity operates in more than one sector or a sub-sector, the scorecard for the sector or sub-sector in which the majority of its core activities (measured in terms of annual revenue) are located will be acceptable. The tenderer must comply with the annual revenue thresholds for EME or QSE or Generic in accordance with the amended Construction Sector Codes; and</li></ul></li><li>i. The scorecard shall be submitted as a certificate attached to Returnable Schedule Form C1; and</li><li>ii. The certificate shall:<ul style="list-style-type: none"><li>- be valid at the tender closing date; and</li><li>- have been issued by a verification agency accredited by the South African National Accreditation System (SANAS); or</li><li>- be in the form of a sworn affidavit or a certificate issued by the Companies and Intellectual Property Commission in the case of an Exempted Micro Enterprise (EME) with a total annual revenue of less than R3 million if issued in accordance with the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No. 41287 on 1 December 2017 by the Department of Trade and Industry; and</li><li>- have a date of issue less than 12 (twelve) months prior to the original advertised tender closing date (see Tender Data C.2.15); and</li></ul></li></ol>
------------------	--

## TENDER DATA

C.3.11 (cont)	<p>iii. A valid BBEE Certificates shall contain:</p> <ul style="list-style-type: none"><li>- Name of enterprise as per enterprise registration documents issued by CIPC, and enterprise business address.</li><li>- Value-Added Tax number, where applicable.</li><li>- The B-BBEE Scorecard against which the certificate is issued, indicating all elements and scores achieved for each element. The actual score achieved must be linked to the total points as per the relevant Codes.</li><li>- B-BBEE status with corresponding procurement recognition level.</li><li>- The relevant Codes used to issue the B-BBEE verification certificate.</li><li>- Date of issue and expiry (e.g. 9 June 2018 to 8 June 2019). Where a measured entity was subjected to a re-verification process, due to material change, the B-BBEE Verification Certificate must reflect the initial date of issue, date of re-issue and the initial date of expiry. Re-verification does not extend the lifespan of the B-BBEE Verification Certificate.</li><li>- Financial period which was used to issue the B-BBEE Verification Certificate.</li></ul> <p>iv. A valid Sworn Affidavit shall contain:</p> <ul style="list-style-type: none"><li>- Name/s of deponent as they appear in the identity document and the identity number.</li><li>- Designation of the deponent as either the director, owner or member must be indicated in order to know that person is duly authorised to depose of an affidavit.</li><li>- Name of enterprise as per enterprise registration documents issued by the CIPC, where applicable, and enterprise business address.</li><li>- Percentage black ownership, black female ownership and whether they fall within a designated group.</li><li>- Indicate total revenue for the year under review and whether it is based on audited financial statements or management accounts.</li></ul>
------------------	--

## TENDER DATA

C3.11 (cont.)	<ul style="list-style-type: none"><li>- Financial year-end as per the enterprise's registration documents, which was used to determine the total revenue. The valid format of the Financial Year-End is Day/Month/Year</li><li>- B-BBEE status level. An enterprise can only have one status level.</li><li>- Date deponent signed and date of Commissioner of Oath must be the same.</li><li>- Commissioner of Oath cannot be an employee or ex officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest, and</li></ul> <p>v. Compliance with any other information requested to be attached to Returnable Schedule Form C1; and</p> <p>vi. In the event of a Joint Venture (JV), a project-specific consolidated (SANRAL project number indicated) valid B-BBEE verification certificate in the name of the JV, issued by a verification agency accredited by the South African National Accreditation System (SANAS) shall be submitted.</p>
------------------	---

## TENDER DATA

C3.11  
(cont.)

### **Sub-contracting**

If the tender documents indicate that the tenderer intends sub-contracting more than 25% of the value of the contract to any other person not qualifying for at least the status level that the tenderer qualifies for, 0 (zero) points for B-BBEE level (under Specific Goals) shall be awarded, unless the intended sub-contractor is an EME that has the capacity to execute the sub-contract.

### **Criteria for breaking deadlock**

If two or more tenders score the same number of points and these tenders are also the highest ranked tenders, the tender with the highest preference points will be recommended for award.

If functionality is part of the evaluation process and two or more tenders score equal total points and equal preference points, the tender that scored the highest points for functionality will be recommended for award.

If two or more tenders score the same number of financial points and preference points and these tenders are also the highest ranked tenders, the tenderer to be recommended for award will be decided by the drawing of lots.

## TENDER DATA

C3.13

### Acceptance of a tender offer

The conditions stated in clauses C.3.13(a) to ((f) of the Conditions of Tender as well as the following additional clauses C.3.13(g) to (l) shall be applied as objective criteria in terms of section 2(1)(f) of the Preferential Procurement Policy Framework Act, 2000 and as compelling and justifiable reasons in terms of Conditions of Tender clause 5.11:

- g) the Tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector;
- h) the Tenderer has not abused the Employer's supply chain management system;
- i) the Tenderer has not failed to perform on any previous contract and has not been given a written notice to this effect; and
- j) the **Tenderer is tax compliant**. The recommended Tenderer who becomes non-compliant, prior to award, shall be notified and must become compliant within 7 working days of the date of being notified. A recommended Tenderer who remains non-compliant after the 7 working days of being notified, shall be declared non-responsive.
- k) the Tenderer is registered and in **good standing with the compensation fund or with a licensed compensation insurer**. The licensed compensation insurer shall be approved by Department of Labour in terms of Section 80 of the Compensation for Injury and Disease Act, 1993 (Act No. 130 of 1993).

## TENDER DATA

C.3.13  
(continued)

**In addition to the requirements under paragraph (b) of the Conditions of Tender, in the event that a due diligence is performed as part of the tender evaluation, the due diligence report will be used to evaluate the tenderer's ability to perform the contract as stated in paragraph (b). The due diligence will evaluate the overall risk associated with the tender. The due diligence will take into consideration the following::**

- Assessment of financial statements to assess the financial position of the tenderer and its ability to obtain the necessary guarantees or insurances,
- Evaluation of managerial and technical ability & available resources in relation to the proposed tender,
- Integrity Risk Evaluation,
- Operations, Activities, Locations and Key Customers,
- Reference checks from previous clients, and
- Risk rating (i.e. High Risk, Medium to High risk, Medium risk or Low risk) of the tenderer
- Past Contracts comprising the following quantities of work completed satisfactorily and certified by the Engineer to demonstrate capacity and capability in relation to the proposed tender:

## TENDER DATA

C.3.13  
(continued)

COTO CHAPTER	DESCRIPTION	QUANTITY COMPLETED
9	Asphalt Layers	2,500-00 tons
10	Seal	100,000,000-00 m <sup>2</sup>

## TENDER DATA

C.3.16	<b>Registration of the award</b>  SANRAL will notify unsuccessful tenderers when the tender process has been concluded. Any unsuccessful tenderer may request a debriefing in writing as specified in clause C.3.18.
C.3.17	The number of paper copies of the signed contract to be provided by the Employer is 1.
C.3.18	All requests shall be in writing.
Special conditions of tender clauses:	
SC.3.19	<b>Jurisdiction</b>  Unless stated otherwise in the Tender Data, each tenderer and the Employer undertake to accept the jurisdiction of the law courts of the Republic of South Africa.

# 4. TENDERING PROCEDURES

## PART T2: RETURNABLE SCHEDULES

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## PART T2: RETURNABLE SCHEDULES

### Notes to tenderer:

1. Returnable schedules have been based on the CIDB Standard for Uniformity in Construction Procurement and incorporate National Treasury requirements within them. Returnable schedules are separated into the following categories:
  - Forms, certificates and schedules for completion by the tenderer for use in the quantitative and qualitative evaluation of the tender (Forms A to E)
  - A list of all returnable documents for completion by the tenderer (Form F1)
2. Failure to submit fully completed relevant returnable documents may render such a tender offer non-responsive.
3. Tenderers shall note that their signature appended to each returnable form represents a declaration that they vouch for the accuracy and correctness of the information provided.
4. Notwithstanding any check or audit conducted by or on behalf of the Employer, the information provided in the returnable documents is accepted in good faith and as justification for entering into a contract with a tenderer. If subsequently any information is found to be incorrect such discovery shall be taken as wilful misrepresentation by that tenderer to induce the contract. In such event:
  - a) the Employer shall inform the tenderer and give the tenderer an opportunity to make representations within 14 days as to why the tender submitted should not be disqualified and as to why the tenderer should not be restricted by the National Treasury from conducting any business with any organ of state for a period not exceeding 10 years;
  - b) if the Employer has already entered into a contract with the Tenderer, the Employer has the discretionary right under FIDIC Particular Condition 15.2(g) to terminate the contract.
5. These forms must be completed in non-erasable ink and any alterations made prior to tender closure countersigned by an authorized signatory.

**FORM A1: CERTIFICATE CONFIRMING THAT THE TENDERER ATTENDED THE COMPULSORY BRIEFING MEETING.**

CONTRACT: SANRAL S.004-005-2020/1  
FOR: FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

This is to certify that I, .....

representative of (tenderer).....

of (address) .....

telephone number .....

fax number .....

e-mail.....

Attended the compulsory clarification meeting presented by the Employer.

EMPLOYER REPRESENTATIVE (Signature) .....

DATE: .....

TENDERER'S REPRESENTATIVE (Signature) .....

DATE: .....

**RETURNABLE SCHEDULE  
FORM A1**

**CERTIFICATE CONFIRMING THAT  
THE TENDERER ATTENDED THE  
COMPULSORY BRIEFING MEETING.**

**NB: TO BE COMPLETED AND  
SUBMITTED WITH THE TENDER**

FORM A1.1: CERTIFICATE OF INTENTION TO SUBMIT A TENDER

CONTRACT SANRAL N.003-012-2017/1  
FOR THE UPGRADE OF 11.1KM ON NATIONAL ROUTE 3, FROM MARIANNHILL TOLL PLAZA  
SECTION 1 (KM 25.0) TO KEY RIDGE SECTION 2 (KM 2.8)

Notes to Tenderer:

1. The duly completed certificate of intention to submit a tender must be submitted by whoever intends to tender for this particular tender by 11 August 2023. Failure to submit the certificate of intention to tender within the required period may render the tenderer non-responsive and SANRAL does not accept responsibility for any communication not received by the tenderer timeously.
2. Late notification of intention to tender by a prospective tenderer will not necessarily result in the tender closing date being extended.
3. Should you intend to submit a tender for this particular tender please sign the certificate, scan and email the completed document to the email address indicated in T1.1 of this tender document.
4. The Employer shall send all correspondence, including Addenda, only to the Tenderer's email address as provided herein.

RETURNABLE SCHEDULE  
FORM A1.1

CERTIFICATE OF INTENTION TO  
SUBMIT A TENDER

This is to certify that I, .....

representative of (insert name of tenderer) .....

of (address) .....

telephone number .....

fax number .....

e-mail: .....

intends to submit a tender in response to the tender notice and invitation for tender this contract.

TENDERER'S REPRESENTATIVE (Signature): .....

DATE: .....

## FORM A2.1: CERTIFICATE OF AUTHORITY FOR SIGNATORY

1. The signatory for the tenderer shall confirm his/her authority thereto by attaching on the **tendering company's letterhead** a **duly signed and dated copy of the relevant resolution of the board of directors/partners**
2. **In the event of a joint venture, a certificate** is required from **each member** of the Joint Venture clearly setting out:
  - **authority** for signatory,
  - **undertaking** to formally enter into a joint venture contract should an award be made to the joint venture,
  - name of **designated lead member** of the intended joint venture, as required by tender condition C.2.13.2.
3. The resolution in **form A2.1 is given as an example** of an acceptable format for authorisation, but submission of this page with the example completed **shall not be accepted** as authorisation of the tenderer's signatory.

## FORM A2.2: DECLARATION OF TENDERER'S CURRENT STATUS OF ANY DEBT OUTSTANDING TO SANRAL

### Notes to Tenderer:

1. The signatory for the tenderer shall complete and sign this form declaring the current status of any debt outstanding to SANRAL.
2. In the event that the tenderer is a Joint Venture, a declaration is required from each member of the Joint Venture.
3. Form A2.2 in tender needs to be commissioned by **Commissioner of Oath**

## FORM A2.3: CERTIFICATE OF SINGLE TENDER SUBMISSION

### Notes to Tenderer:

1. This certificate serves as a declaration by the tenderer that a **single tender was submitted**.
2. In the case of a Joint Venture (JV), a **separate certificate** is to be completed and submitted by each JV member.

## FORM A2.4: CERTIFICATE OF FRONTING PRACTICES

### FORM A2.4: CERTIFICATE OF FRONTING PRACTICES

CONTRACT: SANRAL S.004-005-2020/1

FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

#### Fronting Practices

**Window-dressing:** This includes cases in which black people are appointed or introduced to an enterprise on the basis of tokenism and may be:

- Discouraged or inhibited from substantially participating in the core activities of an enterprise; and
- Discouraged or inhibited from substantially participating in the stated areas and/or levels of their participation;

**Benefit Diversion:** This includes initiatives implemented where the economic benefits received as a result of the B-BBEE Status of an enterprise do not flow to black people in the ratio as specified in the relevant legal documentation.

**Opportunistic Intermediaries:** This includes enterprises that have concluded agreements with other enterprises with a view to leveraging the opportunistic intermediary's favourable B-BBEE status in circumstances where the agreement involves:

- Significant limitations or restrictions upon the identity of the opportunistic intermediary's suppliers, service providers, clients or customers;
- The maintenance of their business operations in a context reasonably considered improbable having regard to resources; and
- Terms and conditions that are not negotiated at arms-length on a fair and reasonable basis.

#### Responsibility to Report Fronting

In order to effectively deal with the scourge of Fronting, verification agencies, and/or procurement officers and relevant decision makers are encouraged to obtain a signed declaration from the clients or entities that they verify or provide business opportunities to, which states that the client or entity understands and accepts that the verification agency, procurement officer or relevant decision maker may report Fronting practices to **the DTI**. Intentional misrepresentation by measured entities may constitute fraudulent practices, public officials and verification agencies are to report such cases to **the DTI**.

**FORM A2.5: DECLARATION OF  
DOMESTIC PROMINENT  
INFLUENTIAL PERSONS, FOREIGN  
PROMINENT PUBLIC OFFICIALS  
AND FOREIGN INFLUENTIAL  
NATIONALS  
(DPIPs, FPPOs & FINs)**

This declaration form is to ensure maintenance and monitoring of the business relationships with prominent, influential stakeholders who have domestic and/or foreign influence as far as the procurement under the management of SANRAL is concerned.

This is done to mitigate SANRAL's perceived association, reputational, operational or legal risk, as it strives to foster and maintain fair and transparent business relations. (The policy is available on SANRAL website: [www.nra.co.za](http://www.nra.co.za))

**A separate declaration is required from each PIP.**

For Joint Venture, a separate declaration from each PIP from each of the Joint Venture members, is required.

## FORM A2.6: CERTIFICATE OF PERMISSION TO CONDUCT DUE DILIGENCE INVESTIGATION

### Notes to Tenderer:

1. The tenderer shall complete the declaration Form A2.6, the **grant consent that SANRAL or any of their appointed Service Providers may conduct a due diligence investigation, to evaluate the ability to perform the contract as stipulated in the Standard Conditions of Tender, Clause C.3.13(b).**
2. In the case of a Joint Venture (JV), each member of the JV shall comply with the above requirements.

## FORM A3.1: BIDDER'S DISCLOSURE (SBD 4)

**Note this form has been revised**

## FORM A3.2: BIDDER'S DISCLOSURE (SBD4)

**Note this form has been repealed**

## FORM A3.3: DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

**Note this form has been reinstated**

**Note: in the case of a joint venture (JV), must be completed and submitted by each member of the JV**

## RETURNABLE SCHEDULE A3.4 – REGISTRATION ON NATIONAL TREASURY CENTRAL SUPPLIER DATABASE

The tenderer shall provide a pdf. copy of the supplier registration form from National Treasury Central Supplier Database ([www.treasury.gov.za](http://www.treasury.gov.za)). Tenderers who are not registered on the Central Supplier Database at tender closure will be declared non-responsive (refer to Tender Data, Clause C.2.1.1). In the case of a Joint Venture or a Targeted Enterprise, a pdf. supplier registration form must be provided for each member of the Joint Venture or Targeted Enterprise..

Name of Contractor: .....

Central Supplier Database Supplier Number: .....

Supplier Commodity: .....

Delivery Location: .....

**FORM A3.5: DECLARATION  
CERTIFICATE FOR LOCAL  
PRODUCTION AND CONTENT FOR  
DESIGNATED SECTORS (SBD 6.2)**

**Notes to Tenderer**

1. This Standard Bidding Document (SBD) must form part of all bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).
2. Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the South African Bureau of Standards (SABS) approved technical specification number SANS 1286:2017 and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

**FORM A3.6: LOCAL CONTENT  
DECLARATION: SUMMARY  
SCHEDULE (ANNEXURE C)**

**Use the Excel Spreadsheet  
provided in Part C4 (Appendix 7)  
for the BoQ Items listed in  
Form A3.6**

## FORM A4: SCHEDULE OF DEVIATIONS OR QUALIFICATIONS BY TENDERER

### Notes to Tenderer:

1. The Main Tender MUST be priced.
2. When submitting any alternative tender, condition of clause C.2.12 of Tender Data, shall be followed.

## FORM A5: SCHEDULE OF ADDENDA TO TENDER DOCUMENTS

### Notes to Tenderer:

1. If an addendum containing material amendments is not incorporated by the tenderer in his tender offer, the tender will be declared non-responsive.

## FORM A6: CERTIFICATE OF TAX COMPLIANCE (INCORPORATING SBD2)

### Notes to Tenderer:

1. The tenderer shall complete the declaration Form A6, **grant consent that SARS may disclose to the South African National Roads Agency SOC Limited (SANRAL) our tax compliance status**

## FORM A7: CERTIFICATE OF INSURANCE COVER

### Note to tenderer:

In the event of the tenderer being a Joint Venture/consortium the details of the **individual members must also be provided.**

## FORM A8: TENDERER'S REGISTERED FINANCIAL SERVICE PROVIDER LETTER AND BANK DETAILS

### Notes to tenderer:

1. The tenderer shall attach to this form a letter (**dated less than 3 months prior to the tender closing date**) from a **Registered Financial Service Provider** (registered with the FSB)
  - confirming the Tenderers' account, and
  - Confirming that the Tenderer's available capital and that the Tenderer has the financial means net of current commitments (independent of any contractual advance payment) available to meet the construction cash flow requirements estimated for the subject contract)
2. If the Tenderer does **not have financial resources**, the tender will be declared **non-responsive in terms of clause C.3.13 (b)** of the Tender Data.
3. The Tenderer (and in the event of a joint venture, the joint venture member's combined) shall have available capital in excess of **R26 500 000**.
4. In the event that the tenderer is a joint venture enterprise, details of all the members of the joint venture shall be similarly provided and attached to this form.

## FORM A9.1: SCHEDULE OF TENDERER'S LITIGATION HISTORY

### Note to tenderer:

The tenderer (and in the case of a Joint Venture, each member of the Joint Venture) shall list below details of any litigation

**FORM A9.2: ENVIRONMENTAL,  
SOCIAL, HEALTH, AND SAFETY  
PERFORMANCE  
DECLARATION**

**Note to tenderer:**

The tenderer (and in the case of a Joint Venture, each member of the Joint Venture) shall indicate below by marking with an "X" if suspension or termination of a contract occurred or not, and/or if the performance security has been called or not, related to Environmental, Social, Health or Safety (ESHS) performance, in the past five (5) years prior to the tender submission date.

In the event that suspension or termination occurred and/or the performance security has been called, the tenderer shall complete the details of all the suspensions and terminations as well as the details of all performance securities called since the date indicated.

The Employer may use this information to seek further information or clarifications in carrying out its due diligence.

Environmental, Social, Health, and Safety Performance Declaration			
<input type="checkbox"/> <b>No suspension or termination of contract:</b> An employer has not suspended or terminated a contract and/or called the performance security for a contract for reasons related to Environmental, Social, Health, or Safety (ESHS) performance in the past five (5) years prior to the tender submission date.			
<input type="checkbox"/> <b>Declaration of suspension or termination of contract:</b> The following contract(s) has/have been suspended or terminated and/or Performance Security called by an employer(s) for reasons related to Environmental, Social, Health, or Safety (ESHS) performance in the past five (5) years prior to the tender submission date. Details are described below:			
Year	Suspended or terminated portion of contract	Contract Identification	Total Contract Amount
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	<i>[insert complete contract name, contract number, Name of Employer, Address of Employer, Reason(s) for suspension or termination]</i>	<i>[insert amount]</i>
Performance Security called by an employer(s) for reasons related to ESHS performance			
Year	Contract Identification		Total Contract Amount
<i>[insert year]</i>	<i>[insert complete contract name, contract number, Name of Employer, Address of Employer, Reason(s) for calling of performance security]</i>		<i>[insert amount]</i>

**FORM A9.3: COMPLIANCE WITH  
LABOUR LEGISLATION  
DECLARATION**

**Note to tenderer:**

1. Tenderers must be registered with the Bargaining Council for the Civil Engineering Industry (BCCEI) or the relevant Bargaining Council.
2. Tenderers must append to this schedule (Form A9.3: Compliance with Labour Legislation) a letter of compliance / letter of good standing in terms of the relevant Government Gazette that indicates compliance/validity at the time of tender or obtain such upon being requested to do so in writing and within the period contained in such a request, failing which their tenders will be declared non-responsive.
3. Only those tenders submitted by tenderers who are in good standing with the BCCEI or any relevant applicable legislated bargaining council at the time of the tender award will be declared responsive.
4. Each party to a Consortium/Joint Venture shall append separate certificates for each party in the above regard.
5. The tenderer, by signing this schedule, declares that it will comply with all labour legislation, as may be applicable.

SIGNED BY TENDERER: .....

## FORM A10: SCHEDULE OF CURRENT COMMITMENTS

### **Notes to tenderer:**

1. The tenderer shall list below all contracts currently under construction or awarded and about to commence and tenders for which offers have been submitted but awards not yet made.
2. In the event of a joint venture or consortium, details of all the members of the joint venture or consortium shall similarly be attached to this form.

## FORM A11: CERTIFICATE OF COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 AND CONSTRUCTION REGULATIONS, 2014 AS WELL AS COID ACT, 1993

### **Notes to tenderer:**

1. Discovery that the tenderer has failed to make proper disclosure may result in SANRAL terminating a contract that flows from this tender on the ground that it has been rendered invalid by the tenderer's misrepresentation.
2. The tenderer shall attach to this Form evidence that he is registered and in good standing with the compensation fund or with a licensed compensation insurer who is approved by Department of Labour in terms of section 80 of the Compensation for Injury and Disease Act, 1993 (Act No. 130 of 1993).
3. The tenderer is required to disclose, by also attaching documentary evidence to this form, all inspections, investigations and their outcomes conducted by the Department of Labour into the conduct of the tenderer at any time during the 36 months preceding the date of this tender.
4. In the event of a joint venture or consortium, each and every member of the unincorporated Joint Venture shall comply with the above requirements.

## FORM A12: CERTIFICATE OF REGISTRATION WITH CIDB

The tenderer shall provide a scanned copy in pdf of the Active Contractor's Listing off the CIDB website. ([www.cidb.org.za](http://www.cidb.org.za)).

Tenderers whose CIDB registration expires within 21 days after close of tender should attach proof of their application for re-registration (refer to Tender Data Clause C.2.1.1).  
In the case of a Joint Venture, a scanned copy of the Active Contractor's Listing must be provided for each member of the Joint Venture.

Name of Contractor: .....

Contractor Grading Designation:.....

CIDB Contractor Registration Number:.....

Expiry Date: .....

**FORM A13: FORM SBD1 – INVITATION TO BID AND TERMS AND CONDITIONS FOR BIDDING**

**FORM A14: DECLARATION OF TENDERER'S FINANCIAL SUBMISSION**

**FORM B1: CONTRACTOR'S ESTABLISHMENT ON SITE**

**FORM B2: SCHEDULE OF SPECIAL MATERIALS**

**Notes to tenderer:**

- 1. The tenderer shall attach to this form a valid B-BBEE verification certificate issued in accordance with:**
  - the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No. 41287 on 1 December 2017 by the Department of Trade and Industry.
  - in the event that the Measured Entity operates in more than one sector or sub-sector, the scorecard for the sector or sub-sector in which the majority of its core activities (measured in terms of Annual Revenue) are located will be acceptable. The tenderer must comply with the annual revenue thresholds for EME or QSE or Generic in accordance with the amended Construction Sector Codes.
- 2. The certificate shall:**
  - have been issued by a verification agency accredited by the South African National Accreditation System (SANAS); or
  - be in the form of a sworn affidavit or a certificate issued by the Companies and Intellectual Property Commission in the case of an Exempted Micro Enterprise (EME) with a total annual revenue of less than R3 million if issued in accordance with the amended Construction Sector Codes published in Notice 931 of 2017 of Government Gazette No. 41287 on 1 December 2017 by the Department of Trade and Industry; and
  - be valid at the original advertised tender closing date; and
  - have a date of issue less than 12 (twelve) months prior to the tender closing date (see Tender Data C.2.15).
- 3. If the B-BBEE Certificate is not valid,**
- 4. A valid BBEE Certificates shall contain:**
  - Name of enterprise as per enterprise registration documents issued by CIPC, and enterprise business address.
  - Value-Added Tax number, where applicable.
  - The B-BBEE Scorecard against which the certificate is issued, indicating all elements and scores achieved for each element. The actual score achieved must be linked to the total points as per the relevant Codes.
  - B-BBEE status with corresponding procurement recognition level.
  - The relevant Codes used to issue the B-BBEE verification certificate.
  - Date of issue and expiry (e.g. 9 June 2018 to 8 June 2019). Where a measured entity was subjected to a re-verification process, due to material change, the B-BBEE Verification Certificate must reflect the initial date of issue, date of re-issue and the initial date of expiry. Re-verification does not extend the lifespan of the B-BBEE Verification Certificate.
  - Financial period which was used to issue the B-BBEE Verification Certificate
- 5. A valid Sworn Affidavit shall contain:**
  - - Name/s of deponent as they appear in the identity document and the identity number.
  - - Designation of the deponent as either the director, owner or member must be indicated in order to know that person is duly authorised to depose of an affidavit.
  - - Name of enterprise as per enterprise registration documents issued by the CIPC, where applicable, and enterprise business address.
  - - Percentage black ownership, black female ownership and whether they fall within a designated group.

**FORM C1.1: TENDERER'S B-BBEE  
VERIFICATION CERTIFICATE**

- - Indicate total revenue for the year under review and whether it is based on audited financial statements or management accounts.
  - - Financial year-end as per the enterprise's registration documents, which was used to determine the total revenue. The valid format of the Financial Year-End is Day/Month/Year
  - - B-BBEE status level. An enterprise can only have one status level.
  - - Date deponent signed and date of Commissioner of Oath must be the same.
  - - Commissioner of Oath cannot be an employee or ex officio of the enterprise because, a person cannot by law, commission a sworn affidavit in which they have an interest, and
6. In the event of a Joint Venture (JV), a project specific (SANRAL project number indicated) consolidated B-BBEE verification certificate in the name of the JV, shall be attached.
  7. The attached verification certificate and the associated assessment report shall comply with the requirements of Tender Data clause C.3.11.8 and shall identify:
    - (a) The name and domicilium citandi et executandi of the tenderer.
    - (b) The registration and VAT number of the tenderer.
    - (c) The dates of granting of the B-BBEE score and the period of validity.
    - (d) The expiry date of the verification certificate.
    - (e) A unique identification number.
    - (f) The standard and/or normative document, including the issue and/or revision used to evaluate the tenderer.
    - (g) The name and/or mark/logo of the B-BBEE verification agency.
    - (h) The category (Generic, QSE, EME) in which the tenderer has been measured.
    - (i) The B-BBEE status level.
    - (j) The South African National Accreditation System (SANAS) logo on the verification certificate once verification agencies have been accredited.
    - (k) The B-BBEE procurement recognition level.
    - (l) The score achieved per B-BBEE element.
    - (m) The % black shareholding.
    - (n) The % black women shareholding.
    - (o) The % black persons with disabilities shareholding
    - (p) The % black youth shareholding
    - (q) The % black people living in rural or underdeveloped areas or townships shareholding
    - (r) The % black military veterans shareholding
    - (s) The value-added status of the tenderer.
  8. The Employer will not be responsible to acquire data that it needs for its own reporting systems and which may not form part of a verification agency's standard certificate format. The tenderer, at its own cost, must acquire any missing specified data listed in 4 above from its selected verification agency and have it recorded on the certificate. Alternatively, such missing data must be supplied separately, but certified as correct by the same verification agency and also attached to this form.

**FORM C1.1: TENDERER'S B-BBEE  
VERIFICATION CERTIFICATE  
Continued...**

**FORM C1.2: PREFERENCE  
POINTS CLAIM FORM IN TERMS  
OF THE PREFERENTIAL  
PROCUREMENT REGULATIONS  
2022 (INCORPORATING SBD6.1)**

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

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

**1. GENERAL CONDITIONS**

- 1.1 The following preference point systems are applicable to invitations to tender:
- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
  - the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by organ of state

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

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

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

1.4 To be completed by the organ of state:

The maximum points for this bid are allocated as follows:

	<b>POINTS</b>
<b>PRICE</b>	<b>90</b>
<b>SPECIFIC GOALS</b>	<b>10</b>
<b>Total points for Price and Specific Goals</b>	<b>100</b>

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

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

**FORM C1.2: PREFERENCE  
POINTS CLAIM FORM IN TERMS  
OF THE PREFERENTIAL  
PROCUREMENT REGULATIONS  
2022 (INCORPORATING SBD6.1)  
Continued...**

**2. DEFINITIONS**

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

**3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES**

**3.1 POINTS AWARDED FOR PRICE**

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

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

80/20	or	90/10
$P_s = 80 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$	or	$P_s = 90 \left( 1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$

Where:

- P<sub>s</sub> = Points scored for price of bid under consideration
- P<sub>t</sub> = Price of bid under consideration
- P<sub>min</sub> = Price of lowest acceptable bid

**FORM C1.2: PREFERENCE  
POINTS CLAIM FORM IN TERMS  
OF THE PREFERENTIAL  
PROCUREMENT REGULATIONS  
2022 (INCORPORATING SBD6.1)  
Continued...**

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

The specific goals allocated points in terms of this tender	Criteria	Number of points allocated (90/10 system)	Number of points claimed (90/10 system) (To be completed by the tenderer)
B-BBEE level scorecard of the tendering entity.	B-BBEE Level 1	10	
	B-BBEE Level 2	9	
	B-BBEE Level 3	6	
	B-BBEE Level 4	5	
	B-BBEE Level 5	4	
	B-BBEE Level 6	3	
	B-BBEE Level 7	2	
	B-BBEE Level 8	1	
	Non-compliant contributor	0	

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

# FORM D1 to D9: TECHNICAL SUBMISSION FORMS – D4.1

## FORM D4.1: TENDERER'S KEY PERSONNEL EXPERIENCE (CONTRACTS DIRECTOR)

CONTRACT: SANRAL S.004-005-2020/1

FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

### Note to tenderer:

1. The Tenderer shall provide details of the Contracts Director's professional registration, years' experience as well as details of previous experience required for this project.
2. The Contracts Director must meet the following minimum requirements as stipulated and the tenderer must append proof of registration to this form:

Professional Registration	Minimum Years of Relevant Experience
SACPCMP as PrCM or ECSA as PrEng or PrTechEng	15

3. Where ECSA registration is required, Professional Registration with the Engineering Council of South Africa (ECSA) or any other equivalent registration with an international body recognised by ECSA, i.e. Washington Accord, Dublin Accord and Sydney Accord, is accepted.
4. In the event that the Contracts Director are not in its permanent employment, the tenderer shall provide a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement.
5. If the tenderer's experience does not meet the stipulated minimum requirement or does not respond within stated period when requested to do so; the tender will be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data.

NAME	POSITION IN TEAM	ECSA REG. No	ECSA CATEGORY	SACPCMP REG No	SACPCMP CATEGORY	NO. OF YEARS EXPERIENCE
	CONTRACTS DIRECTOR					

## FORM D1 to D9: TECHNICAL SUBMISSION FORMS – D4.2

### FORM D4.2: TENDERER'S KEY PERSONNEL EXPERIENCE (CONTRACTS MANAGER)

CONTRACT: SANRAL S.004-005-2020/1  
 FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

**Note to tenderer:**

1. The Tenderer shall provide details of the Contracts Manager's, professional registration, years' experience as well as details of previous experience required for this project.
2. The Contracts Manager must meet the following minimum requirements as stipulated and the tenderer must append proof of registration to this form:

Professional Registration	Minimum Years of Relevant Experience
SACPCMP as PrCM or ECSA as PrEng or PrTechEng	10

3. Where ECSA registration is required, Professional Registration with the Engineering Council of South Africa (ECSA) or any other equivalent registration with an international body recognised by ECSA, i.e. Washington Accord, Dublin Accord and Sydney Accord, is accepted.
4. In the event that the Contracts Manager are not in its permanent employment, the tenderer shall provide a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement.
5. If the tenderer's experience does not meet the stipulated minimum requirement, or does not respond within stated period when requested to do so; the tender will be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data.

NAME	POSITION IN TEAM	ECSA REG. No	ECSA CATEGORY	SACPCMP REG No	SACPCMP CATEGORY	NO. OF YEARS EXPERIENCE
	CONTRACTS MANAGER					

## FORM D1 to D9: TECHNICAL SUBMISSION FORMS – D4.3

### FORM D4.3: TENDERER'S KEY PERSONNEL EXPERIENCE (**CONSTRUCTION MANAGER (CONTRACTOR'S REPRESENTATIVE)**)

CONTRACT: SANRAL S.004-005-2020/1  
 FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

**Note to tenderer:**

1. The Tenderer shall provide details of the Construction Manager's (Contractor's Representative's), professional registration, years' experience as well as details of previous experience required for this project.
2. The Construction Manager (Contractor's Representative) must meet the following minimum requirements as stipulated and the tenderer must append proof of registration to this form:

Professional Registration	Minimum Years of Relevant Experience
SACPCMP as PrCM or ECSA as PrEng or PrTechEng	10

3. Where ECSA registration is required, Professional Registration with the Engineering Council of South Africa (ECSA) or any other equivalent registration with an international body recognised by ECSA, i.e. Washington Accord, Dublin Accord and Sydney Accord, is accepted.
4. In the event that the Construction Manager (Contractor's Representative) are not in its permanent employment, the tenderer shall provide a signed undertaking from an organisation having the required personnel, stating that they will undertake the necessary work on behalf of the tenderer in terms of a sub-consultant agreement.
5. The Construction Manager (Contractor's Representative) shall be; employed full time on the Works, the single point of accountability and responsible for the management of the construction works.
6. If the tenderer's experience does not meet the stipulated minimum requirement or does not respond within stated period when requested to do so; the tender will be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data.

NAME	POSITION IN TEAM	ECSA REG. No	ECSA CATEGORY	SACPCMP REG No	SACPCMP CATEGORY	NO. OF YEARS EXPERIENCE
	CONSTRUCTION MANAGER (CONTRACTOR'S REPRESENTATIVE)					

# FORM D1 to D9: TECHNICAL SUBMISSION FORMS – D5.1

## FORM D5.1: TENDERER'S EXPERIENCE BASED ON COMPLETED PROJECTS

CONTRACT: SANRAL S.004-005-2020/1  
 FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

### Note to tenderer:

1. The tenderer shall provide details of previous experience required for this project in the spaces provided below and attach for each listed project, a performance evaluation certificates in the form of CIDB Contractor Performance Reports or an official reference letter from previous employer(s).
2. The Tenderer must have satisfactorily completed 3 (three) projects with a minimum value R45 million between 1st January 2009 and the date of submission.
3. The Tenderer shall have completed each of the listed projects as either a prime contractor or joint venture member or management contractor or sub-contractor. The listed project's scope of work be shall substantially match that of the subject project's scope of work.
4. Each listed project shall have a Performance Rating not less than zero (0) Adequate, as rated in terms of the CIDB Performance Rating system or official reference letters from previous employer(s).
5. For listed projects where the Tenderer participated as a joint venture member or sub-contractor, the Tenderer shall state value (V) limited to his/her share of certified work.
6. If the Tenderer is a joint venture, the value of projects completed by the individual joint venture members can be combined and shall be treated as one project to determine whether the requirement of the minimum value of a single contract has been met. In the case of combined projects, each contract performed by each member shall exceed fifty percent (50%) of the minimum value of a single contract as required for single entity. In determining whether the joint venture meets the requirement of total number of projects, the number of projects completed by all JV members each of value equal or more than the minimum value required shall be aggregated. For the afore-mentioned purpose, projects which are combined to meet the minimum value shall be treated as one contract.
7. If one or more of the listed projects does not meet minimum requirements as stipulated above, the tender shall be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data.

List only projects in progress which comply the above Notes to Tenderer.

CLIENT	DESCRIPTION OF PROJECT	PROJECT START DATE	PROJECT END DATE	VALUE OF WORK (i.e. the service provided) inclusive of VAT (Rand)	CONTACT PERSON AND FIRM	CONTACT NUMBER	CIDB EQUIVALENT PERFORMANCE RATING (NOT REQUIRED WHERE AN OFFICIAL REFERENCE LETTERS FROM PREVIOUS EMPLOYER(S) IS ATTACHED)

## FORM D1 to D9: TECHNICAL SUBMISSION FORMS – D5.2

### FORM D5.2: TENDERER'S EXPERIENCE BASED ON PROJECTS IN PROGRESS

CONTRACT: SANRAL S.004-005-2020/1

FOR: ISANDLWANA ROADS UPGRADE – PACKAGE 1 [UPGRADE OF PROVINCIAL ROAD P372]

#### Note to tenderer:

1. Submission of this form is optional. This form must be submitted if the tenderer does not comply with the requirements of Form D5.1, and elects to list projects that are in progress to comply with afore- mentioned requirements.
2. The Tenderer shall list projects in progress as stipulated under Table 1 below which commenced before **1st January 2009**
3. The Tenderer shall list **3 (three) projects in progress with a minimum value R45 million which commenced after 1st January 2009. Each listed project shall have a certified value of work that exceeds 80% of its awarded value.**
4. The Tenderer shall be employed on each listed project as either a prime contractor or joint venture member or management contractor or subcontractor. The listed project's scope of work shall substantially match that of the subject project's scope of work.
5. Each listed project shall have a Performance Rating not less than zero (0) Adequate, as rated in terms of the CIDB Performance Rating system or official reference letters from previous employer(s). The Performance Rating and certified value of work at closing date must be confirmed by the Project Employer or Project Engineer in writing.
6. For listed projects where the Tenderer participated as a joint venture member or sub-contractor, the Tenderer shall state value (V) limited to his/her share of certified work.
7. If the Tenderer is a joint venture, the value of projects completed by the individual joint venture members can be combined and shall be treated as one contract to determine whether the requirement of the minimum value of a single contract has been met. In the case of combined projects, each contract performed by each member shall exceed fifty percent (50%) of the minimum value of a single contract as required for single entity. In determining whether the joint venture meets the requirement of total number of projects, the number of projects completed by all JV members each of value equal or more than the minimum value required shall be aggregated. For the afore-mentioned purpose, projects which are combined to meet the minimum value shall be treated as one contract.
8. If one or more of the listed projects does not meet minimum requirements as stipulated above, the tender shall be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data

List only projects in progress which comply the above Notes to Tenderer.

CLIENT	DESCRIPTION OF PROJECT	PROJECT START DATE	PROJECT END DATE	AWARD VALUE OF WORK (i.e. the service provided) inclusive of VAT (Rand)	VALUE OF WORKS CERTIFIED BY THE ENGINEER	CONTACT PERSON AND FIRM	CONTACT NUMBER	CIDB PERFORMANCE RATING

## FORM D6 to D9: TECHNICAL SUBMISSION FORMS

**Note the requirements stated on each form.**

## FORM E1 to E4: PRODUCT SUBMISSIONS

**Not applicable. Not included in contract**

## FORM E5 to E7: PRODUCT SUBMISSIONS

**Not applicable. Not included in contract**

## FORM F1:

**Note this form has been created as an aid to ensure a tenderer's compliance with the completion of the returnable forms**

## TYPICAL ERRORS IN PREVIOUS SUBMISSIONS

1. **BOQ in Excel format** not included either in the original or Copy.
2. **Minimum Local Content** and production does not meet the minimum threshold
  - Form A.3.5 Declaration of local content – local content below minimum threshold, or minimum content not indicated
  - Exchange Rates not specified when some goods are marked as import
  - Import percentage not specified when some goods are marked as import
3. **Completed or in progress Projects** are not meeting minimum value required or not of similar scope
4. **Form A8 Letter** from Financial Service provider is not project specific or older than three months
5. **Key Personnel** do not meet minimum requirements.
6. Some **members of the joint venture** are not registered with CIDB
7. **BBBEE Score Cards.**
  - Separate scorecards for JV submissions
  - Joint Venture score cards which are **not project specific**
7. Do **not ZIP files** to the Flash drive. Do not **PASSWORD PROTECT** files to the Flash drive.
8. **Check contents** of your Flash drive before submitting the tender.

# 5. PROJECT DETAILS

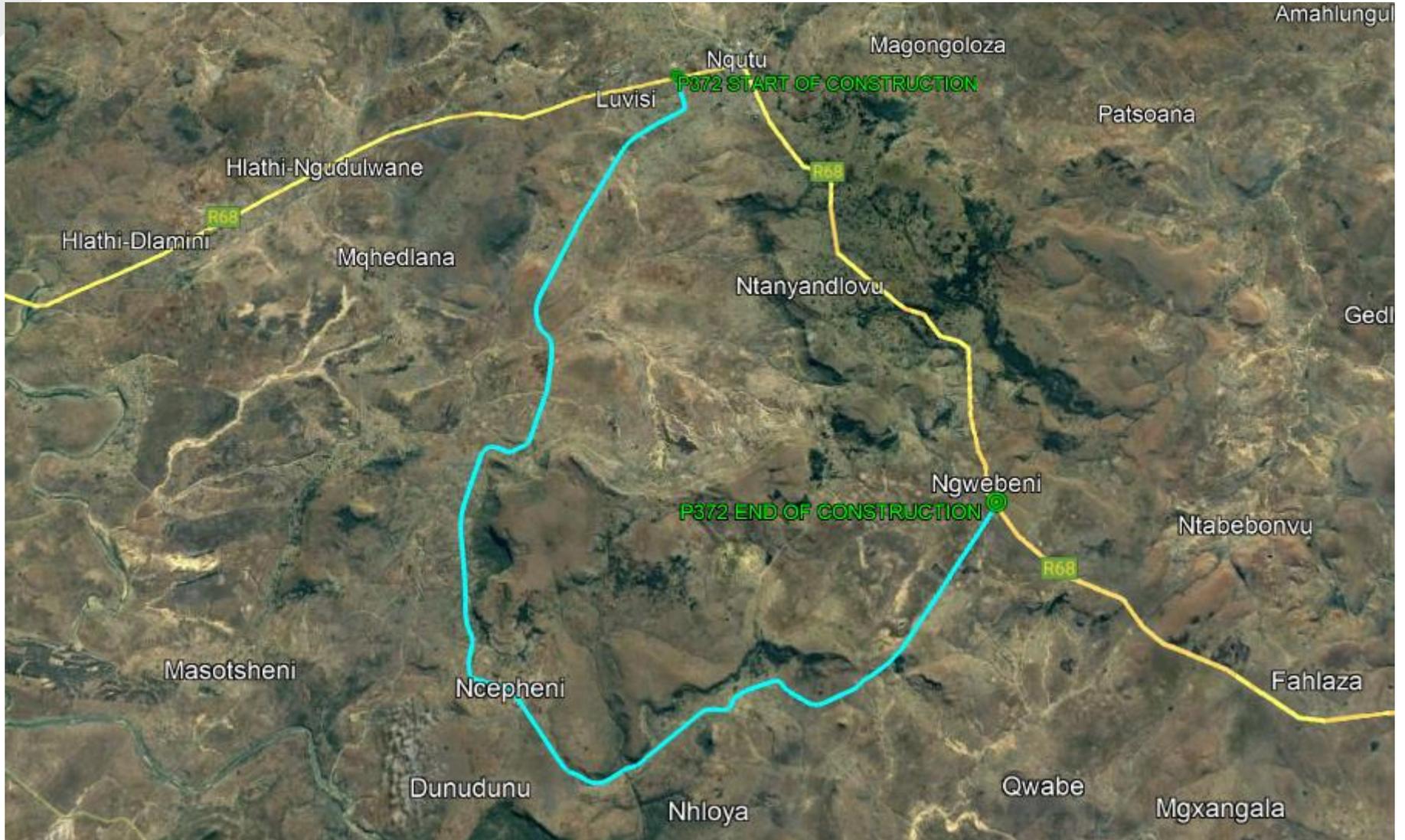
## C4 - DESCRIPTION OF WORKS

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

# LOCALITY

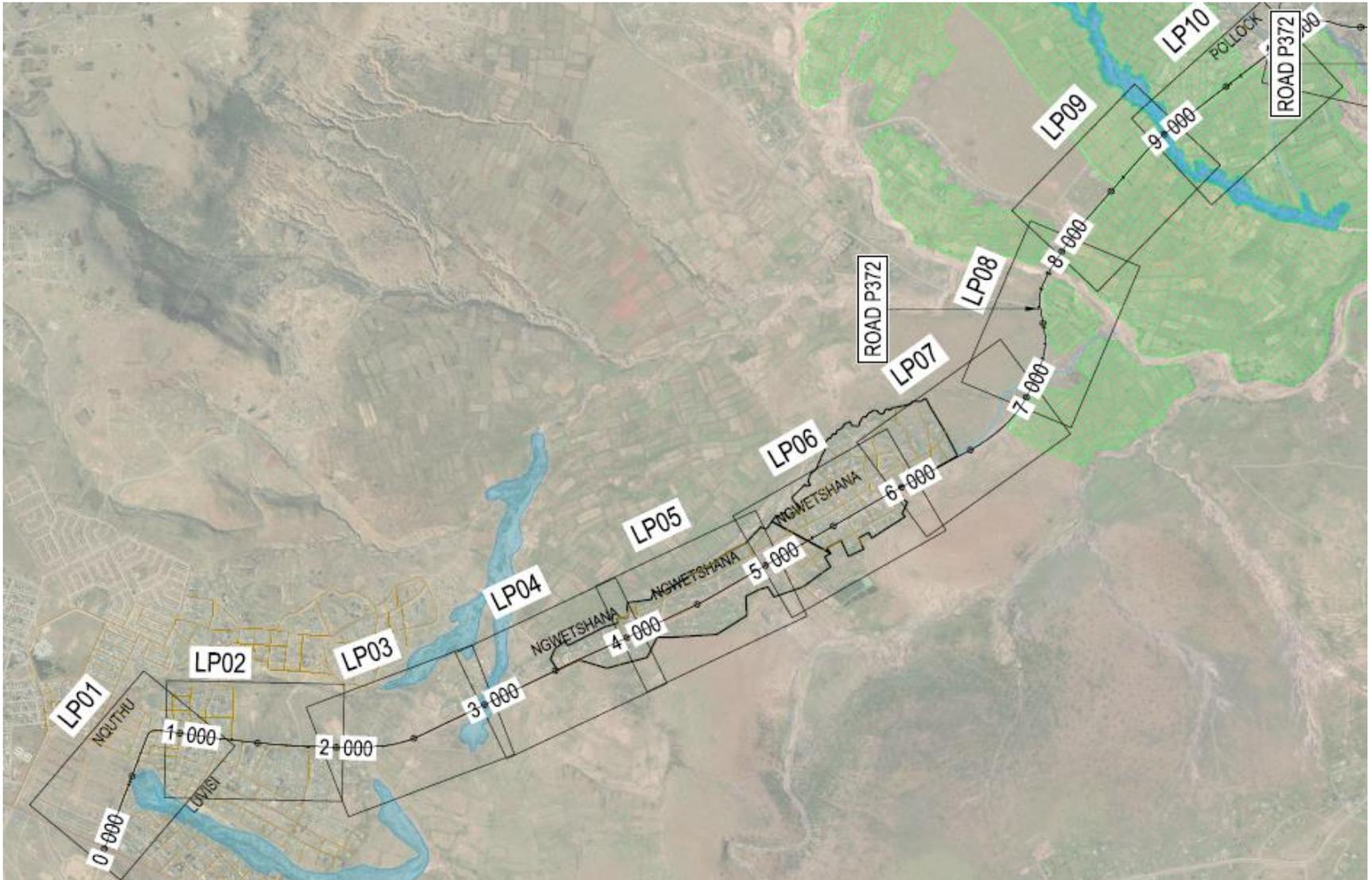




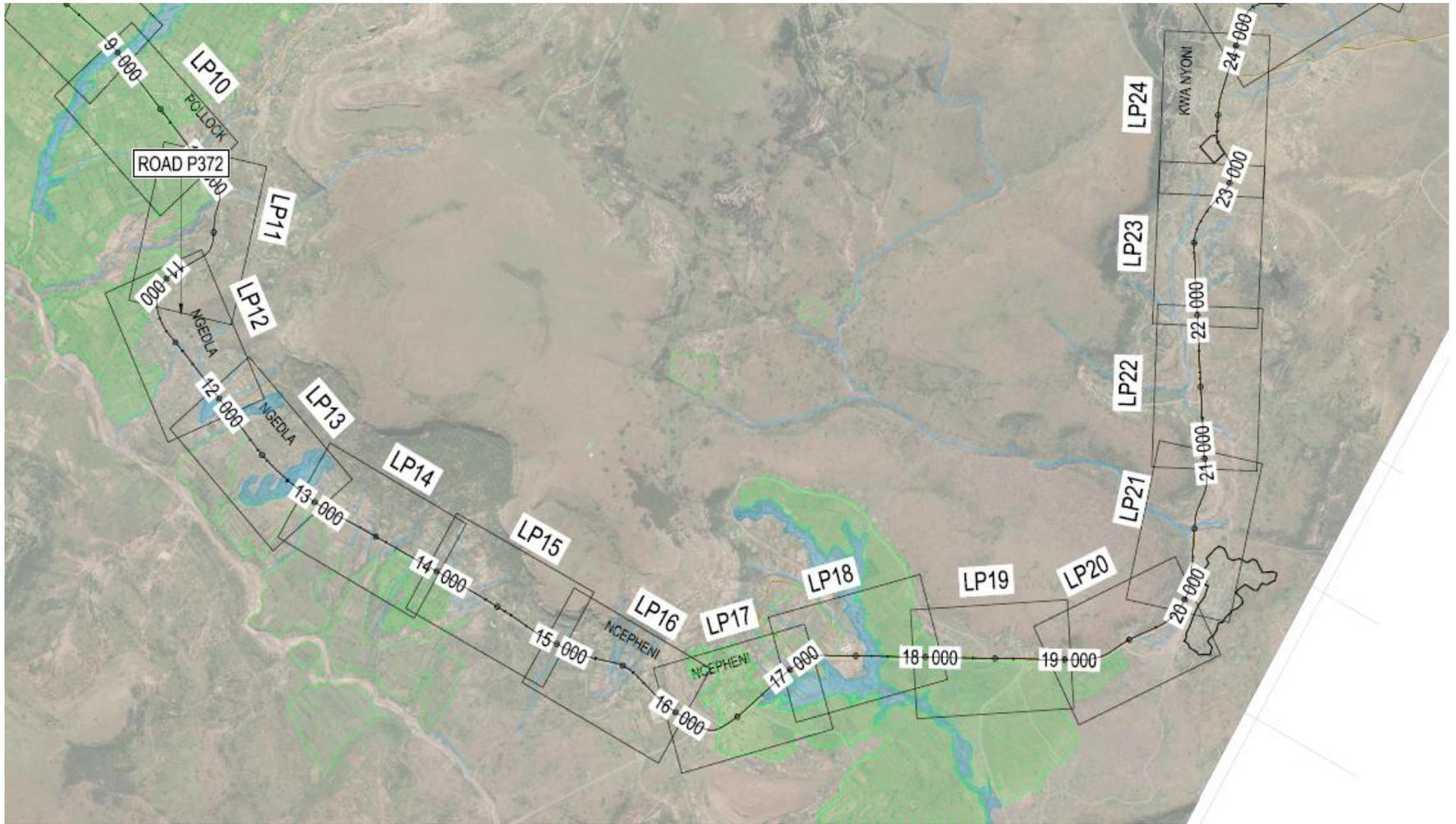
# LAYOUT EXTENT



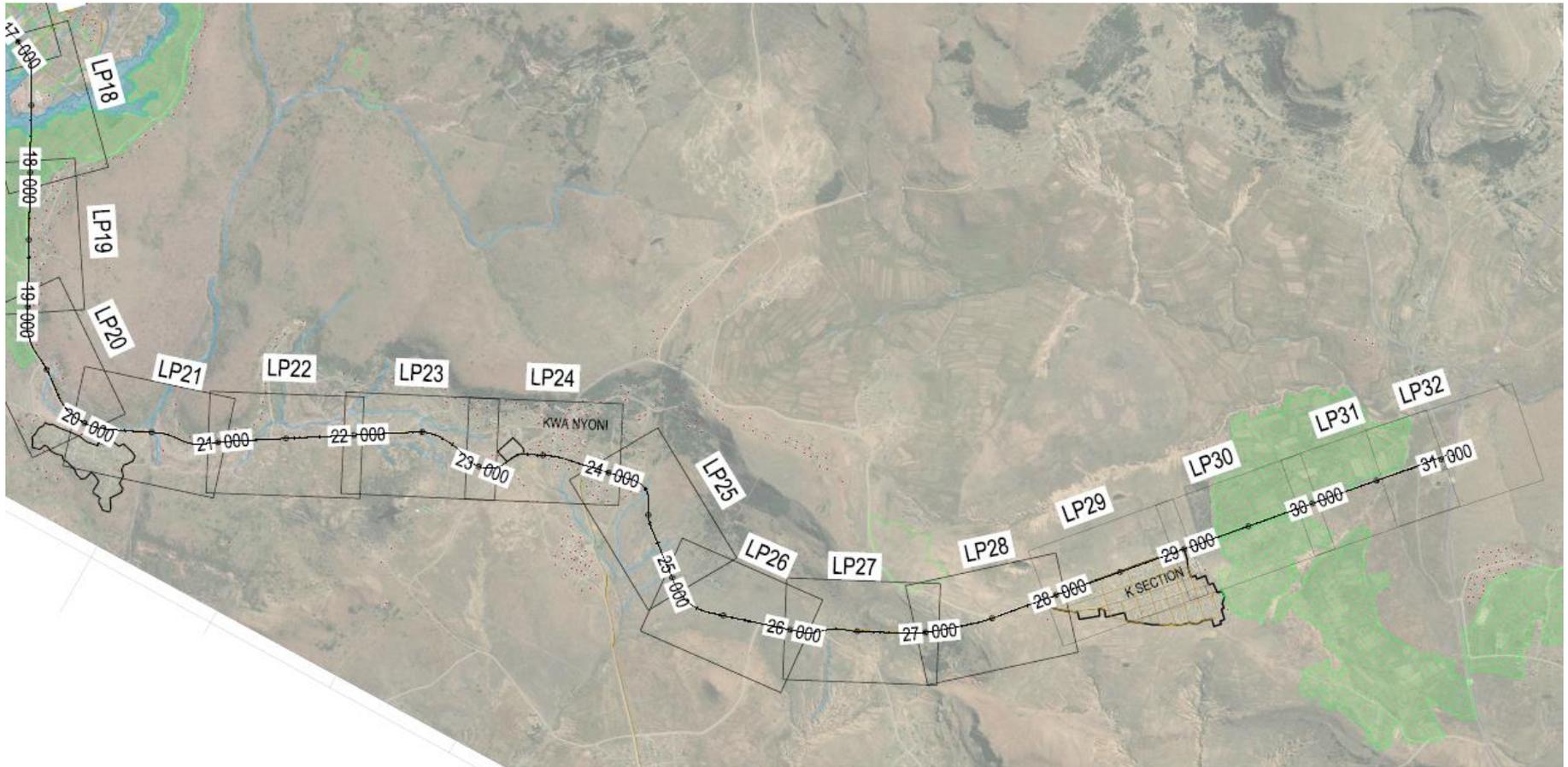
# LAYOUT



# LAYOUT



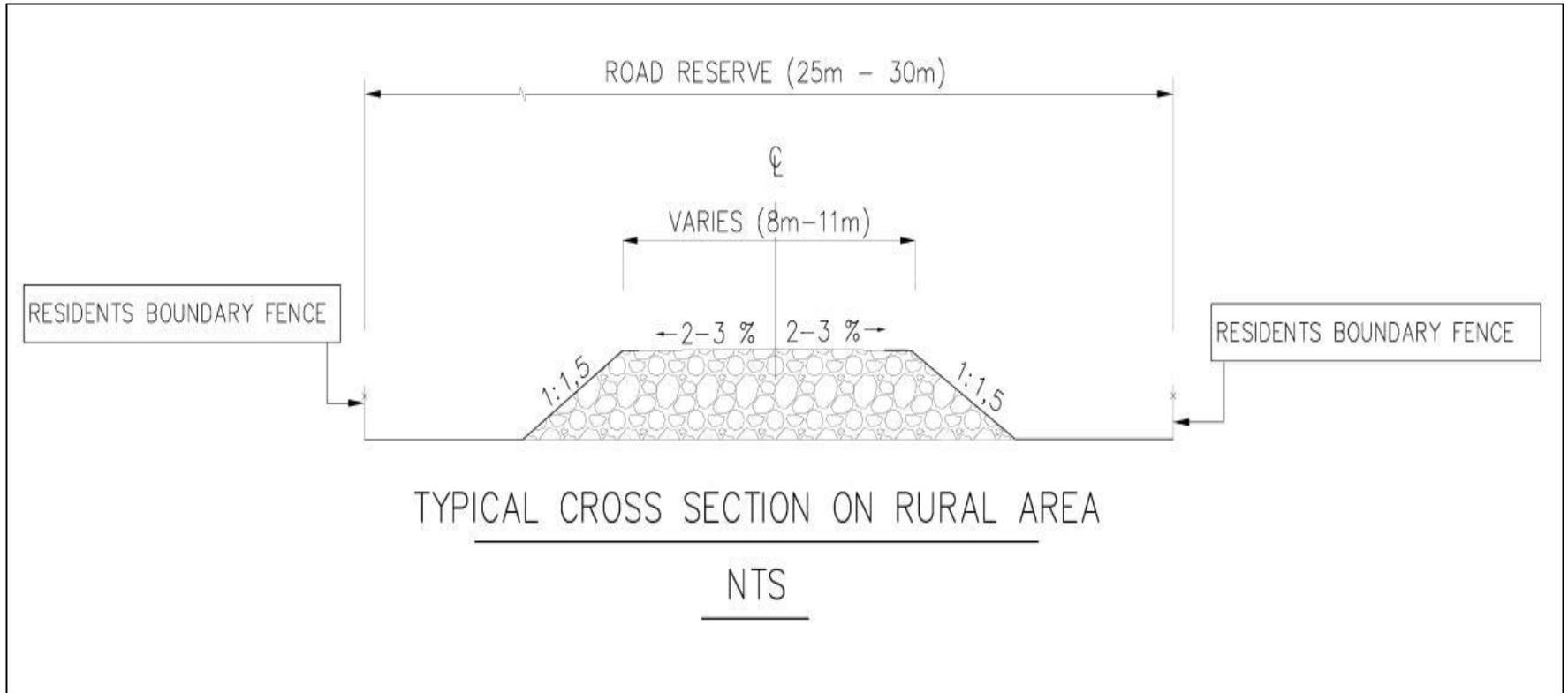
# LAYOUT





# EXISTING ROAD

## PART C4: SITE INFORMATION – EXISTING ROAD



### TYPICAL ROAD CROSS SECTION

**P372**

(Urban Rural / Area)

**PART C4: SITE INFORMATION – EXISTING ROAD**



**START OF PROJECT  
R68 & P372 Intersection (Luvisi Village)  
(Looking South)**

## PART C4: SITE INFORMATION – EXISTING ROAD



**GENERAL ROAD**  
**Cross Sectional Profile**  
**G8/G9 Wearing Course**

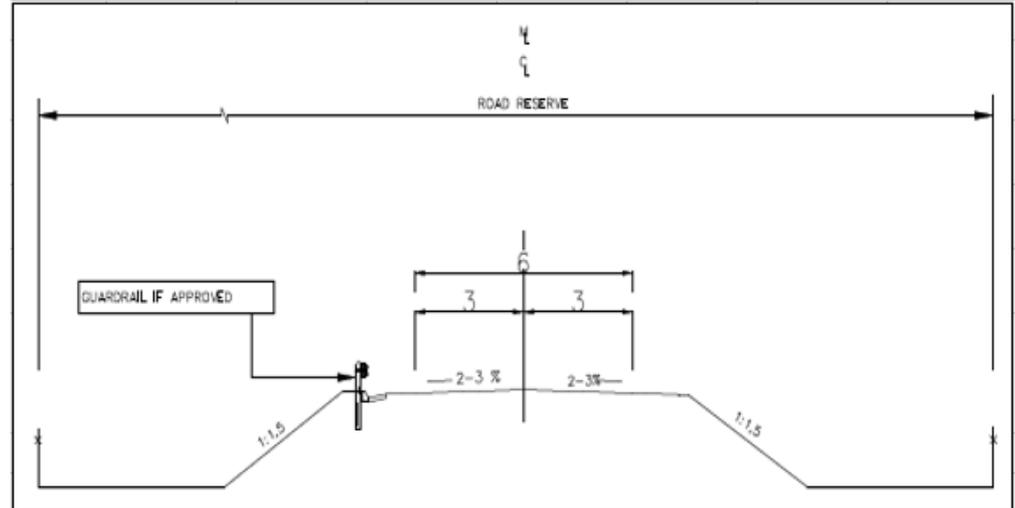
## PART C4: SITE INFORMATION – EXISTING ROAD



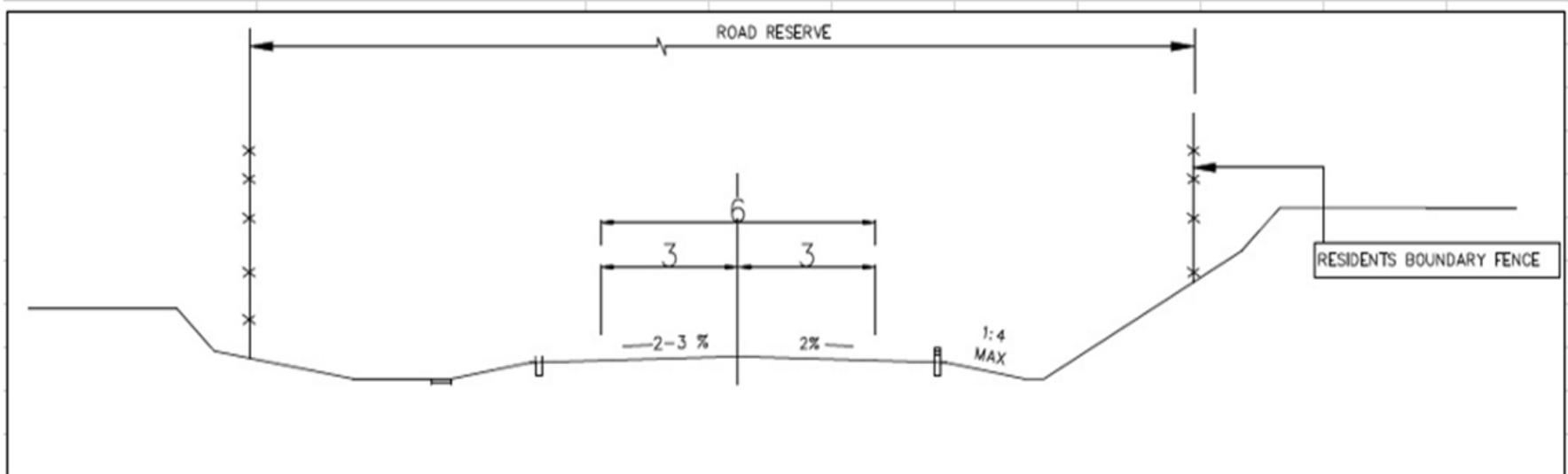
**END OF PROJECT  
R68 & P372 Intersection (Ngwebeni Village)  
(Looking South West)**

## PART C4: SITE INFORMATION – EXISTING ROAD OVERVIEW

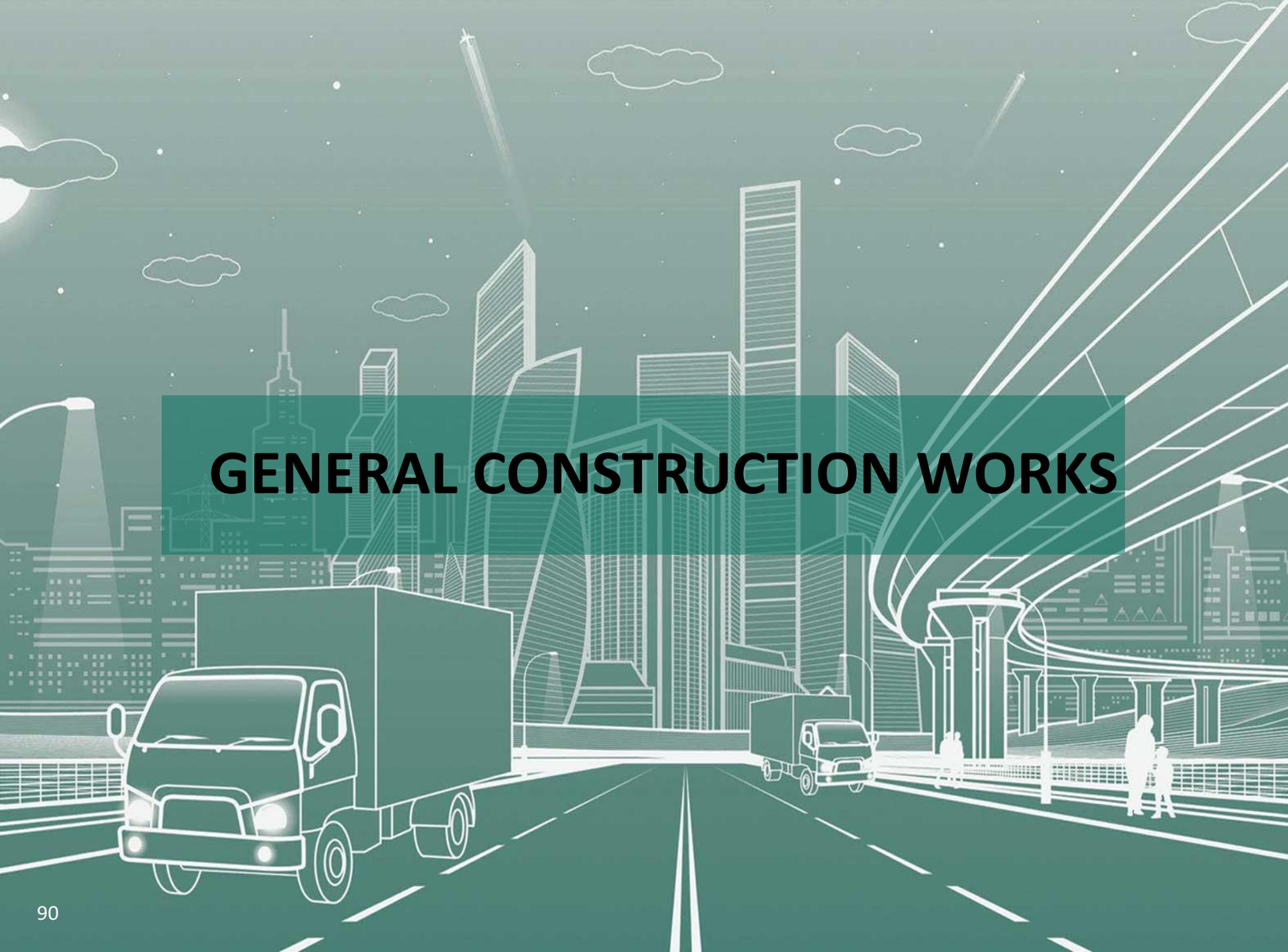
Description	Current
Project Limits	R68 Km 0 from Luvisi Village to R68 Km 32
TRH4 Road Category	2 Lane Single Carriageway
Design Speed	60km/h to 80km/h
Level of Service	D
Cross Section	Main Carriageway $\pm$ 12m <ul style="list-style-type: none"> <li>Shoulder: 1m to 2m</li> <li>Lanes: 2 x 3.5m</li> </ul>



**Cross Section: Rural Area**



**Cross Section: Urban Area**



# GENERAL CONSTRUCTION WORKS

## GENERAL CONSTRUCTION WORKS

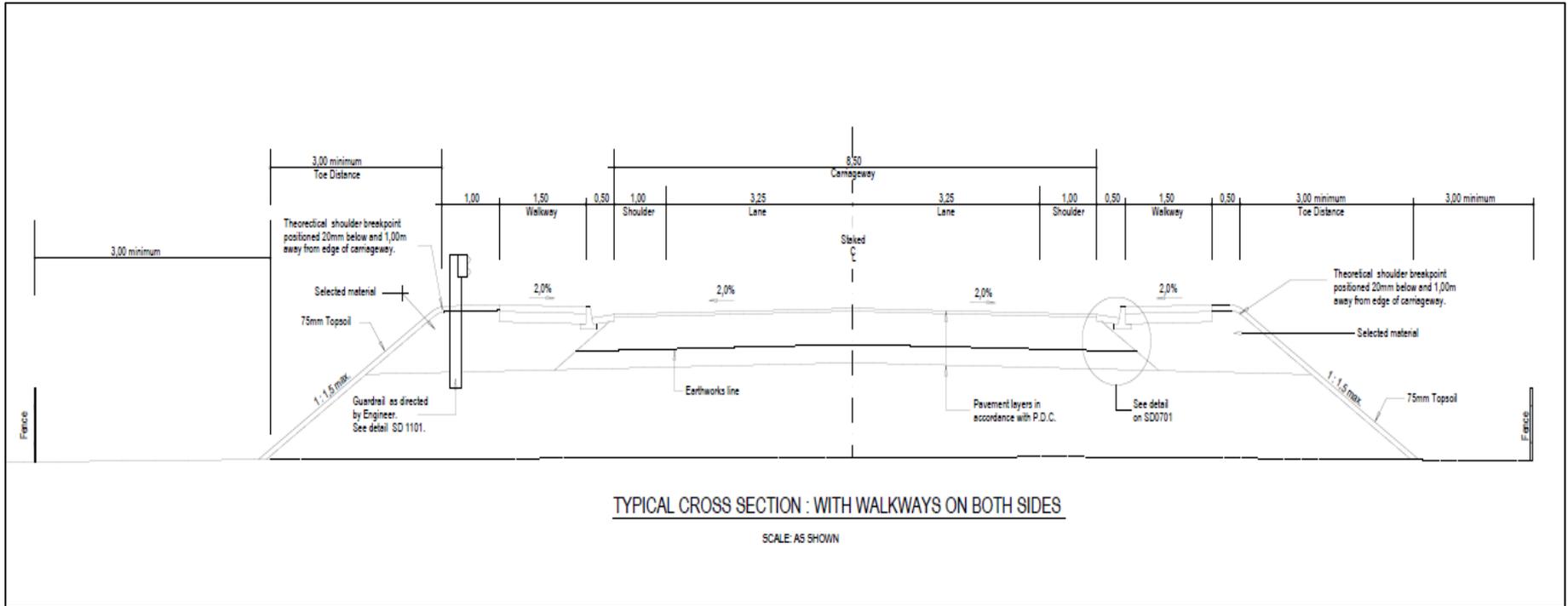
### **General Construction Works are as follows:**

Works includes the listed below, but may not be limited to this list:

- Traffic accommodation
- Mass Earthworks (Cut and Fill)
- Earthworks (Pavement Strengthening and Upgrading)
- Prime coat & surfacing
- Installation of road signs
- Drains, Culverts and wingwalls
- Kerbs, channel and concrete lined drains, Stone pitching and erosion protection
- Non-Structural Gabions
- Road Marking and road studs
- Guide blocks and Kilometre markers
- Road Restraint Systems
- Landscaping and planting of plants
- Finishing the road and road reserve and treating old roads
- Construction of pedestrian walkways and bus bays

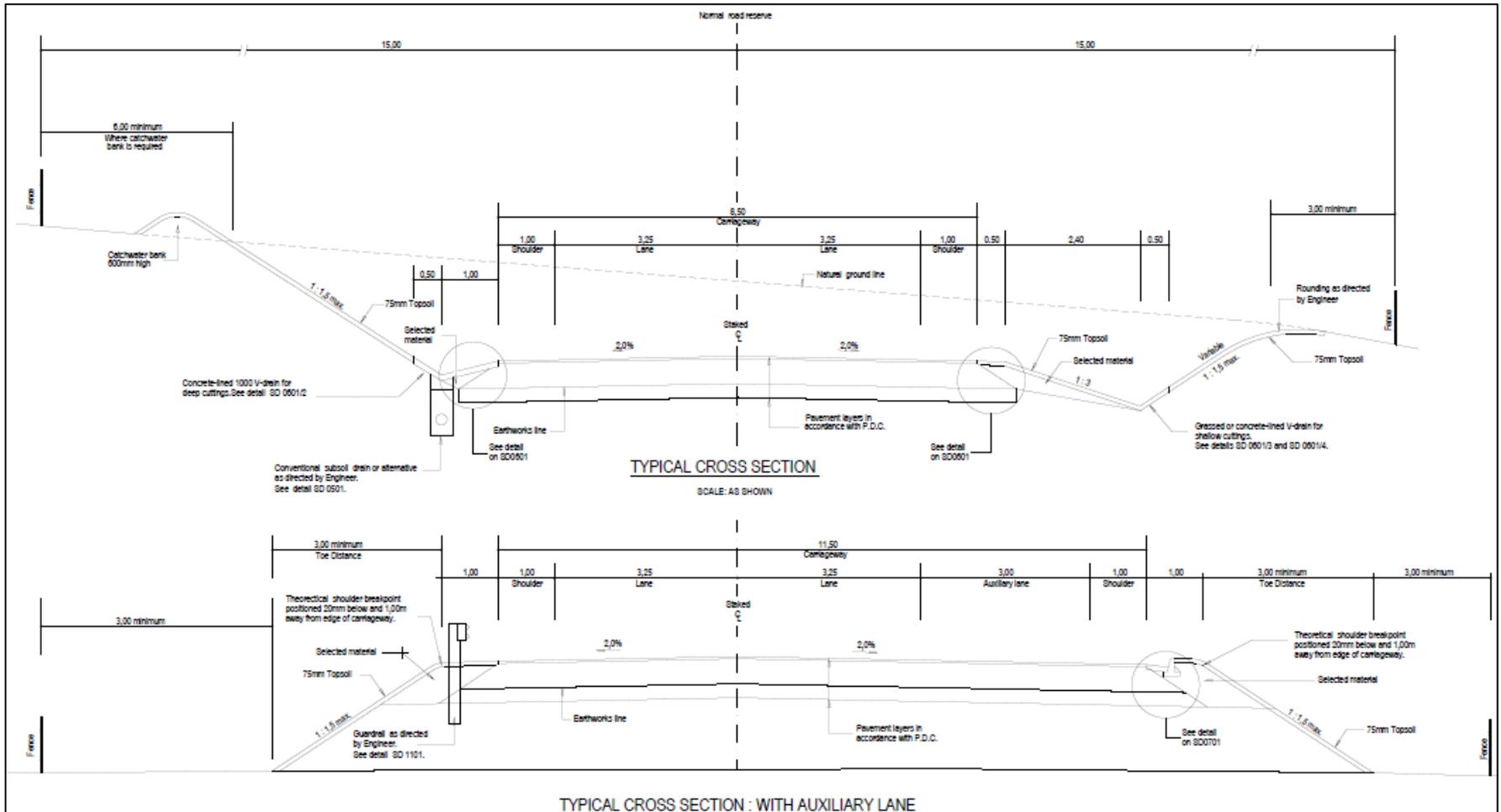
# GENERAL CONSTRUCTION WORKS

## Typical Cross Section – Urban Section of Road



# GENERAL CONSTRUCTION WORKS

## Typical Cross Section – Rural Sections of Road





# PAVEMENT DESIGN

**EXISTING PAVEMENT STRUCTURE**

<b>Wearing Course</b>	<b>150mm Thick, Silty Sandy G8 Material</b>
<b>Upper Layer</b>	<b>250mm of silty clayey Sand Material (G9)</b>
<b>Lower Layer</b>	<b>600mm of Slight Moist, Medium Dense, Silty Clay. Residual Material</b>

**PAVEMENT HISTORY**

Not Available. Not Applicable

**PAVEMENT MAINTENANCE**

Re-gravelling, Patch Gravelling, Grading on an As and When Required

## PAVEMENT DESIGNS - APPROACH

**The new proposed approach allows for providing a road category E with a design structural capacity of ES1. The structural design period is 15 years.**

**The design approach included:**

- South African Mechanistic-empirical Design Method (SAMDM)

**The design parameters (TRH 24) used in the pavement design are as follows:**

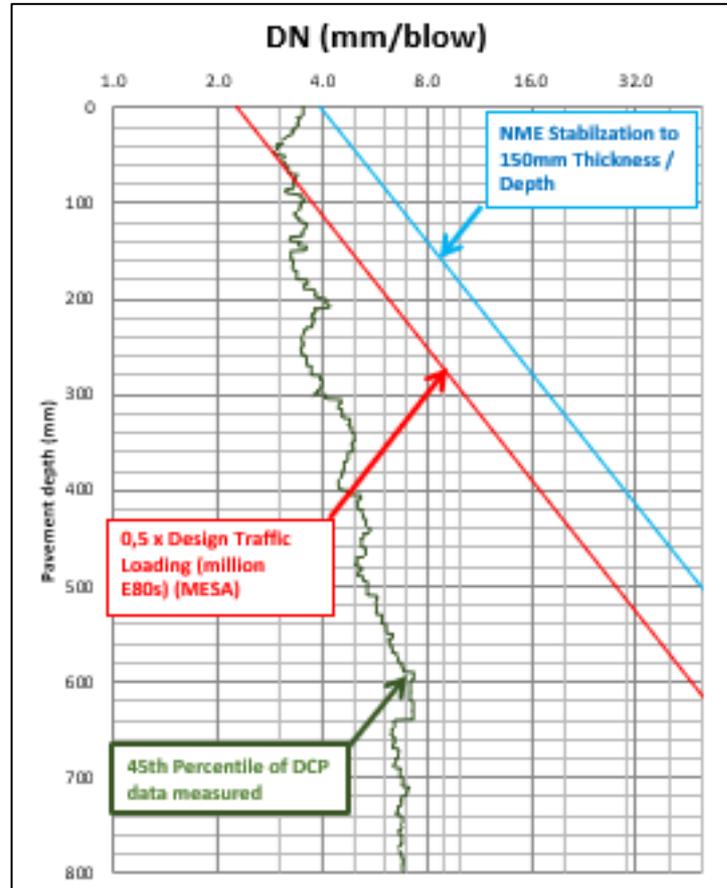
- Road Category: Category E
- Structural design life: 15 years
- Design traffic loading: 0,5 MESA
- Climatic region: Wet

## PAVEMENT DESIGNS REFERENCE – TRH24

Design traffic Loading	Typical road Category	Recommended Pavement structure (Material classification - draft TRH14 (1987) - Layer thicknesses in mm)				Alternative NME design Pavement structure with naturally available (in-situ or close borrow-pits) materials stabilised with a material compatible New (3rd Millinium) Modified Emulsion (NME) meeting the mininum specifications for the stabilised material class			
		(draft TRH4)* Granular Base (Dry)	(draft TRH4)* Granular Base (Wet)	(draft TRH4)* Hot-Mix Asphalt Base layer (BC)	(draft TRH4)* Cemented Base				
ES30 (NOT APPLICABLE TO Upgrading of unpaved roads)	A*	40 A*	50 A*	25 A*		20 mm Cape Seal (CS*)/ Double seal / 30 mm Aspahalt <sup>2</sup>			
		150 G1*	150 G1*	120 BC		150 NME1*	150 NME1*	150 NME1*	
		125 C3*	200 C3*	200 C3*		100 NME3*	150 NME3*	150 NME3*	
		125 C3*	200 C3*	200C3*		150 G6*	150 G7*	200 G7*	
		G7*	G7*	G7*		G9/G8*	G9/G8*	G10*	
ES10 NOT APPLICABLE TO LVRs	A/B*	40 A*	40 A*	40 A*		20 mm Cape Seal (CS*)/ Double seal / 25 mm Aspahalt <sup>2</sup>			
		150 G2*	150 G1*	90 BC		100 NME2*	100 NME2*	150 NME2*	
		125 C3*	150 C3*	150 C3*		100 NME4*	150 NME4*	150 NME4*	
		125 C3*	150 C3*	150 C3*		150 G6*	150 G7*	G10*	
		G7*	G7*	G7*		G9/G8*	G9/G8*		
ES3.0	B/C*	CS* / 30 A*	CS* / 30 A*	30 A*	CS* / 40 A*	** Cape Seal (10/14/20 CS*)/ Double seal / 25 mm Aspahalt <sup>2</sup>			
		150 G3*	150 G1*	80 BC	125 C3*	100 NME4*	150 NME4*	200 NME4*	
		150 C4*	150 C3*	200 C4*	200 C4*	150 G6*	150 G7*	G10*	
		G7*	G7*	G7*	G7*	G9/G8*	G9/G8*		
<ES1.0	C* D / E	CS* / 40 A*	CS* / 40 A*		CS* / 40 A*	** Cape Seal (10/14/20 CS*)/Double seal / Slurry seal			
		125 G4*	125 G2*		125 C3*	100 NME4*	100 NME4*	150 NME4*	
		125 C4*	150 C4*		125 C4*	100 G6*	150 G7*	G10*	
		G7*	G7*		G7*	G9/G8*	G9/G8*		

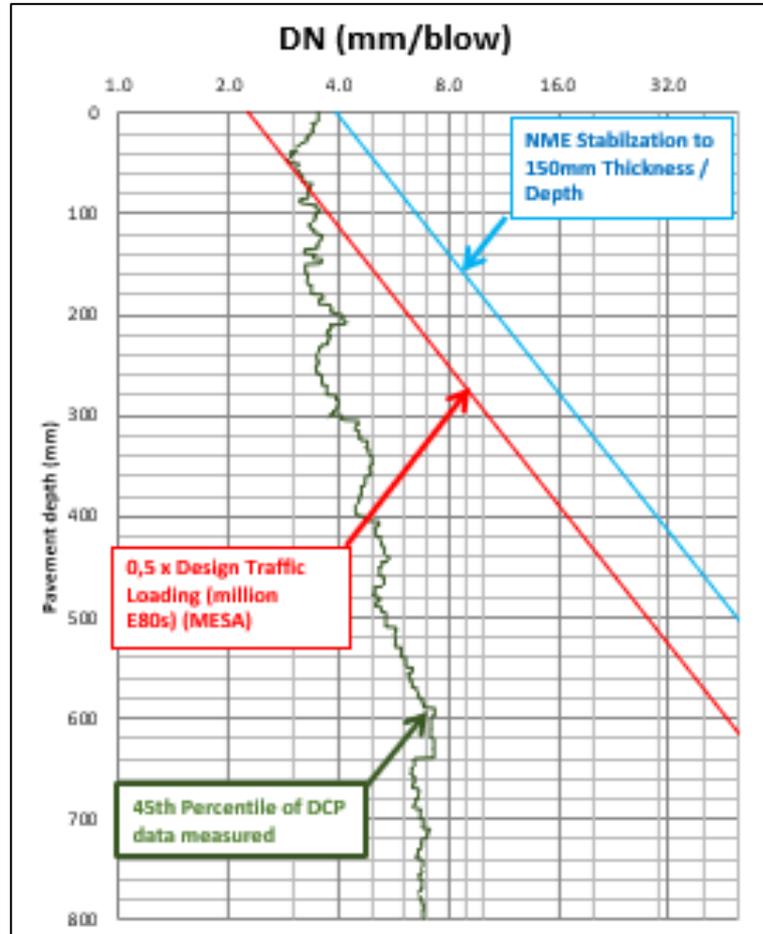
# PAVEMENT DESIGNS FOR ALL PARTS OF THE WORKS

## Strengthening of Section 1: Km 0+000 – Km10+450:



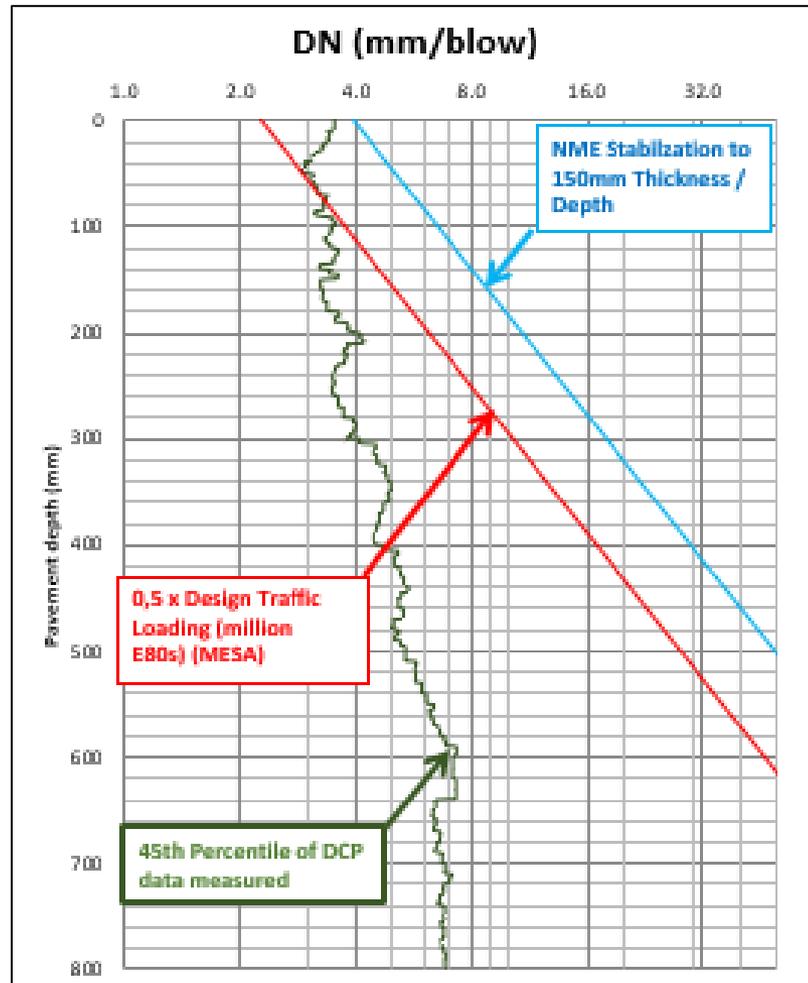
# PAVEMENT DESIGNS FOR ALL PARTS OF THE WORKS

## Strengthening of Section 2: Km10+450 – Km15+900 :



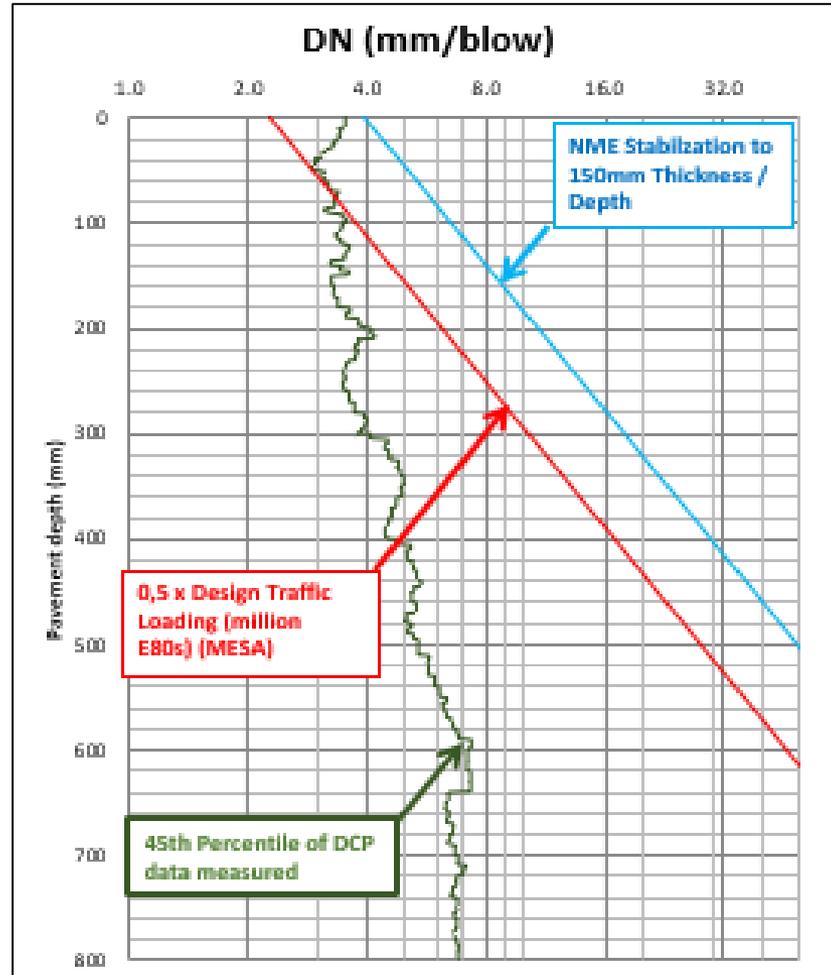
# PAVEMENT DESIGNS FOR ALL PARTS OF THE WORKS

## Strengthening of Section 3: 15+900 – Km22+400:



# PAVEMENT DESIGNS FOR ALL PARTS OF THE WORKS

## Strengthening of Section 4: Km 22+400 – km31+400:

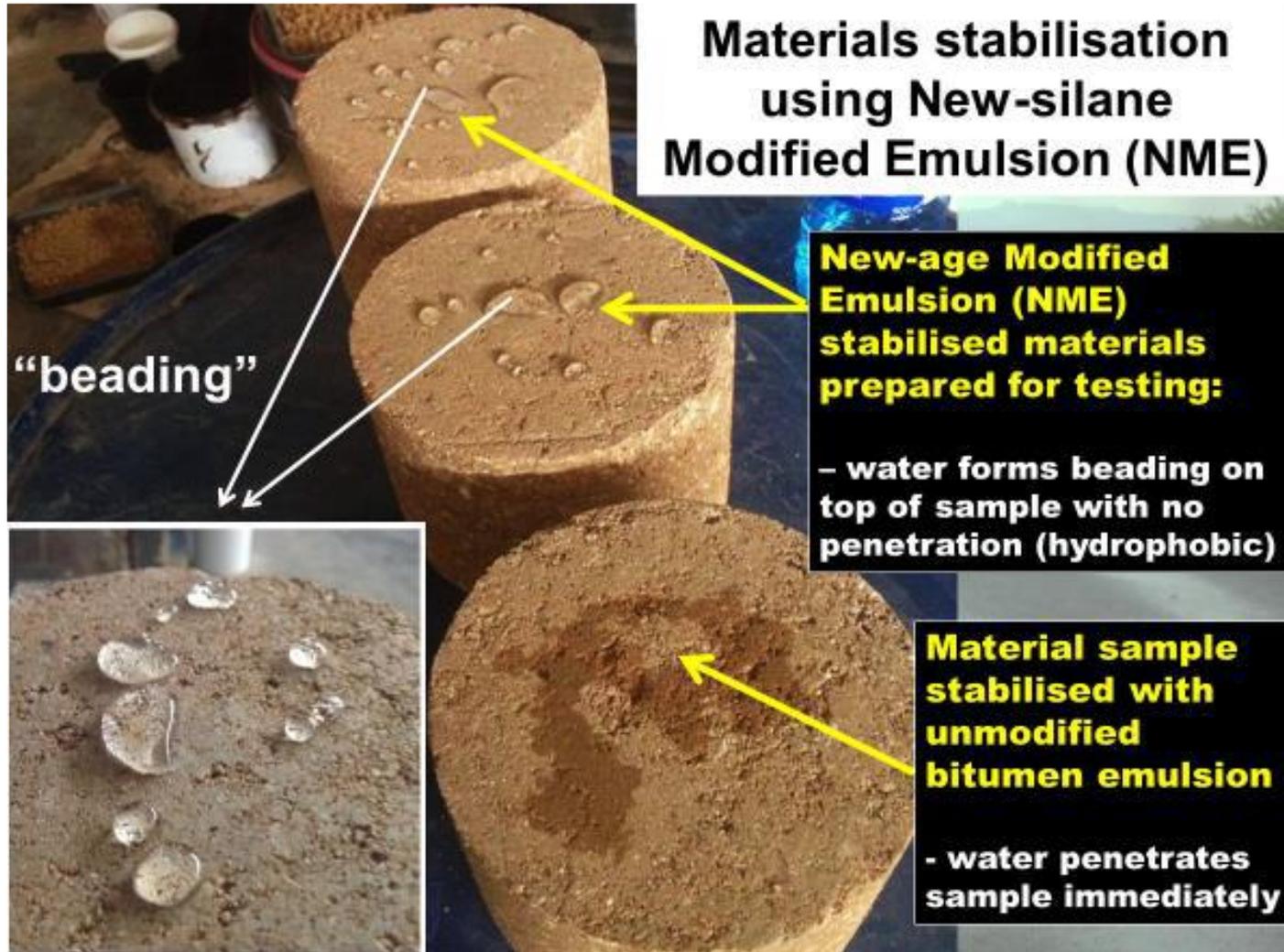


# GENERAL PAVEMENT UPGRADE ALL PARTS OF THE WORKS

## Pavement Upgrading strategy for P372:

Existing Pavement			New Proposed Pavement Upgrade		
Existing Layers / Pavement	Wearing Course	150mm G8	Pavement Upgrade	Surface	14mm Cape Seal
	Upper Layer	250mm G9		Base	150mm NME Stabilized to 97% MDD (Imported G5A)
	Lower Layer	Insitu-Subgrade (Clayey - Residual Material)		Sub-base	200mm Rip and Re-compact Insitu to 95% MDD
			<b>200mm Depth</b>		

## GENERAL PAVEMENT UPGRADE – NME STABILIZED



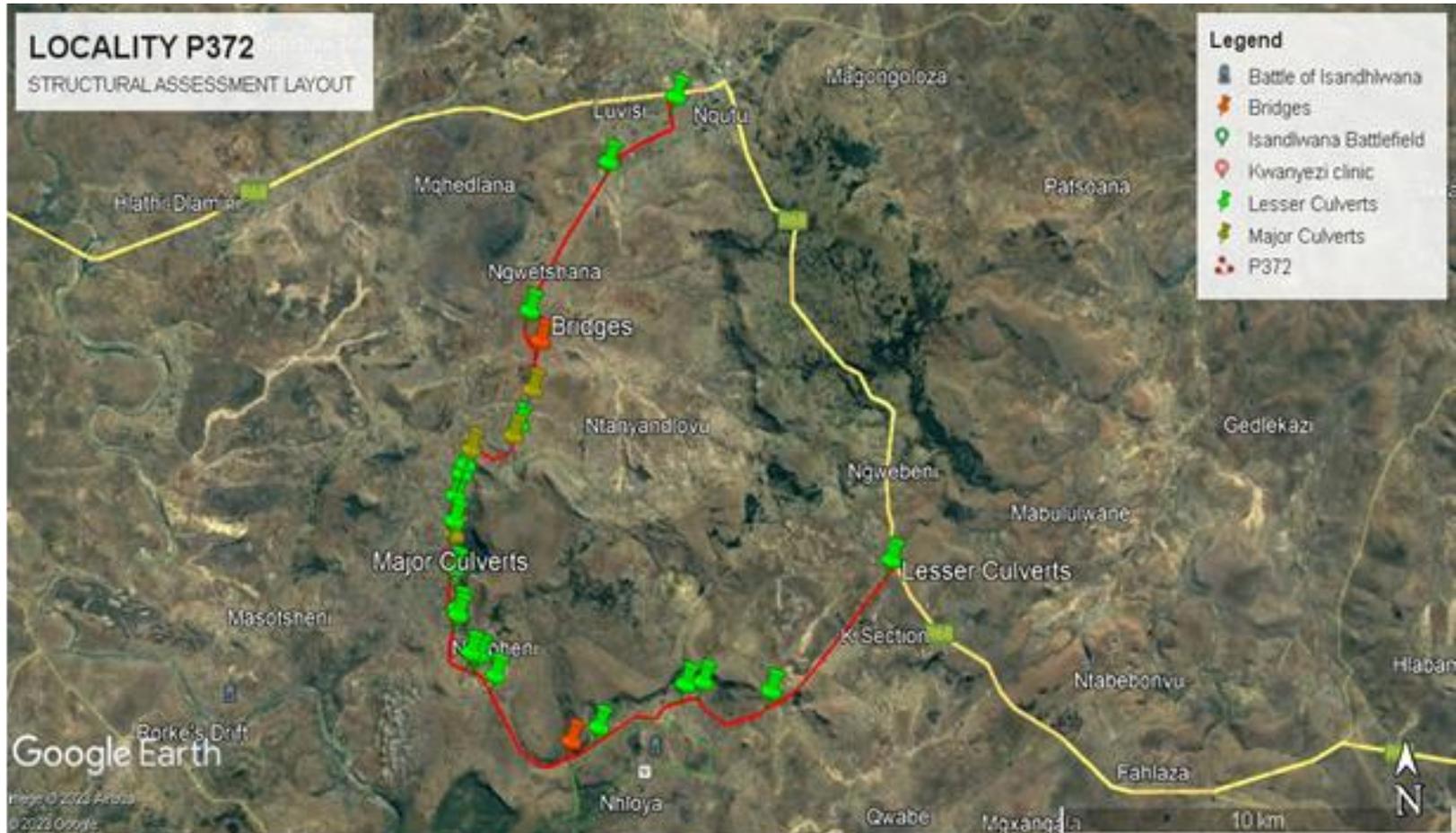


# ROAD DRAINAGE



# STORMWATER: CROSS DRAINAGE STRUCTURES

## Existing Cross Drainage Structure



## STORMWATER: CROSS DRAINAGE STRUCTURES

### Existing Cross Drainage Structure (Cont...)

Catchment No.	Existing Drainage Structures	Km	Required Capacity Analysis / Upgrade	New Design BMS Classification
1	Low level River Crossing	30.81	2 x 1.5 m dia. PC	Lesser Culvert
2	None	26.310	2 x 1.2 m dia. PC	Lesser Culvert
3	None	24.308	2 x 1.2 m dia. CP	Lesser Culvert
4	None	23.845	2 x 1.2 m dia. CP	Lesser Culvert
5	0.22 m dia. Armco pipe	21.295	2 x 1.8 m dia. CP	Lesser Culvert
6	Bridge	20.500	-	-
7	None	17.610	2 x 1.5 m dia. CP	Lesser Culvert
8	None	17.085	1 x 1.2 m dia. CP	Lesser Culvert
9	None	16.995	1 x 0.6 m dia. CP	Lesser Culvert
10	None	16.880	2 x 1.2 m dia. CP	Lesser Culvert
11	1 x 1.7 m dia. Armco Pipes	15.590	1 x 1.5 m dia. PC	Lesser Culvert
12	1 x 2.3 m dia. Armco Pipes	15.435	1 x 1.5 m dia. PC	Lesser Culvert
12.1	2 x 1.2 m dia. Armco Pipes	14.245	2 x 1.5 m dia. PC	Lesser Culvert
13	1 x 2.5 m dia. Armco Pipe	13.657	1 x 3m dia. PC	Major Culvert

## STORMWATER: CROSS DRAINAGE STRUCTURES

### Existing Cross Drainage Structure (Cont...)

Catchment No.	Existing Drainage Structures	Km	Required Capacity Analysis / Upgrade	New Design BMS Classification
14	1 x 0.6 m dia. Pipe Culvert	13.657	2 x 0.6 m dia. CP	Lesser Culvert
15	2 x 1,15 m dia. Pipe Culvert	12.755	2 x 1.2 m dia. CP	Lesser Culvert
16	2 x 0.85 m dia. Pipe Culvert	12.207	2 x 1.5 m dia. CP	Lesser Culvert
17	2 x 0.85 m dia. Pipe Culvert	12.072	2 x 1.2m dia. CP	Lesser Culvert
18	1 x 0.85 m dia. Pipe Culvert	11.953	2 x 1.05 m dia. CP	Lesser Culvert
19	2 x 1.2 m dia. Armco Pipes	11.580	1 x 2.4 m dia. PC	Major Culvert
20	1 x 2.3 m dia. Armco Pipes	10.224	1 x 2.4 m dia. PC	Major Culvert
21	1 x 1.1 m dia. Concrete Pipe	9.850	2 x 1.5 m dia. PC	Lesser Culvert
22	1 x 2.2 m dia. Armco Pipe	9.020	2 x 2.4 m dia. PC	Major Culvert
23	2 x 5.75 m dia. Armco Pipe	7.838	5 x (4 x 3) m dia. PC	Bridge
24	1 x 0.85 m dia. Pipe Culvert	7.075	2 x 1.5 m dia. CP	Lesser Culvert
25	1 x 1.2 m dia. Pipe Culvert	2.950	2 x 1.2 m dia. CP	Lesser Culvert
26	3 x 0.6 m dia. Pipe Culvert	0.462	2 x 1.5 m dia. PC	Lesser Culvert

## STORMWATER: ROAD SIDEDRAINS

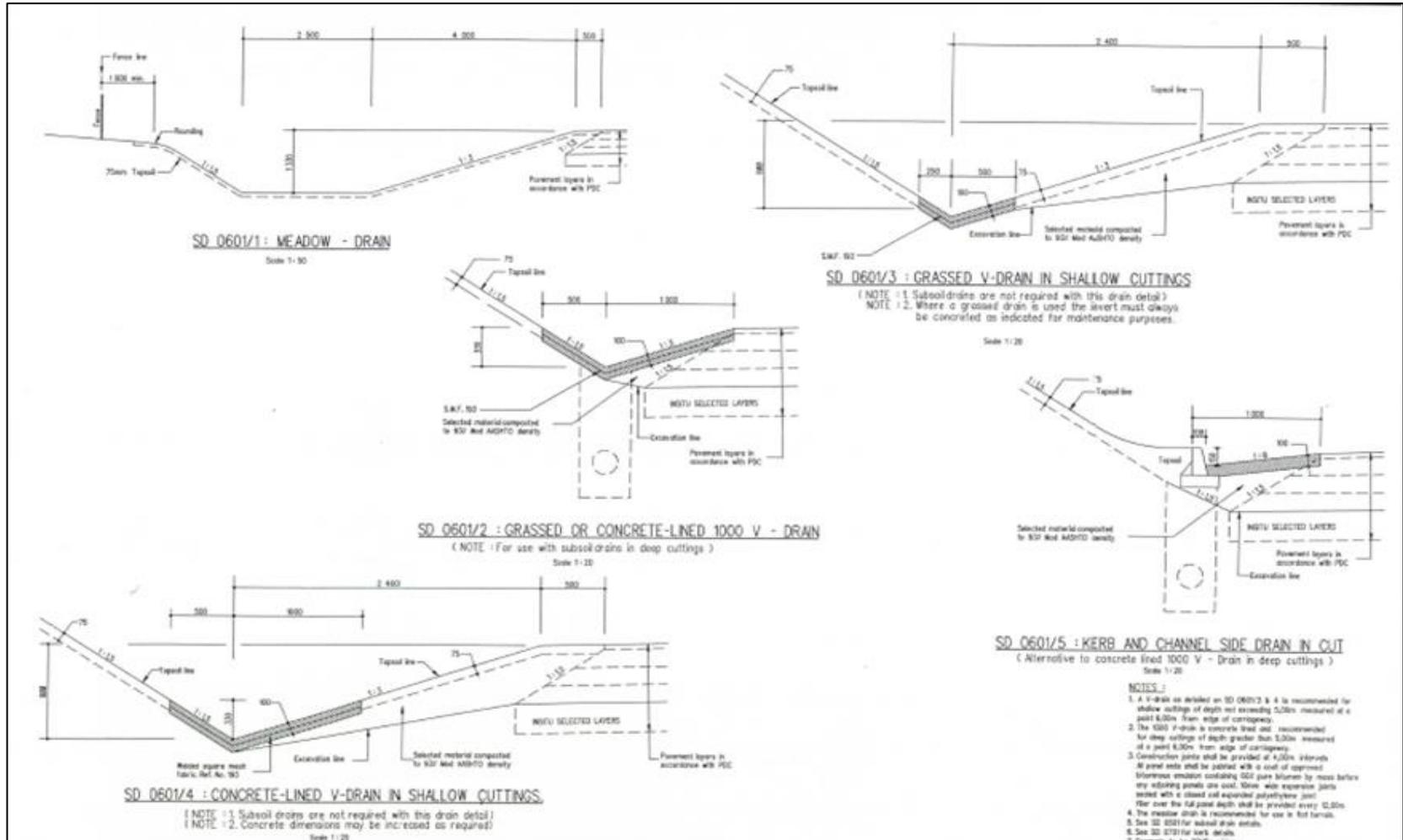
### Road side drainage infrastructure to be implemented along P372:

The drainage infrastructure to be implemented along P372 are as shown in the layout plans and will comprise of the following drainage elements:

- Kerb and channel as per the DOT Standard Detail SD 0601/5 will be constructed along the fill sections from chainage 0 – 1815 m. Kerb inlets to be installed in areas of high surface run off flow depths and on low points.
- The spacing for the between outlets should not exceed:
  - ✓ 200 m for side channels and
  - ✓ 300 m for channels above cutting.
- Concrete lined drains as per the DOT Standard Detail SD0601/2 and SD0601/4. The concrete lined drains as per SD0601/2 will be utilized along the deep cuts See BELOW Figure - SD0601 Extract
- The concrete lined drain as per SD0601/4 will be utilized along the shallow cuts.
- Slope tie ins to the edge of the drains will be 1:15 along the embankment edge and 1:3 along the road edge.
- Concrete lined drains will tie into pipe culverts by either shaping the drain into the culvert inlet or to a grid inlet tying into the crossing pipe and drained towards the low point.
- All outlet structures will have sufficient erosion protection control in the form of reno-mattresses and dissipaters.

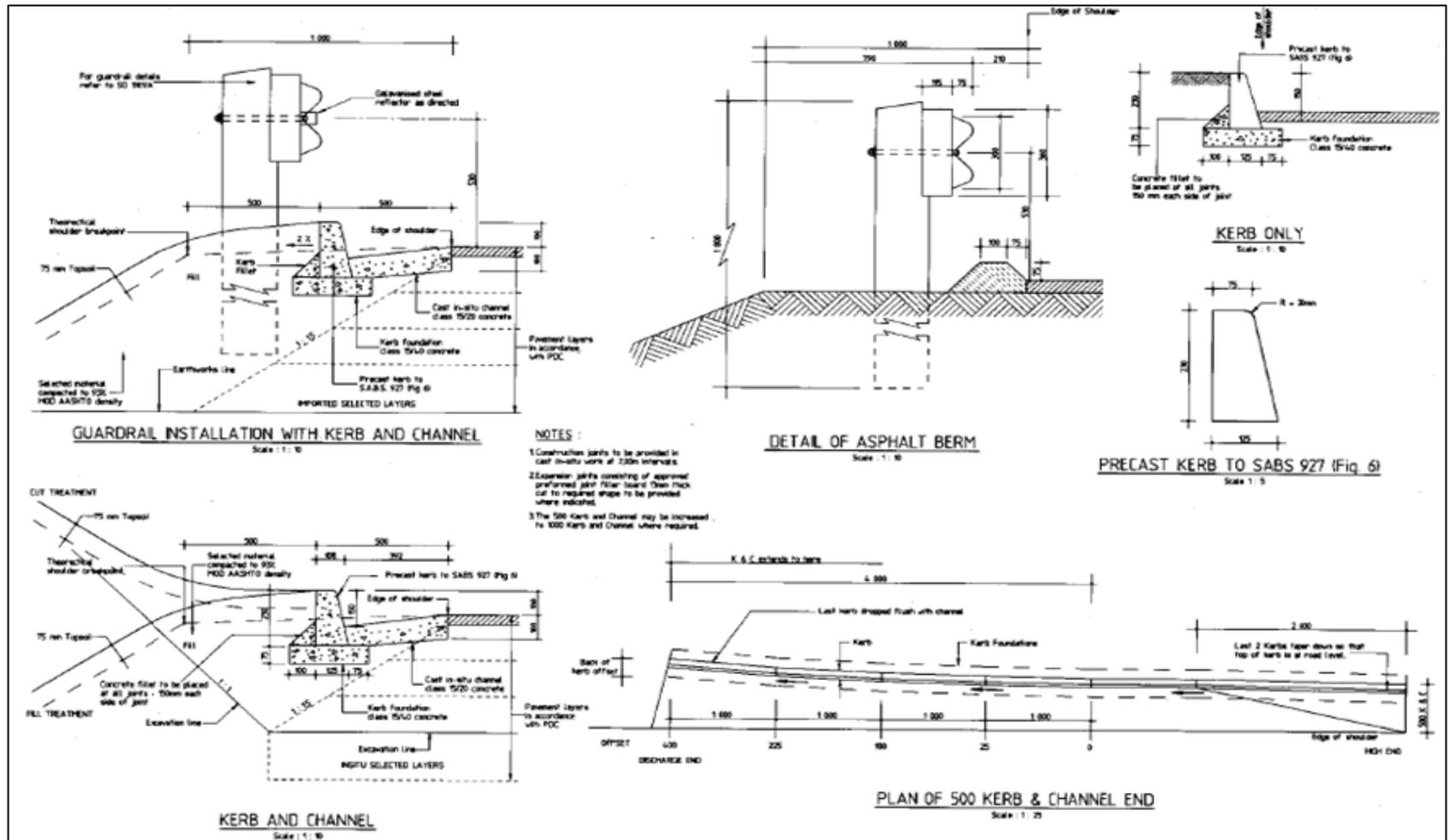
# STORMWATER: ROAD SIDEDRAINS

## Road side drainage infrastructure Standard Extracts:



# STORMWATER: ROAD SIDEDRAINS

## Road side drainage infrastructure Standard Extracts (Cont....):



STORMWATER: GENERAL EXISTING ROAD DRAINAGE PHOTOS



# GEOLOGY, TOPOGRAPHY & CLIMATE

**SANRAL**

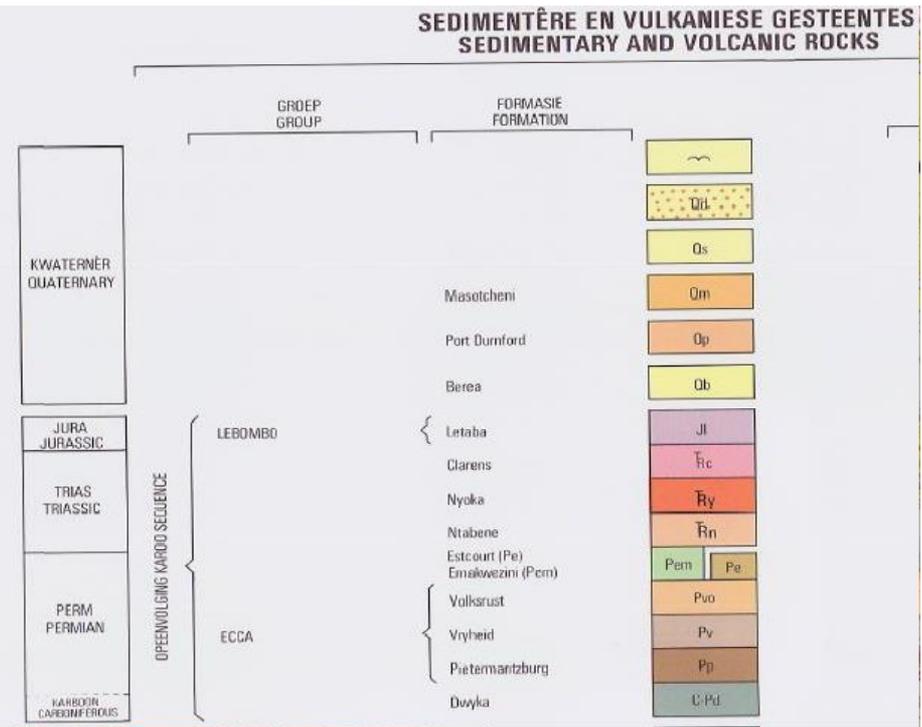
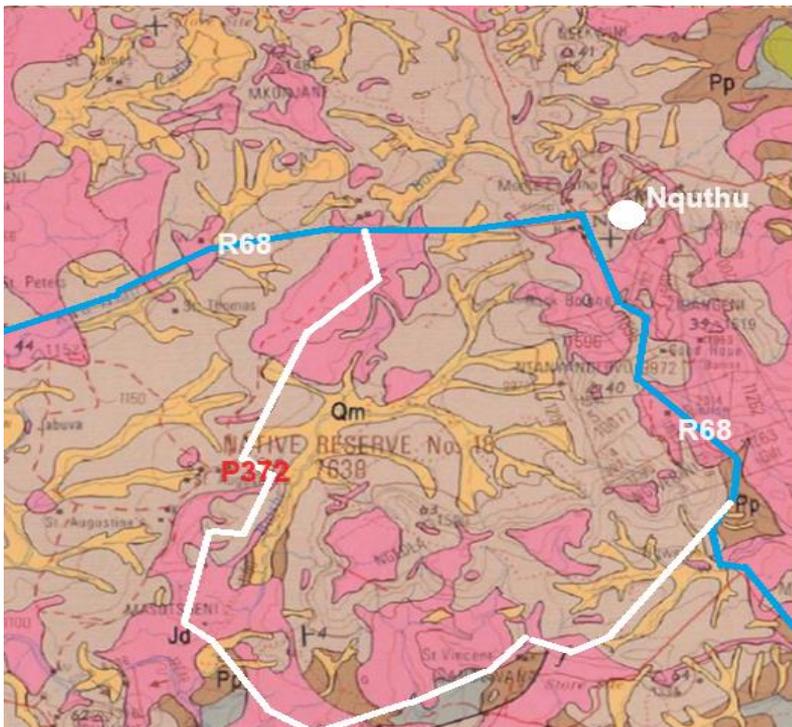


BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## GEOLOGY

According to the 1:250 000 Geological Series as published by the Department of Mineral and Water Affairs, and more specifically the 2830 DUNDEE Map, the length of the P372 under consideration is underlain by the following geological formations.

- Pp Dark grey shale, of the Pietermaritzburg Formation, ECCA Group,
- Pv Medium to coarse grained sandstone, grey micaceous shale and coal of the Vryheid Formation
- Jd Dolerite intrusions of the Jurassic Period
- Qm Boulder beds and yellow brown sandy clay of the Masotcheni Formation, Quaternary Period





# TRAFFIC ACCOMMODATION

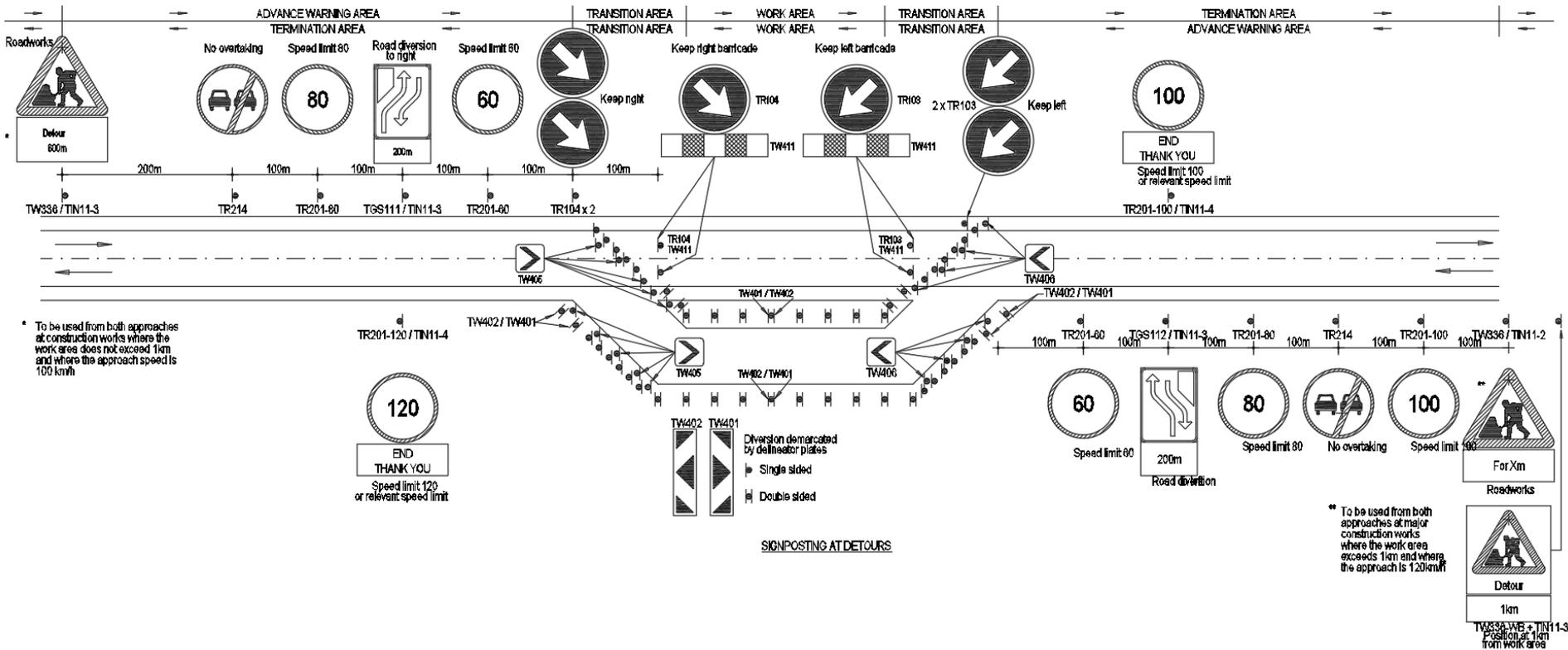
### **Traffic Accommodation: Method of Construction**

The method of construction to be adopted for this project will be construction in half or partial widths and temporary deviations will be adopted as listed below, with the use of STOP/GO systems manned by an adequate number of traffic controllers, flagmen and all appropriate signage as per the South African Roads Traffic Signs Manual (SARTSM) standards:

- Motorized traffic between CH0+000 up to CH23+000 will be accommodated by adopting half width or partial width construction.
- Motorized traffic between CH23+000 up to CH 25+750 will be temporarily deviated through roads D2286, P148 and L1333.
- Motorized traffic between CH25+750 up to CH 27+000 will be temporarily deviated through roads D2286 and L1190.
- Motorized traffic between CH27+000 up to CH31+000 will be accommodated by adopting half width or partial width construction.

# TRAFFIC ACCOMMODATION – TYPICAL DETAIL

## Traffic Accommodation: Typical Detail for Halfwidth Construction



### Traffic Accommodation: Detours

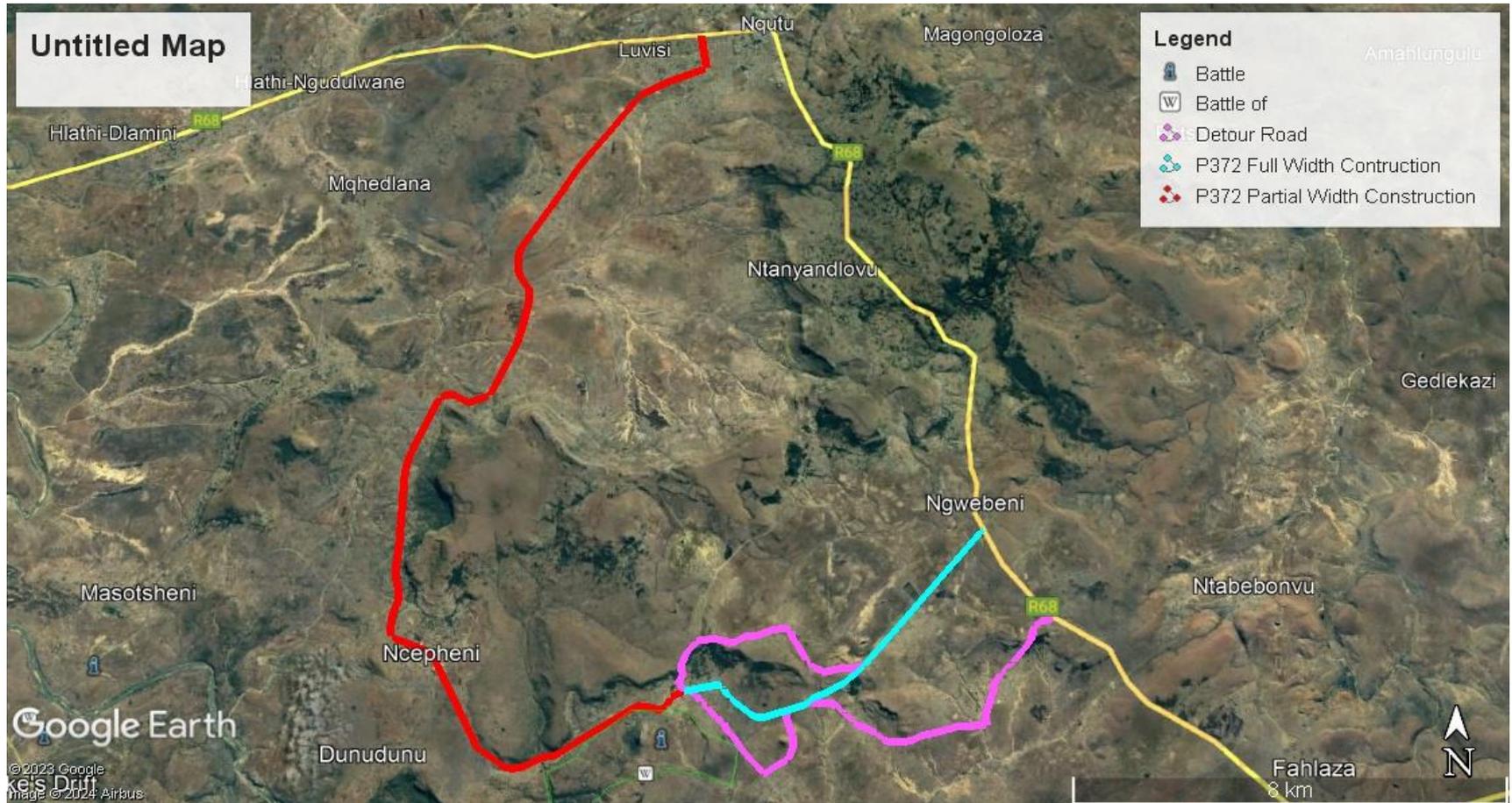
The D2286 detour will give access to the residents of Magaga village and the following Facilities: Isandlwana Battlefield Heritage Site, Isandlwana Visitors Centre and Museum, Isandlwana Lodge, Isandlwana Primary School, Siyanda Secondary School.

P148-L1333 detour provides access to Kwa-Nyoni, Nhloya, Mathutshana village and the following Facilities: Isandlwana Clinic, Nhloya Primary School, Mathutshana Primary School. Temporary access will be provided strictly for Buhlebamangwe Primary school staff, students and the residents surrounding the school. L1190 provides access to Kwa-Nkoko and K-Section village.

It is to be noted that the **final traffic accommodation plan is the responsibility of the Contractor**, and all traffic accommodation is to adhere to specifications as stipulated within the Contract Document and **as per Chapter 1.5 of the COTO specifications**. Failure to adhere to these specifications will result in penalties being implemented on the Contractor.

# TRAFFIC ACCOMMODATION – TRAFFIC ACCOMMODATION SEQUENCE

## Traffic Accommodation: Detours Details





# **ROAD SIGNAGE, ROAD MARKINGS, FENCING & GUARDRAILS**

## ROAD SIGNAGE AND ROAD MARKINGS

### Road Signage

1. Signboards to be chromadek type material and comply with SANS1519 standards.
2. Signage backgrounds to be Class 1 retro-reflective material to colours specified.
3. All borders, symbols and text to be Class 3 retro-reflective material to colours specified.

### Road Markings

1. Road marking to be applied with a Rural Module of 12m. All arrows and other relevant markings to be placed in accordance with this module dimension.
2. Lane Dividing Lines and Painted Island Markings to be constructed by applying:
  - Solvent Base Acrylic White road marking paint with drop-on type retro-reflective glass beads.
3. Edge Markings lines to be constructed by applying:
  - Solvent Base Acrylic Yellow road markings with drop-on type retro-reflective glass beads; and
4. Arrows to be constructed by applying:
  - Solvent Base Acrylic paint reflectorized by mixing in glass beads.

## FENCING AND GUARDRAILS

### **Road Studs**

1. Road studs to be applied at the same 12m module as road markings. Permanent road studs compliant to SANS 1442 (RSA 2, Bi-directional Galvanized Steel, Anchored road stud, White, Red & Yellow)

### **Guardrails**

1. The condition of existing guardrails within the road reserve are in a poor condition with no reflectors.
2. Geometrically the road is being improved with cut and fills, thus new guardrails will need to be constructed in line with the new road geometry.

### **Fencing**

1. Geometrically the road is being improved with cut and fills, thus new guardrails will need to be constructed in line with the new road geometry.
2. No new fencing will be installed in this contract



# EXISTING SERVICES

## LIST OF UTILITY SERVICE PROVIDERS

No.	Service Provider	Contact Person	Telephone	Email	Services Affected (Yes/No)	Comment
1	Dark Fibre Africa	Ockert Smit	082 828 1396	<a href="mailto:ockert.smit@dfafrica.co.za">ockert.smit@dfafrica.co.za</a>	No	services are not affected.
2	Liquid Telecom	Nicholas Leslie	084 777 1031	<a href="mailto:nicholas.Leslie@liquidtelecom.co.za">nicholas.Leslie@liquidtelecom.co.za</a>	No	services are not affected.
3	Eskom: Transmission	Swazi Simelani	076 349 4349	<a href="mailto:simelan@eskom.co.za">simelan@eskom.co.za</a>	No	services are not affected.
4	Eskom: Distribution	Khanyisa Sihlobo	083 535 9952	<a href="mailto:sihlobkp@eskom.co.za">sihlobkp@eskom.co.za</a>	No	services are not affected.
5	FMS	Seekander Mahomed	084 208 2473	<a href="mailto:smahomed@benjimark.co.za">smahomed@benjimark.co.za</a>	No	services are not affected.
6	Telkom SA	Rishi Rampershad	031 459 1768	<a href="mailto:rishir@openseve.co.za">rishir@openseve.co.za</a>	No	services are not affected.
7	Transnet Pipelines	Muzi Zulu	031 361 4549	<a href="mailto:thami.hadebe@transnet.net">thami.hadebe@transnet.net</a>	No	services are not affected.
8	MTN	Sifiso Sithole	083 200 2322	<a href="mailto:sifiso.sithole@mtn.com">sifiso.sithole@mtn.com</a>	No	services are not affected.
9	Link Africa	Shivane Munsamy	072 330 5883	<a href="mailto:wayleaves@linkafrica.co.za">wayleaves@linkafrica.co.za</a>	No	services are not affected.
10	Ceenex Engineering	Lionel Sibala	079 084 3628	<a href="mailto:lionel@ceenex.com">lionel@ceenex.com</a>	No	services are not affected.

## EXISTING SERVICE

### **General**

Existing services along the route require to be temporarily protected by Utility Service Providers prior to works commencing in certain areas – refer to Tender Drawings for details.

Contractor to liaise and co-ordinate works with all affected Utility Service Providers.

# GEOTECH, MATERIALS & TESTS

Geotechnical Investigations  
Factual Information  
(logs, laboratory, and other  
test results)

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## GEOTECHNICAL INVESTIGATIONS

### **SANS 3001 Soil Classifications/Testing for Convention Design**

A conventional geotechnical investigation, with tests based on SANS 3001 testing methods, the existing pavement is found to be of poor quality (G9 or poorer) for road construction, with shale material in all layers of all 5 test pits that were subjected to material classifications. Due to the shale and high PI content, it would have been recommended that the use of the in-situ material in the pavement layers and fill be avoided as far as possible.

Test Pit	Chainage	TRH 14 CLASSIFICATION					
		Layer 1		Layer 2		Layer 3	
		Type	Thickness (mm)	Type	Thickness (mm)	Type	Thickness (mm)
1	0 + 130 (RHS)	<G10	400	<G10	600	N/A	N/A
2	6 + 790 (LHS)	G9	500	N/A	N/A	N/A	N/A
3	8 + 910 (RHS)	G9	1000	N/A	N/A	N/A	N/A
4	14 + 250 (LHS)	G10	150	G9	250	<G10	600
5	27 + 200 (RHS)	G9	1000	N/A	N/A	N/A	N/A

# PAVEMENT TEST PITS EXCAVATED TP1 @0.13km & TP2 @6.790

<b>Client</b>	Madan Singh & Associates	
<b>Project</b>	P372 Islandwana Road Upgrade	
<b>Job Card No.</b>	228881	
<b>Date of Test</b>	2021-05-31	
<b>Field Technician</b>	S.M.	
<b>Position</b>	RHS	
<b>Test Pit Number</b>	TP 1	
<b>Chainage</b>	CH 0+130	
<b>Co - Ordinates</b>	<b>S</b> 28°19'00.41"	
	<b>E</b> 30°43'02.61"	

## FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - ( I = Indicator ; M = MOD AASHTO ; C = CBR )
	●●●●●●●●	400	Slightly moist, dark greyish brown, dense, uniform, silty CLAY and ferricrete pebbles. <span style="float: right;">8xLarge</span>
	●●●●●●●●	1000	Moist, dark reddish brown, medium dense, intact, silty CLAY and ferricrete pebbles, residual. <span style="float: right;">2xLarge</span>

<b>Client</b>	Madan Singh & Associates	
<b>Project</b>	P372 Islandwana Road Upgrade	
<b>Job Card No.</b>	228881	
<b>Date of Test</b>	2021-05-31	
<b>Field Technician</b>	S.M.	
<b>Position</b>	LHS	
<b>Test Pit Number</b>	TP 2	
<b>Chainage</b>	CH 6+790	
<b>Co - Ordinates</b>	<b>S</b> 28°20'43.27"	
	<b>E</b> 30°40'03.03"	

## FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin; Sampling ; Laboratory Testing : - ( I = Indicator ; M = MOD AASHTO ; C = CBR )
		500	Slightly moist, dark brown + dark grey, dense, uniform, crushed rock SHALE. <span style="float: right;">10xLarge</span>

# PAVEMENT TEST PITS EXCAVATED TP3 @8.91km & TP4 @14.250

<b>Client</b>	Madan Singh & Associates	
<b>Project</b>	P372 Islandlwana Road Upgrade	
<b>Job Card No.</b>	228881	
<b>Date of Test</b>	2021-05-31	
<b>Field Technician</b>	S.M.	
<b>Position</b>	RHS	
<b>Test Pit Number</b>	TP 3	
<b>Chainage</b>	CH 8+910	
<b>Co - Ordinates</b>	<b>S</b> 28°20'53.59" <b>E</b> 30°38'57.38"	

## FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin ; Sampling ; Laboratory Testing : - ( I = Indicator ; M = MOD AASHTO ; C = CBR )
			
			
			
			
			
			
			
			
			
			
		1000	

Slightly moist, dark yellowish orange brown, dense , uniform, clayey weathered SANDSTONE + weathered TILLITE, residual.

10xLarge

<b>Client</b>	Madan Singh & Associates	
<b>Project</b>	P372 Islandlwana Road Upgrade	
<b>Job Card No.</b>	228881	
<b>Date of Test</b>	2021-05-31	
<b>Field Technician</b>	S.M.	
<b>Position</b>	LHS	
<b>Test Pit Number</b>	TP 4	
<b>Chainage</b>	CH 14+250	
<b>Co - Ordinates</b>	<b>S</b> 28°20'19.47" <b>E</b> 30°36'41.21"	

## FIELD SOIL SURVEY TEST REPORT

Water Table	Soil Legend	Depth (mm)	DESCRIPTION
			Moisture ; Colour ; Consistency ; Structure ; Soil Type ; Origin ; Sampling ; Laboratory Testing : - ( I = Indicator ; M = MOD AASHTO ; C = CBR )
			
			
			
			
			
			
			
			
			
			
			
		1000	

Slightly moist, light yellowish brown, dense, uniform, silty SAND with shale.

7xLarge

Slightly moist, light yellowish brown, dense, uniform, slightly clayey, silty SAND.

2xLarge

Slightly moist, dark brown, medium dense, intact, silty CLAY, residual.

2xLarge



# PAVEMENT MATERIAL TEST RESULTS

## MATERIALS TEST REPORT

Laboratory Number	1777	1778	1779	1780
Field Number	TP1	TP1	TP2	TP3
Position in field	CH 0 + 130 RHS	CH 0 + 130 RHS	CH 6 + 790 LHS	CH 8 + 910 RHS
Depth (mm)	0 - 400	400 - 1000	0 - 500	0 - 1000
Sample Description	Dk.Gr.Br.Silty Clay + Ferricrete Pebbles	Dk.R.Br.Silty Clay + Ferricrete Pebbles	Dk.Br.Dk.Gr./Shale, C/Rock	Dk.Y.O.Br.Clayey With Sandstone + With Tillite
Stabilising Agent	Natural	Natural	Natural	Natural

### Sieve Analysis ( Wet Preparation ) SANS 3001 - GR 1

100.0 mm	Percentage Passing					
75.0 mm						
63.0 mm						
50.0 mm						
37.5 mm						
28.0 mm				100		
20.0 mm				95	100	
14.0 mm			100	78	88	
5.0 mm			91	86	51	62
2.0 mm			62	64	33	41
0.425 mm		37	50	18	26	
0.075 mm		25	38	11	15	
Grading Modulus	SANS 3001 - PR 5	1.76	1.49	2.38	2.19	

### Mechanical Analysis - SANS 3001 - GR 1

Coarse Sand (%)	40	22	45	37
Coarse - Fine Sand (%)	4	4	8	6
Medium - Fine Sand (%)	6	5	8	9
Fine - Fine Sand (%)	9	9	8	12
Silt and Clay (%)	41	59	32	36

### Atterberg Limits - SANS 3001 - GR 10 - GR 12

Liquid Limit (%)	27	30	25	24
Plasticity Index (%)	13	13	11	12
Linear Shrinkage (%)	6.3	6.5	5.6	5.5
Classification Group Index	A-2-6(0)	A-6(1)	A-2-6(0)	A-2-6(0)
COLTO Classification	# Less than G9	Less than G9	G9	G9
TRH 14 Classification (1985)	# Less than G10	Less than G10	G9	G9

### Maximum Dry Density and Optimum Moisture Content - SANS 3001 - GR 30

Optimum Moisture Content (%)	13.1	14.0	9.9	10.3
Maximum Dry Density (kg/m <sup>3</sup> )	1964	1913	2071	1980

### California Bearing Ratio - SANS 3001 - GR 40

CBR @ 100% Compaction	17	27	8	9
CBR @ 98% Compaction	8	16	8	9
CBR @ 95% Compaction	3	7	7	9
CBR @ 93% Compaction	2	4	7	9
CBR @ 90% Compaction	1	2	6	9
Swell @ 100% Compaction	0.09	0.12	0.19	0.19

## MATERIALS TEST REPORT

Laboratory Number	1781	1782	1783	1784
Field Number	TP4	TP4	TP4	TP5
Position in field	CH 14 + 250 LHS	CH 14 + 250 LHS	CH 14 + 250 LHS	CH 27 + 200 RHS
Depth (mm)	0 - 150	150 - 400	400 - 1000	0 - 1000
Sample Description	LLY.Br.Silty Sand With Shale	LLY.Br.Slightly Clayey Silty Sand	Dk.Br.Silty Clay	Dk.R.Berea Red Sand
Stabilising Agent	Natural	Natural	Natural	Natural

### Sieve Analysis ( Wet Preparation ) SANS 3001 - GR 1

100.0 mm	Percentage Passing					
75.0 mm						
63.0 mm						
50.0 mm						
37.5 mm						
28.0 mm						
20.0 mm			100	100		
14.0 mm			86	88	100	100
5.0 mm			65	69	99	80
2.0 mm			46	41	82	68
0.425 mm		23	25	34	56	
0.075 mm		9	12	17	38	
Grading Modulus	SANS 3001 - PR 5	2.22	2.22	1.67	1.37	

### Mechanical Analysis - SANS 3001 - GR 1

Coarse Sand (%)	49	38	59	17
Coarse - Fine Sand (%)	10	9	6	9
Medium - Fine Sand (%)	12	12	6	9
Fine - Fine Sand (%)	11	12	8	9
Silt and Clay (%)	19	29	21	56

### Atterberg Limits - SANS 3001 - GR 10 - GR 12

Liquid Limit (%)	CBD	19	23	32
Plasticity Index (%)	NP	4	11	14
Linear Shrinkage (%)	0.0	2.5	5.1	6.7
Classification Group Index	A-1-a(0)	A-1-9(0)	A-2-6(0)	A-6(1)
COLTO Classification	# Less than G9	G9	Less than G9	G9
TRH 14 Classification (1985)	# G10	G9	Less than G10	G9

### Maximum Dry Density and Optimum Moisture Content - SANS 3001 - GR 30

Optimum Moisture Content (%)	6.0	9.6	9.6	17.9
Maximum Dry Density (kg/m <sup>3</sup> )	2035	2062	1896	1743

### California Bearing Ratio - SANS 3001 - GR 40

CRR @ 100% Compaction	28	16	6	22
CBR @ 98% Compaction	17	13	5	17
CBR @ 95% Compaction	9	10	4	11
CBR @ 93% Compaction	5	9	3	8
CBR @ 90% Compaction	3	7	2	5
Swell @ 100% Compaction	0.09	0.13	0.63	0.08

## NANO PAVEMENT MATERIAL SAMPLES XRD SCANS

### **Specialized Material Testing for NME**

Following the TRH24 design methods, material samples were sampled and analyzed using XRD scans as per recommended protocol (Jordaan and Steyn, 2019a; Jordaan and Steyn 2019b).

The XRD scans indicated the basic mineralogy of the materials required to prevent failures and enable the Engineers make informed decisions on the suitability of materials for use, together with various available modifiers, in combination with a specific stabilizing agent.

# NANO PAVEMENT MATERIAL SAMPLES XRD SCANS

## G5 Quarry

MDD : 2474 kg/m<sup>3</sup>

OMC : 6.50%

Hygroscopic : -

N.B: Mixed specimens at 7.0%.

FORMULA	UCS		FORMULA	ITS	
	1% GE-NME-(BE + 1,5NS)	1.2% Ge-NME (BE+ 1,5NS)		1% Ge-NME (BE+ 1,5NS)	1.2% Ge-NME (BE+ 1,5NS)
Percentage NME	1.00%	1.20%		1.00%	1.20%
Sample Reference:	G5 Quarry	G5 Quarry	Sample Reference:	G5 Quarry	G5 Quarry
DRY WEIGHT (Kg)	5.483	5.361	DRY WEIGHT (Kg)	5.337	5.225
WET WEIGHT (Kg)	5.615	5.450	WET WEIGHT (Kg)	5.462	5.306
GAIN (Kg)	0.132	0.089	GAIN (Kg)	0.125	0.081
% GAIN	2.41%	1.66%	% GAIN	2.34%	1.55%
Dry Density of Specimen(kg/m <sup>3</sup> )	2376	2323		2312	2264
UCSd (MPa)	2.7	3.0	ITSd (kPa)	140.1	189.1
UCSw (MPa)	1.8	2.1	ITSw (kPa)	115.1	135.2
RCS - UCSw/UCSd (%)	68%	70%	RTS - ITSw/ITSd (%)	82%	71%
RCS (effective) (NME1)	50%	59%	RTS (effective) (NME1)	39%	40%
RCS (effective) (NME2)	61%	84%	RTS (effective) (NME2)	47%	48%
RCS (effective) (NME3)	112%	178%	RTS (effective) (NME3)	59%	60%
RCS (effective) (NME4)	274%	502%	RTS (effective) (NME4)	79%	81%
PENETRATION (mm)	> 20mm	≥ 15mm	ITS/UCS DRY (%)	5.2%	6.3%
UCSd (kN)	48.97	55.14	ITSd (kN)	4.26	5.75
UCSw (kN)	33.44	38.64	ITSw (kN)	3.50	4.11
UCS Factor	0.01824	0.01824	ITS Factor	32.89	32.89
NME classification	< NME 4	NME 4	ITSd (kN)	**< NME 4	NME 4
Class Per	New Age 2020	New Age 2020	ITSw (kN)	New Age 2020	New Age 2020
Max.Dry Density	2474				
Mould volume	0.002308				
Specifications		N.B:**Does not meet minimum ITS requirements.			
NME 1 (wet)	2.5 MPa			240 kPa	
NME 2 (wet)	1.5 MPa			200 kPa	
NME 3 (wet)	1 MPa			160 kPa	
NME 4 (wet)	0.75 MPa			120 kPa	

## NANO PAVEMENT MATERIAL

### Standard specifications for New (3rd-millennium) Modified Emulsion (NME) stabilised materials

Test or Indicator	Material <sup>1</sup>	Material classification			
		NME1	NME2	NME3	NME4
<b>Minimum material requirements before stabilisation and/or treatment (Natural materials)</b>					
Material spec. (minimum) Unstabilised material: Soaked CBR <sup>2</sup> (%) (Mod AASHTO)	NG /(CS)	> 45 <sup>2</sup> (95%) ACV < 30%	> 25 <sup>2</sup> (95%)	> 10 <sup>2</sup> (93%)	> 7 <sup>2</sup> (93%)
Grading Modulus (GM)	NG	> 1.5	> 1.0	-	-
	GS	NA	> 1.0	-	-
Sieve analysis: % < 0.075 mm (P <sub>0.075</sub> )	ALL	< 25 %	< 25 %	< 35 %	< 50 %
XRD scans: - Total sample - 0.075 mm fraction (P <sub>0.075</sub> )	ALL	√	√	√	√
	ALL	√	√	√	√
% Material passing 2 μm (P <sub>0.002</sub> ) (e.g. Clay & Mica & Talc) as a % of Material (with Talc < 10%) (XRD-scans of the material passing the 0.075 mm sieve are used to determine the % clay, mica and talc in the material – In this case P <sub>0.002</sub> = P <sub>0.075</sub> X (P <sub>clay, etc.</sub> in P <sub>0.075</sub> )	NME stabilisation with micro-meter (μm) emulsion particle sizes				
	ALL	< 15 %	< 15 %	< 15 %	< 15 %
	NME stabilisation with emulsion containing micro-scale as well as nano-scale particles (adjusted according to material grading)				
	ALL	NA	< 35 %	< 35 %	< 35 %
NME stabilisation with emulsion containing nano-scale and pico-scale particles (grading adjustments) together with technologies addressing workability of materials on site					
ALL	NA	NA	> 35 %	> 35 %	

## NME STANDARD SPECIFICATION

### Standard specifications for New (3rd-millennium) Modified Emulsion (NME) stabilised materials

Material specifications after stabilisation and/or treatment					
In-situ density to be required after stabilisation and compaction (mod AASHTO) (%) (minimum)	Base	> 100 %	> 100 %	> 98 %	> 97 %
	Sub-base	NA	> 98 %	> 97 %	> 95 %
DCP(DN mm/blow)(Quality control) (stabilised and compacted)		NA	NA	< 2.6	< 3.5
Mod AASHTO density (%) (for laboratory testing)		> 100 %	> 100 %	> 100 %	> 100 %
*UCS <sub>wet</sub> (kPa) (150 mm $\Phi$ Sample)	<b>Design<sup>3</sup></b>	<b>&gt; 2 500</b>	<b>&gt; 1 500</b>	<b>&gt; 1 000</b>	<b>&gt; 750</b>
	<b>Construction<sup>4</sup></b>	<b>&gt; 2 200</b>	<b>&gt; 1 200<sup>5</sup></b>	<b>&gt; 700<sup>5</sup></b>	<b>&gt; 450<sup>5</sup></b>
Retained Compressive Strength (RCS): (UCS <sub>wet</sub> /UCS <sub>dry</sub> ) (%)		> 85	> 75	> 70	> 65
RCS in relation to minimum UCS <sub>wet(criteria)</sub> = RCS <sub>effective</sub> = (RCS x (UCS <sub>wet</sub> /UCS <sub>wet(criteria)</sub> )) (%)		>100	> 90	>85	> 80
*ITS <sub>wet</sub> (kPa) (150 mm $\Phi$ Sample)	<b>Design<sup>3</sup></b>	<b>&gt; 240</b>	<b>&gt; 200</b>	<b>&gt; 160</b>	<b>&gt; 120</b>
	<b>Construction<sup>4</sup></b>	<b>&gt; 220</b>	<b>&gt; 180<sup>5</sup></b>	<b>&gt; 140<sup>5</sup></b>	<b>&gt; 100<sup>5</sup></b>
Retained Tensile strength (RTS): ITS <sub>wet</sub> /ITS <sub>dry</sub> (%)		> 85	> 75	> 70	> 65
RTS in relation to minimum ITS <sub>wet(criteria)</sub> = RTS <sub>effective</sub> = ((RTS x (ITS <sub>wet</sub> /ITS <sub>wet(criteria)</sub> )) (%)		>100	> 90	> 85	> 80

## MATERIALS UTILISATION

### Borrow Materials

- There are no borrow pits identified by the Employer for the works.

### Cut Materials

- Several cuttings and excavations along the route may produce suitable material for **general fill**.
- Several cuttings along the route may produce usable quantities of suitable materials **for the selected layers**. The quantity is expected to be **limited**.

### Spoil Material

- The Contractor must identify and obtain approval for spoil sites.
- **Surplus** excavated material from the road prism must be disposed of in **spoil sites identified by the Contractor**.

## MATERIALS UTILISATION

### Materials Stockpiling and Processing Sites

- The Contractor must identify and obtain all approvals for stockpile and materials processing sites

### Commercial Sourcing

Materials that will be sourced commercially are:

- Concrete - for drainage furniture elements and side walks
- Aggregates - for seal surfacing and concrete
- Bitumen – for priming and seal binder

### Known Source

The closest commercial quarry to P372 is Afrimat Dundee Quarry.

- **The quarry supplies G2, G5 and G7 gravel material, 10 mm and 20 mm road stone, concrete stone, hand stone and crusher sand.**

# CONDITIONS OF CONTRACT (C1)

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## LIST OF CONTRACT DOCUMENTS

**Volume 1:** The Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (1999), published by the Federation Internationale des Ingenieurs-Conseils (FIDIC) which the tenderer shall purchase himself. (See note 1 below).

**Volume 2:** The COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition), issued by the Committee of Transport Officials which the tenderer shall obtain himself. (See Note 2 below).

**Volume 3 (Books 1, 2 and 3):** The Project Document, containing the tender notice, Conditions of Tender, Tender Data, Returnable Schedules, general and particular conditions of contract, project specifications, Pricing Schedule, Form of offer and Project Information is issued by the Employer (see note 3 below). The Employer's Form of Acceptance and any correspondence from the selected tenderer, performance security-demand guarantee, and all addenda issued during the period of tender will also form part of this volume once a successful tenderer has been appointed.

The conditions of tender are the standard conditions of tender as indicated in Book 1.

## LIST OF CONTRACT DOCUMENTS

**Volume 4:** The **road works** drawings.

**Volume 5:** **Materials** investigation and utilisation.

**Volume 6:** **Environmental** Management Plan report.

## C1.1.1/C1.1.2 FORMS OF OFFER AND ACCEPTANCE

## C1.1.3 APPENDIX TO FORM OF ACCEPTANCE - DEVIATIONS

## C1.1.4 OTHER STANDARD FORMS

1. OHS AGREEMENT
2. PERFORMANCE SECURITY - DEMAND GUARANTEE
3. FORM OF APPLICATION FOR A PERMIT TO DEPARTMENT OF LABOUR
4. FORM OF RETENTION MONEY GUARANTEE
5. FORM OF BANKING DETAILS
6. TAX COMPLIANCE PERMISSION DECLARATION
7. APPOINTMENT IN TERMS OF SECTION 4 OF THE MINE HEALTH AND SAFETY ACT
8. EXAMPLE: APPOINTMENT AS MINE OPERATION MANAGER
9. APPOINTMENT OF PRINCIPAL CONTRACTOR: OHS

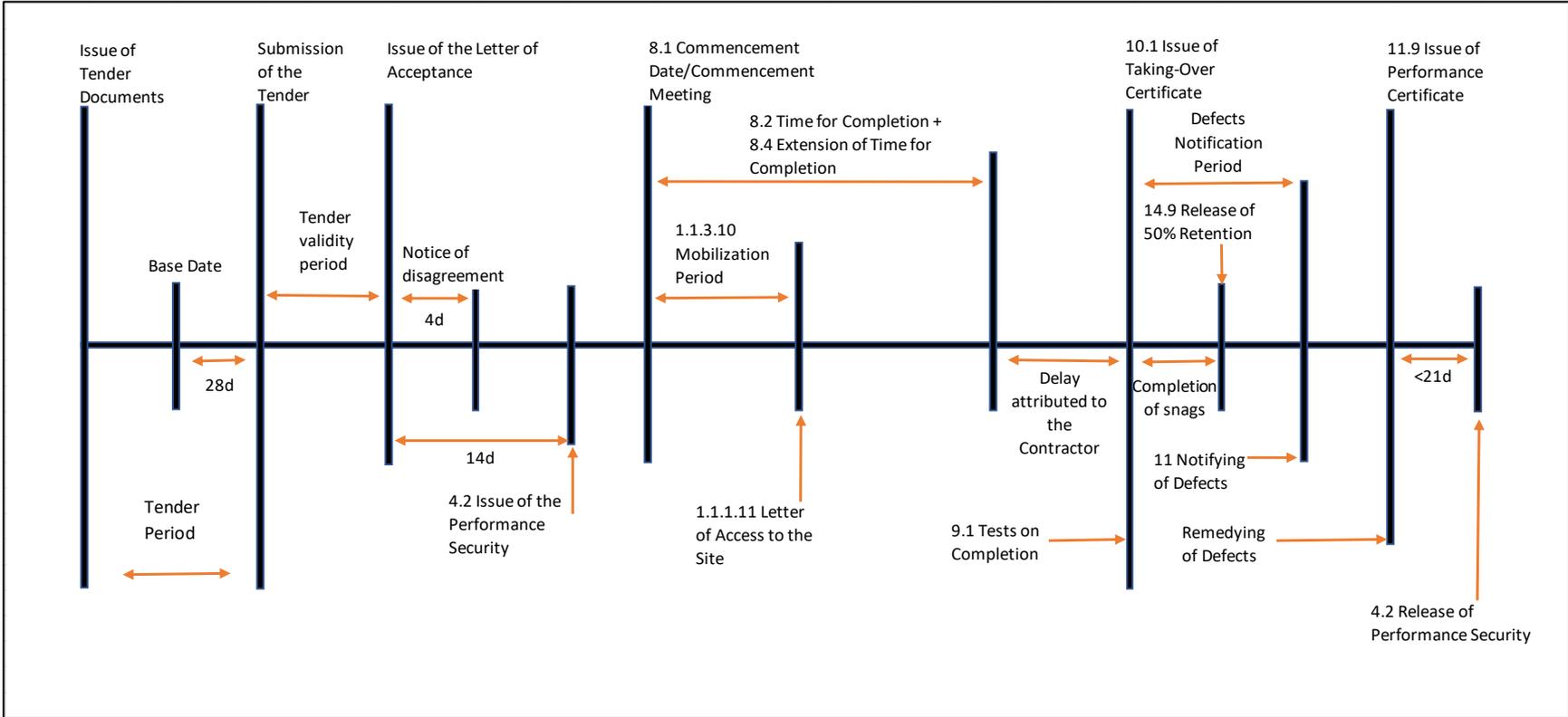
## C1.2.1 CONDITION OF CONTRACT

The Conditions of Contract for Construction (**1999 edition**) published by the Federation Internationale des Ingenieurs-Conseils (**FIDIC**), as amended, shall apply to this contract.

The amendments are those published by FIDIC and reproduced hereafter, together with additional amendments (**particular conditions of contract**) as prescribed by the South African National Roads Agency SOC Limited

# C1.2.1 CONDITION OF CONTRACT

PART A:	GENERAL CONDITIONS - FIDIC AMENDMENTS
	Errata – 30 June 2021
PART B:	PARTICULAR CONDITIONS OF CONTRACT – SANRAL AMENDMENTS



## C1.2.1 CONDITION OF CONTRACT

### PART B - PARTICULAR CONDITIONS OF CONTRACT – SANRAL AMENDMENTS

1.1.3.10	<p><b>“Mobilisation Period”</b> means the period between:</p> <ul style="list-style-type: none"><li>• the Commencement Date and</li><li>• the date of Access to Site</li></ul> <p>(as defined in Clause D1002.01(l) in the Scope of Works (Part C3): Section D1000).</p> <p>The <b>requirements</b> of the Mobilisation Period is specified in the Scope of Works (Part C3): <b>Section D1000</b>: Stakeholder and Community Liaison, and Targeted Labour and Targeted Enterprises Utilisation and Development”..</p>
8.3	<p><b>Programme</b></p> <p>The Contractor shall submit an <b>initial programme</b> for the execution of the Works to the Engineer within <b>28 days after the Commencement Date</b>.</p> <p>This programme shall be prepared using <b>programming software</b> stated in the Specification (if not stated, the programming software acceptable to the Engineer).</p> <p>The Contractor shall also submit a <b>revised programme</b> which accurately reflects the actual progress of the Works, <b>every month</b>.</p>

C1.2.1 CONDITION OF CONTRACT  
PART B - PARTICULAR CONDITIONS OF CONTRACT – SANRAL AMENDMENTS

**14.1(e)**

**The Contract Price**

The Contractor shall submit to the Engineer within 28 days after the Commencement Date **a full breakdown of all rates.**

The Engineer may take account of the breakdown when **evaluating claims** and making Determinations.”

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

1.1.2.2	<p><b>Employer</b> South African National Roads Agency SOC Limited</p> <p>The Employer's address is: The South African National Roads Agency SOC Limited 48 Tambotie Avenue Val De Grace Pretoria, 0184</p>
1.1.2.4	To be announced (TBA)
1.1.3.3	<p><b>Time for Completion</b> <b>24 months</b> maximum (including the contractor's holidays in December and January), of which <b>3 months</b> maximum will be the <b>Mobilisation Period</b></p>
1.1.3.7	<p><b>Defects for notification period</b> 12 calendar months</p>
A1.1.3.10	<p><b>Mobilisation Period</b> <b>3 months</b> maximum commencing on the Commencement Date.</p>

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A4.2	<p><b>Performance Security</b> One Performance Security totaling 10% of the Accepted Contract Amount (excluding VAT) is required.</p>														
4.3	<p><b>Contractor's Representative</b> The <b>Construction Manager</b> shall be; <b>employed full time on the Works</b>, the single point accountability and responsible for the management of the construction works and shall be <b>registered</b> with SACPCMP as PrCM or ECSA as PrEng or PrTechEng with minimum experience of <b>10 years</b>. Where the <b>Contracts Manager</b> will not be employed on the Works full time, his powers will be delegated to the approved construction manager in accordance with Clause 4.3 of the Conditions of Contract. with Clause 4.3 of the Conditions of Contract.</p>														
A4.4	<p><b>Subcontractors and suppliers</b> The % of the contract value that may be sublet is dependent on the minimum Targeted Enterprise subletting targets and shall not exceed the maximum subcontracting allowed % as per the following table:</p>	<table border="1"> <thead> <tr> <th data-bbox="1110 953 1452 1039">Minimum Targeted Enterprise (TE) subletting ( %)</th> <th data-bbox="1452 953 1792 1039">Maximum Subcontracting allowed (%)</th> </tr> </thead> <tbody> <tr> <td data-bbox="1110 1039 1452 1096">≤30</td> <td data-bbox="1452 1039 1792 1096">50</td> </tr> <tr> <td data-bbox="1110 1096 1452 1153">&gt;30 to ≤40</td> <td data-bbox="1452 1096 1792 1153">60</td> </tr> <tr> <td data-bbox="1110 1153 1452 1210">&gt;40 to &lt;45</td> <td data-bbox="1452 1153 1792 1210">65</td> </tr> <tr> <td data-bbox="1110 1210 1452 1268">≥45 to &lt;50</td> <td data-bbox="1452 1210 1792 1268">70</td> </tr> <tr> <td data-bbox="1110 1268 1452 1319">≥50</td> <td data-bbox="1452 1268 1792 1319">80</td> </tr> </tbody> </table>	Minimum Targeted Enterprise (TE) subletting ( %)	Maximum Subcontracting allowed (%)	≤30	50	>30 to ≤40	60	>40 to <45	65	≥45 to <50	70	≥50	80	
Minimum Targeted Enterprise (TE) subletting ( %)	Maximum Subcontracting allowed (%)														
≤30	50														
>30 to ≤40	60														
>40 to <45	65														
≥45 to <50	70														
≥50	80														

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A6.2	<p><b>Rates of Wages and Conditions of Labour</b></p> <p>The Contractor and his Subcontractors shall be <b>registered with the Bargaining Council for the Civil Engineering Industry</b> (Government Notice R.490 – Part III contained in Government Gazette No. 37750) and <b>rates for wages and conditions of labour agreed by the Bargaining Council</b> for the Civil Engineering Industry shall apply to the Contractor and all his Subcontractors except where a specific industry publishes its own wage rates and conditions of labour</p>
A6.5	<p><b>Special non-working hours/days</b></p> <ul style="list-style-type: none"><li>a) All designated <b>public holidays</b> (including all foreseeable statutory declared election days)</li><li>b) The annual shut-down period between <b>December and January</b></li><li>c) Day of State <b>school term closure</b> and day prior to State school term start</li><li>d) Day before <b>Easter Weekend</b></li><li>e) <b>Sundays</b></li><li>f) Between <b>sunset and sunrise</b></li><li>g) <b>Weekend of the commemoration of Battle of Isandlwana and weekend of the Battle of Ncome</b></li></ul>

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A6.9	<p><b>Contractor's Personnel</b></p> <p>The Contractor shall provide the <b>key personnel</b> (as indicated in form C1.2.3 - Appendix to Tender: Contract Data – Information Provided by the Tenderer).</p> <p>Where the key personnel are no longer available to undertake the necessary work after the award of the contract, the Contractor shall within a period of 14 working days <b>replace the key personnel</b> stated in the Appendix to Tender with personnel with <b>equivalent</b> competencies and subject to approval by the Employer. Such approval shall not be unreasonably withheld.</p>
A8.1	<p><b>Commencement Date</b></p> <p>As stated in the <b>Form of Acceptance</b></p>
A8.1	<p><b>Period in which Works must commence</b></p> <p>Not prior to the date of <b>Access to Site</b> and not later than 1 Month after the <b>end of Mobilisation Period</b></p>

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A8.3(b)	<b>Date of access</b> As per clause 2.1 Access to site
A8.3(h)	Special non-working days As per <b>A6.5</b> - Special non-working hours/days
A8.3(l)	<b>Embargo hours and days</b> Embargo period for seal work as defined in Part C3: Scope of Works, clause A10.1.3.2

A8.3(m)	<b>Restricted working conditions</b> <ul style="list-style-type: none"><li data-bbox="343 494 1790 648">i. During the contractor's annual shutdown period between December and January, the contractor shall maintain two-way traffic within the contract limits</li><li data-bbox="343 665 1790 762">ii. For the shutdown period, service provider to ensure there is no longitudinal construction joint in place</li></ul>
A8.4	<b>Extension of time for completion</b> <p data-bbox="343 856 1790 953">An exceptional adverse climatic condition shall be considered where the return period of the climatic condition exceed a return period of 1:10.</p>

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A8.7(a)	<b>Delay damages</b> Delay Damages – R 30 000. /day
A8.7(b)	<b>Other Non-compliance charges:</b> <ul style="list-style-type: none"><li data-bbox="388 534 1845 696">i. Non-compliance to requirements of clause A8.3(m) for Accommodation of traffic restrictions during the contractor’s annual shutdown period between December and January – <b>R50,000-00 /day</b></li><li data-bbox="388 705 1845 919">ii. Accommodation of traffic non-compliance as specified in Part C3 clause A1.5.3.7.<ul style="list-style-type: none"><li data-bbox="498 819 1302 862">- <b>Fixed penalty – R20 000.00/occurrence</b></li><li data-bbox="498 876 1277 919">- <b>Time related penalty – R2000.00/hour</b></li></ul></li><li data-bbox="388 933 1845 1148">iii. Overloading – 2 x Unit Rate of material hauled x overload factor x distance hauled as specified in Part C3 clause A1.7.7. The overload factor is the difference between the Actual loaded vehicle mass and the Gross vehicle mass</li><li data-bbox="388 1162 1649 1205">iv. Contract Participation Targets – Calculated as per D1003.05</li></ul>

A8.7(b)

**Other Non-compliance charges: (Continued)**

- v. Contract Skills Development Goal – Calculated as per D1010.05
- vi. Subcontracting without disclosure or non-compliance to Subcontract agreement requirements – **up to 10% of the Contract Price**
- vii. (i) Layer Irregularities  
Asphalt – quantity/100m x unit rate x payment adjustment factor

A12.3

**Evaluation**

The term “fixed rate item” shall apply to all items of work listed in the Pricing Schedule (Including agreed items of work listed in Works Authorisations)

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A13.5	<p><b>Provisional Sums</b> 5%</p>
13.6	<p><b>Daywork allowances</b> Not required (Dayworks provided for in the pricing schedule)</p>
A13.8	<p><b>Special materials</b> Bitumen binder extracted from petroleum-based products and used on site, including that used in asphalt, irrespective of whether it is produced and/or placed by the contractor or an approved sub-contractor. Only net bitumen content excluding emulsifiers, diluents or modifiers.</p> <p>A supplier of bitumen shall be any company that supplies to a Contractor binder with bitumen as the sole or blended ingredient in the binder.</p>
A13.8	<p>Adjustments for Changes in Cost X = 0.15 Roadworks a = 0.20 b = 0.40 c = 0.25 d = 0.15</p>

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A14.3(c)	<p><b>Retention money:</b></p> <p><b>Percentage</b> 10% of value of completed work</p> <p><b>Limit</b> 5% of the Accepted Contract Amount (Including VAT)</p> <p><b>Guarantee</b> This will be considered provided that the tenderer submits his proposal as an <b>alternative tender</b> and provided that a <b>discount equal</b> to or more than <b>R 14 000 000-00</b> is offered. The discount shall be effected through two equal deductions from IPC 1 and 2</p>
A14.6	<p><b>Minimum amount of interim payment certificate</b> R 3 500 000.00 excluding payments during the Mobilisation Period</p>
18.1	<p><b>Time period for submission of evidence of insurance and copies of insurance</b> As stated in the <b>Form of Acceptance</b></p>
18.3	<p><b>Minimum Insurance cover for Injury to persons and Damage to Property</b> R20 000 000.00</p>

A20.1

**Payment items for calculation of Cost for Extension of Time**

Cost for delays as a result of **Suspension of Work** instructed under Sub-Clause 8.8 [Suspension of Work] shall be based only on the Suspension cost calculated in **pay item C1.3.1.4**, as appropriate **having regard to any other compensation** which may already have been granted in respect of the circumstances concerned.

Cost for delays as a result of approved extensions of time granted in terms of the Conditions of Contract for delays during the **Mobilisation Period** shall be based only on the Mobilisation Period cost calculated in **pay item C1.3.1.3(a)**, as appropriate having regard to any other compensation which may already have been granted in respect of the circumstances concerned.

Cost for delays as a result of approved extensions of time for **inclement weather** granted in terms of amended Sub-Clause 8.4(f) of the Conditions of Contract shall be based only on the applicable payment items for which the **unit of measurement is "month"** for the period of the delay (excluding payment items with negative rates and non-applicable payment items).

## C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER

A20.1	<p><b>Payment items for calculation of Cost for Extension of Time</b></p> <p>Cost for approved extensions of time granted in terms of the <b>Conditions of Contract</b> (other than for delays as a result of Suspension of Work, or delays during the Mobilisation Period, or delays as a result of inclement weather), shall be based on the applicable payment items for which the unit of <b>measurement is “month”</b> for the period of the delay (excluding payment items with negative rates and non-applicable payment items), <b>except in specific circumstances</b> where progress on all activities on the accepted Works programme is prevented and audited statements for proven cost is provided and it is proven that the payment items for which the unit of measurement is “month” does not include for any of the proven costs.</p>
A20.3	<p><b>Appointment (if not agreed) to be made by</b></p> <p>The <b>President of SAICE</b> or a person appointed by the SAICE President</p>

## C1.2.3 APPENDIX TO TENDER: CONTRACT DATA – INFORMATION PROVIDED BY THE TENDERER

# PRICING DATA & PROJECT SPECIFICATIONS

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

## PART C2: PRICING DATA

C2.1	<b>PRICING INSTRUCTIONS</b>
C2.1.1	Measurement and payment shall be in accordance with the relevant provisions of <b>Chapter 1, Section C1.1 of the COTO Standard Specification</b> for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition) or as amended in the Scope of Works
C2.1.6	<p>The prices and rates in the Pricing Schedule are fully inclusive prices for the work described under the items. Such prices and rates cover all costs and expenses that may be required in and for the execution of the work described in accordance with the provisions of the Scope of Work, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract Data, as well as overhead charges and profit.</p> <p>These <b>prices will be used as a basis for assessment of payment for additional work</b> that may have to be carried out. The Contractor shall submit to the Engineer within 28 days after the Commencement Date a <b>full breakdown of all rates</b>. The rates are to be clearly referenced to the relevant pay item numbers, with each rate broken down into its labour, materials, plant, fuel, overhead charges and profit components.</p>

## PART C2: PRICING DATA

C2.1	<b>PRICING INSTRUCTIONS</b>
C2.1.12	<p>The item numbers appearing in the Pricing Schedule refer to the corresponding item numbers in the COTO Standard Specification for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition). Where a standard COTO payitem is amended or a <b>new pay item</b> added, the item number is <b>preceded by the letter “P” in the Pricing Schedule.</b></p>
C2.1.13	<p>The pricing schedules are provided electronically.</p> <p>A printout of the entire completed pricing schedule must be signed and scanned and <b>saved in .pdf format</b>, and an <b>electronic copy of the priced pricing schedule must be saved in Excel format</b> and the <b>printed copy bound</b>. In the event of any discrepancy between the signed .pdf copy, and the electronically submitted copy in Excel format and the printed hard copy, the tender rates in the <b>printed hard copy will govern</b>. The item numbers and description of the printed hard copy document will govern.</p> <p>For all addenda issued relating to the pricing schedule, the item numbers, description and quantities of the issued document will govern.</p>

## PART C2: PRICING DATA

11	SCHEDULE D: TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE  Major amendment on Community Development project
----	--

## PART C3: SCOPE OF WORK

SECTION A1	STANDARD AMENDMENTS ISSUED BY COTO
	<p>The Standard Specifications for Road and Bridge Works for South African Road Authorities (<b>Draft Standard October 2020 edition</b>) prepared by the Committee of Transport Officials, (COTO), as amended, shall apply to this contract.</p> <p>The <b>amendments</b> are those issued by COTO and reproduced in <b>Section A1</b>, together with <b>additional amendments</b> as set out in <b>Section A2</b> and Project specific <b>Specification Data</b> as set out in <b>Section B</b></p>
	As at <b>October 2022 no amendments</b> have been issued.by COTO.

## PART C3: SCOPE OF WORK

SECTION A2	PROJECT SPECIFICATION AMENDMENTS TO THE COTO STANDARD SPECIFICATIONS
	<p>This Section A2 contains <b>amendments to the Standard Specification</b>, including additional clauses, amendment to clauses or deletion of clauses and specifications, required for this particular contract.</p> <p>Where the Standard Specifications allow a choice to be specified in the Contract Documentation or Project Specifications, between alternative materials or methods of construction, and for additional requirements to be specified to suit a particular contract, these selections are not made in this Section A2.</p> <p><b>Details of such alternatives or additional requirements</b> applicable to this contract are contained in <b>Section B: Specification Data</b>.</p> <p>Section B also contains project specific sections for <b>Sections C, D and E</b></p>
	<p>The number of each clause and each payment item in this part of the project specifications follows the <b>numbering format of the standard specifications</b></p>

## PART C3: SCOPE OF WORK

	<b>SANRAL STANDARD SPECIFICATION SECTIONS</b>
SECTION C	ENVIRONMENTAL MANAGEMENT PLAN ( <b>EMP</b> )
SECTION D	<b>STAKEHOLDER AND COMMUNITY</b> LIAISON AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT
SECTION E	REQUIREMENTS OF THE <b>OCCUPATIONAL HEALTH AND SAFETY</b> ACT AND REGULATIONS
SECTION F	<b>HERITAGE SITE REFURBISHMENT</b>

# 7. SITE VISIT

**SANRAL**



**BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS**

# 8. QUESTIONS

**SANRAL**



**BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS**

# 9. CLOSURE

**SANRAL**



BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS

**THANK YOU**

**SANRAL**



**BUILDING SOUTH AFRICA  
THROUGH BETTER ROADS**