

**SCOPE OF WORKS PRESENTATION:
CONSULTING ENGINEERING SERVICES FOR THE
UPGRADE FROM GRAVEL TO SURFACED ON
NATIONAL ROUTE R380 SECTION 2 FROM SANTOY
(KM8.40) TO MCCARTHY'S REST (KM 118.46)**

CLARIFICATION MEETING

WESTERN REGION

WEDNESDAY, 10 APRIL 2024

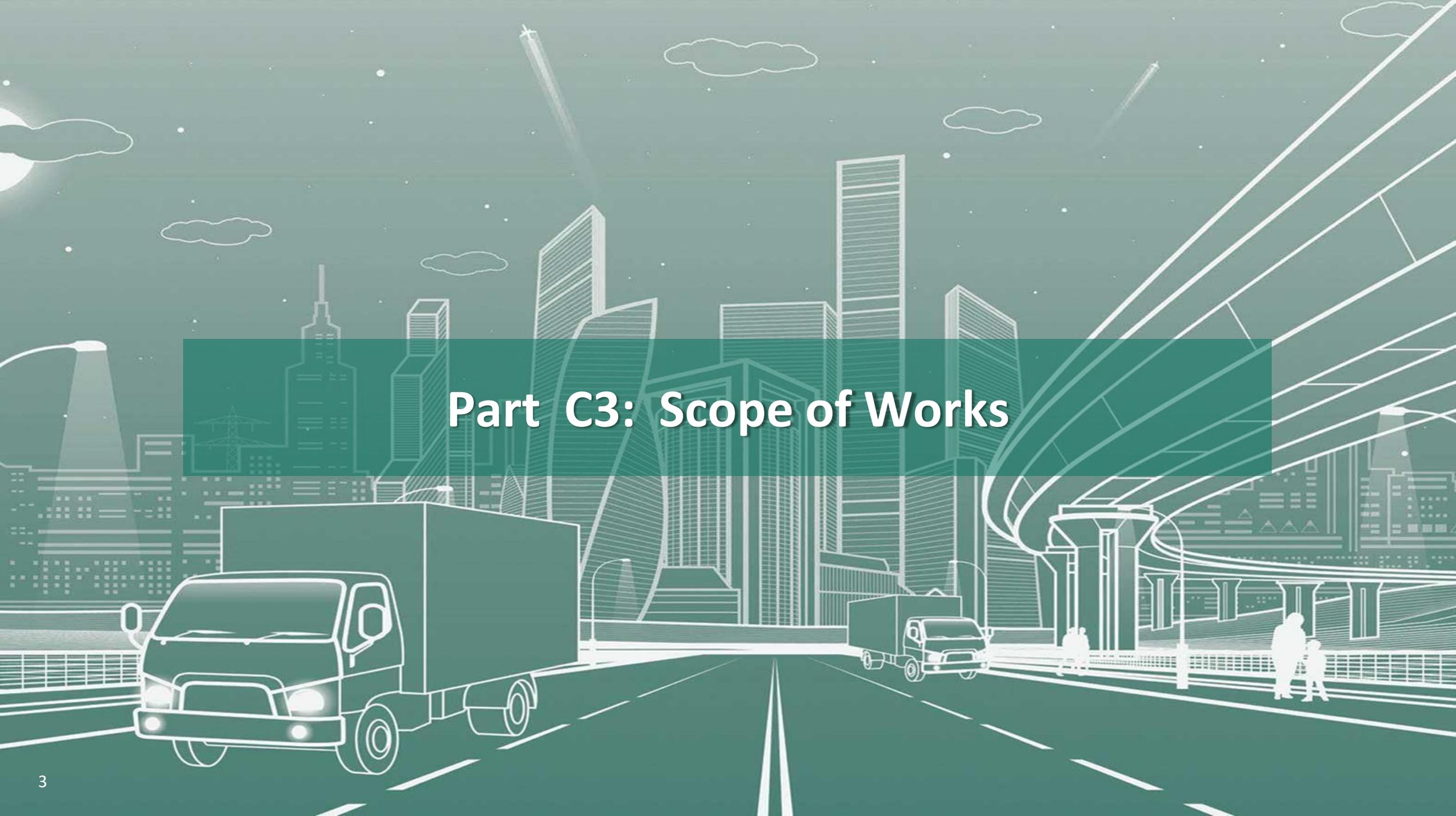
SANRAL



**BUILDING SOUTH AFRICA
THROUGH BETTER ROADS**

TENDER CLARIFICATION FOR PROJECTS

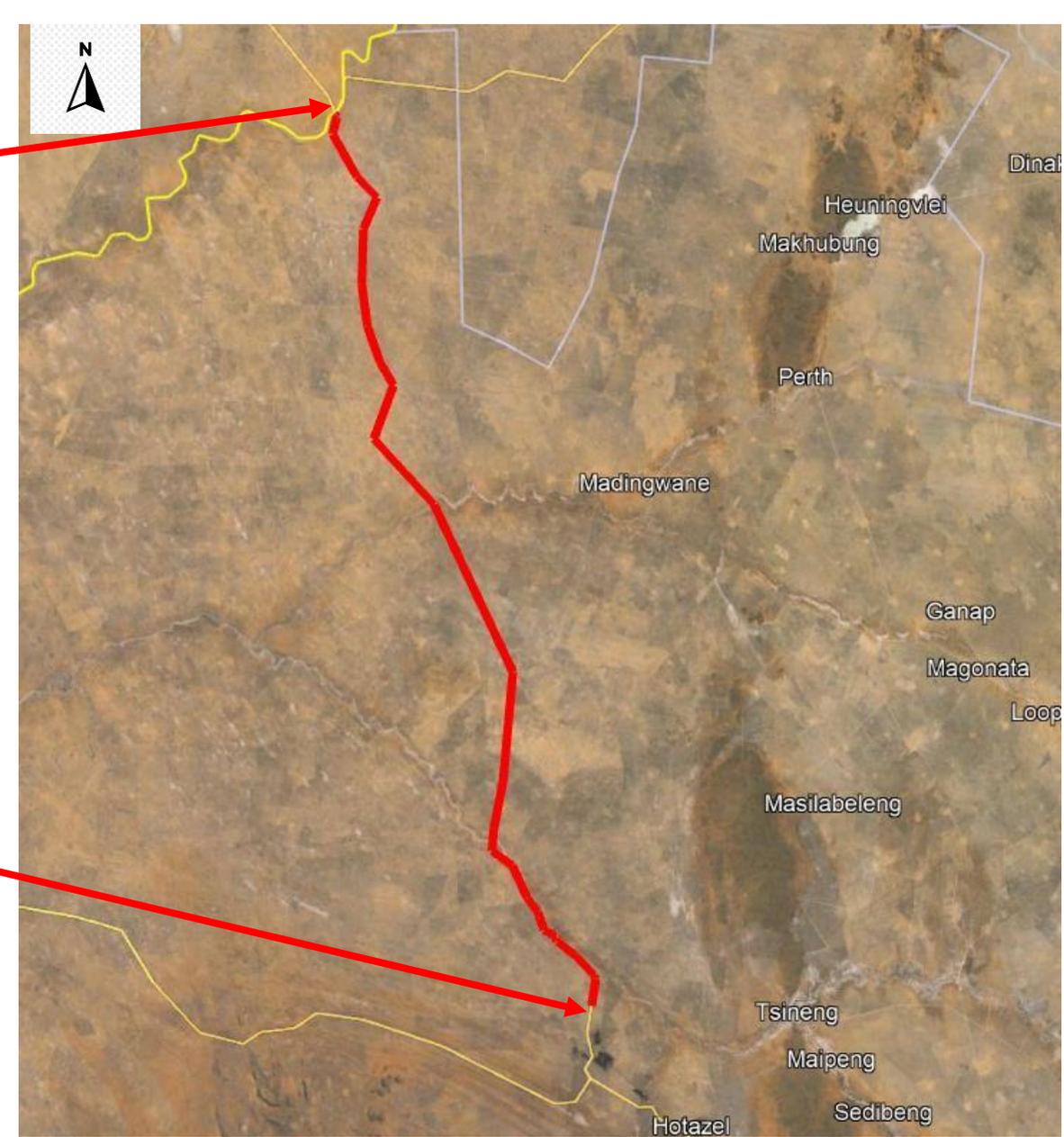
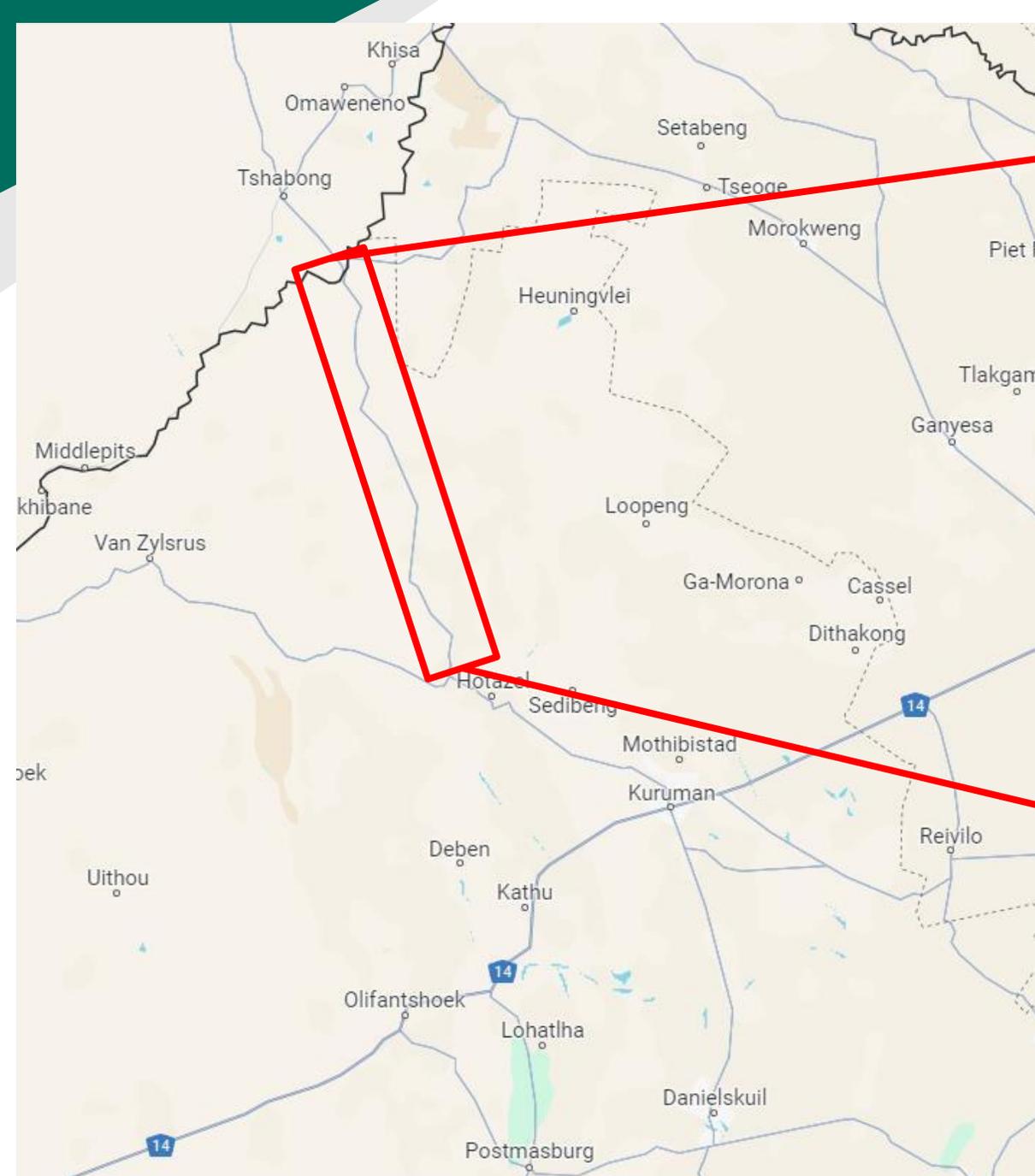
No.	Contract Number	Description
1	R.380-020-2024/2F	FOR THE CONSULTING ENGINEERING SERVICES FOR THE UPGRADE FROM GRAVEL TO SURFACED OF NATIONAL RUTE R380 SECTION 2 FROM SANTOY (KM 8.40) TO MCCARTHY'S REST (KM 118.46)



Part C3: Scope of Works



C3.1.2. LOCATION OF THE PROJECT(S)



ROUTE	SECTION	FROM KM	TO KM	LENGTH KMS
R380	2	8.40	118.46	110.06

C3.1 GENERAL REQUIREMENTS

C3.1.3 Description of the project: Upgrade Contract

The intervention required may take the form of upgrading the existing gravel road to a surfaced standard with a minimum surfaced cross-section of 9.4m over the full length to create at least one lane in each direction, including the addition of structures where required. The use of non-traditional materials may form part of the upgrade strategy.

The Services required of the Service Provider are divided into the following distinct phases:

- Project Assessment.
- Investigations for Design Development.
- Design Development which shall include the following phases:
 - Concept Design
 - Preliminary design
 - Detailed design
- Tender Documentation.
- Clarification Meeting, Tender Period and Tender Evaluation.
- Administration and Monitoring of the Works Contract.
- Additional duties, Special Services and Specialist Advice.
- Quality Control: Works Contract.
- Close Out.

C3.1 GENERAL REQUIREMENTS

C3.1.4 Determination of Remuneration

(a) Fee determination

Table C3.1.4(b): Percentage points for phases/stages: Road Works, Structures, Building and Other

Type of Service	Concept Design (CD)	Preliminary Design (PD)	Detailed Design (DD)	Administration & Monitoring of works contract (AMW)	Close out (CO)	Total
Full service	5%	21%	42%	27%	5%	100%
CD	100%	0%	0%	0%	0%	100%
CD & PD	20%	80%	0%	0%	0%	100%
CD ,PD& DD	8%	31%	61%	0%	0%	100%
PD	0%	100%	0%	0%	0%	100%
PD & DD	0%	33%	67%	0%	0%	100%
DD, AMW, CO	0%	0%	63%	31%	6%	100%
PD, DD, AMW, CO	0%	22%	44%	28%	6%	100%
AMW & CO	0%	0%	0%	83%	17%	100%

C3.1 GENERAL REQUIREMENTS

C3.1.5 Employer's Cost Estimate

The sum of the estimated costs of the relevant work types (including pro-rata of Chapter 1.3 (Contractor's Site Establishment and General Obligations) of COTO Draft Standard Specifications) forms the basis on which the Service Provider shall tender his fee to cover all his costs to develop the detailed design including training.

Project assessment costs and production of tender documentation including evaluation of tenders received are not considered to contribute to the development of the design and are separately billed.

The final cost of the Works will, however, depend on the strategy selected by the Employer based on the most appropriate and cost-effective options identified by the Service Provider during the project assessment and design phases. Scope of work changes may cause an increase or decrease in the fee offered to produce the design.

C3.1.5 Employer's Cost Estimate

No.	Contract Number	Cost Estimate: Roadworks (excl. VAT)	Cost Estimate: Structures (excl VAT)	Cost Estimate: Electrical (excl VAT)	Total Cost Estimate
1	R.380-020-2024/2F	R850 million	R50 million	N/A	R900 million

C3.1 GENERAL REQUIREMENTS

C3.1.7 Stakeholder and Community Liaison and Social Facilitation

(a) Purpose: To give effect to the need for transparency and inclusion in the process of delivering services, the Service Provider shall liaise with the project Stakeholders and affected Communities for the duration of the contract's life cycle. This shall be achieved through structured engagement with the PLC which was established for this purpose.

d) Target Area for the sourcing of labour for Construction Contract:

The target area for the sourcing of labour only needs to be defined in consultation with the Project Liaison Committee (PLC) and may typically include:

- (i) One or more Provinces;
- (ii) One or more Metropolitan and District Municipalities;
- (iii) One or more Local Municipalities; or
- (iv) One or more Wards that are wholly located within an area within a predefined radius of the construction activity.
- (v) One or more of the areas listed in the definition of Designated Groups.

C3.1.7 Stakeholder and Community Liaison and Social Facilitation

(f) Project Liaison Committee (PLC) and Project Management Team (PMT):

A Project Liaison Committee (PLC) has either been established prior to commencement of the contract or shall be established as soon as possible by the Service Provider. The PLC represents the project's Stakeholders. The PLC consist of representatives of project Stakeholders and affected communities.

Where a PLC has not been established, the Service Provider, under the guidance of the Employer, shall establish such a committee within the boundaries of the Local and/or District Municipality. Allowance has been made for these requirements in the Pricing Schedule under Additional Duties.

C3.1 GENERAL REQUIREMENTS

C3.1.9 Project Programme (R.380-020-2024/2F)

	Project Stage/Phase	Stage/Phase Completion Date
A	Submission of Tenders / Proposals	10 May 2024
B	Appointment of Service Provider	October 2024
C	Project Hand-over meeting	November 2024
D	First Progress meeting	December 2024
E	Submission of draft Assessment Report	January 2025
F	Submission of draft Concept Design Report	February 2025
G	Submission of draft Preliminary Design Report	June 2025
H	Submission of Gateway Review Report (if applicable)	July 2025
I	Submission of Road Safety Audit Report: Stage 1 Feasibility and Preliminary Design	June 2025
J	Submission of draft Detailed Design Report including Structures, Drainage & Geotechnical Reports	January 2026
K	Submission of Road Safety Audit Report: Stage 3: Detail Design	January 2026
	Submission of design information to SANRAL's Property Service Provider (PSP) for land acquisition purposes	N/A
M	Submission of Basic Assessment Report or full EIA report	January 2026
N		
O		
P	Submission of WULA to approving authority	January 2026
Q	Submission of EMP's to approving authority	January 2026
R	Submission of Draft Tender Documents for the Works and final Detailed Design Reports	March 2026
S	Tender Advertisement	April 2026
T	Submission of Final Tender Documents for the Works	April 2026
U	Clarification Meeting	April 2026
V	Tender Closure	May 2026
W	Submission of Tender Evaluation Report	N/A
X	Works Contract Handover	October 2026
Y	Submission of draft Contract Report & as-built data	Within 3 months of issue of Taking-over Certificate for the Works
Z	Submission of final Contract Reports and as-built data	Within 1 month of issue of Performance Certificate for the Works

C3.1 GENERAL REQUIREMENTS

C3.1.11 Personnel Requirements (R.380-020-2024/2F)

Minimum Requirements

Position	Minimum Qualification/Registration	Minimum Relevant Experience (years) ³	Other Requirements
Project Leader	Pr Eng or Pr Tech Eng ¹	10	
Assistant Project Leader	Pr Eng or Pr Tech Eng ¹	<10	In permanent employment of the tendering entity or Targeted Enterprise
Design Specialist	Pr Eng or Pr Tech Eng ¹	10	
Assistant Design Specialist	Pr Eng or Pr Tech Eng ¹	<10	In permanent employment of the tendering entity or Targeted Enterprise
Surveyor	Registered Professional Surveyors, Technologist Surveyors, Technician Surveyors	5	Member of SAGC ⁷
Engineering Geologist	Pr Sci.Nat ⁵	5	SAIEG ⁴
Environmental Practitioner	Refer to sub-service procurement document		
OHS Specialist	Design Phase: SACPCMP ⁶ registration as a Professional Construction HSE Agent Construction Phase: SACPCMP ⁶ registration as a Professional Construction HSE Agent or Manager	As required by SACPCMP ⁶	
Road Safety Audit Team Leader	Pr Eng or Pr Tech Eng ¹	10	Road safety course (5 CPD) Minimum 2 (two) audits within 3 (three) years
Contract Engineer	Pr Eng ¹ or Pr Tech Eng ¹	10	

KEY PERSONS

Personnel requirements will vary depending on each projects specific scope requirements

Personnel requirements will vary depending on each projects specific scope requirements

Position	Minimum Qualification/Registration	Minimum Relevant Experience (years) ³	Other Requirements
Assistant Contract Engineer	Pr Eng or Pr Tech Eng ¹	<10	In permanent employment of the tendering entity or Targeted Enterprise
Engineer's Representative (RE)	Pr Eng or Pr Tech Eng ¹	5	
	Pr Techni Eng ¹	10	
Assistant RE	Candidate Technician ¹	2	
Senior Materials Technician	None specified	20	
	National Diploma in civil engineering	10	
	Pr Techni Eng ¹	5	
Materials Technician	None specified	10	
	National Diploma in civil engineering	5	
	Pr Techni Eng ¹	2	
Trainee Technician	Candidate Technician	0	

PART C3: SCOPE OF WORKS

C3.1 GENERAL REQUIREMENTS

C3.1.11 Personnel Requirements

(f) Limitation on commitments of Key Persons and Other Required Resources (Design Specialists)

Key Persons and additional required resources (Design Specialists) other than Key Persons will be limited to participate in a maximum number of **6 (six)** conventional contracts in design phase.

The following are key persons for the contracts:

- Project Leader
- Alternate Project Leader **(if applicable)**
- Design Specialist: Pavement and Materials Engineer
- Alternate Design Specialist **(if applicable)**
- Design Specialist: Geometric Engineer
- Alternate Design Specialist **(if applicable)**

PART C3: SCOPE OF WORKS

C3.1 GENERAL REQUIREMENTS

C3.1.19 Participation of Targeted Enterprise(s)

The Employer may stipulate the involvement of Targeted Enterprise(s) in the project **design** and **construction** as a **mechanism to broaden the economic share of the national spend on engineering services and as a means to hasten and improve the transfer of technical skills.**

The Service Provider's Targeted Enterprise(s) become a contractual commitment upon award.

(b) The use of Targeted Enterprise personnel as **site staff during the administration and monitoring of the Works** phase is included as part of the percentage tendered in the Contract Data

C3.1 GENERAL REQUIREMENTS

C3.7.3 Establishment of supervisory personnel on site

a) Supervisory team

The Service Provider shall be required to provide a team on site to monitor, administer and measure the Works in accordance with the requirements of the Works Contract, Employer's standard requirements and industry good practice.

Provision has been made in the Pricing Schedule for the envisaged staffing requirement. The establishment of such staff, however, shall be subject to the approval of the Employer. For the envisaged scope of the Works, the supervisory team will consist of at least the following:

- i) Resident Engineer
- ii) Assistant Resident Engineer/s
- iii) Senior Materials Technician
- iv) Trainee Technician
- v) Surveyor team (part time)
- vi) Trainee (student)
- vii) Project Liaison Officer
- viii) Administrative Assistants (data capture)
- ix) Mentors/Coaches for Targeted Enterprises (sub-contractors)

The minimum requirements for qualification and experience of the supervisory team are specified in Clause C3.1.11.

PART C3: SCOPE OF WORKS

C3.8 ADDITIONAL DUTIES

C3.8.2 Additional Duties

- a) By the Service Provider

The Employer may order additional duties, special services and specialist advice that fall outside the specified scope. Such additional duties, special services and specialist advice may involve, but not be limited to:

- Additional design requirements
- Evaluation of alternative tenders as specified in Clause C3.6.5
- Additional investigations during the Defects Notification Period
- Special services and specialist advice as specified in Clause C3.3.6
- Diverse other services, etc.
- Establishment and liaison with PLC during Design and Construction Phases
- Establishment and maintenance of databases
- Disputes (including disputes between contractor and sub-contractors)

3.8.1 Additional duties by the Service Provider

- | | | |
|-----|---|-----------------|
| (a) | Personnel cost | |
| | (i) Category A | hour |
| | (ii) Category B | hour |
| | (iii) Category C | hour |
| | (iv) Category D | hour |
| (b) | Disbursements | prime cost (PC) |
| (c) | Handling cost i.r.o. sub-item 3.8.1(b) | percentage (%) |

The unit of measurement for sub-item 3.8.1(a) shall be the hour.

Rates have been provided for the different categories. The hourly rate provided under the different categories is deemed to include full compensation for all work related to the provision of additional duties extra-over the normal duties as specified and as ordered by the Employer.

PART C4: SITE INFORMATION

Project specific details can be found under the site information section which include some of the following technical details pertaining to:

- Location of the project
- Geometric information
- Traffic information
- Pavement information
- Materials Sources
- Drainage
- Road Furniture

The as-built and historic data for each route section will be available on SARDS online (please refer to the SARDS Manual provided)



**PLEASE READ YOUR
DOCUMENTS
THOROUGHLY**

THANK YOU!

END