

**THE SOUTH AFRICAN NATIONAL ROADS
AGENCY SOC LTD**

CONTRACT: SANRAL N.003-010-2017/3R
(Package C)

SCM REFERENCE NUMBER: NRA 2026/0631

**FOR THE UPGRADE OF NATIONAL ROUTE 3, SECTION 1,
BETWEEN PARADISE VALLEY INTERCHANGE (KM 17.50)
AND MARIANNHILL TOLL PLAZA (KM 26.02)**

CLARIFICATION MEETING

22 JUNE 2026

AGENDA

1. Opening and Introduction
2. Attendance Register
3. First Roll call
4. N2/N3 Projects Introduction
5. Tender document Book1
6. Project & technical Presentation (Book 2 & 3)
7. Questions and answers session
8. Site visit
9. Questions and answers session after Site Visit
10. Second Roll call
11. Closure

1. WELCOME

CONTRACT: N.003-010-2017/3R

**FOR THE UPGRADE OF NATIONAL ROUTE 3, SECTION 1,
BETWEEN PARADISE VALLEY INTERCHANGE (KM 17.50) AND
MARIANNHILL TOLL PLAZA (KM 26.02)**

**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

**All Queries relating to issues arising from these documents may be
addressed:**

Procurement Office

E-Mail: ProcurementER3@sanral.co.za

INTRODUCTION-COMMUNICATION PROTOCOL

**NOTE: THERE SHALL NOT BE ANY CORRESPONDENCE BETWEEN TENDERERS
AND ANY MEMBERS OF THE SANRAL AND ENGINEERS TEAM DURING THE
TENDER PERIOD.**

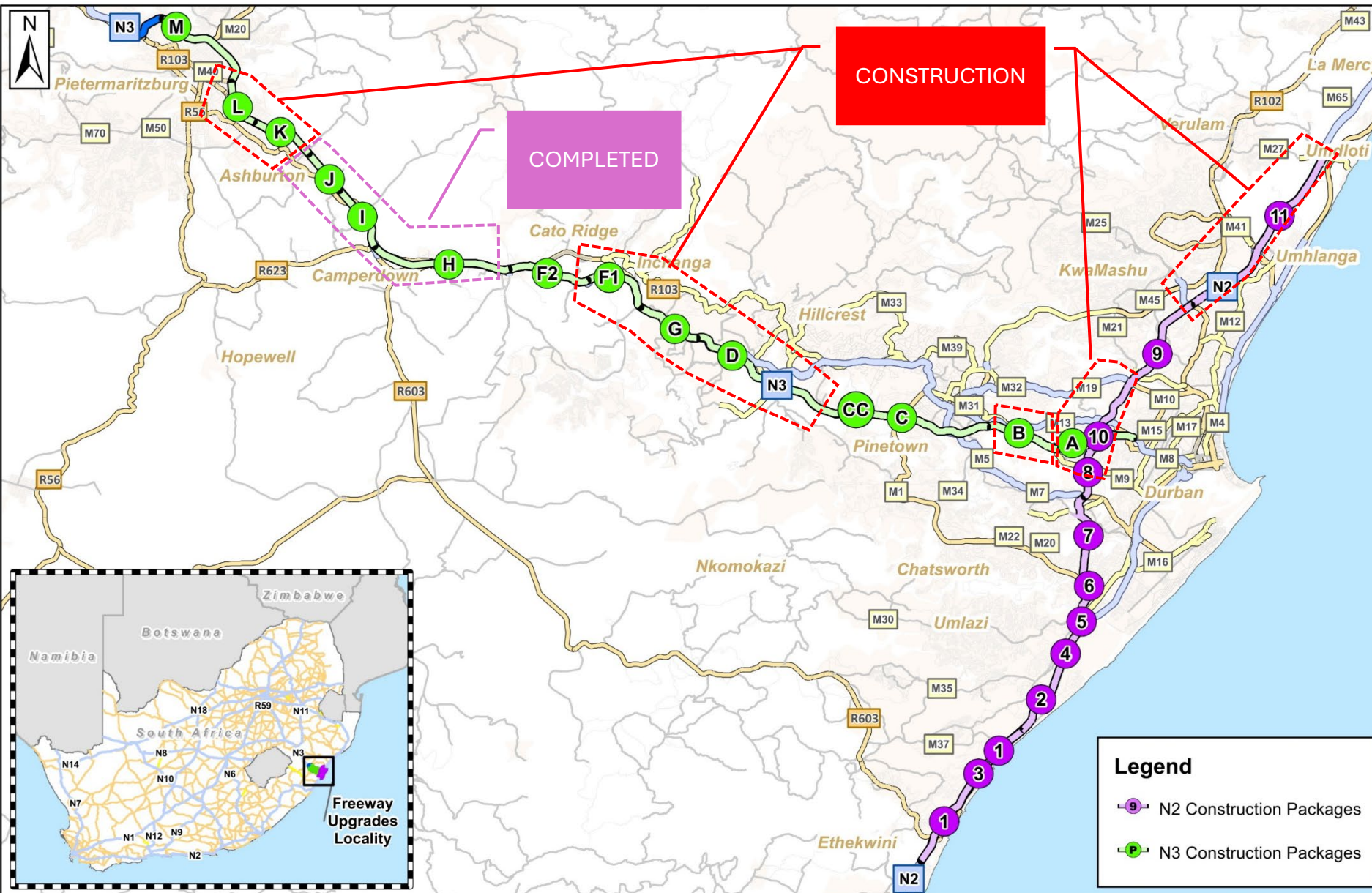
ALL COMMUNICATION TO BE THROUGH: ProcurementER3@sanral.co.za

2. IMPORTANT DATES

IMPORTANT TENDER DATES

COMPULSORY PHYSICAL CLARIFICATION MEETING (IN-PERSON)	22 JUNE 2026 TIME: 10H00
REQUESTS FOR CLARIFICATIONS DUE DATE	14 JULY 2026
TENDER CLOSING DATE	24 JULY 2026 CLOSING TIME: 12H00

3. OVERVIEW OF THE N2/N3 PROJECTS



N2 Upgrades:

- **55km** of upgrades from Lovu River on the South Coast, to uMdloti on the North Coast.
- 11 work packages in total estimated value of **R19 Billion**
- 2 Packages currently in construction - **R6,6 Billion**

N3 Upgrades:

- **80km** of upgrades from Pietermaritzburg to Durban
- 15 work packages in total with estimated value of **R33 Billion**
- 6 packages currently in construction – **R22,8 Billion**
- 3 packages completed – **R6,8 Billion**

N3 PROGRAM STATUS- DURBAN TO PIETERMARITZBURG

PACKAGE	DESCRIPTION	ENVISAGED CONSTRUCTION START (After 3 months mobilisation)	ENVISAGED CONSTRUCTION COMPLETION	Duration (months)	Actual Construction Start date	Contractor	Status
B	Westville Viaduct to paradise Valley	October 2023	October 2027	51	Mobilisation 30 June to end September 2023	Aqua/EXR JV	Construction-62%
C	Paradise Valley to Marianhill Toll Plaza	January 2027	January 2031	48	-	-	Re-tender to be advertised before end of May 2026
CC	Upgrade to Marianhill Toll Plaza	June 2027	December 2029	30	-	-	Design
D	Marianhill Toll Plaza to Key Ridge	April 2026	January 2031	60	-	-	Construction-1%
F1	Hammarsdale to Uitkoms	July 2025	January 2029	45	-	-	Construction-6%
F2	Uitkoms to Cato Ridge	November 2026	February 2028	36	-	-	Design
G	Key Ridge to Hammarsdale	September 2023	January 2027	51	Mobilisation 18 May to 17 August 2023	WBHO	Construction -59%
H	Cato Ridge to Dardanelle I/C	January 2021	January 2025	50	April 2021	Raubex	Completed
I	Dardenelles I/C into Lynnfield park	January 2021	August 2024	45	January 2021	Raubex	Completed
J	Lynnfield park to Ashburton I/C	January 2021	May 2024	40	April 2021	Rumdel Cape	Completed
K	Ashburton I/C to Murray Road	January 2023	January 2027	48	March 2023	Base Major/CSC	Construction – 56%
L	Murray Road to New England Rd	September 2023	February 2027	44	Mobilisation period 20 June 2023 to 18 September 2023	Grinaker LTA/Teichman JV	Construction-63%
M	New England Rd I/C to Twickenham Road	January 2028	January 2032	60	-	-	Design
AB	Crushing contract to supply package H,I,J,K,L	January 2021	January 2027	72	January 2022	T&BB	Contract Terminated
	Construction and supply of Temporary Barriers	January 2021	July 2023	27	January 2021	Martin & East	Completed
N	PMB Ring road (N3 re-alignment)	January 2029	January 2033	48	-	-	Prelim design

N2 PROGRAM STATUS- LOVU RIVER TO UMDLOTI RIVER



PACKAGE	DESCRIPTION	ENVISAGED CONSTRUCTION START (After 3 months mobilisation)	ENVISAGED CONSTRUCTION COMPLETION	Duration (months)	Actual Construction Start date	Contractor	Status
1	DICAL: Lovu and Moss Kolnick 24 km 12 to km 21 – Package 2	Sept 2028	August 2031	36	-	-	Design (95%)
2	DICAL: Moss Kolnick to Isipingo (Umlaas canal) incl. Isipingo I/C -Package 1	March 2028	September 2031	42	-	-	On hold due to budget constraints.
3	DICIC: Adams Road Interchange	Future	Unknown	36	-	-	Design complete
4	DICIC: Isipingo Interchange	Included under Package 2	Included under Package 2	n/a	-	-	On hold due to budget constraints.
5	DICAL: Isipingo to Higginson Interchange	June 2028	May 2031	36	-	-	Draft tender document
6	DICIC: Higginson Interchange	Nov 2028	October 2031	36	-	-	Concept Design
7	DICAL: Higginson Interchange to Edwin Swales (Section 25 km 6.10 to km 12.80)	June 2028	May 2031	36	-	-	Draft tender document
8	DICAL: Edwin Swales IC (km 12.3) to south of EB Cloete IC (km 16.0)	June 2027	May 2031	48	-	-	On hold due to budget constraints.
9	DICAL: Umgeni Interchange (km 20.72) to south of the Mount Edgecombe Interchange (km 30.45)	June 2028	May 2032	48	-	-	Detail design
10	EB Cloete (including portion of N2 North and N3 West) N2 Section 25 between Wiggins Rd (KM 16.0) to Umgeni Rd I/C (km 20.7) and N3 Section 1 between Sherwood I/C (KM 8.4) to Westville viaduct (km 11.8)	May 2023	September 2028	63	May 2023	Base Major CSC JV	Construction – 43%
11	DICAL: KwaMashu I/C (km -2.0) to Umdloti I/C (km 11.6)	Nov 2021	November 2026	40	April 2022	Raubex Construction	Construction -92%
-	Malaba Hills Drainage canal	Oct 2026	August 2027	10	-	-	Alternative design is current being considered.

3. OVERVIEW OF THE N3 PROJECTS

Possible Sub-Contracting work activities available on N3 Packages for black owned SMMEs

- Security
- Supply of construction materials
- Provision of traffic control facilities,
- Management of traffic control facilities and traffic safety as part of the accommodation of traffic
- Erection and maintenance of the contractor's camp site
- Removal of trees
- Construction of concrete paving, kerbs and channels
- Manufacture of pre-cast concrete elements
- Construction of concrete walkways
- Patching and repairing edge breaks
- Finishing off cut and fill slopes
- Construction of minor concrete drainage elements such as side drains, catch pits, manholes, etc.
- Construction of side drains
- Installation of storm water pipes
- Guardrails
- Fencing
- Road signs
- Road markings

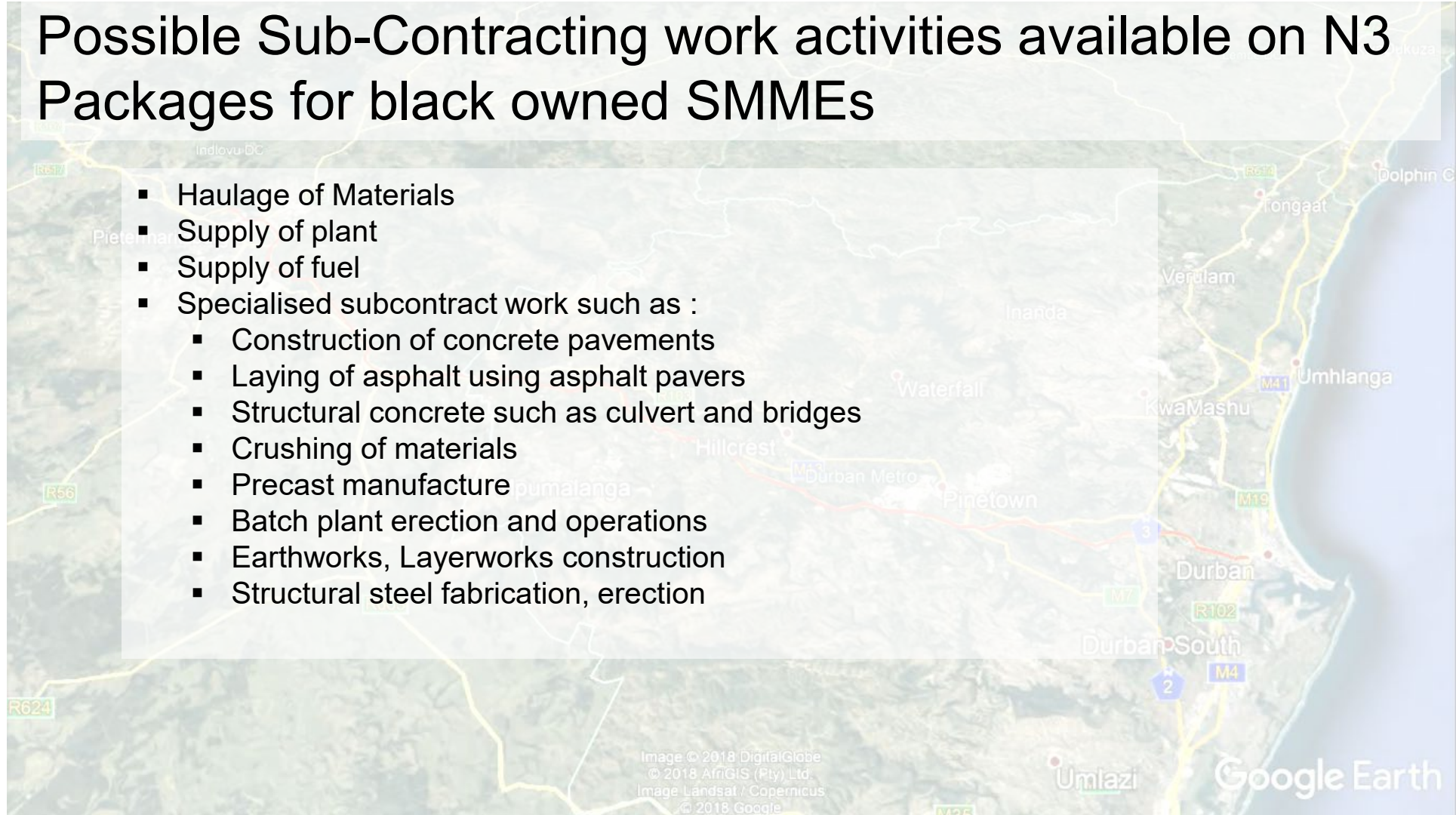
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Google Earth

3. OVERVIEW OF THE N3 PROJECTS

Possible Sub-Contracting work activities available on N3 Packages for black owned SMMEs

- Haulage of Materials
- Supply of plant
- Supply of fuel
- Specialised subcontract work such as :
 - Construction of concrete pavements
 - Laying of asphalt using asphalt pavers
 - Structural concrete such as culvert and bridges
 - Crushing of materials
 - Precast manufacture
 - Batch plant erection and operations
 - Earthworks, Layerworks construction
 - Structural steel fabrication, erection



PART T1: TENDERING PROCEDURES

BOOK 1 OF VOLUME 3

T1.2 TENDER DATA

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).

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

Each item of data given below is cross-referenced to the clause marked “C” in the above-mentioned Standard Conditions of Tender.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.1 Eligibility

C.2.1.1 - Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

C.2.1.2 - Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

Joint Ventures are eligible to submit tenders provided that:

- Every member of the joint venture is registered with the CIDB;
- The lead partner to be in the correct CIDB class e.g. CE and have a grading not more than 1 level lower than required based on the tender price. The combined calculated grading to be equal or higher than required grading as per tender amount.

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.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.6 - Acknowledge addenda

Failure to apply instructions contained in addenda **may render a tenderer's offer non-responsive** in terms of condition of tender C.3.8.

C.2.7 - Clarification meeting

A compulsory physical clarification briefing meeting will be held on 22 June 2026 at 10H00 at Premier Splendid Inn, 65 Kings Road, Pinetown, Durban. A request to attend the clarification briefing meeting must be sent to ProcurementER3@sanral.co.za the contact person listed on this Tender Notice.

The onus rests with the tenderer to ensure that the representative reading the clarification briefing session is appropriately qualified to understand all directives and clarifications given in the session.

C.2.8 - Seek clarification

Request clarifications at least eight (8) working days before the closing date.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.11 - Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the employer, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

C.2.13.2 - Submitting a tender offer

The tenderer is required to submit all returnable schedule as printed copy and in .pdf format and excel (saved on a flash drive).

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.13.3 - Only the following needs to be submitted:

a. Volume 3 – Printed copy and flash drive

The following information has to be submitted in printed hard copy and flash drive:

- The 1st file in pdf format which contains:
 - Scanned copy of Form of Offer (pdf)
 - Scanned copies of all returnable schedules and attachments (pdf)
 - Scanned copy of Pricing Schedule (pdf)
- A 2nd file in Excel format submitted in printed hard copy and flash drive:
 - Completed pricing schedule

b. Alternative offers will not be considered.

In the event of any discrepancy between the contents of the electronically priced schedule and the electronically provided pricing schedule in pdf format, the contents of the provided pdf format shall be taken as the valid contents. For the information provided by the tenderer as part of his submission, e.g. rates, the signed print-out shall be taken as the valid submission.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.13.7 - Place and seal the printed and bound hard copy and flash drive in an envelope clearly marked “TENDER” and bearing the Employer’s name, the contract number and description, the tenderer’s authorised representative’s name, the tenderer’s postal address and contact telephone numbers.

C.2.14 - Information and data to be completed in all respects

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.

Provided that the omission is not a material omission, the Employer reserves the right to condone the omission and may request the tenderer to submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the tender related to documentation requirements.

C.2.15 - Closing time

The closing time for submission of tender offers is **Friday, 12H00 on the 24 July 2026**

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.15.1 - Submission in tender box

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

Location of tender box: Reception area

Physical address: 58 Van Eck Place, Mkondeni, Pietermaritzburg, 3201

Identification details: Place the tender offer and flash drive in a package marked with the tenderer's company name, the project number and description:

CONTRACT NUMBER: SANRAL N.003-010-2027/3R

DESCRIPTION: THE UPGRADE OF NATIONAL ROUTE 3 SECTION 1 BETWEEN PARADISE VALLEY (KM 17.60) AND MARIANNHILL TOLL PLAZA (KM 26.02).

Tenders must be submitted during hours (09:00 to 16:00) Monday to Friday at the Employer's address.

It is in the tenderer's interest to ensure that the delivery of the tender offer is recorded in the Employer's tenders received register and deposited in the tender box.

It is the tenderer's responsibility to ensure that the tender is submitted before tender closing date and time. SANRAL will not take responsibility for late submissions caused by system errors and or busy networks.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.2.16 - Tender offer validity

Hold the tender offer(s) valid for twelve (12) weeks for acceptance by the employer at any time during the validity period stated after the closing time stated in the tender data.

C.2.17 - Clarification of tender offer after submission

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

C.3.1 - Respond to requests from the tenderer

The Employer shall respond to clarifications received up to 8 (eight) working days before tender closing date.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.2 - Issue Addenda

The employer shall issue addenda until 10 (ten) working days before tender closing date.

The Employer shall respond to any clarifications from the tenderers emanating from the addenda until 3 (three) working days before tender closing date.

C.3.4 - Opening of tender submissions

There will be a public opening of tenders after tender closing at the location of Tender box. Tender opening register will be made available to all bidders who submitted a bid.

The time for opening of the tender offers via live streaming or at KwaZulu Natal Provincial offices are:

Time: 12h00 on 24 July 2026

Location: 58 Van Eck Place, Mkondeni, Pietermaritzburg, 3201 or via the following link:

MS Teams link: <https://teams.microsoft.com/meet/327334934981469?p=rawkCr3BfEzXimVR6q>

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.8 - Test for responsiveness

A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification.

A material deviation or qualification is one which, in the Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified. Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.9 Arithmetical errors, omissions, discrepancies and imbalanced unit rates

- C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a **discrepancy between the amounts in figures and the amount in words**, the amount in words shall govern.
- C.3.9.2 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with C.3.11 for:
- a) the gross misplacement of the decimal point in any unit rate;
 - b) omissions made in completing the pricing schedule or bills of quantities; or
 - c) arithmetic errors in:
 - (i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - (ii) the summation of the prices.
 - (d) imbalanced unit rates.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.9.3 - Notify the 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 of prices.

C.3.9.4 - Where the tenderer elects to confirm the correction of the errors, omissions or imbalanced rates, the tender offer shall be corrected as follows:

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

4. TENDERING PROCEDURES

T1.2 TENDER DATA

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.

If the Form of Offer is submitted but the Pricing Schedule is omitted, where rate only items are applicable; or If a signed Form of Offer is submitted with an incomplete pricing schedule (no summary to tender) that does not balance back to the Form of Offer and the Pricing schedule is incomplete; or If a signed Form of Offer is submitted with an incomplete pricing schedule that does not balance back to the Form of Offer and only summary of Pricing Schedule submitted; then the rates cannot be evaluated and the tender shall be declared non-responsive

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.11- Evaluation of tender offers

Stage 1 Test for responsiveness as outlined by the clause C3.8.

Stage 2 Mandatory Administration Criteria

1. Completed in full and signed Form of offer.
2. Bidder is registered with CSD.
3. Bidder has Valid Letter of Good Standing issued in accordance with the Compensation for Occupational Injuries and Diseases Act (COIDA).
4. Attendance of compulsory briefing session.
5. Only those tenderers who are registered with the CIDB in a contractor grading designation equal to 9CE. (Emerging Contractors will not be acceptable).

In case of a JV, a Each member must be registered with CIDB. The lead partner to be in the correct CIDB class e.g. CE and have a grading not more than 1 level lower than required based on the tender price. The combined calculated grading to be equal or higher than required grading as per tender amount.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

6. **1X Contract Manager** that has an active professional registration with the **Engineering Council of South Africa** as Professional Engineer or Professional Technologist or with **SACPCMP** as Professional Construction Manager or Professional Construction Project Manager with minimum experience of 10 years
7. **1X Construction Manager** that has an active professional registration with the **Engineering Council of South Africa** as Professional Engineer or Professional Technologist or with **SACPCMP** as Professional Construction Manager with minimum experience of 10 years
8. **1X Construction Health and Safety Officer (CHSO)** that has an active professional registration as CHSO with **SACPCMP**
9. **1x Dedicated Environmental Officer (DEO)** that has a National Diploma in Environmental Management or Natural Sciences (NQF 6) or higher with minimum experience of 2 years.
10. **1x Targeted Enterprise Construction Manager (TECM)** that has a National Diploma in Management of Civil Engineering Construction Processes (NQF 6) or higher with minimum experience of 5 years

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Stage 3 Local Content and Production

Bidders must complete and return SBD 6.2 (Declaration of Local Content and Production form) on the closing date and time of this bid. SANRAL may disqualify any bidder which has not submitted the SBD 6.2 and the supporting Annexures (C, D and E) forms on the closing date and time.

Stage 4 Functionality Evaluation Criteria

Functionality is the terminology used to define the technical ability of the Tenderer, based on experience to deliver the required product in accordance with the specialized quality, reliability, and functionality. The functionality evaluation will be conducted by the Evaluation Committee which comprises of various skilled and experienced members from diverse professional disciplines. The evaluation process will be based on functionality criteria. The criteria will be as follows:

Points allocated for Functionality shall be evaluated in accordance with the criteria as listed below. Total Quality points allocated shall be **100**. Tenderer must score minimum score per each sub-criterion and an overall minimum threshold of **75** points out of **100** is required to be achieved for the tender to be eligible for further evaluation.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Bidders shall submit a list of projects on Form B1 **relevant / similar** to this tender Scope of Work which have been successfully completed within the last 15 years. This must be accompanied by Formal Client Reference Letters with contactable references or Certificates of Practical Completion with contactable references indicating that the listed projects were executed successfully.

For key personnel experience and qualifications, bidders shall submit a list of projects on **Form B4 relevant / similar to this tender Scope of Work** which have been successfully completed by the proposed key personnel. This must be accompanied by a comprehensive CV for each key person, detailing the experience acquired with contactable references and relevant qualifications.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Evaluation Criteria	Minimum points	Maximum points
1.Relevant Company Project Experience Maximum of 4 projects will be evaluated (at least one project shall be greater than R350 Million) (i)If project has a construction value of R0 and up to R100 million (inclusive of VAT) = [0] (ii)If project has a construction value of greater than R100 Million and up to R200 Million (Inclusive of VAT) = [3] (iii)If project has a construction value of greater than R200 Million and up to R350 Million (Inclusive of VAT) = [5] (iv)If project has a construction value of greater than R350 Million (inclusive of VAT) = [7]	20	28

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Key Personnel Maximum of 4 projects will be evaluated Contract Manager Relevant Project Experience (at least one project shall be greater than R350 Million) (i) If project has a construction value of R0 and up to R100 million (inclusive of VAT) = [0] (ii) If project has a construction value of greater than R100 Million and up to R200 Million (Inclusive of VAT) = [1] (iii) If project has a construction value of greater than R200 Million and up to R350 Million (Inclusive of VAT) = [2] (iv) If project has a construction value of greater than R350 Million (inclusive of VAT) = [4]	11	18
Contract Manager Qualification (i) Minimum National Diploma in Civil Engineering /NQF 6 in Civil Engineering = [1] (ii) NQF7 or higher degree = [2]		

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Construction Manager (Site Agent) Relevant Project Experience Maximum of 4 projects will be evaluated (at least one project shall be greater than R350 million) ((i) If project has a construction value of R0 and up to R100 million (inclusive of VAT) = [0] ((ii) If project has a construction value of greater than R100 Million and up to R200 Million (Inclusive of VAT) = [1]	11	18
((iii) If project has a construction value of greater than R200 Million and up to R350 Million (Inclusive of VAT) = [2] ((iv) If project has a construction value of greater than R350 Million (inclusive of VAT) = [4]		
Construction Manager (Site Agent) Qualification ((i)Minimum National Diploma in Civil Engineering/NQF 6 in Civil Engineering = [1] ((ii)NQF7 or higher degree = [2]		

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Construction Health and Safety Officer (CHSO) Relevant Project Experience Maximum of 2 projects will be evaluated (at least one project shall be greater than R350 Million) (i) If project has a construction value of R0 and up to R175 million (inclusive of VAT) = [0] (ii) If project has a construction value of greater than R175 Million and up to R350 Million (Inclusive of VAT) = [2] iii) If project has a construction value of greater than R350 Million (inclusive of VAT) = [5]	6	12
Construction Health and Safety Officer (CHSO) Qualification (i) Programme/certification in Health and Safety Management NQF 3 -5 = [1] (ii) Health and Safety National Diploma/ NQF6 or higher = [2]		

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Dedicated Environmental Officer (DEO) Relevant Project Experience Maximum of 2 projects will be evaluated (at least one project shall be greater than 350 Million) ((i) If project has a construction value of R0 and up to R175 million (inclusive of VAT) = [0] ((ii) If project has a construction value of greater than R175 Million and up to R350 Million (Inclusive of VAT) = [2] iii) If project has a construction value of greater than R350 Million (inclusive of VAT) = [5]	6	12
Designated Environmental Officer (DEO) Qualification (i)NQF 6 in Environmental Management or Natural Sciences or equivalent = [1] (ii) Higher than NQF6 = [2]		

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Targeted Enterprise Construction Manager (TECM) Relevant Project Experience	6	12
Maximum of 2 projects will be evaluated (at least one project shall be greater than 350 Million) (i) If project has a construction value of R0 and up to R175 million (inclusive of VAT) = [0] (ii) If project has a construction value of greater than R175 Million and up to R350 Million (Inclusive of VAT) = [2] (iii) If project has a construction value of greater than R350 Million (inclusive of VAT) = [5]		
Targeted Enterprise Construction Manager (TECM) Qualification (i) Minimum National Diploma in Civil Engineering/NQF 6 in Civil Engineering = [1] (ii) NQF7 or higher degree = [2]		

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Stage 5 Price and Preference

This is the final stage of the evaluation process and will be based on the PPPFA preference point system. The tender will be evaluated in terms of the Preferential Procurement Policy Framework Act (PPPFA, Act 5 of 2000).

If it is unclear whether the 90/10 or 80/20 system applied, the preference point system to be applied will be based on the lowest acceptable tender.

1. 80/20 preference point system for acquisition of goods and services for Rand value equal to or above R2 000 and up to R50 million.

The following formula will be used to calculate the points out of 80 for price:

$$P_s = 80(1 - (P_t - P_m) / P_m)$$

Where: P_s is the points scored for price of tender under consideration.

P_t is the price of the tender under consideration; and

P_m is the price of the lowest acceptable tender.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

2. 90/10 preference point system for acquisition of goods and services for Rand value above R50 million.

The following formula will be used to calculate the points out of 90 for price:

$$P_s = 90(1 - (P_t - P_m) / P_m)$$

Where: P_s is the points scored for price of tender under consideration.

P_t is the price of the tender under consideration; and

P_m is the price of the lowest acceptable tender.

SANRAL will score specific goals out of 10 or 20. If a bidder fails to meet the Specific goals as outlined on the table below and fails to submit proof, the bidder will score zero (0) out of 10 or 20. SANRAL will not disqualify the bidder. In terms of this bid/tender, Preference points will be awarded in terms of the table below:

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Points allocation

		Point allocation	Maximum points	Point allocation	Maximum points
B-BBEE LEVEL	Level 1	10.00	10.00	20.00	20.00
	Level 2	9.00		18.00	
	Level 3	6.00		14.00	
	Level 4	5.00		12.00	
	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	

4. TENDERING PROCEDURES

T1.2 TENDER DATA

Eligibility for B-BEE points is subject to the following conditions:

1. **A tenderer's scorecard shall be a B-BBEE 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; or
 - 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
 - (i) The scorecard shall be submitted as a certificate attached to Returnable Schedule Form C1; and
 - (ii) The certificate shall:
 - be valid at the tender closing date; and
 - have been issued by a verification agency accredited by the South African National Accreditation System (SANAS); or

4. TENDERING PROCEDURES

T1.2 TENDER DATA

- 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
- 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

(iii) A valid B-BBEE Certificate 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.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

- Financial period which was used to issue the B-BBEE Verification Certificate.

iv. 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.
- 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

4. TENDERING PROCEDURES

T1.2 TENDER DATA

- (v) Compliance with any other information requested to be attached to Returnable Schedule Form C1; and
- (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.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.13 Acceptance of a tender offer

The conditions stated in clauses C.2.13(a) to (f) of the Conditions of Tender as well as the following additional clauses C.3.13(g) to (k) 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 C.3.11:

- 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;
- g) the tenderer has not failed to perform on any previous contract and has not been given a written notice to this effect;

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.13 Acceptance of a tender offer (contd....)

- (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).

4. TENDERING PROCEDURES

T1.2 TENDER DATA

m) Price negotiations.

If the price offered by a tenderer scoring the highest points is not market related, the Organ of state may not award the tender to that tenderer.

The Organs of state may –

Negotiate a market related price with the tender scoring the highest points or cancel the tender;

- If the tenderer does not agree to a market related price, negotiate a market related price with the tenderer scoring the second highest points or cancel the tender;
- If the tenderer scoring the second highest points does not agree to a market related price, negotiate a market related price with the tenderer scoring the third highest points or cancel the tender;,
- If a market related price is not agreed as envisaged in paragraph 2(iii), the organ of state must cancel the tender.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

(n) Perform a risk analysis on the preferred tenderer to ascertain if any of the following might present an unacceptable commercial risk to the employer:

The due diligence will take into consideration the following:

- Integrity risk evaluation;
- Operations, activities, locations and key customers;
- Risk rating (i.e. high risk, medium to high risk, medium risk or low risk) of the tenderer.

a) As part of this bid and subsequent contract, The tender requires a minimum of 30% sub-contracting for this bid to local black owned as an objective criterion.

4. TENDERING PROCEDURES

T1.2 TENDER DATA

C.3.16 - Registration of the award

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.

5. RETURNABLE SCHEDULES

T2.1: LIST OF RETURNABLE SCHEDULES

Please complete all documents as required, **use the checklist.**

Returnable Schedules required for Tender Evaluation Purposes:

INVITATION TO BID

SBD 1 FORM

FORM A2	:	CERTIFICATE OF AUTHORITY FOR SIGNATORY
FORM A3	:	CERTIFICATE OF AUTHORITY FOR JOINT VENTURES (WHERE APPLICABLE)
FORM A4	:	DECLARATION OF TENDERER'S CURRENT STATUS OF ANY DEBT OUTSTANDING TO SANRAL
FORM A5	:	DECLARATION FORM – MANAGEMENT OF DOMESTIC PROMINENT INFLUENTIAL PERSONS, FOREIGN PROMINENT PUBLIC OFFICIALS OR FOREIGN INFLUENTIAL NATIONALS
FORM A6	:	CERTIFICATE OF FRONTING PRACTICES
FORM A7	:	REGISTRATION ON NATIONAL TREASURY CENTRAL SUPPLIER DATABASE
FORM A8	:	DECLARATION OF TENDERER'S LITIGATION HISTORY
FORM A9	:	CERTIFICATE OF TAX COMPLIANCE STATUS

5. RETURNABLE SCHEDULES

T2.1: LIST OF RETURNABLE SCHEDULES

FORM A10	:	SCHEDULE OF DEVIATIONS OR QUALIFICATIONS BY TENDERER
FORM A11	:	BIDDER'S DISCLOSURE (SBD4)
FORM A12	:	PREFERENCING SCHEDULE – TENDERER'S B-BBEE VERIFICATION (SBD6.1)
FORM A13	:	POPIA
FORM A14	:	CERTIFICATE OF PERMISSION TO CONDUCT DUE DILIGENCE INVESTIGATION
FORM A15	:	DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES
FORM A16	:	SCHEDULE OF ADDENDA TO TENDER DOCUMENTS
FORM A17	:	CERTIFICATE OF INSURANCE COVER
FORM A18	:	TENDERER'S REGISTERED FINANCIAL SERVICE PROVIDER LETTER AND BANK DETAILS
FORM A19	:	SCHEDULE OF CURRENT COMMITMENTS
FORM A20	:	CERTIFICATE OF COMPLIANCE WITH COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT, 1993
FORM A21	:	REGISTRATION WITH CIDB
FORM A22	:	DECLARATION OF TENDERER'S FINANCIAL SUBMISSION

5. RETURNABLE SCHEDULES

T.2.1 LIST OF RETURNABLE SCHEDULES

FORM A23	:	COMPLIANCE WITH LABOUR LEGISLATION DECLARATION
FORM A24	:	CERTIFICATE OF SINGLE TENDER SUBMISSION
FORM A25	:	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT (SBD6.2) FOR DESIGNATED SECTORS
FORM A26	:	LOCAL CONTENT DECLARATION: SUMMARY SCHEDULE (ANNEXURE C)
FORM A27	:	CERTIFICATE CONFIRMING THAT THE TENDERER ATTENDM THE COMPULSORY BRIEFING MEETING.
FORM B1	:	SCHEDULE OF WORK EXPERIENCE
FORM B2	:	SCHEDULE OF CONTRACTOR'S EQUIPMENT
FORM B3	:	SCHEDULE OF SPECIALIST SUBCONTRACTORS
FORM B4	:	KEY PERSONNEL EXPERIENCE
FORM B5	:	PROPOSED SUBCONTRACTORS
FORM B6	:	CONTRACTOR'S ESTABLISHMENT ON SITE AND GENERAL OBLIGATIONS
FORM B7	:	SCHEDULE OF SPECIAL MATERIALS
FORM B8	:	WORK PLAN AND PROPOSED METHODOLOGY
FORM B9	:	CORPORATE SOCIAL INVESTMENT

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A7: REGISTRATION ON NATIONAL TREASURY CENTRAL SUPPLIER DATABASE

The tenderer shall provide a copy supplier registration from the National Treasury Central Supplier Database (www.treasury.gov.za). Tenderers who are not registered on the Central Supplier Database at tender closure will be declared non-responsive. In the case of a Joint Venture a printed copy supplier registration from must be provided for each member of the Joint Venture.

Name of Service Provider:

Central Supplier Database Supplier Number:

Supplier Commodity:

Delivery Location:

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A18: TENDERER'S REGISTERED FINANCIAL SERVICE PROVIDER LETTER AND BANK DETAILS

Notes to tenderer:

1. The tenderer shall attach to this form:
 1. A letter (dated less than 3 months prior to the tender closing date) from a **registered Financial Service Provider** (registered with the FSB) which :
 1. Provides banking details and declares how the entity conducts its account; and
 2. Confirms 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, or a written confirmation from any registered financial institution; or
 2. A letter (dated less than 3 months prior to the tender closing date) from the tenderer's independent registered accountant confirming that the Tenderer has the financial means net of current commitments (independent of any contractual advance payment) to meet the construction workflow requirements estimated for the subject contract. The confirmation by an **independent registered accountant** must indicate that the review, to be conducted in terms of ISRS4400, was done in terms of the Section 30 and Regulation 29 of the Companies Act No. 71 of 2008 (a letter (dated less than 3 months prior to the tender closing date) from the tenderer's financial sponsorship confirming that the Tenderer has the financial means net of current commitments (independent of any contractual advance payment) to meet the construction workflow requirements estimated for the subject contract. If the Tenderer does not have financial means, the tender may 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 **7.5% of contract value**.
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.

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

In response to Form A18, there are 3 letter options that tenderers may submit with their tender proposals:

OPTION 1 - LETTER TO BE ON THE TENDERER'S REGISTERED FINANCIAL SERVICE

PROVIDER'S LETTER HEAD

RE: ACCOUNT CONDUCT AND/OR CASHFLOW CONFIRMATION

OPTION 2 - LETTER TO BE ON THE TENDERER'S INDEPENDENT REGISTERED

ACCOUNTANT LETTER HEAD

RE: CASHFLOW CONFIRMATION (independent registered accountant)

OPTION 3 - LETTER TO BE ON TENDERER'S FINANCIAL SPONSORSHIP LETTER HEAD

RE: CASHFLOW CONFIRMATION (Financial sponsorship)

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A20: CERTIFICATE OF COMPLIANCE WITH COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES 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 the Department of Labour in terms of section 80 of the Compensation for Occupational Injuries and Diseases Act, 1993 (Act No 130 of 1993) (COID).
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.

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A21: REGISTRATION WITH CIDB

The tenderer shall provide a pdf copy of the Active Contractor's Listing off the CIDB website www.cidb.org.za. Tenderers whose CIDB registration expires within 21 days after close of tender shall 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 pdf copy of the Active Contractor's Listing must be provided for each member of the Joint Venture.

Complete the following details of his registration with the Construction Industry Development Board.

Name of Contractor:

Contractor Grading Designation:

CIDB Contractor Registration Number:

Registration expiry date:

In the case of a Joint Venture, Lead Bidder must hold not less than 51% share in the JV.

	CIDB Grading	JV Shareholding %
Lead Bidder:		

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A23: 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 A23: 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.

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A25 (SBD6.2): DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (INCORPORATING SBD6.2)

BID NUMBER: N.003-010-2027/3R (NRA 2026/0631): THE UPGRADE OF NATIONAL ROUTE 3 SECTION 1 BETWEEN PARADISE VALLEY (KM 17.50) AND MARIANNHILL TOLL PLAZA (KM 26.02)

Note to tenderer:

1. This will be a condition of contract.

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

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

1. General Conditions

- 1.1. Where necessary, for bids referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.2. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.3. The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286:2011 as follows:

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

Where:

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

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) on the date of advertisement of the bid as indicated in paragraph 3.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.6 A bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule – Form A3.6) are not submitted as part of the bid documentation.

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A26: LOCAL CONTENT DECLARATION: SUMMARY SCHEDULE (ANNEXURE C)

BID NUMBER: N.003-010-2027/3R (NRA 2026/0631): THE UPGRADE OF NATIONAL ROUTE 3 SECTION 1 BETWEEN PARADISE VALLEY (KM 17.50) AND MARIANNHILL TOLL PLAZA (KM 26.02)

Note to tenderer:

This will be a condition of contract.

C1	Tender No.:									Note: VAT to be excluded from all calculations
C2	Tender Description:									
C3	Designated Product(s):									
C4	Tender Authority:									
C5	Tendering Entity Name:									
C6	Tender Exchange Rate:	Pula	P	EU	€	GBP	£	OTHER (stipulate)		

		Calculation of Local Content					Tender Summary				
Tender Item No.'s	List of Items	Tender Price Each (Excl. VAT)	Exempted Imported Value	Tender Value Net of Exempted Imported Content	Imported Value	Local Value	Local Content % (Per Item)	Tender Qty	Total Tender Value	Total Exempted Imported Content	Total Imported Content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
C1.4.1.3	Open concrete working floors and veranda										
C5.4.5.1(a)	Cement CEM II										
C2.2.1.1(a)	110mm diameter (OD)										
C3.2.5.1	Prefabricated portal culverts; wall and roof combination (Class 100S)										
C3.2.10.1	Mild steel bards										

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM A27: CERTIFICATE CONFIRMING THAT THE TENDERER ATTENDED THE COMPULSORY BRIEFING MEETING.

N.003-010-2027/3R (NRA 2026/0631): THE UPGRADE OF NATIONAL ROUTE 3 SECTION 1 BETWEEN PARADISE VALLEY (KM 17.50) AND MARIANNHILL TOLL PLAZA (KM 26.02)

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:

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM B1: SCHEDULE OF WORK EXPERIENCE

Bidders shall submit a list of projects on Form B1 relevant / similar to this tender Scope of Work which have been successfully completed within the last 15 years. This must be accompanied by Formal Client Reference Letters with contactable references or Certificates of Practical Completion with contactable references indicating that the listed projects were executed successfully.

Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

FORM B4: KEY PERSONNEL EXPERIENCE

Bidder must attach Professional Registration for Key Personnel

- 1X **Contract Manager** that has an active professional registration with the **Engineering Council of South Africa** as Professional Engineer or Professional Technologist or with **SACPCMP** as Professional Construction Manager or Professional Construction Project Manager with minimum experience of 10 years
- 1X **Construction Manager** that has an active professional registration with the **Engineering Council of South Africa** as Professional Engineer or Professional Technologist or with **SACPCMP** as Professional Construction Manager with minimum experience of 10 years
- 1X **Construction Health and Safety Officer (CHSO)** that has an active professional registration as CHSO with **SACPCMP**
- 1x **Dedicated Environmental Officer (DEO)** that has a National Diploma in Environmental Management or Natural Sciences (NQF 6) or higher with minimum experience of 2 years.
- 1x **Targeted Enterprise Construction Manager (TECM)** that has a National Diploma in Management of Civil Engineering Construction Processes (NQF 6) or higher with minimum experience of 5 years

For key personnel experience and qualifications, bidders shall submit a list of projects on Form B4 relevant / similar to this tender Scope of Work which have been successfully completed by the proposed key personnel. This must be accompanied by a comprehensive CV for each key person, detailing the experience acquired with contactable references, relevant qualifications and proof of registration on ECSA, SACPCMP or other required registration.

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

Contracts Manager						
Name						
Professional Registration						
Professional Registration Number						
Highest Qualification						
NQF Level						
Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

Construction Manager						
Name						
Professional Registration						
Professional Registration Number						
Highest Qualification						
NQF Level						
Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

Construction Health and Safety Officer (CHSO)						
Name						
Professional Registration						
Professional Registration Number						
Highest Qualification						
NQF Level						
Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

Dedicated Environmental Officer (DEO)						
Name						
Professional Registration						
Professional Registration Number						
Highest Qualification						
NQF Level						
Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

LIST OF RETURNABLE SCHEDULES

Targeted Enterprise Construction Manager (TECM)						
Name						
Professional Registration						
Professional Registration Number						
Highest Qualification						
NQF Level						
Client Name	Client Contact Person	Client contact details: Email & Phone number	Project NAME	Project Description	Project VALUE (Incl. VAT)	Start date – End Date

5. RETURNABLE SCHEDULES

C1.1 FORMS OF OFFER AND ACCEPTANCE

C1.1.1 FORM OF OFFER (Incorporating SBD7)

The South African National Roads Agency SOC Limited
PO Box 415
PRETORIA
0001

Sir,

CONTRACT SANRAL N.003-010-2017/3R

FOR THE UPGRADE OF NATIONAL ROUTE 3 SECTION 1 BETWEEN PARADISE VALLEY
(KM 17.50) AND MARIANNHILL TOLL PLAZA (KM 26.02)

1. I/we, by signing this part of the forms of offer and acceptance acknowledge they are the equivalent of the Letters of Tender and Acceptance as defined in clauses 1.1.1.3 and 1.1.1.4 in 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).
2. I/we, confirm that I/we practise the principles of corporate governance that abhors corruption and fraud and that I/we have examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules and am/are duly authorised to represent and commit the tenderer to the contractual obligations contained therein.
3. I/we further confirm that by submitting this offer the tenderer accepts the conditions of tender and offers to perform all of the obligations and liabilities of the contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of tender and the conditions of contract identified in the contract data.

4. PRICE OFFERED

THE OFFERED TOTAL OF THE PRICES (INCLUSIVE OF VALUE ADDED TAX) BROUGHT
FORWARD FROM PART C1 SECTION C2.3: PRICING SCHEDULE SUMMARY IS

.....

.....(in words)

(R in figures)

I/we confirm that if any difference between the total of the Pricing Schedule Summary and the amounts stated above exists, the total in the Pricing Schedule Summary shall apply.

PART C1: AGREEMENTS AND CONTRACT DATA

BOOK 2 OF VOLUME 3

6. CONTRACT DATA

PART C1.1: FORM OF OFFER AND ACCEPTANCE

- For stage 2: Mandatory requirement

PART C1.2: CONTRACT DATA

PART A: GENERAL CONDITIONS - FIDIC AMENDMENTS

- Up to June 2026 the following amendments have been issued by FIDIC.

PART B: PARTICULAR CONDITIONS OF CONTRACT

- South African National Road Agency SOC Limited's standard amendments to the FIDIC General Conditions and shall apply to this contract

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

Item

Employer

CI No

1.1.2.2

Data

means the **South African National Roads Agency SOC Limited** instituted in terms of the South African National Roads Agency Limited and National Roads Act (Act No. 7 of 1998) or a person delegated by the South African National Roads Agency SOC Limited to act on its behalf.

The Employer's address is:

The South African National Roads Agency SOC Limited
48 Tambotie Avenue
Val De Grace
Pretoria, 0184

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

Item

Engineer

CI No

1.1.2.4

Data

Means: T.B.A.

The engineer's address to be used for this contract is:

Physical address:

T.B.A.

Postal address:

T.B.A.

Email:

T.B.A.

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Time for completion	1.1.3.3.	45 months (including the contractor's holidays in December and January), of which 3 months maximum will be the Mobilisation Period
Defects for notification period	1.1.3.7	12 calendar months
Mobilisation Period	A1.1.3.10	3 months maximum commencing on the Commencement Date.
Law and Language	1.4	The law governing this contract is South African law

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Performance security	4.2	One Performance Security in an amount calculated as 10% of the accepted offer amount (excluding VAT) as stated in the Form of Acceptance , is required.
Contractor's Representative	4.3	The Construction Manager shall be employed full time on the Works , the single point accountability and responsible for the management of the construction works and shall be registered with SACPCMP as Pr. CM or ECSA as Pr. Eng or Pr. Tech Eng with minimum experience of 10 years

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>Cl No</u>	<u>Data</u>
Subcontractors and suppliers	A4.4	The percentage of the Final Contract Value (as defined in D1003.04 for purposes of this clause) 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:

Minimum Enterprise subletting (%)	Targeted (TE)	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 (Continued)

Item

CI No

Data

Rates of Wages and Conditions of Labour

A6.2

The Contractor and his civil engineering Subcontractors shall be registered with the Bargaining Council for the Civil Engineering Industry (Government Notice R.490 – Part III contained in Government Gazette No. 37750) .**Rates for wages and conditions of labour as gazetted by the Bargaining Council for the Civil Engineering Industry shall apply to the Contractor and all his Subcontractors.** Only in the event that the majority of the Contract does not fall under the Civil Engineering Industry, shall a specific industry's published wage rates and conditions of labour different from that of the Bargaining Council for the Civil Engineering Industry, apply.

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Special non-working hours/days	A6.5	(a) All designated public holidays (including all foreseeable statutory declared election days) (b) The annual shut-down period between December and January (c) Day before Easter Weekend (d) Day of State school term closure and day prior to State school term start (e) Other non-working days and restricted working hours: • Comrades Marathon Weekend – No work along the N3 and alternative routes include the Friday and Monday • Amashova Durban Classic Cycle Event Weekend – No work along the N3 and alternative routes include the Friday and Monday • Durban July Weekend – No work on Friday and Saturday (f) Sundays (g) Between sunset and sunrise

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

Item

Black Contractor's Personnel employed
on the Site

Cl No

A6.9

Data

The number of black people employed full-time by the Contractor on site and who are not paid an hourly wage, **shall exceed 40% of the total number of Contractor's Personnel employed full-time by the Contractor on site and who are not paid an hourly wage.**

Contractor's Personnel

A6.9

The Contractor shall provide the key personnel (as indicated in form C1.2.3 - Appendix to Tender: Contract Data – Information Provided by the Tenderer).

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 replace the key personnel stated in the Appendix**

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>Cl No</u>	<u>Data</u>
		to Tender with personnel with equivalent (or better) competencies and years of relevant experience and subject to approval by the Employer. Such approval shall not be unreasonably withheld.
Period in which works must commence	A8.1	Not prior to the date of access to Site and not later than 1 (one) month after the end of Mobilisation Period.
Programme submission	A8.3	One paper copy and one electronic copy.
Date(s) of access	A8.3(b)	As per Clause 2.1 Access to site
Special non-working days	A8.3(h)	As per Clause 6.5 Working hours

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>Cl No</u>	<u>Data</u>
Restricted working conditions	A8.3(m)	Accommodation of traffic restrictions during the contractor's annual shutdown period between December and January, the contractor shall maintain two-way traffic within the contract limits. Additional restricted working conditions as listed in Part C3: Scope of Works, clause(s) A1.5.7.3
Extension of time for completion	A8.4	An exceptional adverse climatic event shall be considered where the return period of the climatic event exceed a return period of 1:20

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>Cl No</u>	<u>Data</u>
Delay damages	A8.7(a)	Delay Damages – R150,000.00/day .
Other non-compliance charges	A8.7(b)	Other non-compliance charges: i) Intra-programme dates – R80,000.00/day - The principle of penalties being imposed for intra-programme dates shall be applied whenever the contractor fails to complete specific activities within the periods allocated for completion according to the initial accepted programme provided in terms of clause 8.3.

6. CONTRACT DATA

Item

CI No

Data

- ii) Lane occupation levy (Occupation beyond completion dates and times, as well as for remedial work after completion of the Works) – **R105,000.00/day** – The principle of penalties being imposed for late occupation of lanes is as specified in Part C3 Clause A1.5.3.4.
 - iv) Accommodation of traffic non-compliance as specified in Part C3 clause A1.5.3.7.
 - (i) Fixed penalty – **R20,000.00/occurrence**
 - (ii) Time related penalty – **R2,000.00/hour**
- A8.7(b) v) **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

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
	A8.7(b)	(vi) Contract Participation Targets – Calculated as per D1003.05 (vii) Contract Skills Development Goal – Calculated as per D1010.02 (viii) Subcontracting without disclosure or non-compliance to Subcontract agreement requirements – up to 10% of the Contract Price (ix) Layer irregularities (i) Asphalt – quantity/ 100m x unit rate x payment adjustment factor. (ii) Concrete – quantity/100m x unit rate x payment adjustment factor. (iii) Base – quantity/100m x unit rate x payment adjustment factor.

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Evaluation	A12.3	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 Authorisation).
Provisional sums	A13.5	5% to apply if no-mark-up is provided in the Pricing Schedule
Daywork allowances	A13.6	Not required (Dayworks provided for in the pricing schedule) .
Special materials	A13.8	None (There is no material specified as Special Material)

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Adjustments for Changes in Cost	A13.8	Base date for this contract is 28 days prior to the closing date of tender.
Retention money: - Percentage	14.3(c)	10% of value of completed work.
- Limit	14.3 (c)	Value determined as 5% of the accepted offer amount (excluding VAT) as stated in the Form of Acceptance
Guarantee	A14.3 (c)	This will not be considered
Minimum amount of interim payment certificate	14.6	R15,000,000.00 excluding payments during the Mobilisation Period.

C1.2.2 APPENDIX TO TENDER: CONTRACT DATA - INFORMATION PROVIDED BY THE EMPLOYER (Continued)

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Time period for submission of evidence of insurance and copies of insurance	18.1	As stated in the Form of Acceptance
Minimum Insurance cover for Injury to persons and Damage to Property	18.3	R20,000,000.00 for each and every claim.
Appointment of DAB	A 20.2	The DAB shall comprise of 3 Members and its appointment to be not later than 60 days after Access to Site , or in the event that a dispute arises prior to Access to Site, not later than 30 days after a dispute arises between the Parties
Appointment (if not agreed) to be made by	A 20.3	The President of SAICE or a person appointed by the SAICE President

BOOK 3 OF VOLUME 3

PART C2: PRICING DATA

7. PART C2 – PRICING DATA

C2.1 PRICING INSTRUCTIONS

C2.1.13 The pricing schedules **are provided electronically**. A printout of the entire completed pricing schedule must be signed and scanned and saved in .pdf format, and an electronic copy of the priced pricing schedule must be saved in Excel format and the printed copy bound. **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 printed hard copy will govern.** The item numbers and description of the printed hard copy document will govern. For all addenda issued relating to the pricing schedule, the item numbers, description and quantities of the issued document will govern.

7. PART C2 – PRICING DATA

C2.3 SUMMARY OF PRICING SCHEDULE

SCHEDULE A: ROADWORKS..... R

SCHEDULE B: BRIDGES R

SCHEDULE C: ELECTRICAL AND LIGHTING R

SCHEDULE D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED
LABOUR AND TARGETED ENTERPRISES UTILISATION AND
DEVELOPMENT R

SUBTOTAL A R

VALUE ADDED TAX:

15% of Subtotal A R

TOTAL CARRIED TO C.1.1.1: FORM OF OFFER R

BOOK 3 OF VOLUME 3

PART C3: SCOPE OF WORK

8. PART C3: SCOPE OF WORK

SECTION A1: STANDARD AMENDMENTS ISSUED BY COTO

Notes to tenderer:

1. The Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition) prepared by the Committee of Transport Officials, (COTO), as amended, shall apply to this contract. The amendments are those issued by COTO and reproduced in Section A1, together with additional amendments as set out in Section A2 and Project specific Specification Data as set out in Section B.

SECTION A2: PROJECT SPECIFICATION AMENDMENTS TO THE COTO STANDARD SPECIFICATIONS

Notes to tenderer:

1. This Section A2 contains amendments to the Standard Specification, including additional clauses, amendment to clauses or deletion of clauses and specifications, required for this particular contract. 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. Details of such alternatives or additional requirements applicable to this contract are contained in Section B: Specification Data. Section B also contains project specific sections for Sections C, D and E.
2. The number of each clause and each payment item in this part of the project specifications follows the numbering format of the standard specifications.

8. SECTION C: ENVIRONMENTAL MANAGEMENT PLAN

C1001 SCOPE

The South African National Roads Agency SOC Limited (SANRAL) recognises environmental management as a key component of road infrastructure development and as part of its Environmental Sustainability Framework has developed this Environmental Management Plan (EMP) as a tool for continual improvement in environmental performance.

This EMP prescribes the methods by which proper environmental controls are to be implemented by the Contractor for construction and maintenance projects. The duration over which the Contractor's controls shall be in place cover the construction period of the project as well as the limited time after contract completion defined by the Conditions of Contract for Construction for Building and Engineering Works Designed by SANRAL published by the Federation Internationale des Ingenieurs-Conseils (FIDIC) as the Defects Notification Period (maintenance period).

The provisions of this EMP are binding on the Contractor during the life of the contract. They are to be read in conjunction with all the documents that comprise the suite of documents for this contract, particularly the conditions of any environmental authorisation and associated site-specific Environmental Management Programme (EMPr). In the event that any conflict occurs between the terms of the EMP and the project specifications or environmental authorisation, the terms herein shall be subordinate.

The EMP is a dynamic document subject to similar influences and changes as are brought by variations to the provisions of the project specification. Any changes to the EMP and/or environmental authorisation cannot occur without being submitted to SANRAL who will manage the process of amending the EMP.

The EMP identifies the following:

- Relevant parties and their responsibilities;
- Construction activities that will impact on the environment;
- Specifications with which the Contractor shall comply in order to protect the environment from the identified impacts; and
- Actions that shall be taken in the event of non-compliance.

8. SECTION D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT

D1001 SCOPE

Section D of the Specifications describes the structured engagement with project Stakeholders and affected Communities to the project. It also guides the selection and the enhanced utilisation and development of Targeted Labour and Targeted Enterprises.

D1001.01 Principles for Project Liaison, Targeted Enterprise Subcontracting, and Targeted Labour Sourcing in SANRAL Projects (Fourteen Point Plan)

The scope of the work described in this Section D of the Specifications shall be based on the Employer's Principles for Project Liaison, Targeted Enterprise sub-contracting and Targeted Labour sourcing in all SANRAL projects.

These principles must be applied to facilitate better project level liaison with project Stakeholders and affected Communities. In addition, these principles serve to ensure communication and transparency in the execution of the Works and to facilitate inclusivity in the allocation of projects to benefit black business and local communities.

8. SECTION D: STAKEHOLDER AND COMMUNITY LIAISON, AND TARGETED LABOUR AND TARGETED ENTERPRISES UTILISATION AND DEVELOPMENT

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8. SECTION D: STANDARD SPECIFICATION SECTIONS

D1002	DEFINITIONS AND APPLICABLE LEGISLATION	SPECIFICATION DATA
	D1002.01 Definitions	
	(b) Project Impact Area Target Area(s)	The Project Impact Area is eThekwini Metropolitan Municipality
	(d) Contract Participation Goal (CPG)	i. Specific Goal for Targeted Enterprises is Minimum of 30% of the Final Contract Value by the end of the contract to Targeted Enterprises. ii. Specific Goal for Targeted Labour is a minimum of 8 % of the Final Contract Value by the end of the contract to Targeted Labour The Final Contract Value for purposes of this clause is defined in clause D1003.04
	(g) Corporate Social Investment (CSI)	The contractor shall identify the CSI initiative in consultation with the local community.
	(w) Target Area(s)	For Targeted Labour: eThekwini Metropolitan Municipality.
	(x) Targeted Enterprise	Target Group for Targeted Enterprise: a. EMEs or QSEs which are at least 51% owned by black people.
	(cc) Targeted Labour	Target Group for Targeted Labour: a. Unemployed black people who: i. are citizens of the Republic of south Africa by birth or descent; or ii. became citizens of the Republic of South Africa by naturalisation before 27 April 1994; or iii. became citizens of the Republic of South Africa by naturalisation on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date; or b. unemployed women who are South African citizens; or c. unemployed youth (not attending and not required by law to attend an educational institution) as defined in the National Youth Commission Act (Act 19 of 1996); or d. unemployed people with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act (Act 55 of 1998); or e. unemployed black military veterans who qualify to be called a military veteran in terms of the Military Veterans Act (Act 18 of 2011);

8. SECTION D: STANDARD SPECIFICATION SECTIONS

D1003	TARGET GROUP PARTICIPATION	SPECIFICATION DATA
	D1003.04 Contract Participation Goal (CPG)	
	Specific sub-Goals for minimum contributions by specific Target Groups for Targeted Labour:	
	i) Unemployed black persons who are youth	30% of Targeted Labour value
	ii) Unemployed black persons who are people with disabilities	0.5% of Targeted Labour value
	iii) Unemployed black persons who are women;	30% of targeted labour value
	iv) Unemployed black persons who are military veterans	1.5% of Targeted Labour value
	Specific sub-Goals for minimum contribution by specific Target Groups for Targeted Enterprises:	
	i) Targeted Enterprise with ≥51% ownership by Youth	Minimum of 5% of the Final Contract Value
	ii) Targeted Enterprise with ≥51% ownership by Women	Minimum of 5% of the Final Contract Value
	iii) Targeted Enterprise with ≥51% ownership by Military veterans	Minimum of 1% of the Final Contract Value
	iv) Targeted Enterprise with ≥51% ownership by Disabled persons (Differently abled)	Minimum of 0,5% of the Final Contract Value
	v) Targeted Enterprises who are public transport operators	Minimum of 1,5% of the Final Contract Value
	vi) Targeted Enterprise with CIDB 1 or 2 grading	Minimum of 1% of the Final Contract Value
	vii) Targeted Enterprise with CIDB 3 or 4 grading	Minimum of 1% of the Final Contract Value
	D1003.05 Contract Participation Performance (CPP)	
	CPP Milestones applicable for Target Enterprise expenditure:	CPP Milestones no. 2,3,4,5 and 6 Shall apply.

8.SECTION D: STANDARD SPECIFICATION SECTIONS

D1010	TRAINING, COACHING, GUIDANCE, MENTORING AND ASSISTANCE	SPECIFICATION DATA
	D1010.02 Developing the TSDP	
	a) Skills Development Requirements	
	i) Contract Skills Development Goals (CSDG)	The CSDG shall not be less than 2.5% of the Final Contract Value. The Final Contract Value for purposes of this clause is defined in clause D1003.04

BOOK 3 OF VOLUME 3

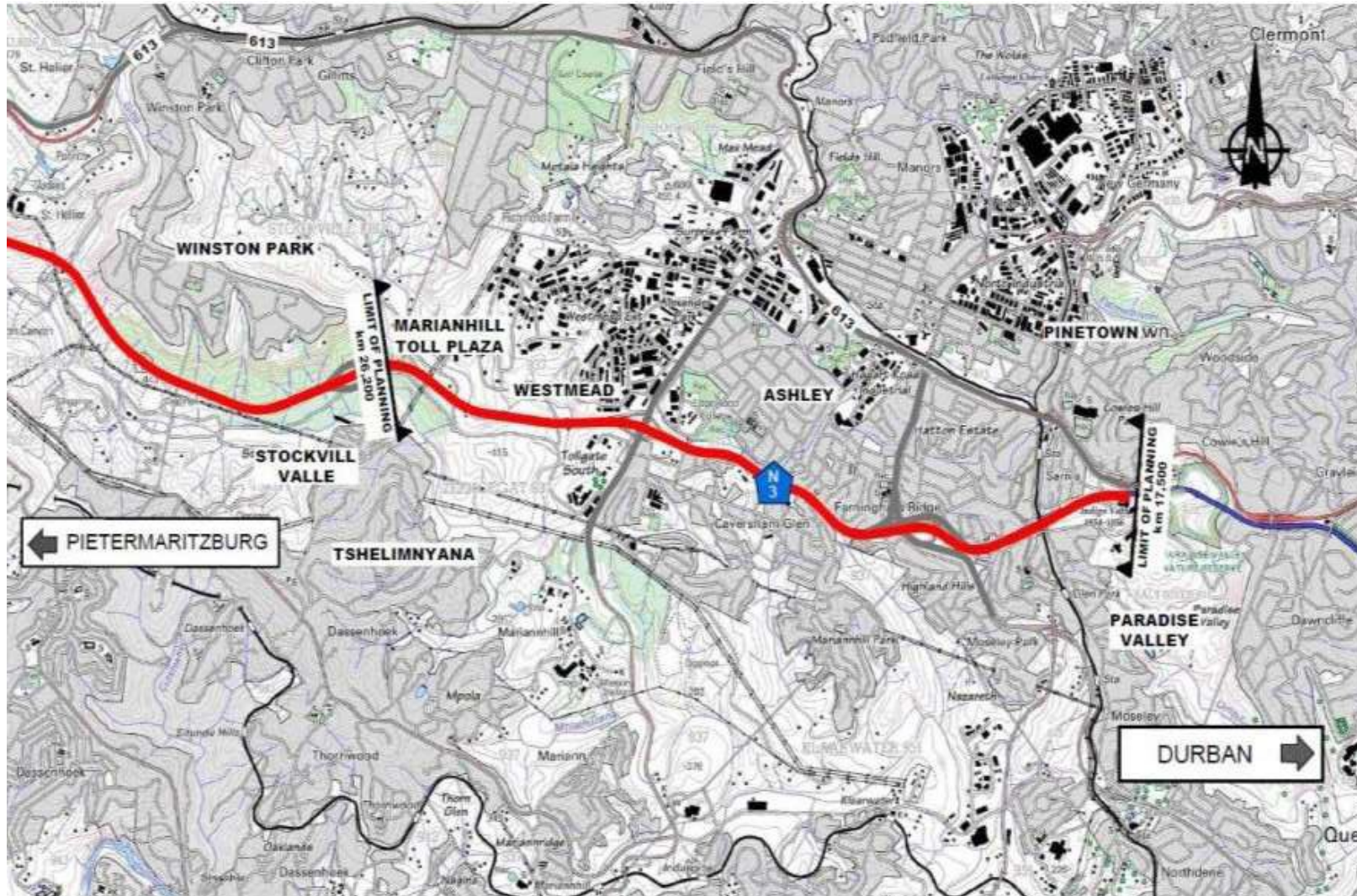
PART C4: PROJECT INFORMATION

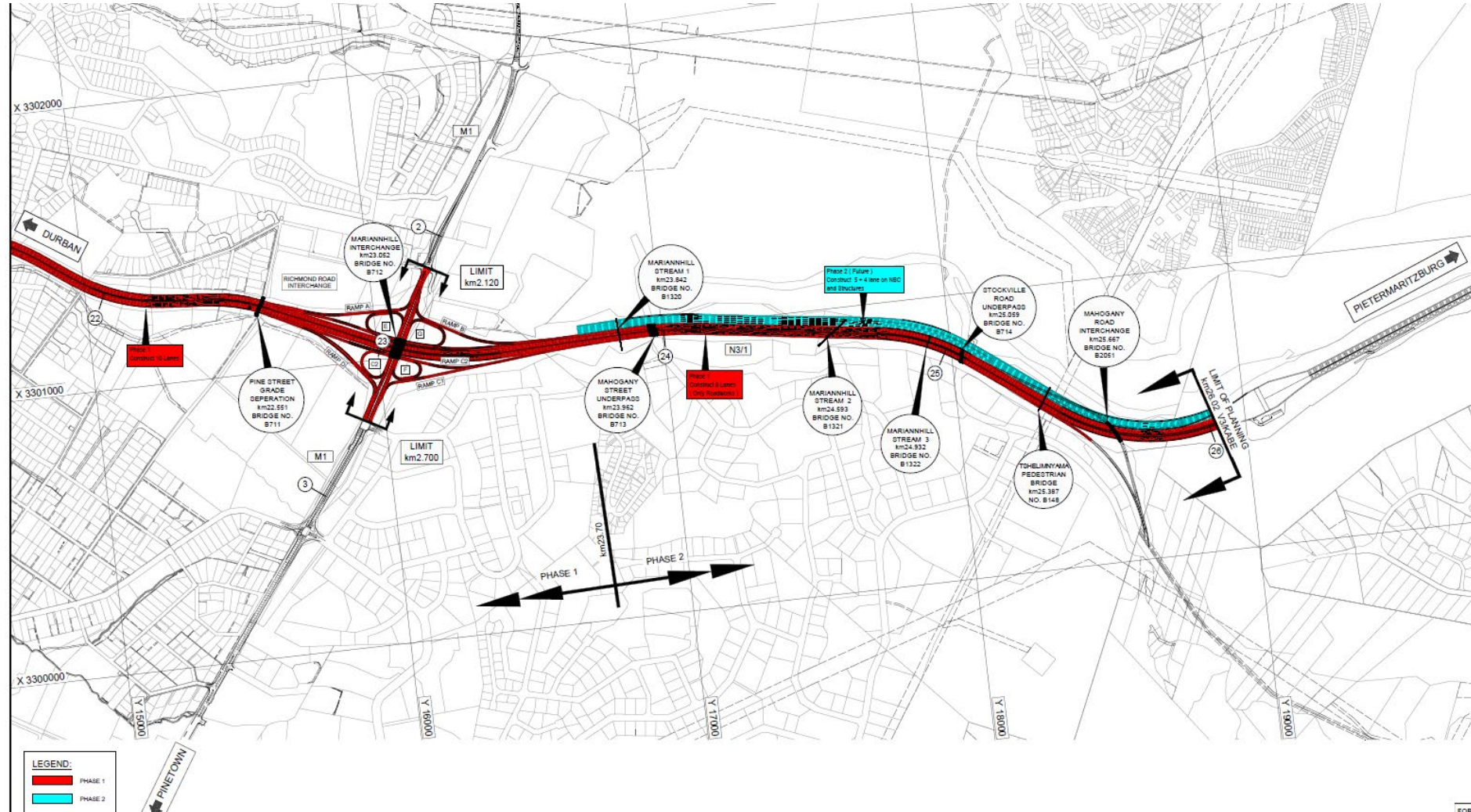
BOOK 3 OF VOLUME 3

PART C4.1: DESCRIPTION OF THE WORKS

The description of the works shall inter alia contain the following particulars regarding the work to be constructed and maintained under the contract.

LOCALITY PLAN





9. PROJECT SPECIFICATIONS

C4.1.1 PROJECT LOCATION AND LIMITS

The contract under consideration relates to the capacity improvements on National Route 3, Section 1. This section of National Route 3 is in the Province of KwaZulu Natal, between Paradise Valley (km 17.50) and Mariannhill Toll Plaza (km 26.02) a total length of 8.52 kms.

The scope of works include capacity improvement of the following:

- Two interchanges namely:
 - ❖ Farningham Interchange
 - ❖ Richmond Road Interchange

The scope of works also include M13 Routine Road Maintenance:

- The scope of works entails routine road maintenance within the M13 road reserve from approximated M1/M13 Interchange to Stapelton road bridge within the eThekweni Metropolitan Municipality.

The project is split into Phase 1 and Phase 2 (Future Work) as shown on the key plans.

Table C4.1.1 below indicate the limits and project section lengths for all the roads as part of the contract.

9. PROJECT SPECIFICATIONS

Table C4.1.1: Project Road Construction limits and Length

Route/Road	Start chainage (km)	End chainage (km)	Length (km)	Type of improvement
N3/1	17.50	19.30	1.80	Upgrade (excluding new retaining walls).
N3/1	19.30	26.02	6.72	Upgrade
		Total	8.52	
Farningham Interchange				
Ramp A	19.90	20.57	0.67	Upgrade
Ramp B	18.91	20.66	1.75	Upgrade
Ramp C	19.19	20.20	1.01	New
Ramp D	19.80	20.31	0.51	Upgrade
		Total	3.94	
Richmond Road Interchange				
Ramp A1	22.67	23.52	0.85	New
Ramp G	22.52	23.59	1.07	New
Ramp B	23.09	23.65	0.56	Upgrade
Ramp C1	22.69	23.73	1.04	New
Ramp C2	23.05	23.49	0.44	New
Ramp D	22.58	23.26	0.68	New
Ramp E	22.77	23.86	1.09	New
Ramp F	22.58	23.05	0.47	New
		Total	6.20	
Mahogany Road Interchange				
Ramp A	25.12	25.32	0.20	Upgrade
Ramp B	25.18	25.51	0.33	Upgrade
		Total	0.53	

9. PROJECT SPECIFICATIONS

C4.1.2 ROADWORKS

- **Design cross section**

The existing cross section and the new design cross section for the different roads as shown on Table C4.1.2 and drawings 10124000-TD01 to 10124000-TD14 in Volume 4: Book 1.

9. PROJECT SPECIFICATIONS

Table C4.1.2: Existing and New Design Cross-section

Route/Road	Km - Km	Existing Cross Section			New Cross Section				
		Lane (m)	Shoulders		Lane (m)	Shoulders		Sidewalks	
			Inner (m)	Outer (m)		Inner (m)	Outer (m)	LHS (m)	RHS (m)
N3/1 NBC	17.5 - 20.6	3 x 3.7	1.0	2.5	2 x 3.7 & 2 x 3.5	0.5	2.5		
N3/1 SBC	17.5 - 20.6	3 x 3.7	1.0	2.5	2 x 3.7 & 2 x 3.5	0.5	2.5		
N3/1 NBC	20.6 - 22.48	3 x 3.7	1.0	2.5	4 x 3.7 & 2 x 3.5	0.5	2.5		
N3/1 SBC	20.6 - 22.48	3 x 3.7	1.0	2.5	2 x 3.7 & 2 x 3.5	0.5	2.5		
N3/1 NBC (See note)	22.48 - 26.02	3 x 3.7	1.0	2.5	2 x 3.7 & 2 x 3.5	0.5	2.5		
N3/1 SBC	22.48 - 26.02	3 x 3.7	1.0	2.5	2 x 3.7 & 2 x 3.5	0.5	2.5		
Farningham Interchange									
Ramp A	19.9 - 20.57	1 x 4	2.00	2.00	2 x 4.0	2.0	2.0		
Ramp B	18.91 - 20.66	1 x 4	2.00	2.00	2 x 4.0	2.0	2.0		
Ramp C	19.19 - 20.2	1 x 4	2.00	2.00	1 x 4.0	2.0	2.0		
Ramp D	19.8 - 20.31	1 x 4	2.00	2.00	1 x 4.0	2.0	2.0		
Richmond Road Interchange									
Ramp A	22.67 - 23.52	New			1 x 4	2.0	2.0		
Ramp G	22.52 - 23.59	New			2 x 4	2.25	2.25		
Ramp B	23.09 - 23.65	1 x 4	2.00	2.00	1 x 4	2.0	2.0		
Ramp C1	22.69 - 23.73	New			1 x 4	2.0	2.0		
Ramp C2	23.05 - 23.49	New			1 x 4	2.0	2.0		
Ramp D	22.58 - 23.26	New			2 x 4	2.0	2.0		
Ramp E	22.77 - 23.86	New			1 x 4	2.0	2.0		
Ramp F	22.58 - 23.05	New			1 x 4	2.0	2.0		
Note: The 5 th lane on the NBC will be constructed in future as Phase 2.									
Mahogany Road Interchange									
Ramp A	25.12 - 25.32	1 x 4	2.00	2.00	1 x 4	2.0	2.0		
Ramp B	25.18 - 25.51	1 x 4	2.00	2.00	1 x 4	2.0	2.0		

9. PROJECT SPECIFICATIONS

C4.1.3 PAVEMENT

■ *General description*

The following pavement design strategies are applicable for the various route- and road sections for the project:

- Rehabilitation of existing bituminous base-road pavement sections.
- Widening of existing pavement sections by means of bituminous base pavement strategy.
- New construction of ramps, cross-roads and streets by means of bituminous base pavement strategy.

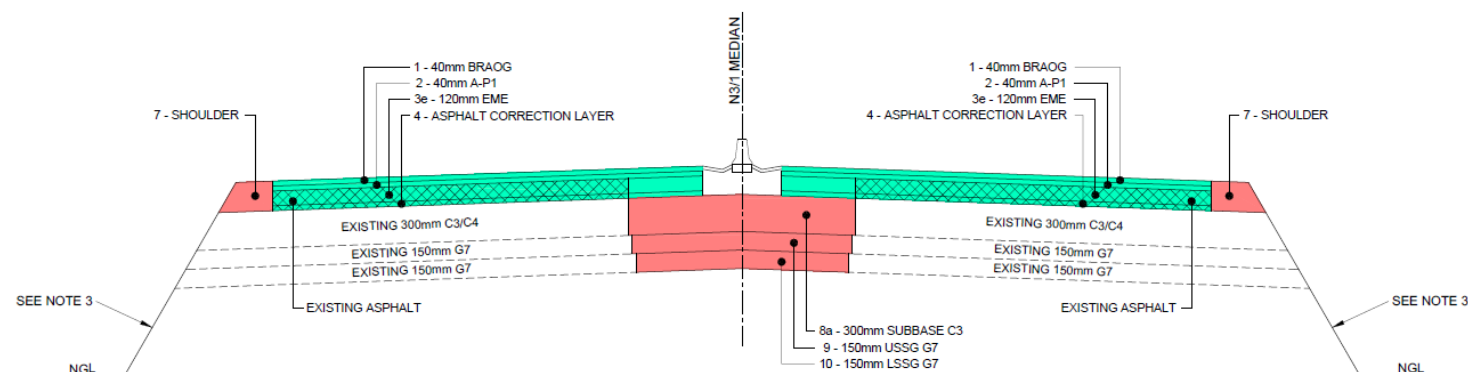
■ **Pavement design drawings**

The pavement designs are shown on Table C4.1.3 and drawings 10124000/M/002 to 006 in Volume 4 Book 2.

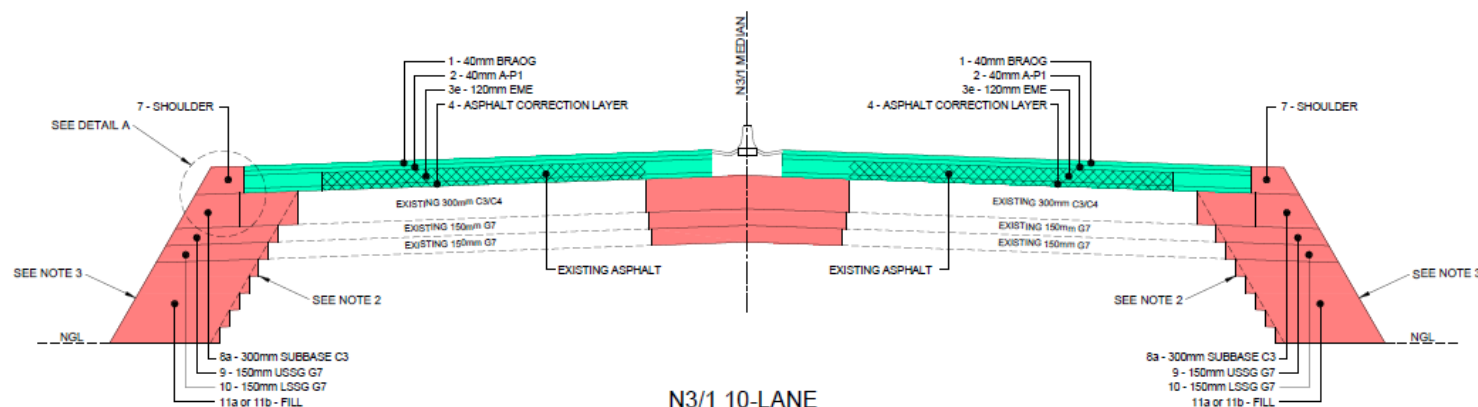
This application of different pavement designs and roadbed treatments are shown on the soil survey drawings no.'s 10124000BP0/M029 to M74

9. PROJECT SPECIFICATIONS

C4.1.3 PAVEMENT: CROSS SECTIONS



N3/1 8-LANE
PAVEMENT TYPE N3/P1



N3/1 10-LANE
PAVEMENT TYPE N3/P3

9. PROJECT SPECIFICATIONS

C1.4.3 PAVEMENT DESIGN

				PAVEMENT DESIGN							
Route/Road	Start chainage (km)	End chainage (km)	Length (km)	Surfacing (Braog) (mm)	Surfacing (AP1) (mm)	Asphalt Base EME (mm)	Asphalt Correction layer (mm)	New Sub-base (C3) (mm)	Rework existing Subbase (C3) (mm)	USSG (G7) (mm)	LSSG (G7) (mm)
N3/1 - Existing	17.50	26.02	8.52	40	40	120	50 - 100				
N3/1 - New and widening	17.50	26.02	8.52	40	40	120		300			
Farningham Interchange											
Ramp A - Existing	19.90	20.57	0.67	40	40	130			300		
Ramp A - New and widening	19.90	20.57	0.67	40	40	130		300		150	150
Ramp B - Existing	18.91	20.66	1.75	40	40	130			300		
Ramp B - New and widening	18.91	20.66	1.75	40	40	130		300			
Ramp C (New)	19.19	20.20	1.01	40	40	80		300		150	150
Ramp D - Existing	19.80	20.31	0.51	40	40	80			300		
Ramp D - New and widening	19.80	20.31	0.51	40	40	80		300		150	150
Richmond Road Interchange											
Ramp A1 - New	22.67	23.52	0.85	40	40	100		300		150	150
Ramp A2 - New	22.52	23.59	1.07	40	40	115		300		150	150
Ramp B	23.09	23.65	0.56	40	40	80			300		
Ramp C1 - New	22.69	23.73	1.04	40	40	100		300		150	150
Ramp C2 - New	23.05	23.49	0.44	40	40	100		300		150	150
Ramp D - New	22.58	23.26	0.68	40	40	115		300		150	150
Ramp E - New	22.77	23.86	1.09	40	40	100		300		150	150
Ramp F - New	22.58	23.05	0.47	40	40	100		300		150	150

9. PROJECT SPECIFICATIONS

C1.4.3 PAVEMENT DESIGN - CONTINUED

				PAVEMENT DESIGN							
Route/Road	Start chainage (km)	End chainage (km)	Length (km)	Surfacing (Braog) (mm)	Surfacing (AP1) (mm)	Asphalt Base EME (mm)	Asphalt Correction layer (mm)	New Sub-base (C3) (mm)	Rework existing Subbase (C3) (mm)	USSG (G7) (mm)	LSSG (G7) (mm)
Mahogany Road Interchange											
Ramp A	25.12	25.32	0.20	40	40	80			300		
Ramp B	25.18	25.51	0.33	40	40	80			300		

9. PROJECT SPECIFICATIONS

Structural Works — Bridges & Retaining Walls

C4.1.4 STRUCTURAL WORKS

C4.1.4.1 STRUCTURES

Introduction

- The project includes a significant amount of structural work. Table C4.1.4(a) provides a list of the bridge, culvert work required and retaining walls required.

9. PROJECT SPECIFICATIONS

TABLE C4.1.4(a)

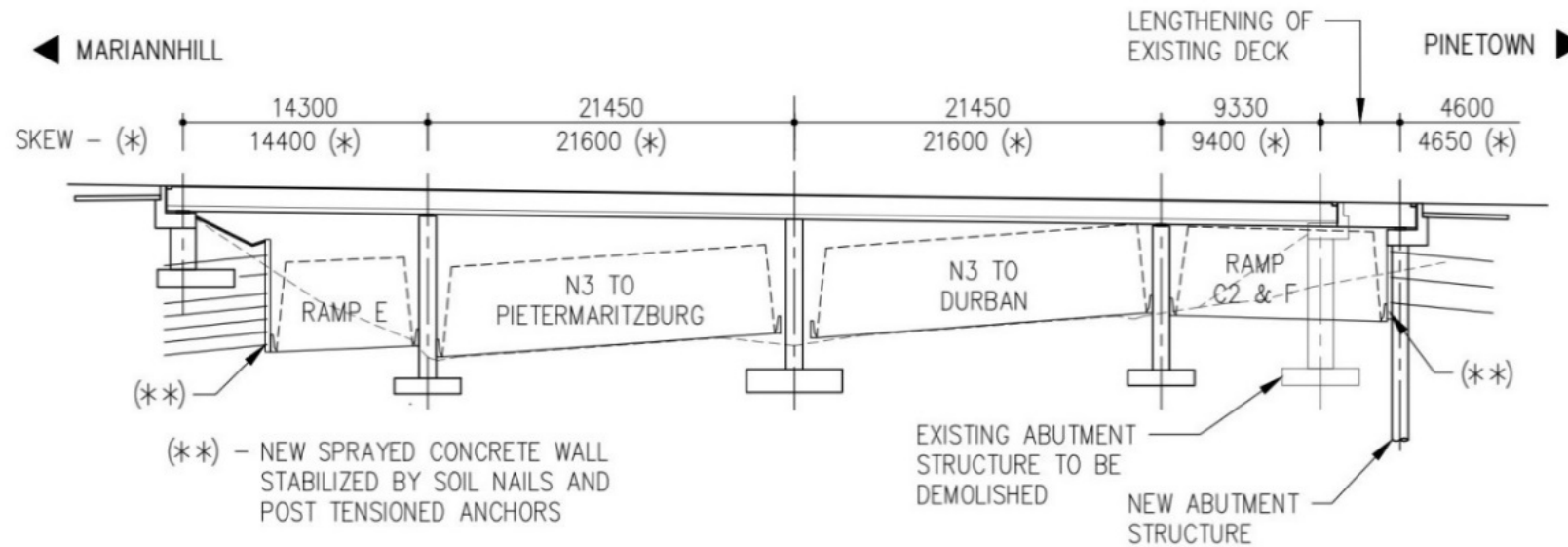
N3-01 Paradise Valley: 17.50 to 26.02 km			Demolish existing Bridge	Minor Works	New Bridge	Bearing replacements	New Major Culvert	Widen deck & new Parapets	Lengthen portal structures	Alterations to Inlet Works	Reposition end Piers and new deck	Open-up Jack Spans
km	Bridge No	Name	Work Description									
			4					6				
			1	3	0	1	0	4	0	1	0	1
18,368	B248	Umbilo River Culvert								1		
19,08	B422	Highlands Road Overpass						1				
19.603	B1051	Farningham I/C Ramp B Subway Bridge				1						
20.060	B250	Farningham I/C: Ramp B						1				
20.060	B252	Farningham I/C: Ramp C	1									
20.060	B251 A	Farningham I/C: M7 under N3SB						1				
20.060	B251 B	Farningham I/C: M7 under N3SB						1				
21.130	B0614	Wilson Drive		1								
21.580	B710	Caversham U/P										
22.536	B711	Pine Street O/P										
22.550	B0252	Pine Street O/P		1								
23.060	B712	Richmond I/C: M1 O/P										1
22.293	B0255	Richmond I/C: new Ramp A2		1								

9. PROJECT SPECIFICATIONS

BRIDGE B712 RICHMOND ROAD I/C – M1 OVER N3 – BRIDGE ALTERATION (LENGTHENING)

□ *Lengthening of Deck & Opening of the Side Spans*

The side spans of the existing bridge need to be opened up to allow new ramps to pass.



Lengthening of Deck and Opening of Side Spans

9. PROJECT SPECIFICATIONS

C4.1.4.4 FOUNDING

The proposed founding is as follows:

- Northern extension:

The new northern abutment will be founded on piles.

- Eastern Widening

The piers required for the deck widening will be founded on pad footings.

9. PROJECT SPECIFICATIONS

C4.1.4.4 FARNINGHAM INTERCHANGE B250 AND B251A AND B

- Description of the bridge site

M7. The super-structure comprises four separate decks, from top-down being:

- Ramp B (B250) to be widened to the outside
- N3SB (B251B) to be widened to the inside
- N3NB (B251A) to be widened to both in- and outsides
- Ramp C (B252) to be demolished (incorporated with deck above).

C4.1.4.4.4 Proposed bridge widening

The northbound carriageway will be widened to both sides from accommodating four lanes plus one ramp previously on-ramp C.

The southbound carriageway will be widened to the left side only to accommodate one additional lane.

9. PROJECT SPECIFICATIONS

Ramp B will be widened to the right side to accommodate one additional lane.

All the widenings will be pre-cast post-tensioned u-beams cast with a continuous top slab over the central support.

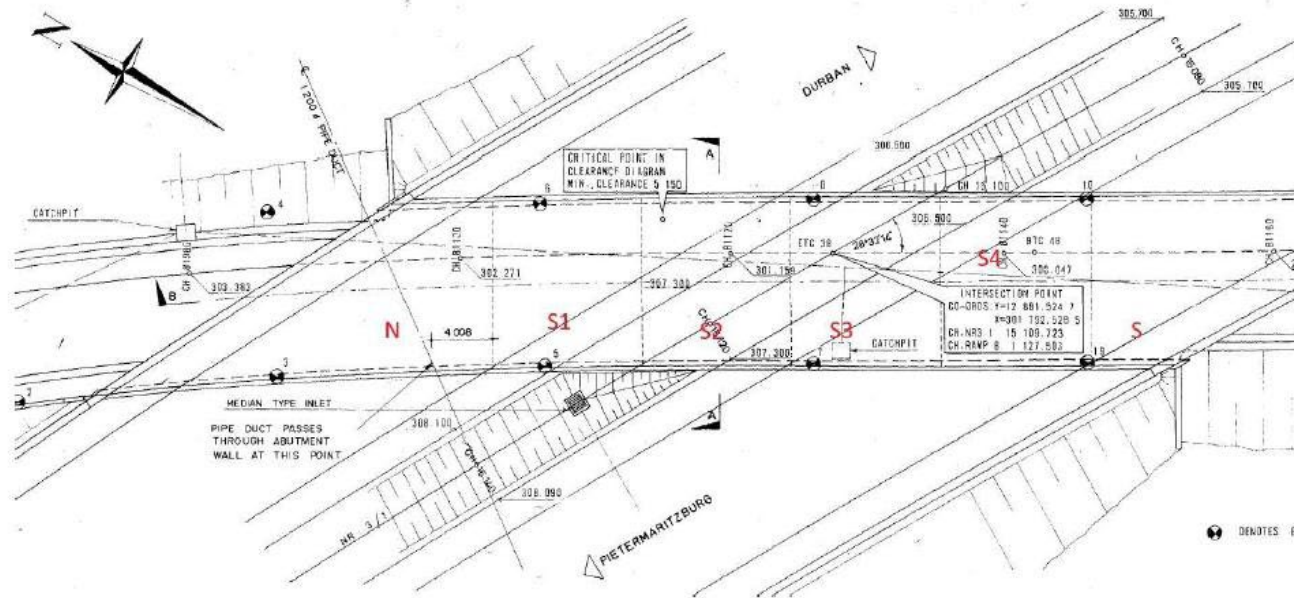
C4.1.4.4.8 Demolishing of existing Farningham IC Ramp C Deck

The existing deck and central pier only will be demolished. The deck shall only be demolished once the adjacent Northbound deck widening has been completed, and the on-ramp traffic re-routed along this widening.

The bridge deck shall be demolished by blasting/implosion, while the substructure shall be demolished by conventional methods. The central pier will be demolished to 1,5m below existing ground level.

9. PROJECT SPECIFICATIONS

FARNINGHAM INTERCHANGE BRIDGE B1051 AT KM 19,603



The improvements for Bridge B1051 entail the following:

- Bearing replacement on both abutments.
- Jacking of the bridge deck to facilitate bearing replacement.
- All Longitudinal and transverse asphaltic plug joint replacements.
- Small repairs on parapets.
- Damaged guardrail replacement on parapets.
- Traffic accommodation

9. PROJECT SPECIFICATIONS

C4.1.4.5 PINE STREET OVERPASS B0252

- Proposed improvements

The proposed widening of the N3 carriageway beneath the Pine Street Bridge significantly reduces horizontal clearance to the existing bridge piers. Each of the 3 (three) intermediate piers consists of 2 (two) discrete vertical column stems, currently open between supports and exposed to potential vehicular impact. With traffic lanes now shifted closer to the piers on both the northbound and southbound alignments, these exposed pier gaps present an unacceptable safety risk to the structural system.

To mitigate this risk and protect the structural elements from direct collision, a permanent reinforced concrete infill is proposed between the stems of all three piers.

9. PROJECT SPECIFICATIONS

WILSON DRIVE OVERPASS B0614

Proposed improvements:

- The proposed widening of the N3 carriageway beneath the Wilson Street Bridge significantly reduces horizontal clearance the existing bridge piers. Each of the 3 (three) intermediate piers consists of 3 (three) discrete vertical column stems, currently open between supports and exposed to potential vehicular impact. With traffic lanes now shifted closer to the piers on both the northbound and southbound alignments, these exposed pier gaps present an unacceptable safety risk to the structural system.
- To mitigate this risk and protect the structural elements from direct collision, a permanent reinforced concrete infill is proposed between the stems of all 3 (three) piers.
- At each pier location, the open space between the individual column stems will be infilled with reinforced concrete from the base (Top of Pier base) to a height of 1500 mm above finished road level. This will create a solid, continuous structural barrier integrated within the existing pier group footprint.

9. PROJECT SPECIFICATIONS

UMBILO RIVER BRIDGE

- Location

Umbilo River Bridge is located at km 18,37 on the N3.

- Description of existing Bridge

The existing culvert consists of 3/3.5m x 3.5m 6 cells of in-situ cast concrete.

- Proposed work – Structure widening and lengthening

The modified inlet will consist of two 4.3m x 4.0m and one 4.3m x 3.5m cells. The outlet is to be modified to include stilling basin and baffle piers.

9. PROJECT SPECIFICATIONS

HIGHLANDS ROAD OVERPASS: BRIDGE NO. B422 WIDENING AT 19.082 KM ON N3

- Description of existing Bridge

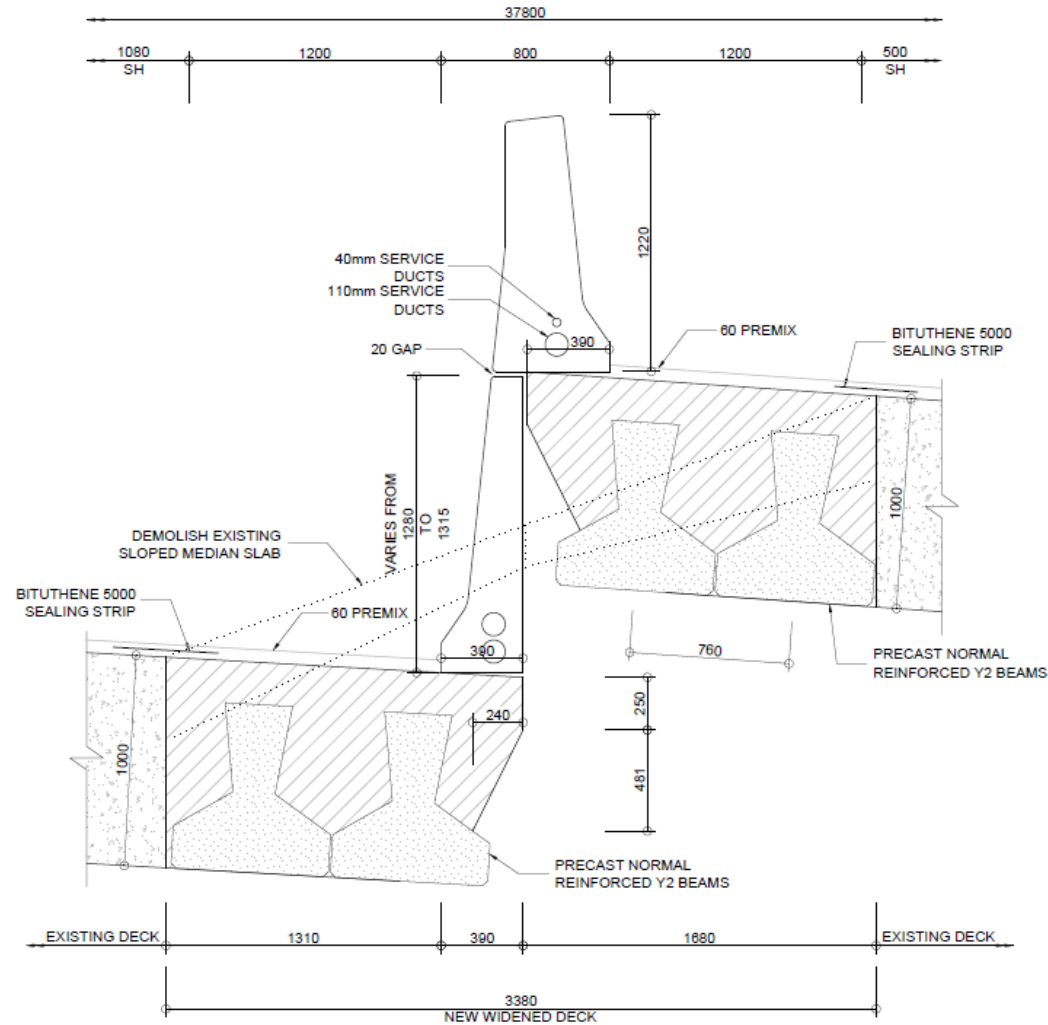
The existing bridge comprises a Portal type structure of 12,8 m wide and about 38 m long, crossing at 70° skew below the N3.

- Proposed upgrade

Only the median portion will be widened.

The figure below shows the extent of the work:

9. PROJECT SPECIFICATIONS



Showing the extent of the infill at Highland Road

9. PROJECT SPECIFICATIONS

C4.1.4.8 Retaining Walls

C4.1.4.8.1 Background

Retaining walls are required due to the required widening of the N3, the M1 and M7. Where the carriageway is located on an embankment or below a cutting, it is necessary to widen the embankment or cutting. There are thus two distinct retaining wall types, those that are required to retain new embankment widenings and those required to retain existing materials where widenings are created by cutting back slopes.

■ Retaining system options are:

a) Cuttings

- Soil nail and sprayed concrete lateral support with pre-cast panel facings.

b) Embankments

- CBR walls (Concrete Block Retaining Walls)
- RC walls (Reinforced Concrete Walls)
- MSE walls (Mechanically Stabilised Earth Walls)

9. PROJECT SPECIFICATIONS

C4.1.4.8.2 Retaining wall types

a) Cuttings

Cuttings comprising soil and/or highly to completely weathered rock will be cut by using lateral support and stabilization with galvanized soil nails and sprayed concrete generally in a “top-down” method. Hollow bars or self-drilling anchors may be required if soil collapse impedes the installation of normal soil nails. Drainage measures entail vertical band drains on a 1.5m c/c spacing, positioned in-between soil nails.

Various options of facings are possible and depend largely on aesthetic preferences. Pre-cast concrete planks can be used as cladding or alternatively, the shotcrete could be finished-off neatly or plastered to obtain the desired finish.

The bottom of the wall will be finished off and protected with pre-cast F-shape barriers. The top of the wall will be fitted with a drainage channel and coping. The channel will also act as a maintenance walkway.

9. PROJECT SPECIFICATIONS

b) Embankment Fills

i. CBR walls (Concrete Block Retaining Walls)

Where widened fills result in a wall height lower than 1.5m a segmental concrete block wall is considered the preferred retaining solution.

A variety of blocks may be considered to provide retaining walls typically at 70°-75° above horizontal. These walls will be founded on a level concrete strip footing and the fill will be reinforced with geosynthetics at 3 x block height intervals (~420mm). The length of reinforcing strips is generally >70% of the wall height.

ii. Mechanically Stabilised Earth Wall (MSEW)

The MSEW system comprises interlocking concrete panels, stacked on top of a concrete footing, that retains the soil mass. Lateral restraint, combatting active forces from the retained soil mass, is generated by either geogrids or steel strips fixed to the concrete panels; these reinforcing strips extend at least 0.7 x wall height into the retained soil mass.

At the top of the wall F-shape parapets will generally be required and a suitable foundation must be provided for this.

9. PROJECT SPECIFICATIONS

iii. Reinforced concrete retaining walls

Reinforced concrete (RC) cantilever walls are considered a viable solution to retain soil masses higher than 1.5m and up to about 5.0m.

The length of the heel and toe of the RC wall will be sized to limit the bearing pressures to the underlying soil material and to resist overturning and sliding.

At the top of the wall F-shape parapets, supported on the wall, will generally be required.

■ C4.1.4.8.3 Scope of retaining wall work

WALL TYPE	NO. OFF	LENGTH	ELEVATION AREA m ²	AVE HEIGHT m
Cut walls	5	1310 m	4217 m ²	3.3 m
MSE walls	3	775 m	2506 m ²	3.3 m
RC walls	4	540 m	1497 m ²	2.8 m
TOTALS	12	2625 m	8820 m²	3.2 m

The retaining walls have a total length of about 2625m and an elevational area of about 8820m².

9. PROJECT SPECIFICATIONS

Table C4.1.4(d): Retaining

SANRAL NO.	TYPE	V3 NUMBER	CONSTRUCTION NUMBER	
W2017	Cut	3	3	N3 – NBC
W2003	MSE	4	4	N3 – NBC (Ramp A)
W2018	Cut	16	16	N3 – SBC (Ramp B)
W2025	RC	32	28A	M7 – LHS
W2026	RC	33 & 34	28B & 28C	M7 – LHS & Ramp A
W2020	Cut	35	29	M7 – RHS (Ramp B)
W2028	MSE	36	30	M7 – LHS (Ramp A)
W2029	RC	37	30A	M7 – RHS (Ramp C)
W2019	RC	38	31	M7 – LHS (Ramp D)
W2040	MSE	58	43	M1 – LHS (Ramp C1)
W2041	Cut	59	43A	M1 – LHS (Ramp C1 – Next to walkway)
W2042	Cut	60	43B	M1 – LHS (Ramp C1 – Next to walkway)

9. PROJECT SPECIFICATIONS

C4.1.5 DRAINAGE

C4.1.5.1 Cross drainage

Cross drainage underneath the N3/1 will be extended or replaced to accommodate the widening of the freeway.

A new stormwater system will be provided at the M1, Richmond Road Interchange.

Existing stormwater will be removed where practical whilst the remainder of the redundant pipes and culverts will be backfilled with 20 MPa concrete.

Stormwater at outlet structures will be discharged onto the natural ground surface and erosion protection will be provided by means of gabions and gabion mattresses where required.

Stormwater at outlet structures on high fills will be discharged through down chute pipes.

C4.1.5.2 Road surface drainage

All existing road surface and side drainage systems are replaced as a result of the envisaged/required road widenings.

9. PROJECT SPECIFICATIONS

a) Side drains

Due to variety of edge conditions a number of different channels and kerbs are used.

For cut conditions, side drains consist of concrete line drain (2,5m wide) with grid inlets and manholes at determined locations to accommodate the design flow.

Concrete Type A drains are used at guard rails.

b) Median drains

The existing median drainage will be replaced with a 1,2m concrete one drain (Type F) and grid inlets which fit in with the median barriers.

c) Inlet and outlet structures

The existing inlet and outlet structure will be replaced with new structures as shown on the project drawing.

New kerb inlets and manholes will be provided at the M1 and local streets as shown on the drawing.

9. PROJECT SPECIFICATIONS

C4.1.5.3 Sub surface drainage

In general sub-surface drains are installed at all the deep cuttings infrastructure:

9. PROJECT SPECIFICATIONS

C4.1.6 UTILITY SERVICES

- The following service providers are involved:
 - Local Authorities:
 - eThekweni Traffic Authority
 - Coastal Stormwater and Catchment Management
 - Msunduzi Municipality
 - Electrical Service Providers:
 - Eskom
 - Water Service Providers:
 - Umgeni Water
 - eThekweni
 - Optic Fibre / Telecommunications Service Providers:
 - Dark Fibre Africa
 - Link Africa
 - Liquid Telecom
 - MTN

9. PROJECT SPECIFICATIONS

- Miscellaneous Service Providers:
 - SANRAL (TMC)
 - Techso (Regional Coordinator)
 - EPG/EFSA JV OHL Contractor
- The affected service providers are discussed in detail in Part C4 and show on the drawings.

9. PROJECT SPECIFICATIONS

C4.1.8 ANCILLARY WORKS

- **Road Restraint Systems (Guardrails)**

- The outer verge of the roads will receive guardrails in fill conditions (when fill >3m) and in front of street light masts and bridge piers.
- The positions of guardrails are shown on the longitudinal sections and general layout drawings included in Volume 4 Book 2.

- **F-Shape Median Barriers**

The position of the median barriers are shown on the longitudinal sections and layout drawings No. 10124000/MB01 – MB23 included in Volume 4 Book 3.

The position of the new median barriers are as follows:

- N3 between km 17,5 and km 22,9

9. PROJECT SPECIFICATIONS

Typical details and specific designs are shown on drawings no. 10124000/MB24 – MB59 included in Volume 4 Book 3.

The existing median barrier between km 22,9 and km 26,02 will be retained.

- **Road signs**

Road signage has been specified on the drawings and is based on the extensive use of overhead gantry supported signage due to the complexity of the road layout of the project section including the large number of lanes as well as further multiple lane ramp configurations. A limited number of signs (such as the advance warning map-type signs ahead of the interchange) are however pole-mounted on the side of the road.

Typical drawings are included in Volume 4 Book 1.

The detail road sign drawings no. 10124000/RS01-RS24 are included in Volume 4 Book 3.

9. PROJECT SPECIFICATIONS

- **Road markings**

The road markings will consist of water borne paint and thermo plastic paint markings will be applied on the final asphalt.

Typical road marking details are shown on drawing no.'s TD-RM-001 to RM-004 and TD-RM-100 to RM-400 included in Volume 4 Book 1.

- **Road studs**

The road studs on the lane lines (GM1) will be RSA-3 (circular cat's eye, glass type) embedded into the surface. The outer shoulder lines and yellow line will consist of RSA-1 (cast aluminium shell) anchored into the final surface.

- **Fencing**

New fencing shall be provided where additional road reserve is to be acquired, where the existing fence is within the road reserve i.e., not on the cadastral boundary) and the roadworks proposed require that it be re-positioned on to the cadastral boundary or where the existing fence needs replacing due to its condition or because it is non-existent.

9. PROJECT SPECIFICATIONS

Replacement fencing will typically consist of stockproof, pedestrian security fence, unless the existing fence is of a higher standard, in which case the replacement fence will be to the same standards as the existing fence.

Allowance must be made for anti-dazzle screen on the N3:

- At median barriers along the slip-lane at Edgewood College

The typical details of the median barrier with anti-dazzle screen are shown on typical drawing no.'s TD-FG-400 to 401 included in Volume 4 Book 1.

9. PROJECT SPECIFICATIONS

C4.1.9 STREET LIGHTS

- **Scope**

The scope entails the following:

- Upgrade of the existing street lighting on the N3 between km 23,0 and km 25,2
- Supply, installation and commissioning of new street lighting will be installed on the N3/1 between km 17,5 and km 23,0, as well as on all the ramps of Farningham Interchange, and in all the pedestrian underpasses.

- **Key components**

This contract covers the following key components:

- Masts and poles: Design, supply and installation
- Luminaires: Installation and commissioning
- Electrical works: Supply, installation and commissioning

9. PROJECT SPECIFICATIONS

- Power Connections: Payment to and co-ordination with local supply authority for provision of supply
- Security and monitoring system for transformers, cabling, kiosks and poles. This includes access control management into kiosks and transformers.

This contract covers the supply, delivery to site, testing, commissioning and handing over in proper working order of the complete lighting installation as specified in the Project Specification.

The luminaires shall be free issue to this contractor by the Luminaire and LMS Contractor. The Luminaire and LMS Contractor will be appointed by SANRAL via a separate tender process for the supply of the luminaires and associated lighting management system.

A Provisional Sum has been provided for in the Pricing Schedule for the procurement of luminaires.

The Design Engineer shall compile quotation documents for the procurement, evaluate and make recommendation to the Contractor for appointment of the supplier.

The LMS Contractor will be appointed by SANRAL via a separate tender process.

9. PROJECT SPECIFICATIONS

In addition, full maintenance of the installation shall be provided during the 12-month defects liability period.

- **Masts and Poles**

The project consists of the supply and installation of the following masts, poles and luminaires along the N3 Freeway Mainline and associated on- and off-ramps at the interchanges as applicable.

- 18m mid-hinged masts with double spigot configuration for installation of up to 4 x high performance LED street lighting luminaires, median mounted along sections of the N3 freeway
- 11.8m (10m mounting height (m-h)) anti-vandal/vandal proof direct buried poles with single spigot configuration for installation of 1 x LED street lighting luminaire, edge mounted along on/off ramps at interchanges and along the mainline at overhead powerline crossings

9. PROJECT SPECIFICATIONS

- 9.4m (10m m-h) baseplate mounted anti-vandal/vandal proof poles with single or double spigot configuration for installation of 1 or 2 x LED street lighting luminaires. These poles will be edge and median mounted on bases in the bridge parapets, which shall be modified where required.
- LED streetlighting luminaires will be supplied by the Luminaire Contractor.
- The existing 20m mid hinge masts installed in the median from km 23.0 to km 25.20 shall be reused for installation of 4 x high performance LED street lighting luminaires.

■ Electrical Works

The electrical work shall include the following:

- Supply, install, test and commission 380/410V 3 phase low voltage anti-vandal distribution kiosks with associated control and protective equipment.
- Supply, install, test and commission security cages around the low voltage distribution kiosks in accordance with the drawings and SANRAL Specifications.

9. PROJECT SPECIFICATIONS

- Supply, install, test and commission low voltage reticulation consisting of 35mm² & 50mm² 4 core Aluminium PVC Framingham SWA / ECC FRPVC 600 / 1000V cable with integral earth continuity conductor in ducts and/or trench, including trenching and concrete encasement

9. PROJECT SPECIFICATIONS

C4.1.11 AFFECTED PROPERTIES

- A number of properties are affected and are listed in Table C4.1.11:
- No access is provided/influenced along the N3 route section as this section operates as a freeway section.
- Average/All accesses influenced by road widening/construction activities on the remaining routes shall be maintained and reinstated following such works.

PROPERTY DESCRIPTION	PORTION	ACQUISITION PLAN NO.	OWNERSHIP
Ashley Erf 213	0	O-3-238-37_1	SANRAL
Erf 2867 Pinetown	Rem	O-3-238-43_1	Private
Ashley Erf 213	Ptn 4	O-3-238-47_1	SANRAL
Ashley Erf 216	0	O-3-238-46_1	Corporate
Ashley Erf 373	Ptn 3	O-3-238-41_1	SANRAL
Pinetown Erf 2868	Ptn 2	O-3-238-38_1	Private
Pinetown Erf 2870	Ptn 5	O-3-238-39_1	Private
Pinetown Erf 30658	0	O-3-238-42_1	Municipality
Ashley Erf 199	Ptn 12	O-3-238-75_1	Private
Pinetown Erf 2871	Ptn 2	O-3-238-40_1	Private

PROPERTY DESCRIPTION	PORTION	ACQUISITION PLAN NO.	OWNERSHIP
Pinetown Erf 6378	Ptn 1	P-3-238-67_1	Private
Erf 373 Ashley	Rem	O-3-238-76_1	Municipality
Pinetown Erf 6378	Ptn 2	P-3-238-66_1	Private
Pinetown Erf 2867	Rem Ptn 47	O-3-238-48_1	
Ashley Erf 216	Rem Ptn 2	O-3-238-49_1	
Ashley Erf 199	Rem Ptn 17	O-3-238-74_1	
Ashley Erf 373	Ptn 1	P-3-238-98_1	OOS

9. PROJECT SPECIFICATIONS

C4.1.12 MAINTENANCE WORK

The Contractor's responsibility for maintenance shall entail all maintenance except incident management on all the roads and all the maintenance for the full road reserve width. The incident management and existing surfaces of the N3 including the median as described above will be maintained by the Routine Road Maintenance Contractor.

The details of the Routine Road Maintenance Contractor responsible for this portion of the N3 Section 3 are as follows:

- Route Manager: Mr. Mxolisi Nkosi
 Zimile Consulting Engineers
 Cell. No.: 079 256 8476

- Contractor: Mr. Frikkie Brown
 Razzmatazz Civil (Pty) Ltd
 Tel. No.: (031) 785 1525
 Cell: 082 304 4171

9. PROJECT SPECIFICATIONS

C4.1.12 ACCOMMODATION OF TRAFFIC

- **Road Works**

Introduction

The traffic accommodation will be done strictly in accordance with the South African Road Traffic Signs Manual Volume 2, Chapter 14.

The goal is to implement traffic accommodation measures necessary for the successful rehabilitation and/or upgrading of this section of the N3, while meeting an acceptable traffic capacity, user safety and SANRAL's project requirements.

The specific objectives at the time of construction include the following:

- Ensuring that at least two (2) lanes per direction (where applicable) are available at peak periods during construction works.
- Developing workable accommodation proposals for each of the following specific subsections of the project:

9. PROJECT SPECIFICATIONS

- Interchange ramps
- Bridges

Therefore, the construction operations that will necessitate traffic accommodation measures are a combination of the following:

- Widening in the median to provide an additional lane and an inner shoulder lane.
- Strengthening of the existing pavement.
- Interchange improvements to both ramps and crossroads.
- Bridge construction at overpasses.
- Bridge construction at underpasses.

9. PROJECT SPECIFICATIONS

- **General Guidelines**

- Proposed signposted speeds.

ROAD	SIGNPOSTED SPEED
N3	80 km/h
Ramps	60 km/h
Streets	60 km/h

- Temporary barriers
Performance class H2W2B.
- Working width
400mm working width is allowed.

9. PROJECT SPECIFICATIONS

■ **Proposed Traffic Accommodation Measures on N3.1**

The upgrading of the N3/1 consists of the following three (3) types of upgrades from 6 lanes to:

The detailed construction stages are shown on cross sections no. 10124000/TA07 to TA10 and layout plans no. 10124000/TA21 to TA47 included in Volume 4: Book 1. The construction stages envisaged are briefly discussed below:

- km 17.5 - km 20.50: 4 lanes in each direction 8 lanes total
- km 20.50 - km 22.60 5 lanes in each direction 10 lanes total
- km 22.60 - km 26.02 4 lanes in each direction 8 lanes total

Stage 1: The basic approach is to construct one (1) lane in each direction on the median, as shown in Figure 1-1. A temporary drain will be constructed during this phase, as well as a temporary asphalt base (BTB). It is considered critical that the construction area and traffic be separated with temporary moveable concrete barriers. For section specific details on each type of traffic accommodation, refer to cross sections no. 10124000/TA07 to TA10 included in Volume 4: Book 1.

9. PROJECT SPECIFICATIONS

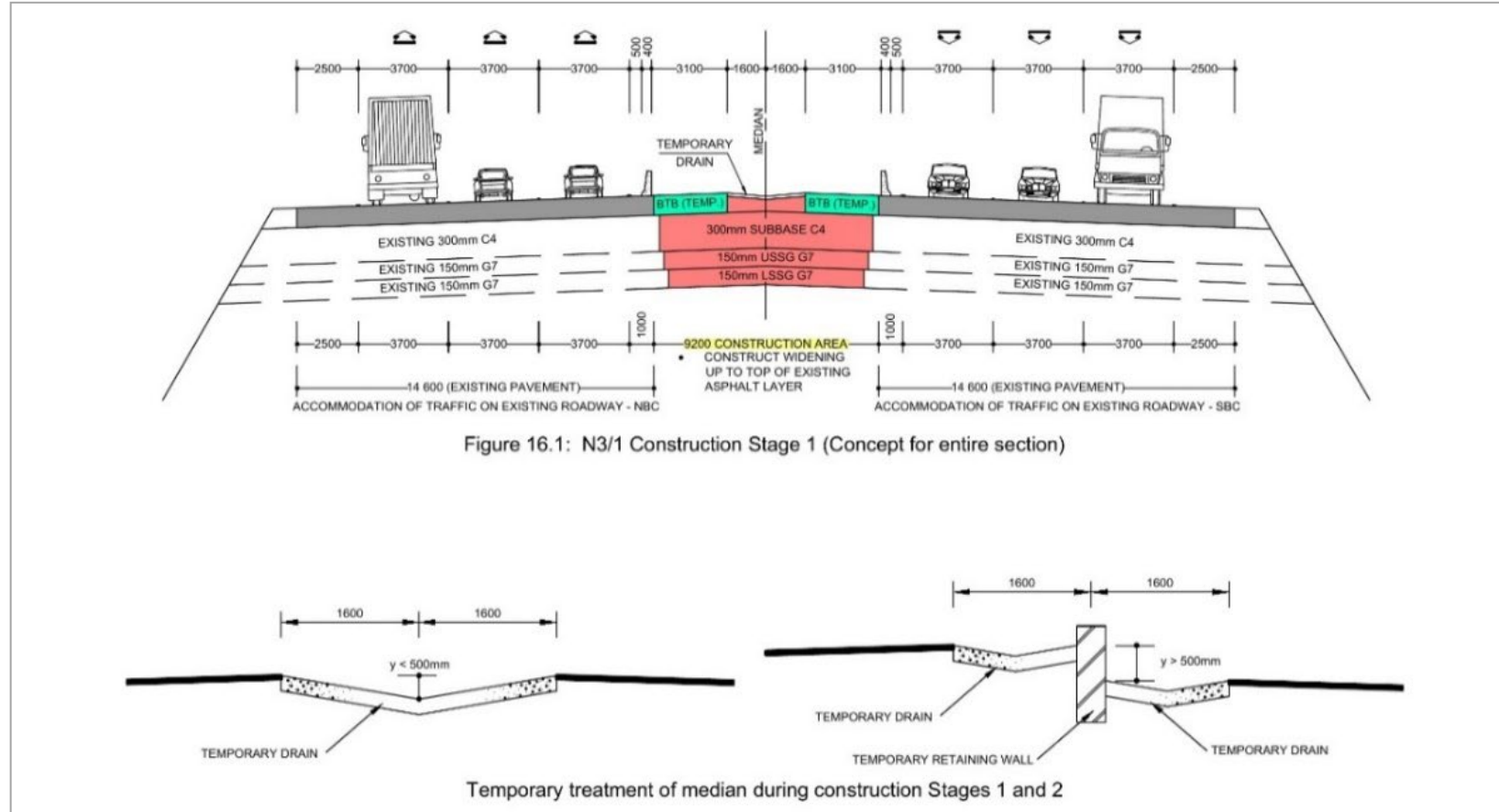


Figure 1-1: N3/1 – Construction Stage 1 (concept for entire section)

9. PROJECT SPECIFICATIONS

Stage 2: The new inner lanes will then be opened to traffic, and the outer lanes on both carriageways will be closed, as shown in Figure 1-2. This will allow three (3) lanes to remain open in both directions for the section between km 20.5 and km 22.6, for all the other sections the traffic lanes will be reduced to two (2) lanes in each direction. During this stage the widening and outer lanes will be constructed, only up to first asphalt surfacing layer.

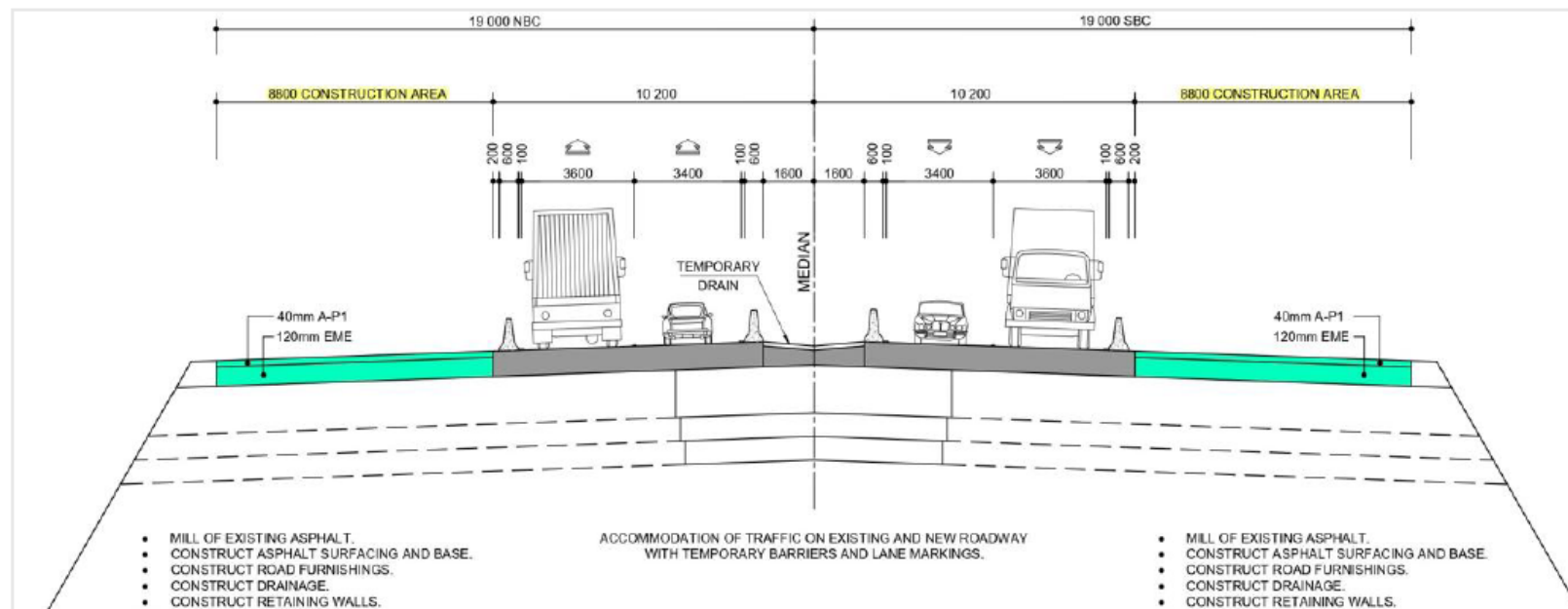


Figure 1-2: N3/1 – Construction Stage 2 (concept for entire section)

9. PROJECT SPECIFICATIONS

Stage 3: Once the outer lanes are constructed, the traffic will be moved onto the outer three (3) lanes for the section between km 20.5 and km 22.6, and onto the outer two (2) lanes for the remainder of the project road. This will allow work to continue on the existing middle and fast lanes and construction to the final level (40mm BRAOG), as well as painting the final road markings, as shown in Figure 1-3. During this stage the permanent median barrier and concrete lined channels will also be constructed.

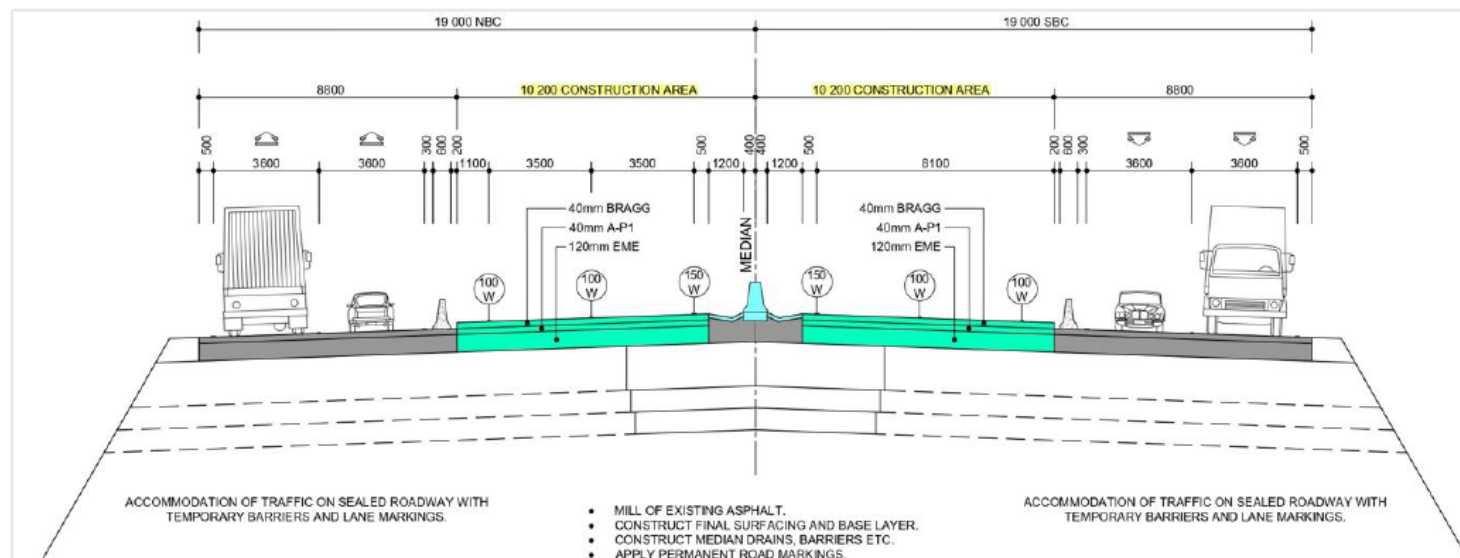


Figure 1-3: N3/1 – Construction Stage 3 (concept for entire section)

9. PROJECT SPECIFICATIONS

Stage 4: In this stage the traffic will be moved to the inner 2 or 3 lanes again, onto the permanent final pavement structure, as shown in Figure 1-4. This allows the construction of the second final surfacing (40 mm BRAOG) and for the final road markings to be painted. During this stage the permanent median barrier and concrete line channels will also be constructed.

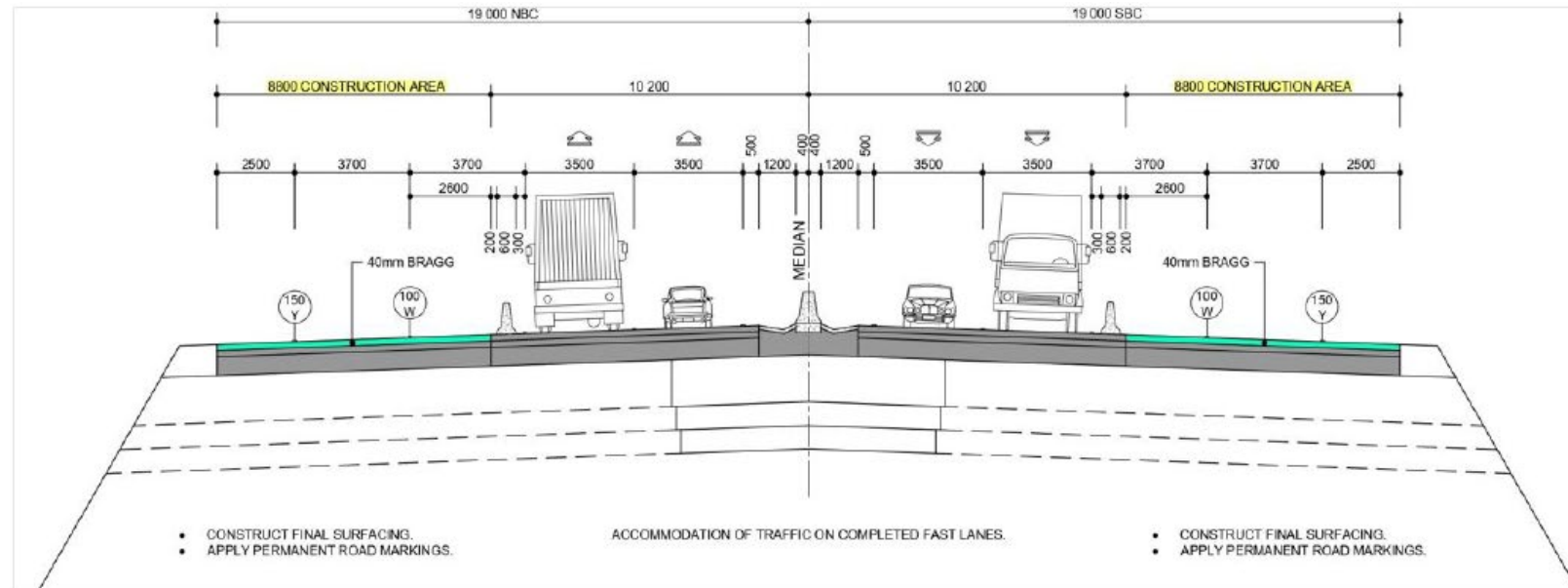


Figure 1-4: N3/1 – Construction Stage 4 (concept for entire section)

9. PROJECT SPECIFICATIONS

Stage 5: In this stage the full width of the road is opened to traffic.

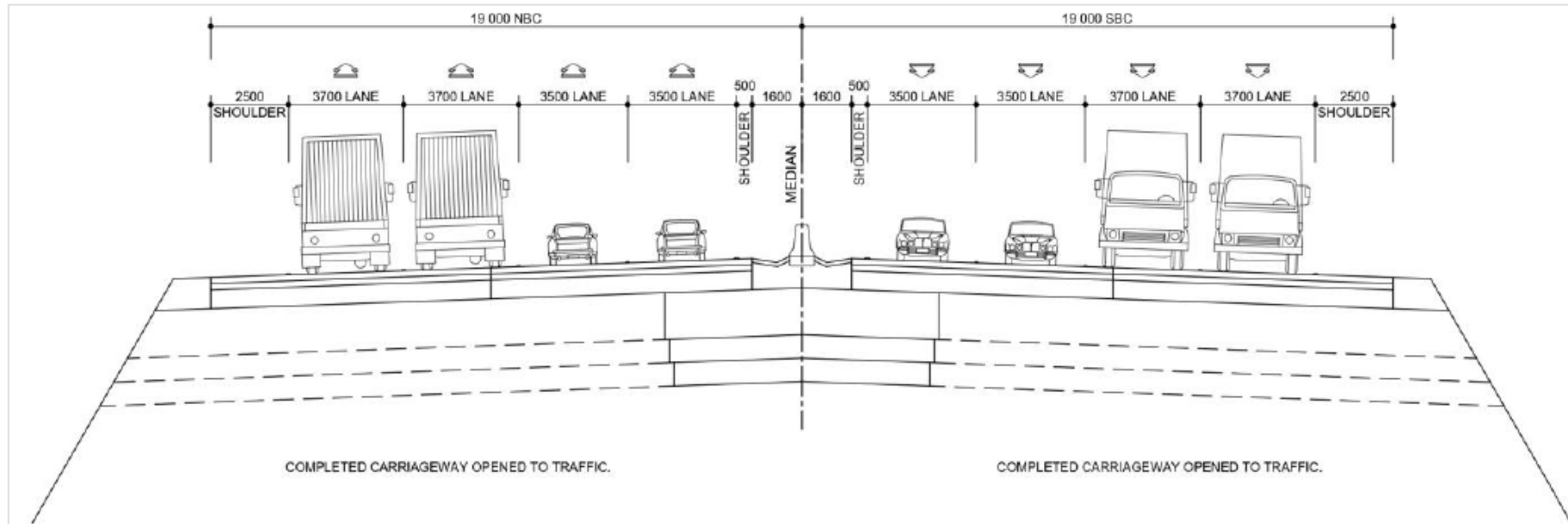


Figure 1-5: N3/1 – Construction Stage 5 (concept for entire section)

9. PROJECT SPECIFICATIONS

- **Proposed Traffic Accommodation Measures on the Ramps at Richmond Road Interchange**

All the ramps at Richmond Road Interchange will be realigned. The accommodation during stages 1 to 3 are shown on layout plans no. 10124000/TA60 to TA68 included in Volume 4: Book 1.

- **Proposed Traffic Accommodation Measures on the Ramps at Mahogany Ridge Interchange**

The two (2) ramps at Mahogany Ridge Interchange are of similar nature to the ramps at Farningham Interchange. Therefore, it is recommended to construct the upgrade of these ramps in halfwidths, similar to the ramps of Farningham Interchange.

- **Bridges and Structures**

The accommodation of traffic at the bridges and structures are discussed in detail in Part C4.

9. PROJECT SPECIFICATIONS

C4.2 Drawings

- The drawings that form part of the tender document are issued for tender purposes only.
- The contractor will be supplied with one set of paper prints plus a CD containing all the construction documentation.
- Only figured dimensions may be used and drawings may not be scaled unless so instructed by the engineer.
- The engineer will supply all figured dimensions omitted from the drawings.
- The levels given on bridge drawings are subject to confirmation on site, and the contractor shall submit all levels to the engineer for confirmation before he commences any structural construction work.
- It is the contractor's responsibility to check all clearances given on the drawings and to inform the engineer of any discrepancies.

9. PROJECT SPECIFICATIONS

C4.3 Camp establishment, power supply and other services

- The contractor is to make his own arrangements concerning the supply of electrical power and all other services.
- No direct payment will be made for the provision of electrical and other services.
- The cost thereof is deemed to be included in the rates and amounts tendered for the various items of work for which these services are required.
- The contractor himself shall provide a suitable site for his camp and for accommodating his labourers and allow for the use by all the Targeted Enterprises.

9. PROJECT SPECIFICATIONS

C4.5 Management of the Environment

- The contractor will be responsible for construction according to an environmental management plan in terms of Section C1000 Scope of Works.
- The contractor must take the utmost care to minimise the impact of his establishment and other construction activities on the environment and must adhere to the requirements as set out in Section C of the Scope of Works.
- Where the contractor fails to adhere to these requirements the specifications in Section C of the Scope of Works provide the methodology and cost liability of remedy.

9. PROJECT SPECIFICATIONS

C4.6 Traffic

- Traffic information for project is shown in the table below:

ROAD SECTION	KM	KM	TRAFFIC VOLUMES		% HV
			ADT	ADTT	
N3/1 – NBC					
Paradise Valley - Farningham Interchange	17.5	20.1	18981	2769	14,6%
Farningham Interchange - Richmond Road Interchange	20.1	23.1	30499	5484	18,0%
Richmond Road Interchange - Mahogany Ridge Interchange	23.1	25.1	24067	4976	20,7%
Mahogany Ridge Interchange - Toll Plaza	25.1	26.02	20644	4291	20,8%

9. PROJECT SPECIFICATIONS

ROAD SECTION	KM	KM	TRAFFIC VOLUMES		% HV
			ADT	ADTT	
N3/1 – SBC					
Paradise Valley - Farningham Interchange	17.5	20.1	23588	3519	14,9%
Farningham Interchange - Richmond Road Interchange	20.1	23.1	34775	6129	17,6%
Richmond Road Interchange - Mahogany Ridge Interchange	23.1	25.1	24436	5087	20,8%
Mahogany Ridge Interchange - Toll Plaza	25.1	26.02	21964	4824	22,0%

9. PROJECT SPECIFICATIONS

ROAD SECTION	KM	KM	TRAFFIC VOLUMES		% HV
			ADT	ADTT	
Farningham Interchange					
M7- SBC	0.3	1.8	18786	2675	14,2%
M7 - NBC	0.3	1.8	22059	3151	14,35
Ramp A	19.7	20.3	8652	2382	27,5%
Ramp B	19.2	20.44	7982	2210	27,7%
Ramp C	19.48	20.3	2866	333	11,6%
Ramp D	19.8	20.25	3205	400	12,5%

9. PROJECT SPECIFICATIONS

ROAD SECTION	KM	KM	TRAFFIC VOLUMES		% HV
			ADT	ADTT	
Richmond Road Interchange					
M1: Abbot Frances Road - N3/1 NB	0.2	1.4	11780	1024	8,7%
M1: Abbot Frances Road - N3/1 SB	0.2	1.4	15426	1277	8,3%
M1: N3/1 - Alexander Road NB	1.4	2.4	11796	1258	10,7%
M1: N3/1 - Alexander Road SB	1.4	2.4	18061	2478	13,7%
Ramp A1	22.67	23.2	5568	623	11,2%
Ramp A2	22.67	23.34	7529	976	13,0%
Ramp B	23.06	23.46	989	231	23,4%
Ramp C1	22.76	23.5	3932	789	20,1%
Ramp C2	22.72	23.34	1094	250	22,9%
Ramp D	22.7	23.1	9044	1351	14,9%
Ramp E			2386	700	29,3%
Ramp F			5588	573	10,3%

9. PROJECT SPECIFICATIONS

- All tenderers should take special note of these high traffic volumes as the accommodation of traffic will form a large part of the successful and timeously completion of this project.
- The tenderers should therefore familiarise themselves with all the possible risks involved in completing a project while accommodating these traffic volumes.

9. PROJECT SPECIFICATIONS

C4.7 Small Contractor Development, Training and Community Liaison

- The South African National Roads Agency SOC Limited is committed to the implementation of Government's policies and in turn expects the same from its contractors.
- Accordingly, it is a requirement of this project that tenderers are familiar with the specifications that relate to the transformation of the construction industry through the following:
 - ❑ adherence to the policies of the Reconstruction and Development Programme and other similar Government initiatives,
 - ❑ employment and/or creation of Targeted Enterprises,
 - ❑ arrangement of generic skills, engineering skills and entrepreneurial skills training programmes for which provision has been made in the Pricing Schedule,
 - ❑ construction using labour maximisation principles and,
 - ❑ active participation with community-based structures.

9. PROJECT SPECIFICATIONS

- Tenderers should note that liaison with Community Stakeholders via active participation with the Project Liaison Committee, as well as employment of people from within the community, are essential parts of the project.
- A provisional sum to cover costs incurred by members of the community in the liaison process has also been included in the Pricing Schedule.
- Section D of the Scope of Works covers the contractor's requirements in detail, as well as defining the targets that comprise the Contract Participation Goal (CPG).

9. PROJECT SPECIFICATIONS

C4.8 Climate

Temperature and rain fall data which is included in Part C4 is summarized in Tables C4.8.1 and C4.8.2 which is based on the data of Durban South AWS Station (0240808A2) for the period between 2000 and 2018.

- The mean annual precipitation for the area is 979.4mm. Most of the rainfall occurs during the mid-summer months from September to April.
- The average monthly rainfall for the summer months is between 30mm and 136mm with the heaviest precipitation of 136,8mm during November.
- The lowest rainfall occurs during the months of July and August.
- The average number of rain days per month is 13,3.
- The average daily minimum temperature during winter is 12,3 and 20,3 in summer.
- The average daily maximum temperature is 24,2 during winter and 27,3 during summer months.

9. PROJECT SPECIFICATIONS

C4.9 Requirements of the Occupational Health and Safety Act and Regulations 2014

- Refer to Section E of the Scope of Works for general requirements in terms of the OH & S requirements.

9. PROJECT SPECIFICATIONS

C4.10 Safety Procedures

- It is expected that the location of the contract and/or type of traffic accommodation measures has an increased risk of criminal activities aimed at the public.
- The tenderer is reminded of his responsibility to provide guards and fences for the protection of the public i.t.o. clause 4.8 of the conditions of contract.

9. PROJECT SPECIFICATIONS

C4.11 Other Information

Material utilisation.

a) General

The material utilisation and material sources are discussed in Volume 6 and shown on the mass haul diagrams no.'s 10124000-MD12 to MD28 included in Volume 4 Book 2.

b) Pavement layers and asphalt

All pavement layers (subbase, selected subgrade, shoulders and sidewalks) and asphalt must be obtained from commercial sources selected by the contractor.

c) Fill material

- Normal fill including rockfill
The material will be obtained from cuttings on site.
- Pioneer layer
The material will be obtained from cuttings on site or from commercial sources.

9. PROJECT SPECIFICATIONS

- Restricted backfill behind retaining walls

The material must be G5 material obtained from a commercial source.

d) Surplus materials from cuttings

- Good quality materials (G4 to G8)

± 185 000m³ cut material is available and needs to be crushed and screened by the contractors at his own site for the use as selected subgrade (G6).

- Spoil material

± 100 000m³ spoil material needs to be taken to the spoil site identified by the contractor.

e) Recycled/reclaimed asphalt road

- Top ± 30mm which is UTFC

The material must be milled off and taken to the contractor's spoil site.

9. PROJECT SPECIFICATIONS

- Balance of asphalt ($\pm 120\text{mm}$)

The material must be utilised in the manufacturing of the new asphalt (AP1 and EME) and subbase.

This must be done at the commercial sources identified by the contractor or at his own site.

f) Concrete aggregate

All the aggregate for bridges and retaining walls, drainage structures and new jersey barrier must be obtained from commercial source.

g) Site to be provided by the Contractor

- (i) Camp site:

Discussed in Clause C4.3.

9. PROJECT SPECIFICATIONS

(ii) Other site:

This site shall be utilised for the following activities:

- Crushing and screening plant
- Stockpiling of materials for selected subgrade, backfill material at retaining walls and asphalt
- Asphalt plant
- Concrete batching plant
- Spoil site

9. PROJECT SPECIFICATIONS

C4.12 Agreement to Occupy SANRAL's Property

- In the event that SANRAL-owned land be made available for the use of the contractor for his construction camps, offices, stores, workshops, and/or testing facilities, the use of such land will not be treated as a lease but will form part of the contract.
- In this regard the contractor shall complete the prescribed agreement and comply with all the conditions thereof as if it is part of the contract.
- The Employer's appointed service provider who administers and manages SANRAL owned land, will facilitate the process and the contractor shall liaise and co-operate with the service provider in this regard.

10. CLOSURE

In conclusion we want to stress the following:

- Highly Complex Nature of the Project
- Phasing of Works & Traffic Accommodation Planning is crucial for safety and managing delays to the traveling public
- Programming is integral to the completion of the Works
- Material management will be a critical aspect
- Challenges involved in the new COTO system
- Compliance to the conditions of the EMP
- Involvement of community and local labour is essential

Good luck & thank you