

TENDERER'S CLARIFICATION BRIEFING PRESENTATION

**CONTRACT SANRAL N.017-020-2018/1
THE MILL AND REPLACE OF SURFACING ON
NATIONAL ROUTE N17 SECTION 2 FROM N3
(KM 3.0) TO TONK METER (KM 33.45)**

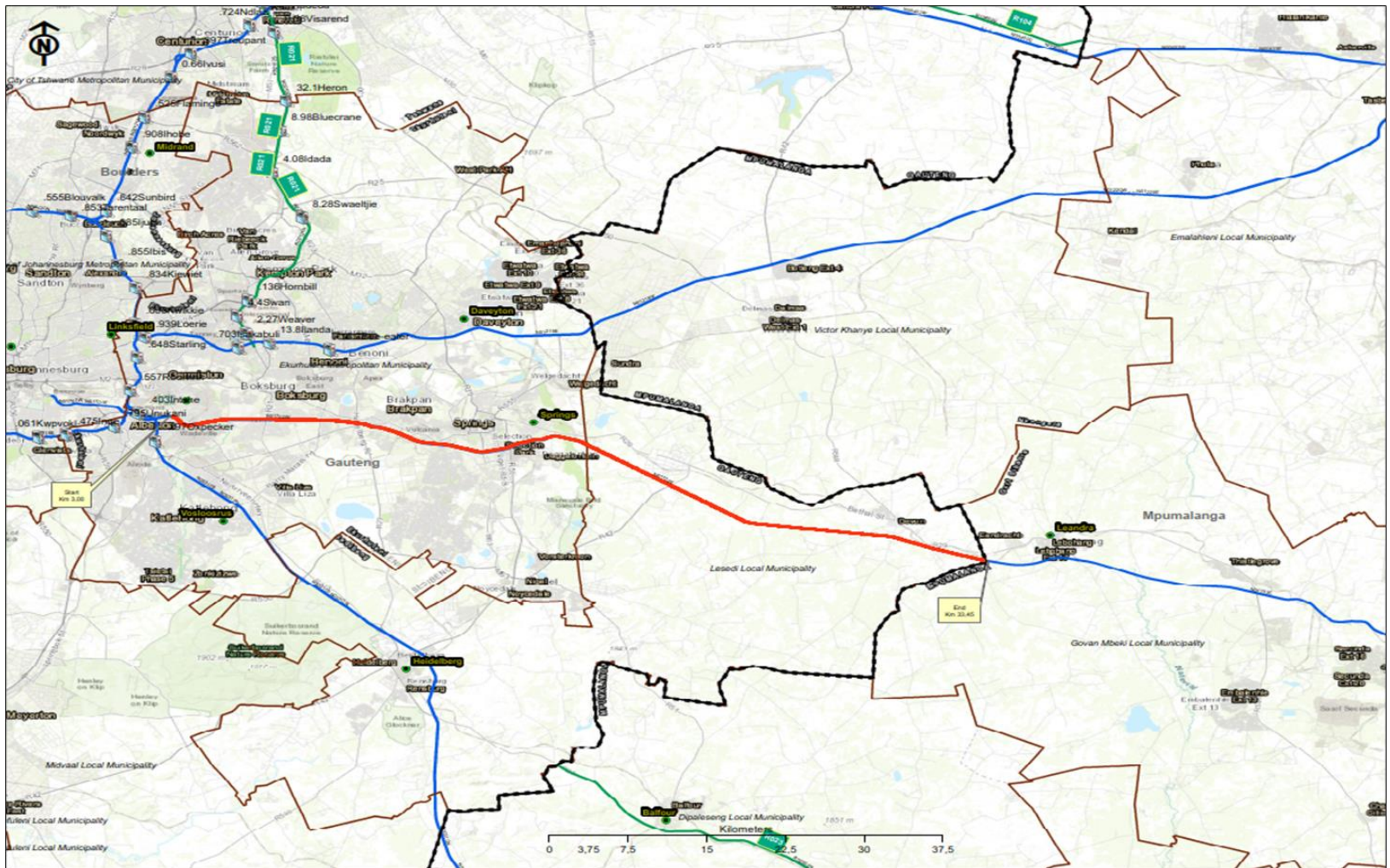
SANRAL



**BUILDING SOUTH AFRICA
THROUGH BETTER ROADS**

LOCALITY

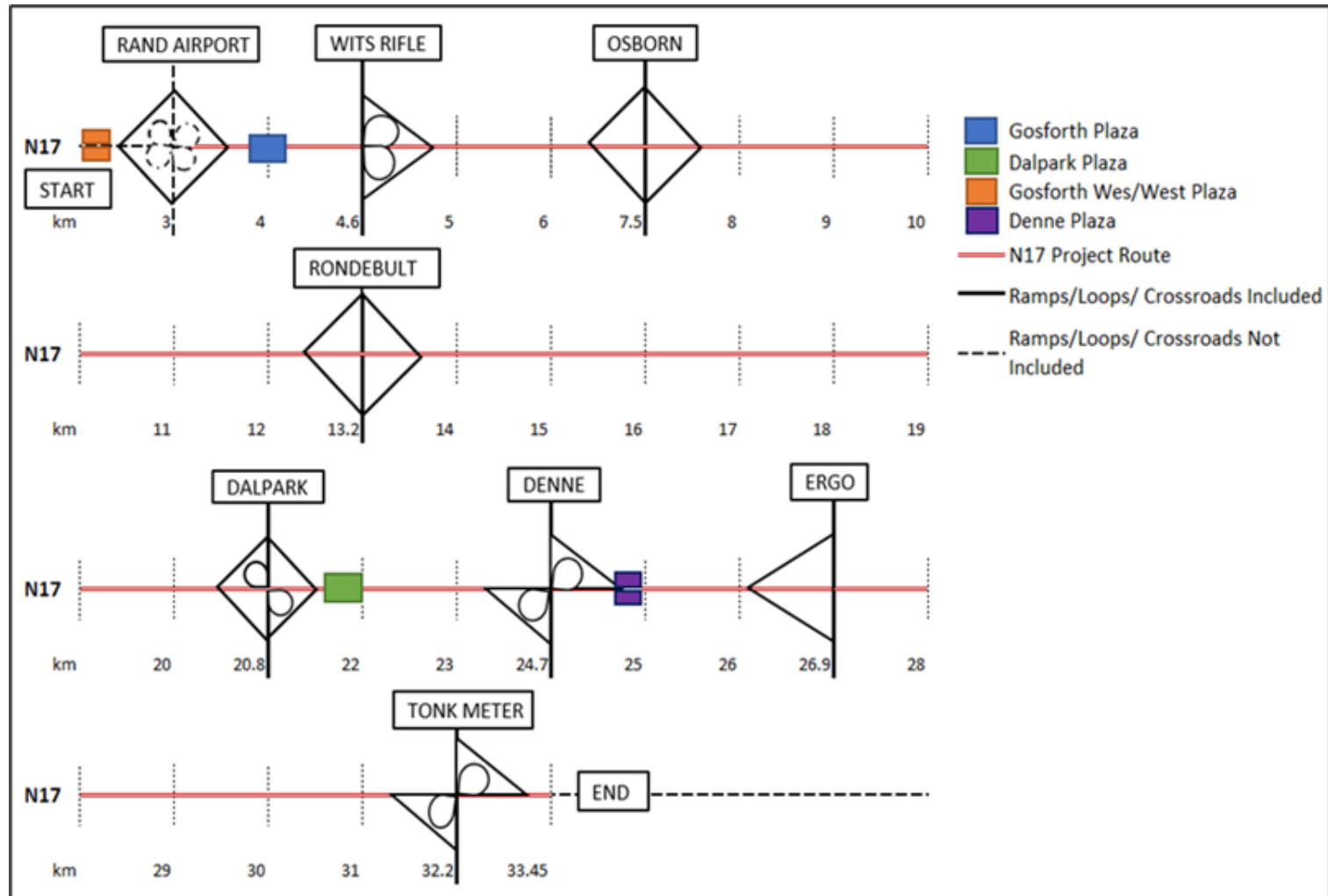
The length of the project is 30 km and is a dual and single carriageway. This project is in the province of Gauteng in the Ekurhuleni Metropolitan municipality.



GENERAL DESCRIPTION

National Route N17-02 consists of the following lane configurations:

- ▶ 6-lane dual carriageway: km 3.0 to km 5.1
- ▶ 6-lane single carriageway: km 5.1 to km 9.1
- ▶ 6-lane dual carriageway: km 9.1 to km 12.1
- ▶ 4-lane dual carriageway: km 12.1 to km 22.0
- ▶ 4-lane single carriageway: km 22.0 to km 33.45

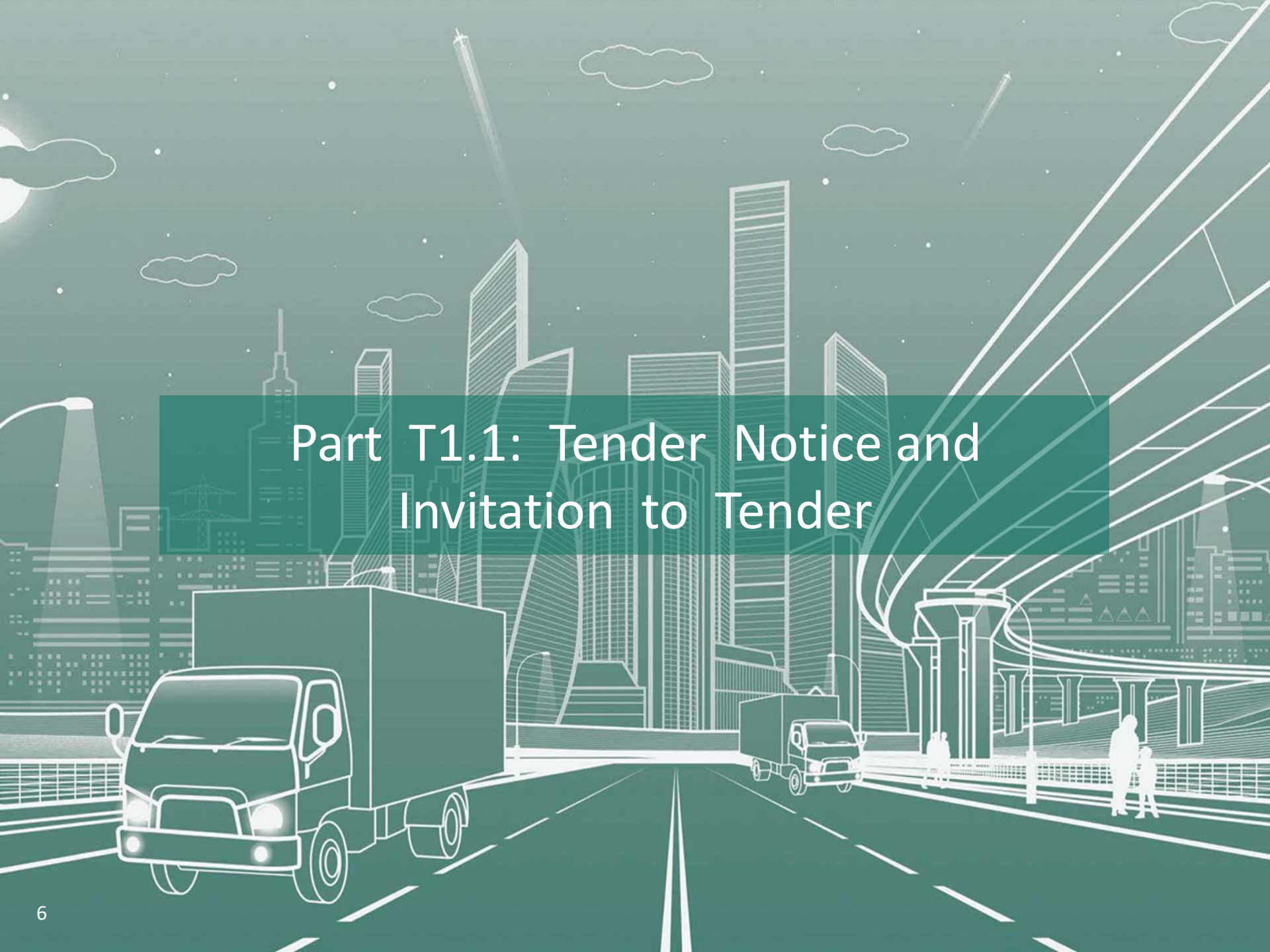


LIST OF DOCUMENTS

VOLUME	DESCRIPTION	OBTAINABLE FROM
Volume 1	Conditions of Contract for Construction for Building and Engineering Works Designed by the Employer (1999), published by the Fédération Internationale des Ingénieurs-Conseils (FIDIC)	CESA P. O. Box 68482, Bryanston, 2021. Tel: (011) 463 2022 Fax: (011) 463 7383 Email: general@cesa.co.za
Volume 2	The COTO Standard Specifications for Road and Bridge Works for South African Road Authorities (Draft Standard October 2020 edition), issued by the Committee of Transport Officials	From SANRAL and can be downloaded free of charge from the SANRAL's website www.nra.co.za .
Volume 3	The Project Document, containing the tender notice, Conditions of Tender, Tender Data, Returnable Schedules, general and particular conditions of contract, project specifications, Pricing Schedule, Form of offer and Project Information is issued by the Employer	Issued at tender stage in electronic format downloaded from the SANRAL's website
Volume 4	The road works drawings	On SANRAL website

Contents of Briefing

- T1.1 Tender Notice and Invitation to Tender
- T.1.2 Tender Data
- T.2 Returnable Schedules
- C1 Agreement and Contract Data
- C2 Price Data
- C3 Scope of the Works
- C4 Project Information



Part T1.1: Tender Notice and Invitation to Tender

Part T1.1: Tender Notice and Invitation to Tender

CIDB Regulation 25(1B) will not be applicable to this contract

Only tenderers who are **registered on the National Treasury Central Supplier Database** and meet the minimum threshold designated for local production and content as stated in the Tender Data C.2.1 are eligible to tender.

It is a requirement of this project that the successful tenderer subcontract a minimum of 40 percent (40%) or higher as tendered of the work by the end of the contract to Targeted Enterprise(s) as defined in the Contract Data.

It is estimated that tenderers should have a CIDB contractor grading designation of **9CE or higher**, however tenderers attention is drawn to clause C.2.1 of the Tender Data when submitting their tender.

Tenders from tenderers registered as potentially emerging enterprises but with a CIDB contractor grading designation lower than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(7A) of the Construction Industry Development Regulations, will not be accepted.

Part T1.1: Tender Notice and Invitation to Tender

TENDER DOCUMENTS

Tender documents are available at no cost in electronic format downloaded from the SANRAL's website by the following link: https://www.nra.co.za/sanral-tenders/status?region_id=national

Tenderers must submit, via email, the duly completed **Form A1.1** Certificate of Intention to Submit a Tender prior to **16 June 2023**. Failure to submit this certificate would result in the tenderer not receiving addenda or additional issued information and may result in the tenderer being non-responsive.

COMPLETION AND DELIVERY OF TENDERS

The closing time for receipt of tenders is **11h00** on **17 July 2023**.

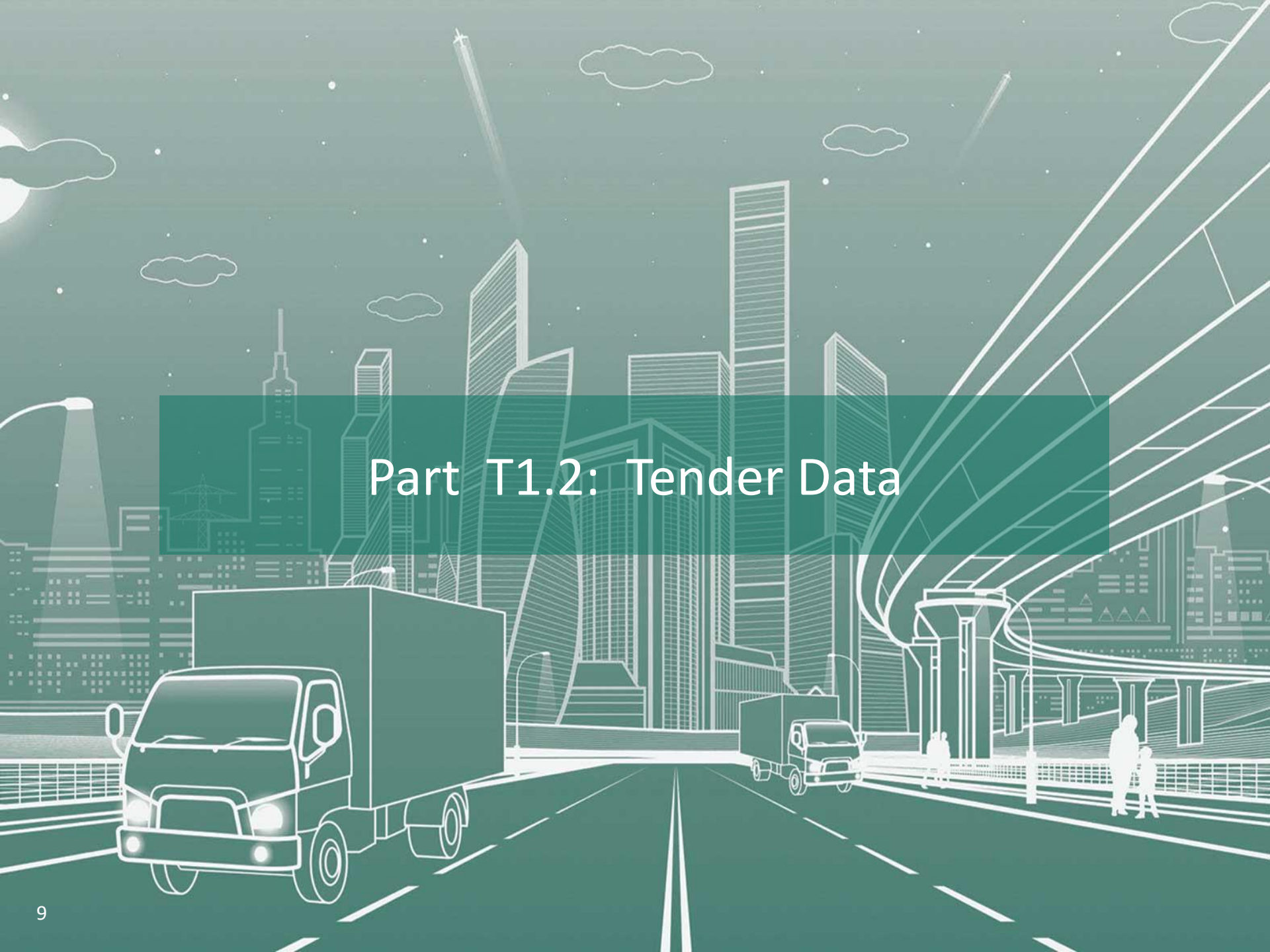
Telegraphic, telephonic, telex, email, facsimile and late tenders will not be accepted.

Tenders may only be submitted in the format as stated in the Tender Data.

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

LOCATION OF TENDER BOX FOR TENDER SUBMISSIONS:

Reception Area
38 Ida Street
Menlopark
Pretoria
0081



Part T1.2: Tender Data

Conditions of Tender

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

Part T1.2: Tender Data

Clause Number	Compilation of Tender Document				
C.1.1	Actions The Employer is The South African National Road Agency SOC Limited (SANRAL). The Employer's domicilium citandi et executandi (permanent physical business address) is: 48 Tambotie Avenue Val De Grace, Pretoria, 0184 The Employer's address for communication relating to this project is: <table data-bbox="278 765 1139 1022"><tr><td data-bbox="278 765 426 801">Delivery:</td><td data-bbox="857 765 977 801">Postal:</td></tr><tr><td data-bbox="278 851 498 1022">38 Ida Street Menlo Park Pretoria 0081</td><td data-bbox="857 851 1139 979">Private bag X17 Lynnwood Ridge 0040</td></tr></table>	Delivery:	Postal:	38 Ida Street Menlo Park Pretoria 0081	Private bag X17 Lynnwood Ridge 0040
Delivery:	Postal:				
38 Ida Street Menlo Park Pretoria 0081	Private bag X17 Lynnwood Ridge 0040				

Part T1.2: Tender Data (continued ...)

Clause Number	Compilation of Tender Document
C.1.2	Tender Documents The tender documents issued by the Employer comprise: Part T1: Tendering Procedures T1.1 Tender notice and invitation to tender (White) T1.2 Tender data (Pink) Part T2: Returnable Schedules T2.1 List of returnable documents (Yellow) T2.2 Returnable schedules (Yellow) Part C1: Agreements and contract data C1.1 Form of offer and acceptance (Yellow) C1.2 Contract data (Yellow) Part C2: Pricing data C2.1 Pricing instructions (assumptions) (Yellow) C2.2 Pricing Schedules / Bills of Quantities (Yellow) Part C3: Scope of work C3 Scope of work (Blue) Part C4: Project Information C4 Project Information (Green)

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data- Tender Submission
C.2.13 C.2.13.2	Submitting a tender offer The returnable documents shall be electronically completed in their entirety, submitted on the issued software format or fully compatible format, unless otherwise specified. Option 1: Submission in the tender box • Submit the tender offer electronically on a flash drive and printed hard copy of Form of Offer and summary of Pricing Schedule. • (In the relevant Ms Word 2013 and Ms Excel 2013 format as issued, and not in .pdf format, except where so specified.)
C.2.13.5	Only the following needs to be submitted: a) Main Tender Offer The following information to be submitted electronically on flash drive and marked Main Tender Offer followed by the “Tenderer name”, in the following order: - Form of Offer (signed and scanned as .pdf) - All returnable schedules and attachments and certificates specific to the tender (signed and scanned as .pdf) - Completed pricing schedule (scanned copy in .pdf, copy in MS Excel 2013 format and Printed Hardcopy of Form of Offer) b) For alternative offers the tenderer shall submit the following additional documentation, in an electronically on a separate flash drive marked Alternative followed by the “Tenderer name”: - Form of Offer (signed and scanned as .pdf and state “Alternative Form of Offer” and Printed Hardcopy of Form of Offer) - All returnable schedules and attachments and certificates applicable to the alternative offer (signed and scanned as .pdf) - Alternative Pricing Schedule (scanned copy in .pdf, copy in MS Excel 2013 format and Printed Hardcopy of Summary of Pricing Schedule) - Other relevant information.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data- Tender Submission
C.2.13.7	Place and seal the electronically completed tender document (flash drive) in an envelope or package 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.2.15	Closing time The closing time for submission of tender offers is 11h00 hours on <u>17 July 2023</u>
C.2.15.1	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: 38 Ida Street, Menlo Park, 0081 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 SANRAL N.017-020-2018/1 FOR THE MILL AND REPLACE OF SURFACING ON NATIONAL ROUTE N17 SECTION 2 FROM N3 (KM 3.0) TO TONK METER (KM 33.45) 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.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data-Eligibility Compliance
C.2.1	Eligibility Only those tenderers who satisfy the following eligibility criteria are eligible to submit tenders:
	a) CIDB registration (Form A12) Only those tenderers who are registered with the CIDB or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a CE class of construction work, are eligible to have their tenders evaluated.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data-Eligibility Compliance
C2.1	Joint ventures are eligible to submit tenders provided that: 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation in the CE class of construction work; or not lower than one level below the required grading designation in the class of works construction works under considerations and possess the required recognition status. 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for a CE class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations. Tenderers whose CIDB registration expires within the tender validity period, need to demonstrate that there is a reasonable chance of being registered in the appropriate grading designation during the tender evaluation period, by submitting a copy of their timely application for CIDB registration, with their tender submission.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data-Eligibility Compliance																						
C2.1	Tenderers registered as potentially emerging enterprises but with a CIDB contractor grading designation lower than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(7A) of the Construction Industry Development Regulations, are not eligible to have their tenders evaluated.																						
	<table><tr><th>Category of tender</th><th>Upper limits per CIDB Regulation 17 (effective 7 October 2019)</th><th>Employer's allowable margins</th></tr><tr><td>CE 1</td><td>R500 000</td><td rowspan="8">The Employer will use its discretion in terms of CIDB Practice Note 3 on allowable margins to be accepted</td></tr><tr><td>CE 2</td><td>R1 000 000</td></tr><tr><td>CE 3</td><td>R3 000 000</td></tr><tr><td>CE 4</td><td>R6 000 000</td></tr><tr><td>CE 5</td><td>R10 000 000</td></tr><tr><td>CE 6</td><td>R20 000 000</td></tr><tr><td>CE 7</td><td>R60 000 000</td></tr><tr><td>CE 8</td><td>R200 000 000</td></tr></table>			Category of tender	Upper limits per CIDB Regulation 17 (effective 7 October 2019)	Employer's allowable margins	CE 1	R500 000	The Employer will use its discretion in terms of CIDB Practice Note 3 on allowable margins to be accepted	CE 2	R1 000 000	CE 3	R3 000 000	CE 4	R6 000 000	CE 5	R10 000 000	CE 6	R20 000 000	CE 7	R60 000 000	CE 8	R200 000 000
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C2.1	The tender will be declared non-responsive if: • The Tenderer is not registered on CIDB within the required contractor grading and category prior to evaluation of submission, or • the Tenderer is suspended, or • the Tenderer has not declared interest of application to upgrade the grading.																						

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data-CSD Registration
C2.1	b) National Treasury Central Supplier Database (Form A3.4) Tenderers, or in the event of a joint venture, each member of the joint venture, must be registered on the National Treasury Central Supplier Database at the closing date for tender submissions. If not registered as verified online at tender closing; the tender will be declared non-responsive. Failure to satisfy all the eligibility criteria will result in a non-eligible tender.

Part T1.2: Tender Data (continued ...)

**Clause
Number**

Eligibility Compliance: Key Personnel

As per Form D4.2

If the tenderer's experience does not meet the stipulated minimum requirement or does not respond within stated period when requested to do so; the tender will be declared non-responsive in terms of clause C.3.13 (b) of the Tender Data.

Key Personnel and Minimum Requirements;		
Key Personnel Position	Professional Registration	Minimum Years of Relevant Experience
Contracts Manager	SACPCMP as PrCM or ECSA as PrEng or PrTechEng, PrTechni	5

Part T1.2: Tender Data (continued ...)

Clause Number	Eligibility Criteria: Past Experience
	<u>Form D5.1</u> The Tenderer must have satisfactorily completed (at least completed as a prime contractor, joint venture member, management contractor or sub-contractor) a minimum number of three (3) similar contracts matching the subject project's scope of work, between 1st January 2008 and tender submission deadline. Each completed contract must have a minimum value that exceeds R 200 million and have a Performance Rating not less than zero (0) Adequate, as rated in terms of the CIDB Performance Rating system or official reference letters from previous employer(s). <u>Form D5.2</u> Submission of this form is optional. This form must be submitted if the tenderer does not comply with the requirements of Form D5.1 and elects to list projects that are in progress to comply with afore- mentioned requirements.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data
C3.11.	Evaluation of tender offers The tenderer's attention is drawn to <u>Clause C3.11</u>. The conditions for the <u>Eligibility for B-BEE points</u> is explained in great detail.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data Acceptance of Tender Offer
C3.13	Acceptance of a tender offer The conditions stated in clauses C.3.13(a) to (f) of the Conditions of Tender as well as the following additional clauses C.3.13(g) to (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 5.11: g) the tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; h) the tenderer has not abused the Employer's supply chain management system; i) the tenderer has not failed to perform on any previous contract and has not been given a written notice to this effect; and j) the tenderer is tax compliant. The recommended tenderer who becomes non-compliant, prior to award, shall be notified and must become compliant within 7 working days of the date of being notified. A recommended tenderer who remains non-compliant after the 7 working days of being notified, shall be declared non-responsive. k) the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer. The licensed compensation insurer shall be approved by Department of Labour in terms of Section 80 of the Compensation for Injury and Disease Act, 1993 (Act No. 130 of 1993)

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data									
C3.13	In addition to the requirements under paragraph (b) of the Conditions of Tender, in the event that a due diligence is performed as part of the tender evaluation, the due diligence report will be used to evaluate the tenderer’s ability to perform the contract as stated in paragraph (b). The due diligence will evaluate the overall risk associated with the tender. The due diligence will take into consideration the following: • Assessment of financial statements to assess the financial position of the tenderer and its ability to obtain the necessary guarantees or insurances, • Evaluation of managerial and technical ability & available resources in relation to the proposed tender, • Integrity Risk Evaluation, • Operations, Activities, Locations and Key Customers, • Reference checks from previous clients, and • Risk rating (i.e. High Risk, Medium to High risk, Medium risk or Low risk) of the tenderer • Past Contracts comprising the following quantities of work completed satisfactorily and certified by the Engineer to demonstrate capacity and capability in relation to the proposed tender: <table><tr><th>COTO CHAPTER</th><th>DESCRIPTION</th><th>QUANTITY COMPLETED</th></tr><tr><td>9</td><td>Asphalt Layers</td><td>50 000 Tons (With evidence of 5000 tons per month)</td></tr><tr><td>9</td><td>UTFC</td><td>100 000 square metres (With evidence of 10 000 square metres per month)</td></tr></table>	COTO CHAPTER	DESCRIPTION	QUANTITY COMPLETED	9	Asphalt Layers	50 000 Tons (With evidence of 5000 tons per month)	9	UTFC	100 000 square metres (With evidence of 10 000 square metres per month)
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Part T1.2: Tender Data (continued ...)

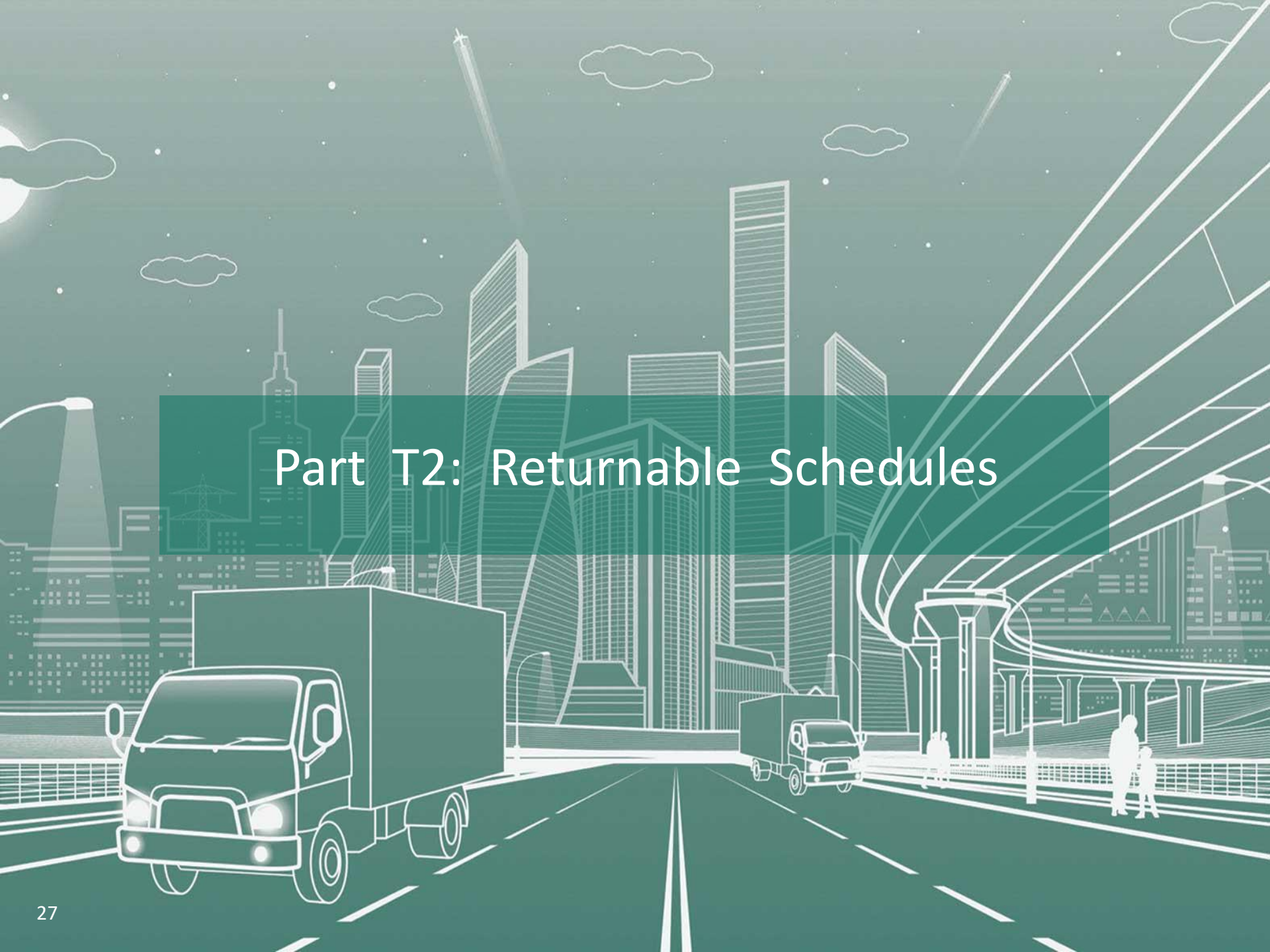
Clause Number	Tender Data
C.3.1	Respond to requests from the tenderer
C.3.1.1	The employer shall respond to clarifications received up to twelve (12) working days before tender closing date. The Employer shall respond to any clarifications from the tenderers emanating from the addenda until three (3) working days before tender closing date.
C.3.2	Issue Addenda The employer shall issue addenda until ten (10) working days before tender closing date.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data
C.2.16	Tender offer validity
C.2.16.1	The tender offer validity period is 24 weeks
C.2.16.3	Where a tenderer, at any time after the opening of his tender offer but prior to entering into a contract based on his tender offer: a) withdraws his tender; b) gives notice of his inability to execute the contract in terms of his tender; or c) fails to comply with a request made in terms of C.2.17, C.2.18 or C.3.9, such tenderer shall be barred from tendering on any of the Employer's tenders for a period to be determined by the Employer, but not less than six (6) months from a date determined by the Employer. This sanction also applies to tenders under evaluation and not yet awarded. This sanction does not apply to tenders under evaluation where a request for extension of the validity period was not accepted by the tenderer. The Employer may fully or partly exempt a tenderer from the provisions of this condition if he is of the opinion that the circumstances justify the exemption.

Part T1.2: Tender Data (continued ...)

Clause Number	Tender Data
C.2.18	Provide other material
C.2.18.1	Any additional information requested under this clause must be provided within 5 (five) working days of date of request.
C.3.18	Provide written reasons for actions taken
	All requests shall be in writing.
SC3.19	Jurisdiction
	Unless stated otherwise in the tender data, each tenderer and the Employer undertake to accept the jurisdiction of the law courts of the Republic of South Africa.



Part T2: Returnable Schedules

Part T2: Returnable Schedules

T.2.1 LIST OF RETURNABLE SCHEDULES

The tenderer must complete the following returnable schedules:

Notes to tenderer:

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

FORM F1: SCHEDULE OF TENDER COMPLIANCE

CONTRACT SANRAL N.017-020-2018/1

FOR THE MILL AND REPLACE OF SURFACING ON NATIONAL ROUTE
N17 SECTION 2 FROM N3 (KM 3.0) TO TONK METER (KM 33.45)

Note to tenderer:

This form has been created as an aid to ensure a tenderer's compliance with the completion of the returnable forms and schedules and subsequent uploading into the correct folder.

A1	CERTIFICATE CONFIRMING THAT THE TENDERER READ THE PRESENTATION BRIEFING	
A1.1	CERTIFICATE OF INTENTION TO SUBMIT A TENDER	
A2.1	CERTIFICATE OF AUTHORITY FOR SIGNATORY	
A2.2	DECLARATION OF TENDERER'S CURRENT STATUS OF ANY DEBT OUTSTANDING TO SANRAL	
A2.3	CERTIFICATE OF SINGLE TENDER SUBMISSION	
A2.4	CERTIFICATE OF FRONTING PRACTICES	
A2.5	DECLARATION OF DOMESTIC PROMINENT INFLUENTIAL PERSONS, FOREIGN PROMINENT PUBLIC OFFICIALS OR FOREIGN INFLUENTIAL NATIONALS (DPIPs, FPPOs OR FINs)	
A2.6	CERTIFICATE OF PERMISSION TO CONDUCT DUE DILIGENCE INVESTIGATION	
A3.1 / SBD4	BIDDER'S DISCLOSURE	
A3.2 / SBD9	CERTIFICATE OF INDEPENDENT TENDER – REPEALED & NOT APPLICABLE	REPEALED
A3.3	DECLARATION OF TENDERER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES	
A3.4	REGISTRATION ON NATIONAL TREASURY CENTRAL SUPPLIER DATABASE	
A3.5	DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS	
A3.6	LOCAL CONTENT DECLARATION: SUMMARY SCHEDULE	
A4	SCHEDULE OF DEVIATIONS OR QUALIFICATIONS BY TENDERER	
A5	SCHEDULE OF ADDENDA TO TENDER DOCUMENTS	
A6 / SBD2	CERTIFICATE OF TAX COMPLIANCE	
A7	CERTIFICATE OF INSURANCE COVER	
A8	TENDERER'S REGISTERED FINANCIAL SERVICE PROVIDER LETTER AND BANK DETAILS	
A9.1	SCHEDULE OF TENDER'S LITIGATION HISTORY	
A9.2	ENVIRONMENTAL, SOCIAL, HEALTH, AND SAFETY PERFORMANCE DECLARATION	
A9.3	COMPLIANCE WITH LABOUR LEGISLATION DECLARATION	
A10	SCHEDULE OF CURRENT COMMITMENTS	
A11	CERTIFICATE OF COMPLIANCE WITH COMPENSATION FOR OCCUPATIONAL INJURIES AND DISEASES ACT, 1993 (ACT NO. 130 OF 1993)	
A12	CERTIFICATE OF REGISTRATION WITH CIDB	
A13	FORM SBD1 – INVITATION TO BID AND TERMS AND CONDITIONS FOR BIDDING	
B1	CONTRACTORS ESTABLISHMENT ON SITE	
B2	SCHEDULE OF SPECIAL MATERIALS	
C1.1	TENDERER'S B-BBEE VERIFICATION CERTIFICATE	
C1.2 / SBD6.1	PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022 (INCORPORATING SBD6.1)"	
C1.3	BLACK OWNERSHIP DECLARATION	
C1.4	SUB-CONTRACTING DECLARATION	
D1	SCHEDULE OF TENDERER'S PLANT AND EQUIPMENT	
D2	TENDERER'S METHOD STATEMENT	
D3	TENDERER'S ORGANISATION AND STAFFING	
D4.1	TENDERER'S KEY PERSONNEL EXPERIENCE (Contracts Director)	NOT REQUIRED
D4.2	TENDERER'S KEY PERSONNEL EXPERIENCE (Contracts Manager)	
D4.3	TENDERER'S KEY PERSONNEL EXPERIENCE (Construction manager (Contractor's Representative))	NOT REQUIRED
D5.1	TENDERER'S EXPERIENCE BASED ON COMPLETED PROJECTS	
D5.2	TENDERER'S EXPERIENCE BASED ON PROJECTS IN PROGRESS	
D6	TENDERER'S INDICATIVE PROGRAMME	
D7	SCHEDULE OF ESTIMATED MONTHLY EXPENDITURE	
D8	SCHEDULE OF SUBCONTRACTORS	
D9	CORPORATE SOCIAL INVESTMENT	
E1	QUALITY ASSURANCE: UTFC	
E2	PERFORMANCE REPORT: UTFC	
E3	CONSTRAINTS FOR UTFC PRODUCTS AND PROCESSES	
E4	WIRE ROPE INFORMATION	NOT REQUIRED
E5	PHOTOMETRIC FILES	NOT REQUIRED
E6	LAMP LIFESPAN	NOT REQUIRED
E7	ELECTRICAL SCHEDULE OF MATERIALS	NOT REQUIRED
C1.1.1 / SBD7	FORM OF OFFER	
C1.2.3	CONTRACT DATA – INFORMATION PROVIDED BY THE TENDERER	
C2.2 / SBD3	PRICING SCHEDULE	



Part C1: Agreement and Contract Data

C1.2 CONTRACT DATA

C1.2.1 CONDITIONS OF CONTRACT

Note to tenderer:

- 1. The Conditions of Contract for Construction (1999 edition) published by the Federation Internationale des Ingenieurs-Conseils (FIDIC), as amended, shall apply to this contract. The amendments are those published by FIDIC and reproduced hereafter, together with additional amendments (particular conditions of contract) as prescribed by the South African National Roads Agency SOC Limited**

PART B: PARTICULAR CONDITIONS OF CONTRACT

Lists the 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

Notes to tenderer:

1. This form is the equivalent of the Appendix to Tender as defined in Sub-Clause 1.1.1.9 of the FIDIC Conditions of Contract.
2. Clause numbers (Cl. No.) refer to the FIDIC Conditions of Contract. The prefix A refers to an amendment to these conditions.

<u>Item</u>	<u>Cl No</u>	<u>Data</u>
Time for Completion	1.1.3.3.	20 months maximum (including the contractor's holidays in December and January), of which 2 months maximum will be the Mobilisation Period
Defects for notification period	1.1.3.7	12 calendar months
Mobilisation Period	A1.1.3.10	2 months maximum commencing on the Commencement Date.
Performance Security	A4.2	One Performance Security totalling 10% of the Accepted Contract Amount (excluding VAT) is required.
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) Two days before Easter Weekend until two days after 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: NONE (f) Sundays (g) Between sunset and sunrise
Period in which Works must commence	A8.1	Not prior to the date of Access to Site and not later than 1 Month after the end of Mobilisation Period
Embargo hours and days	A8.3(l)	Embargo period for seal work as defined in Part C3: Scope of Works, clause A10.1.3.2

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

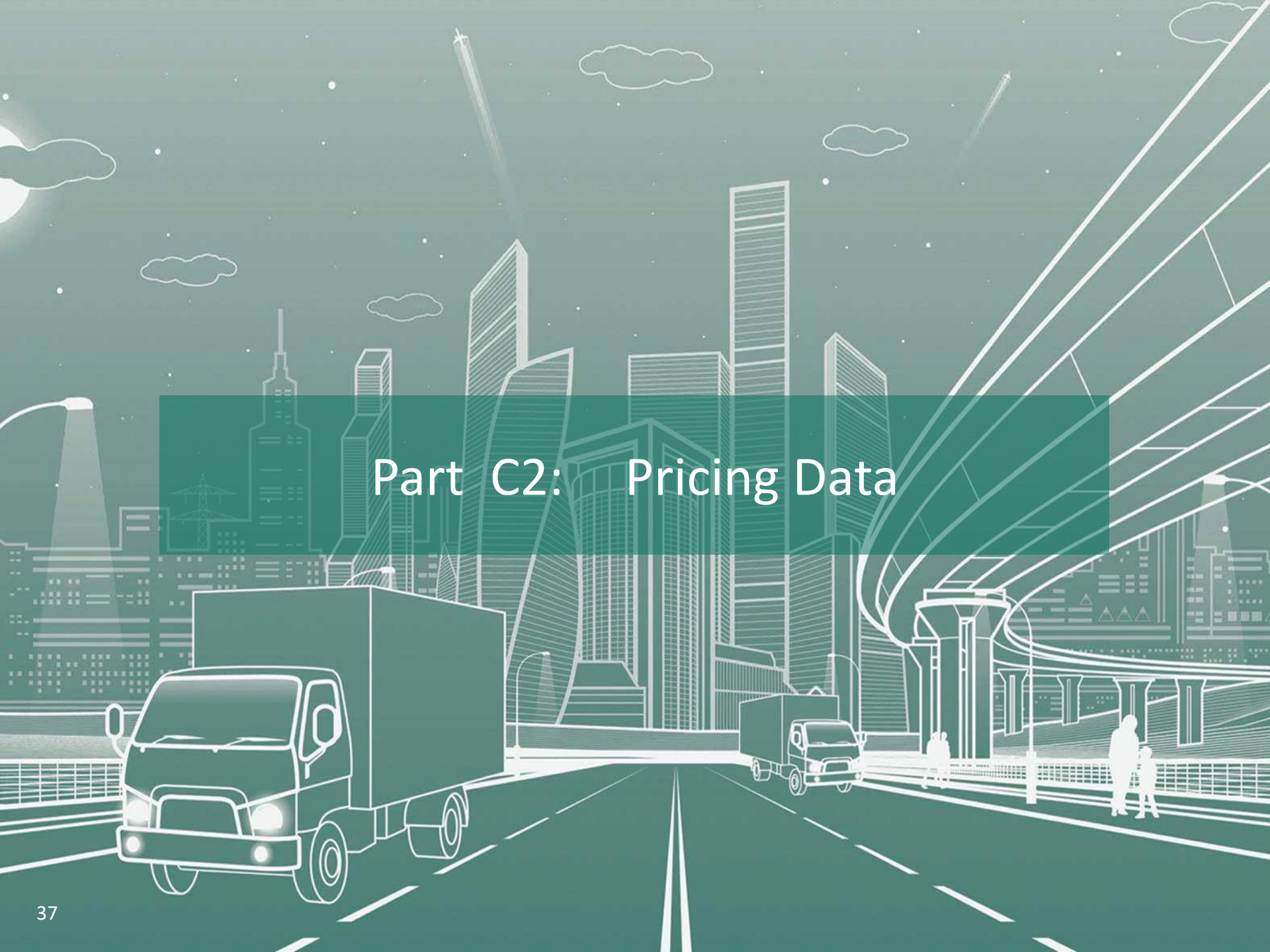
<u>Item</u>	<u>CI No</u>	<u>Data</u>
Restricted working conditions	A8.3(m)	Accommodation of traffic restrictions During the contractor's annual shutdown period between December and January, the contractor shall ensure that all temporary accommodation of traffic signs are removed and that all lanes are open to traffic. No STOP/GO one-way traffic sections shall be in operation and multiple lane bi-directional traffic shall be maintained and accommodated safely within the contract limits. The number of closures per direction at any one time shall not exceed three (3). The maximum work zone length shall be 2.5 km. The minimum gap between two consecutive work zone areas is 5 km. The Contractor shall further ensure that there is no vertical step between two opposing traffic lanes. No traffic shall be allowed to travel on milled surfaces.
Extension of time for completion	A8.4	An exceptional adverse climatic condition shall be considered where the return period of the climatic condition exceed a return period of 1:10
Delay damages	A8.7(a)	Delay Damages – R60 000.00 /day

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

<u>Item</u>	<u>CI No</u>	<u>Data</u>
Other Non-compliance Charges	A8.7(b)	Other Non-compliance charges: • Lane occupation levy (Occupation beyond completion dates and times, as well as for remedial work after completion of the Works) – R200 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 • Non-compliance to requirements of clause A8.3(m) for Accommodation of traffic restrictions during the contractor's annual shutdown period between December and January – R50 000.00 /day • 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 – R2000.00/hour • 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 • Contract Participation Targets – Calculated as per D1003.05 • Contract Skills Development Goal – Calculated as per D1010.05 • Subcontracting without disclosure or non-compliance to Subcontract agreement requirements – up to 10% of the Contract Price • UTFC lane rental – R200 000.00 /day Layer irregularities Asphalt – quantity/100m x unit rate x payment adjustment factor Concrete – quantity/100m x unit rate x payment adjustment factor Base – quantity/100m x unit rate x payment adjustment factor

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

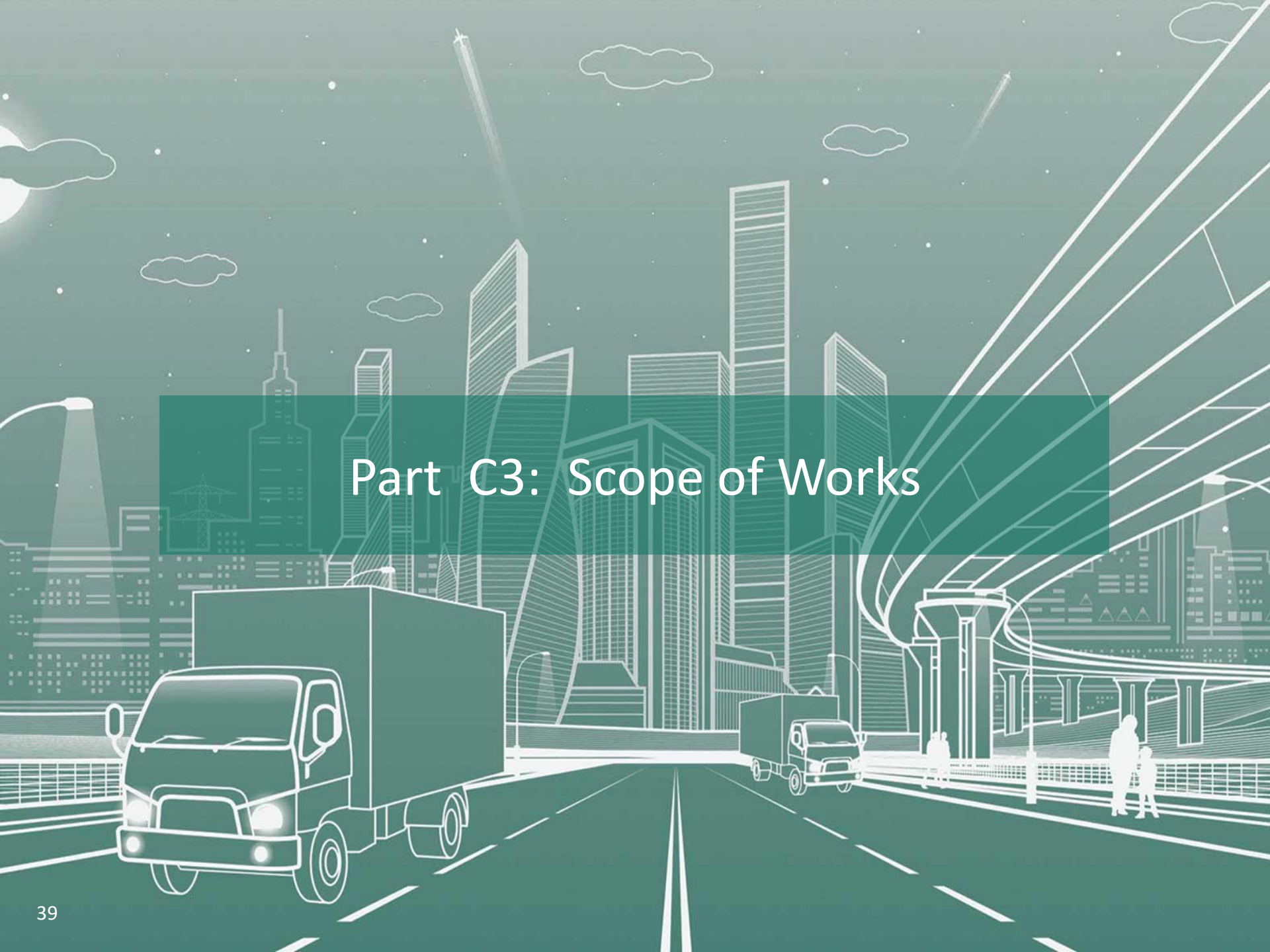
<u>Item</u>	<u>Cl No</u>	<u>Data</u>										
Retention money: - Percentage	A14.3(c)	10% of value of completed work										
- Limit	A14.3(c)	5% of the Accepted Contract Amount (Including VAT)										
- Guarantee	A14.3(c)	This will be considered provided that the tenderer submits his proposal as an alternative tender and provided that a discount equal to or more than R1 000 000.00 is offered. The discount shall be effected through two equal deductions from IPC 1 and 2.										
Subcontractors and suppliers	A4.4	The percentage of the contract value that may be sublet is dependent on the Minimum Targeted Enterprise subletting targets and shall not exceed the Maximum Subcontracting allowed % as per the following table: <table><tr><th>Minimum Targeted Enterprise (TE) subletting (%)</th><th>Maximum Subcontracting allowed (%)</th></tr><tr><td>≤40</td><td>60</td></tr><tr><td>>40 to <45</td><td>65</td></tr><tr><td>≥45 to <50</td><td>70</td></tr><tr><td>≥50</td><td>80</td></tr></table>	Minimum Targeted Enterprise (TE) subletting (%)	Maximum Subcontracting allowed (%)	≤40	60	>40 to <45	65	≥45 to <50	70	≥50	80
Minimum Targeted Enterprise (TE) subletting (%)	Maximum Subcontracting allowed (%)											
≤40	60											
>40 to <45	65											
≥45 to <50	70											
≥50	80											



Part C2: Pricing Data

- C2.1 PRICING INSTRUCTIONS
- C2.2 PRICING SCHEDULE (INCORPORATING SBD3)
- C2.3 SUMMARY OF PRICING SCHEDULE

C9.1 ASPHALT LAYERS				SCHEDULE A			
ITEM			DESCRIPTION	UNIT	QTY	RATE	AMT
C9.1.1			Asphalt mix designs:				
	C9.1.1.1		Stone skeletal mixes:				
		(b)	Ultrathin Friction Courses (UTFC)	lump sum	1		
	C9.1.1.2		Sand skeletal mixes:				
		(a)	Continuously graded surfacing, 45mm thick (NMPS 14mm) using Elastomeric Polymer Modified Binder PG58E-22, Sabita Manual 35, design level III	lump sum	1		
		(b)	Continuously graded base, 80mm thick (NMPS 20mm) using PG64E-16 binder, Sabita Manual 35, design level III	lump sum	1		
C9.1.2			Construction of trial sections:				
		(a)	Sand skeletal mix, Continuously graded asphalt surfacing, 45mm thick using Elastomeric Polymer Modified Binder PG58E-22 paver placed	m ²	1,500		
		(b)	Stone skeletal mix, Continuously graded asphalt base, 80mm thick using PG64E-16 binder paver placed	m ²	1,500		
	C9.1.2.2		Removal of trial section where so instructed by the Engineer	m ²	3,000		
C9.1.3			Application of bond coat:				
	C9.1.3.1		Stable -grade 30 % net bitumen emulsion as specified. Applied with a calibrated distributor	litre	708,000		
	C9.1.3.2		Applied in restricted areas using a portable pressure sprayer	litre	10,000		
C9.1.5			Asphalt surfacing:				
	C9.1.5.2		Rehabilitation:				
		(g)	Sand skeletal mix, Continuously graded asphalt surfacing, 45mm thick (NMPS 14mm) using Elastomeric Polymer Modified Binder PG58E-22, with maximum reclaimed asphalt percentage of 15%, Sabita Manual 35, design level III, paver placed	t	112,000		
		(h)	Certified: any mixes certified for specific applications by an approved agency as being fit for the purpose and as specified in the Contract Documentation.	t	30		
CARRIED FORWARD							



Part C3: Scope of Works

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.

SANRAL STANDARD SPECIFICATION SECTIONS

D1002	DEFINITIONS AND APPLICABLE LEGISLATION	
	D1002.01 Definitions	
	(r) Target Area(s)	For Targeted Labour: Ekurhuleni Metropolitan Municipality
	(w) Targeted Labour	Target Group for Targeted Labour: a. black designated groups (As per latest PPPFA Regulations); b. black people; c. women; d. people with disabilities
D1003	TARGET GROUP PARTICIPATION	
	D1003.04 Contract Participation Goal (CPG)	
	CPG for Targeted Labour:	Minimum of 6 % of the Final Contract Value by the end of the contract to Targeted Labour Targeted Labour appointed for the Community Development work shall not contribute towards the CPG for Targeted Labour. The Final Contract Value is defined in clause D1003.04
	Targeted Labour minimum contributions by the following Target Groups:	
	a. black designated groups; (i)Black people who are youth	30% of targeted labour value
	(ii)Black people who are persons with disabilities	0.3% of targeted labour value
	b. Black women;	30% of targeted labour value
	CPG for Targeted Enterprise	Minimum percentage of the greater of either 40% or the C1.1.1 Form of Offer stated percentage, of the Final Contract Value by the end of the contract to Targeted Enterprises. The Final Contract Value for purposes of this clause, is defined in clause D1003.04.

SANRAL STANDARD SPECIFICATION SECTIONS (CONTINUES)

D1003	Targeted Enterprise minimum contribution by the following Target Groups:	
	Targeted Enterprise with ≥51% ownership by Youth	Minimum of 5% of the Final Contract Value
	Targeted Enterprise with ≥51% ownership by Women	Minimum of 5% of the Final Contract Value
	Targeted Enterprise with ≥51% ownership by Military veterans	Minimum of 1% of the Final Contract Value
	Targeted Enterprise with ≥51% ownership by Disabled persons (Differently abled)	Minimum of 0.5% of the Final Contract Value
	Targeted Enterprise with CIDB 1 or 2 grading	Minimum of 1.5% of the Final Contract Value
	Targeted Enterprise with CIDB 3 or 4 grading	Minimum of 1.5% of the Final Contract Value
D1009	WORK SUITABLE FOR EXECUTION BY TARGETED ENTERPRISES	To assist the Contractor in achieving his CPG, the following work items have been identified as being suitable for execution by Targeted Enterprises: a) Erection and maintenance of the Contractor's camp site b) Clearing and grubbing. c) Provision of traffic control facilities. d) Management of traffic control facilities and traffic safety as part of the accommodation of traffic. e) Construction of small concrete and other structures. f) Patching and repairing edge breaks. g) Road markings. h) Finishing the road and road reserve. i) Site Security Services. j) Haulage of materials k) Supply of plant. l) Supply of fuel. m) Specialised subcontract work such as: i) Construction of concrete pavements. ii) Laying of asphalt using asphalt pavers. iii) Batch plant erection and operations. From the above work items, the following have been identified as suitable for execution by CIDB CE1 and CE2 Targeted Enterprises:

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.

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 Employer's Fourteen Point Plan

The scope of the work described in this Section D of the Specifications shall be based on the Employer's 14 principles for project liaison, sub-contracting and 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.

SECTION E: REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS

Note to tenderer:

Wherever reference is made in this section of the Scope of Works to contractor this is the equivalent of the *principal contractor* in the Occupational Health and Safety Act and Regulations. Similarly, reference to subcontractors is equivalent to *other contractors*.

E1001 SCOPE

The Occupational Health and Safety Act, Act 85 of 1993 (OHS Act) and its Regulations together with SANS Codes set out minimum standards with regards to Occupational Health and Safety. The South African National Roads Agency SOC Limited (SANRAL), has developed this Occupational Health and Safety Specifications with these minimum standards in mind and in certain aspects the requirements of SANRAL exceeds the minimum legal requirements to follow best practices and to ensure a healthy and safe workplace for all.

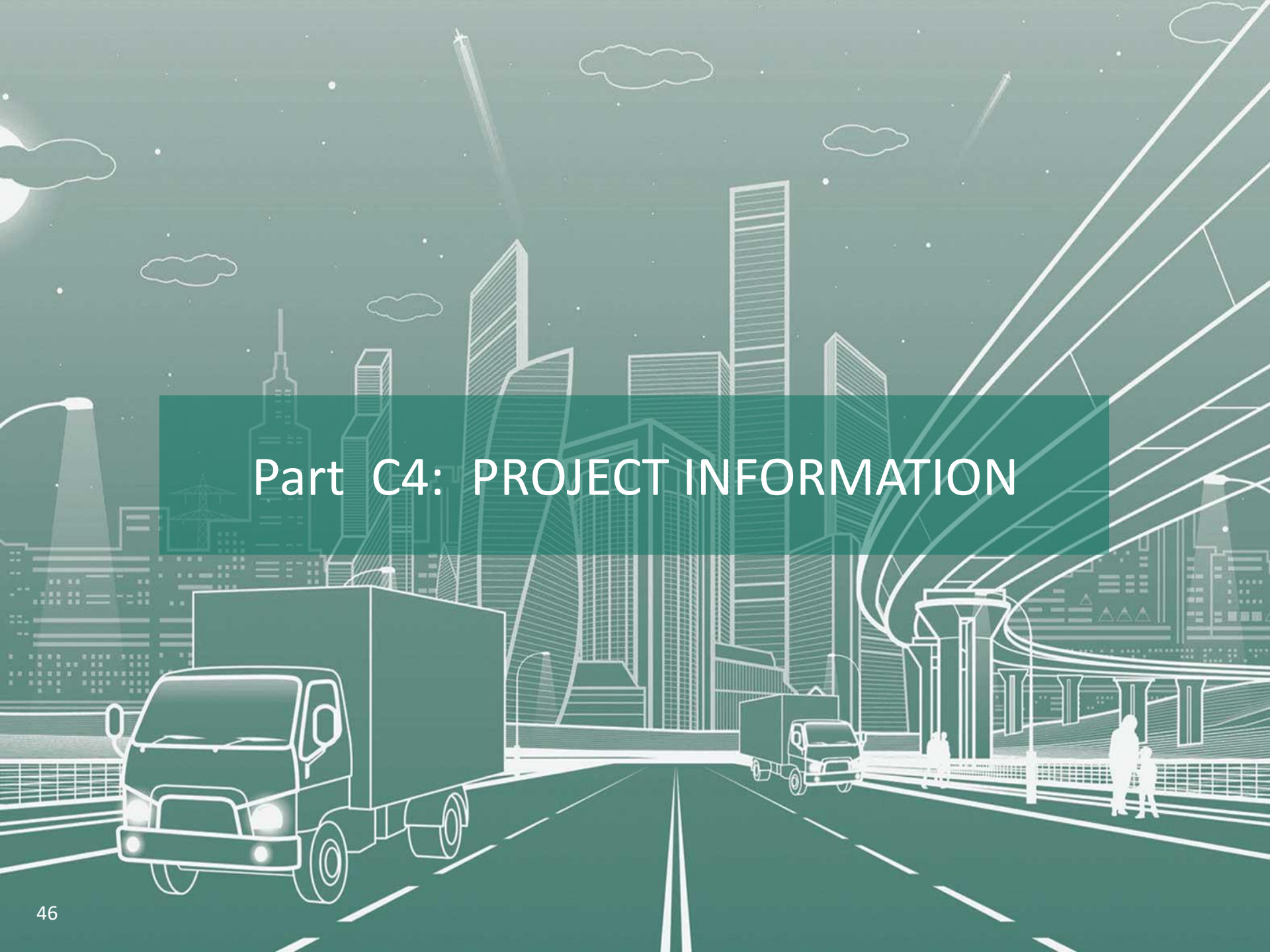
SANRAL in no way assumes The Principal Contractors legal liabilities and responsibilities. The Principal Contractor is and remains accountable for the quality and execution of his health and safety program for his employees. This Health and Safety Specification reflects minimum legal and SANRAL requirements and should not be construed as all encompassing.

It is realized that The Principal Contractor have its own Health and Safety Management system and safe work practices. The intention of this Health and Safety Specification is not to change The Principal Contractors Health and Safety management system, but for The Principal Contractor to use its current Health and Safety management system to draw up a project specific Health and Safety plan according to these specifications as well as to legally comply with the any applicable Regulations under the OHS Act and incorporated Standards.

It is the responsibility of the Principal Contractor and other Contractors to make themselves conversant and comply with the requirements and conditions contained in the various legislation pertaining to their profession and scope of works at all times.

This specification is not exhaustive of all duties imposed by the OHS Act and its Regulations, governing the duties and obligations, of a Designer, Principal Contractor and Contractor performing duties in terms of an agreement with the client (SANRAL). These duties are fully described in the OHS Act and its Regulations and it is the duty of every Designer, Principal Contractor and Contractor to acquaint themselves therewith before commencing work.

This specification is compiled to ensure that the Principal Contractor and any other Contractors working for SANRAL directly or through a Principal Contractor, are aware of the Occupational Health and Safety requirements when working on a SANRAL contract, as well as to make them aware of their legal liabilities and responsibilities as per the Occupational Health & Safety Act, Act 85 of 1993, and its Regulations.



Part C4: PROJECT INFORMATION

Description of Works

The project entails the mill and replace of National Route N17, section 02 from N3 Interchange (km 3.0) to Tonk Meter (km 33.45). The approximate project duration is 20 months which includes 2 months for the mobilisation period.

National Route N17-02 consists of the following lane configurations:

▶	6-lane dual carriageway:	km 3.0	to	km 5.1
▶	6-lane single carriageway:	km 5.1	to	km 9.1
▶	6-lane dual carriageway:	km 9.1	to	km 12.1
▶	4-lane dual carriageway:	km 12.1	to	km 22.0
▶	4-lane single carriageway:	km 22.0	to	km 33.45

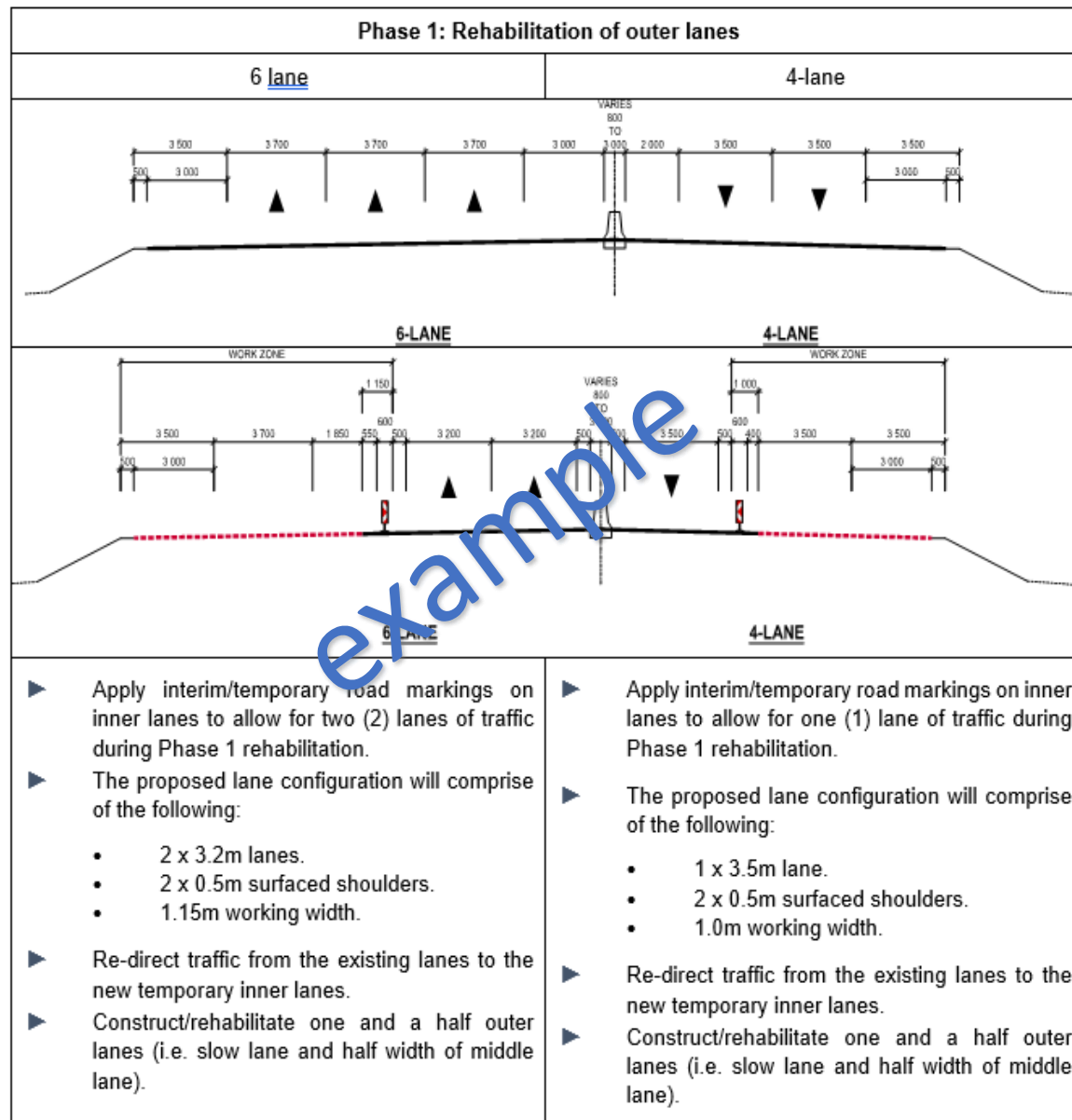
No change to the existing cross section is envisaged.

The objective of the accommodation of traffic design is to establish basic feasible alternatives to ensure that the resurfacing process can be executed without undue (within reasonable limits) interference to the general motoring public. Particular attention needs to be given to reduce the hazardous conditions inherently part of any construction/resurfacing process under traffic.

The signage proposed for the traffic accommodation must be consistent with measures recommended in the South African Road Traffic Signs Manual (SARTSM).

The proposed accommodation of traffic strategy entails reducing the number of lanes for each traffic flow direction by one (1) e.g., three (3) lanes will be reduced to two (2) lanes and two (2) lanes reduced to one (1).

Description of Works(continued)



Description of Works(continued)

PAVEMENT DESIGN FOR ALL PARTS OF THE VARIOUS ROADS

Main carriageway N17 Section 02

The existing surfacing is to be milled off to an approximate depth of 45mm and replaced with a sand-skeleton continuously graded Hot Mix Asphalt (HMA) with an Elastomeric Polymer Modified Binder PG58E-22 followed by an Ultra-Thin Friction Course (UTFC).

Pre-treatment as discussed in the paragraph below will be required during the mill and replace action.

The surfacing mix can incorporate up to 15% reclaimed asphalt (RA), subject to testing and measurement according to the specifications outlined in SABITA Manual 35 and TRH21. Furthermore, provision has been made for the stockpiling of all milled material, where the separation of the reclaimed asphalt can take place. The contractor shall dispose of the milled material, which is not designated for use as reclaimed asphalt (RA), at an approved spoil site.

Ramps and Crossroads

Five (5) ramps require a 45 mm overlay, eighteen (18) ramps require milling and replacement of the surfacing, followed by UTFC and isolated base repairs. For the remaining seven (7) ramps, a UTFC surfacing is required.

Pre-treatment Actions

Some pre-treatment actions will be required during the mill and replace action. The pre-marking of all defected areas will be carried out under the supervision of the Engineer. Refer to drawing 1001746-0005-DRG-RR-02-001. The various types of repair actions are:

Description of Works(continued)

- Crack sealing - Cracks of 3 mm and wider shall be sealed using hot applied modified binder crack sealant (Class C-E1 or similar) applied.
- Surface repairs - The existing surface layer shall be saw-cut to a depth of approximately 45mm and be removed. The underlying base layer shall be compacted (if required). A bond coat shall be applied to the area followed by a 45mm thick sand-skeleton continuously graded Hot Mix Asphalt (HMA) with an Elastomeric Polymer Modified Binder PG58E-22 surfacing. Provision has been made for the utilization of geosynthetic crack sealing at identified areas, the pre-marking of these areas will be carried out under the supervision of the engineer.
- Base repairs - Hot The base failures will be repaired with a sand-skeleton continuously graded Mix Asphalt (HMA) base using PG64E-16 binder. To avoid water ponding, the following procedure should be followed during the base repair action:
- ▶ Failed base areas will be marked before milling or overlaying commences;
 - ▶ Milling will then take place where required;
 - ▶ The remaining surfacing layer shall be saw-cut and together with the base be removed;
 - ▶ The underlying subbase shall be cleaned, compacted and a bond coat applied;
 - ▶ The base shall be replaced with a bituminous treated base layer (BTB), constructed in layers that do not exceed 80mm thick.

Description of Works(continued)

Concrete Repair Actions at Toll Plazas

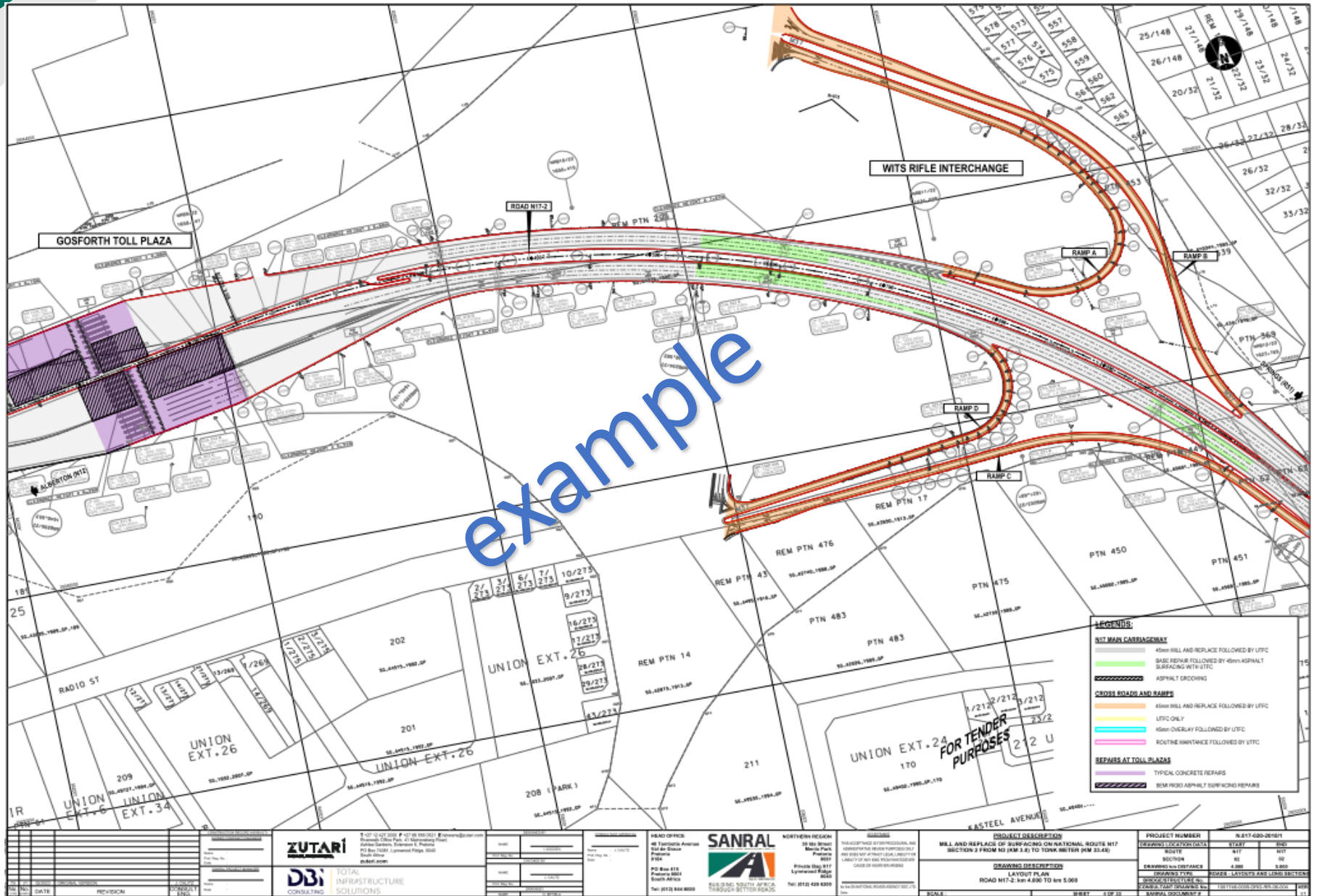
The concrete areas at the toll plaza's will be repaired as follows, :

- ▶ Cracked slabs - Fine cracks will be reamed, foreign materials removed and sealed. Open cracks or where slabs are rocking provision has been made for the entire slab to be removed and replaced.
- ▶ Shattered slabs - The entire slab will be removed and replaced.
- ▶ D-Crack - Full depth repair will be done.
- ▶ Joint seal condition – All joint seals will be resealed.
- ▶ Longitudinal and transverse cracks - Degree 3 cracks will be reamed, foreign materials removed and sealed. For degree 5 cracks full depth repair will be done.
- ▶ Joint spalling - For degree 1 cracks will be reamed, unsound concrete removed and sealed. In the case of degree 3 to 5 spalls partial depth spall repair shall be done with high strength epoxy.
- ▶ Damaged cement grouted open graded Asphalt – Replacement of damaged existing cementitious grouted gap graded Asphalt – The damaged section will be milled out, and all the defective material should be removed. Afterward, it should be replaced with certified mix by an approved agency conforming to the specifications as prescribed in Part C3, Section A, sub-clause A9.1.5.10.

Description of Works(continued)

Action	Quantity
Main carriageway N17 Section 02	
Milling out of existing surfacing to an approximate depth of 45mm	42 000 m ³
Backfilling of patches by means of sand-skeleton continuously graded Hot Mix Asphalt (HMA) base using PG64E-16 binder constructed in layers that do not exceed 80mm thick.	42 000 ton
Crack sealing by means of hot-air lance cleaning and sealing with C-E1	50 000 m
Mill out the existing asphalt on bridge decks to an approximate depth of 60mm.	5500 m ³
Replace the surfacing milled out with 45mm thick sand-skeleton continuously graded Hot Mix Asphalt (HMA) with an Elastomeric Polymer Modified Binder PG58E-22	95 000 ton
Overlay the N17-02 with 18 mm thick UTFC	900 000 m ²
Installation of geosynthetic crack sealing	20 000 m ²
Replace bridge joints:	1000m
- Metal claw joints (80mm movement)	1000m
- Asphaltic plug joints (500x100mm)	
Concrete repairs:	6900m
- Replacing of joint sealant	430 m ³
- Full and partial depth repairs using hand placed concrete with CEM I 52,5	
- Replacement of damaged existing cementitious grouted gap graded Asphalt	6800m ²
Ramps / Crossroads	
Milling out of existing surfacing on Ramps and Crossroads to an approximate depth of 45mm	10 000 m ³
Backfilling of patches by means of sand-skeleton continuously graded Hot Mix Asphalt (HMA) base using PG64E-16 binder constructed in layers that do not exceed 80mm thick.	21 000 ton
Overlay all ramps and crossroads with 18mm thick UTFC	280 000 m ²

Description of Works(continued)



Description of Works(continued)

POSSIBLE COMMERCIAL SOURCES

Company name	Aggregates	Asphalt	Cement	G - materials	Distance to N3/N17 interchange
Actop		Yes			38 km
Afrisam	Yes			Yes	36 km
Asphalt Gauteng		Yes			40 km
Drift Supersand	Yes			Yes	50 km
Firmabuild	Yes			Yes	63 km
Gauteng Asphalt		Yes			62 km
Magnum Sand and Stone	Yes		Yes	Yes	14 km
Much Asphalt		Yes			25 km

Description of Works(continued)

DRAINAGE WORKS

The works contract excludes the construction of new drainage works or improvement of the existing drainage elements of the road.

STRUCTURAL WORKS

(a) *Culverts*

The works contract excludes the construction of new culverts and the extension of any of the existing culverts.

(b) *Bridges*

The works contract excludes the construction of new bridges and the widening of any of the existing bridges. However, bridge joints will be replaced.

The general procedure when installing bridge joints are as follows:

1. Remove asphaltic surfacing and bridge joints;
2. Clean joints;
3. Place temporary steel cover plates over joints;
4. Repair damaged sidewalk, kerbs and parapets in locations of joints;
5. Repair damaged concrete at joints;
6. Complete road and bridge surfacing;
7. Cut surfacing and install joints. Reinforcement to be replaced in locations where reinforcement for joints were damaged due to removal of existing bearings.

(c) *Other structures*

None.

Description of Works(continued)

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 is to make his own arrangements in providing a suitable site for his camp and for accommodating his labourers.

CONSTRUCTION IN CONFINED AREAS

It will be necessary for the contractor to work within confined areas. In certain places the width of the fill material and pavement layers may decrease to zero and the working space may be confined. The method of construction in these confined areas largely depends on the contractor's constructional plant.

Regardless, measurement and payment will be in accordance with the specified cross-sections and dimensions only, irrespective of the method used for achieving these cross-sections and dimensions. It is deemed that the rates tendered in the Pricing Schedule include full compensation for all special equipment and construction methods and for all difficulties encountered when working in confined areas and narrow widths, and at or around obstructions. No extra payment will be made nor will any claim for additional payment be considered in such cases. (Refer to standard specification sub-clause C1.1.3.2(b)).

Description of Works(continued)

TRAFFIC

Eastbound

Description	Traffic stations						
	371	1587	373	1588	2101	927	928
Relevant year	2012	2018	2019	2019	2022	2019	2019
Average daily traffic	25 187	27 922	20 670	8 583	9 745	9 485	8 189
Average daily truck traffic	1 285	1 983	1 530	961	731	854	1 048
Percentage of heavies	5.1%	7.1%	7.4%	11.2%	7.5%	9.0%	12.8%
Truck split percentage (short: medium: long)	48:22:30	54:14:32	47:16:37	44:11:45	37:15:48	39:12:49	42:13:45

Westbound

Description	Traffic stations						
	1587	372	1586	1588	2101	927	928
Relevant year	2018	2011	2019	2019	2022	2019	2019
Average daily traffic	27 255	24 667	28 579	14 156	10 016	9 581	8 004
Average daily truck traffic	1 935	1 159	1 715	1 826	721	815	993
Percentage of heavies	7.1%	4.7%	6.0%	12.9%	7.2%	8.5%	12.4%
Truck split percentage (short: medium: long)	58:12:30	41:23:36	47:16:37	48:17:35	37:15:48	39:12:49	42:15:43

Description of Works(continued)

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:

- (i) adherence to the policies of the Reconstruction and Development Programme and other similar Government initiatives,
- (ii) employment and/or creation of Targeted Enterprises,
- (iii) arrangement of generic skills, engineering skills and entrepreneurial skills training programmes for which provision has been made in the Pricing Schedule,
- (iv) construction using labour maximisation principles and,
- (v) active participation with community-based structures.

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).

THANK YOU FOR YOUR ATTENTION

SANRAL WEB ADDRESS: www.nra.co.za

ENQUIRIES: Procurementnr1@sanral.co.za