



FREE STATE PROVINCE

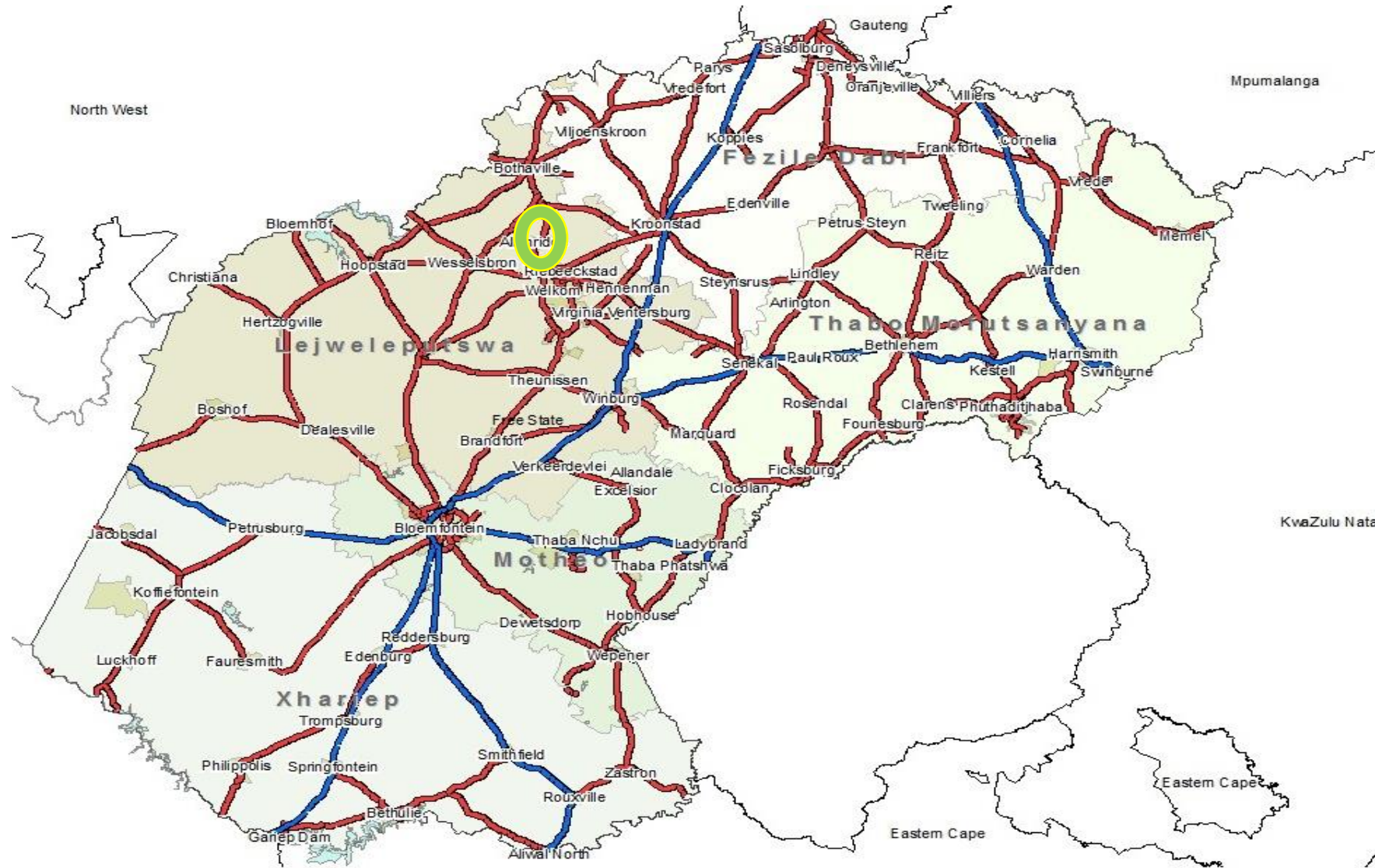
**BRIEFING SESSION FOR THE UPGRADING OF TWO  
SECTIONS OF PRIMARY ROAD P43/4, AT NYAKALLONG  
AND IMMEDIATELY NORTH OF ALLANRIDGE IN  
LEJWELEPUTSWA, FOR THE DEPARTMENT OF  
COMMUNITY SAFETY, ROADS AND TRANSPORT**

**SEPTEMBER 2023**

# PURPOSE OF PRESENTATION

- The purpose of this briefing session is to:
  - Give background description of the project
  - Give an indication of the progress of the contractor appointed
  - Report on challenges encountered

# PROVINCIAL ROAD NETWORK





# SITE LOCATION





# PROJECT BACKGROUND

- The project was initiated mainly as a result of flooding that occurred in since December 2021 at the Northern Pan resulting in road closure, dangerous driving conditions and a large amount of fatalities
- It was later on realized that Voëlpan at Nyakallong was also exposed to unexplained increasing water levels that prompted an alteration to the initial design, amidst many fatalities, accidents and media coverage



# PROCUREMENT CHALLENGES ENCOUNTERED

CHALLENGE	REACTION
Traffic accommodation and ineffective law enforcement	Vehicles continued to use the closed road, endangering themselves; law enforcement could not attend to the site permanently to ensure that people are not using the road as it was not cost-effective
Alternative routes while road closures were in place	During the closure, alternative routes were proposed, but due to the additional distance and time, commuters started to refuse using these roads and kept on using the R30
Operational budget constraints	The Department was unable to procure and replace road signs on a frequent basis
Emergency procurement processes	The 2017 Preferential Procurement Regulations (PPR 2017) was introduced and exemption request was submitted in Apr 2022 and May 2022; No response received and did not get response; response after 2 <sup>nd</sup> exemption request received in May 2022, procurement commenced in June 2022

# PROJECT BACKGROUND

DATE	TIME REPORTED	COMMENTS AS PER LEJWELEPUTSWA RIMS GROUP
27/02/22	20:15	Toyota Fortuner with 7 passengers from the same Bothaville family passed the site enroute to Allanridge earlier that day. On their return to Bothaville, they drove into a heap of soil that serves as a barrier and the vehicle planed and landed in the water. One person survived the accident and <b>Six</b> bodies were recovered
07/03/22	11:43	One vehicle with three passengers were reported to be in the water. Two passengers managed to escape and the body of <b>one</b> person was recovered
18/03/22	21:00	Report received of two vehicles in the water with a total of six passengers. Three people were rescued and <b>three</b> were found to be deceased. It is unclear how many people were in each vehicle
23/03/22	21:43	Services were dispatched for a vehicle that was reported to be submerged with <b>one</b> entrapment. Four other patients were rescued and the entrapped person's body was recovered by the diving unit
28/03/22	08:30	Report surfaced suggesting that a vehicle might be submerged. Divers started to search the water and at 10:32 it was reported that a vehicle was found. The bodies of one adult male, one adult female and two minor children were recovered. It appeared to be <b>four</b> members of the same household

# PROJECT DESCRIPTION

- Upgrading of Two Sections of Primary Road P43/4, at Nyakallong and immediately North of Allanridge in Lejweleputswa, for The Department of Police, Roads and Transport for a
- Tender Number: PRT/BID05/2022/23
- Contract Number: C001/2022
- Contractor: Matela Civil and Construction
- Initial Contract Amount: R 22 381 410.98
- Revised Contract Amount: R33 670 226.98
- Reason for project expansion: Additional work was commissioned and the project suffered delays as a result of inclement weather
- Start Date: 16 November 2022
- Initial Anticipated Completion Date: 21 June 2023
- Revised Completion Date: 16 September 2023
- Current progress and anticipated completion date: 85%; completion due early October



# PROJECT DESCRIPTION

- The Class 3 road is currently surfaced with a double seal and is situated in Lejweleputswa District, passing the town of Allanridge, and is a vital interprovincial link.
- The geographic area and the road topography in particular consists of gentle and average gradients ranging between 2% – 5%
- The ground elevation ranges between 1314m to 1300m above mean sea level
- The two sections under discussion is prone to flooding and have in the very recent past resulted in road closures, incidents, accidents, injuries and fatalities
- A total initial length in excess of 400m needed to be upgraded by importing additional layers and raising the road out of the water. Due to site conditions, the total length increased to 1,051m

# SCOPE OF WORK

Upgrading of Two Sections of Primary Road P43/4, at Nyakallong and immediately North of Allanridge:

- Testing of the underlying layers to establish quality and integrity
- A rock-fill layer that varies in thickness, to a minimum of 500 mm.
- Underneath the rock fill a geotextile grid will be installed to reinforce the layer.
- A bidum layer will then be laid on top of the rock fill to separate the coarser and finer material layers
- A 200mm G7 lower selected layer @ 90% MOD AASHTO
- A 150mm G5 upper selected layer @ 90% MOD AASHTO
- A 150mm C4 sub-base layer stabilized with 3% cement @ 95% MOD AASHTO
- A 150mm G1 base layer @ 98% MOD AASHTO
- A 50mm Medium Grade asphalt wearing coarse

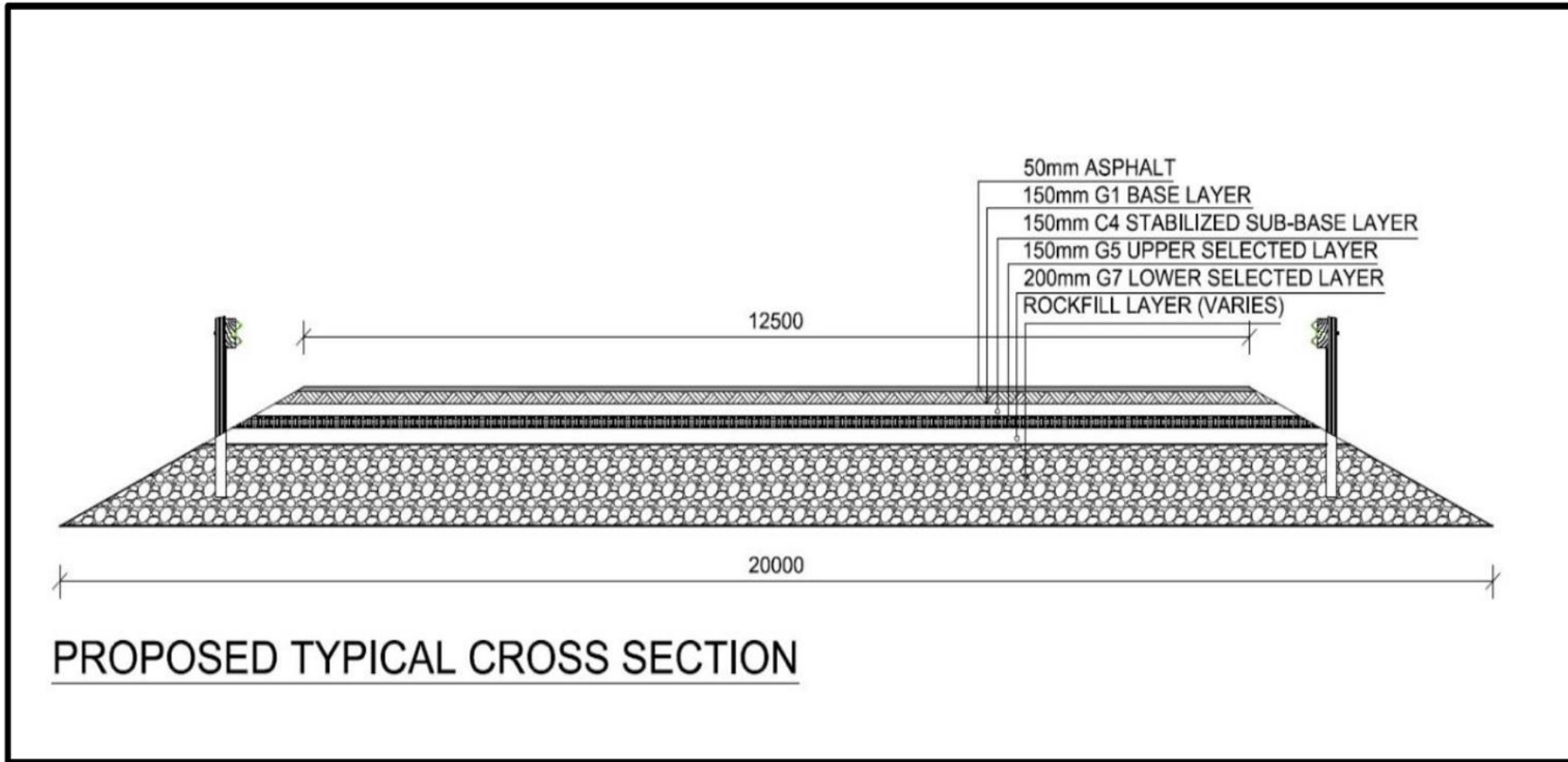
# SCOPE OF WORK

Upgrading of Two Sections of Primary Road P43/4, at Nyakallong and immediately North of Allanridge:

- 3 x 600mm dia Stormwater pipes with headwalls on the lowest point of the flooded areas to accommodate short term-overflow in peak rainy seasons
- Reinstatement of road markings
- Installation of Road Studs
- Guardrail Barrier Construction parallel to traffic flow
- Open earth drain to channel water away from the Northern Pan

# SCOPE OF WORK

## Proposed typical cross section





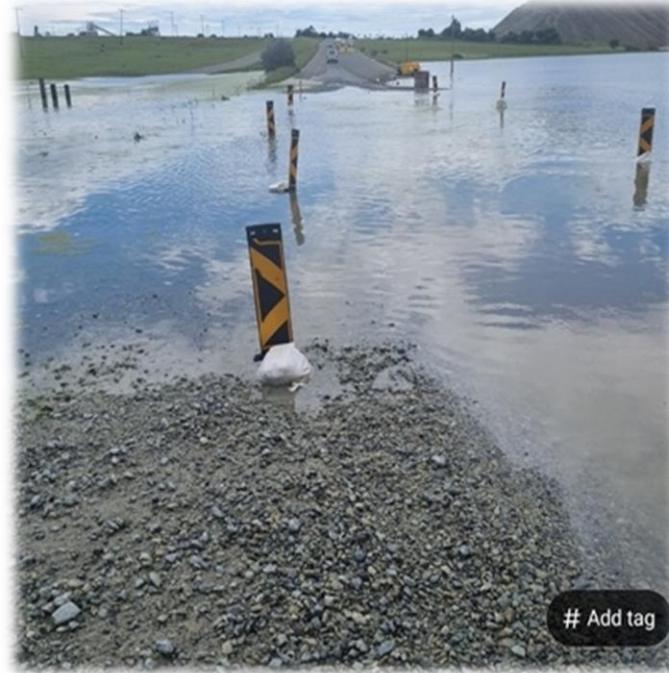
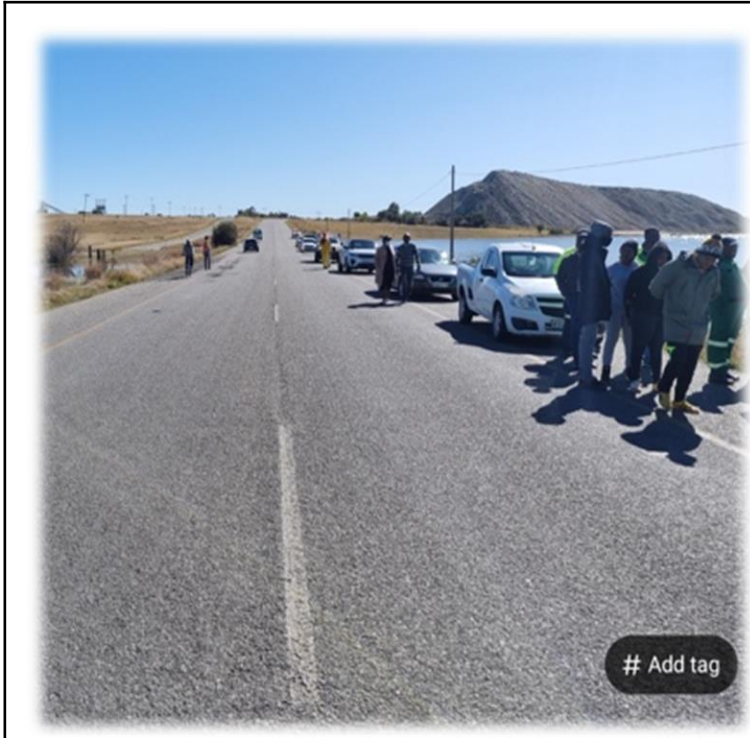
# CONDITIONS OF TENDER

- Job creation target was set at 4 jobs created per R1million and must at least employed for period of three months.
- No Local sub-contracting was anticipated, but contractor employed local security company
- The Daily wage is R166.00 per day
- Salary for the CLO is R7,500.00 per month
- Total labour component

JOB TARGETS	JOB CREATED	WOMEN	YOUTH	DISABILITY
45	82	34	36	1

# CONTRACTORS PROGRESS

- The Works have progressed to 85%, with additional activities approved as a result of unexplained flooding, inclement weather, labour disruptions



Photograph taken on 01 June 2022 during an oversight visit by The Premier, Provincial Executive Management and the media including eNCA and Carte Blanche. This is one of the visits that informed the design as it attracted much attention and interest of relevant stakeholders

Photographs taken on 14 December 2022 after water unexplainably crossed the road without being able to determine its origin



# CONTRACTORS PROGRESS



CONSTRUCTION OF ROCKFILL AT NORTH PAN



ADDITIONAL ROCKFILL AT VOËLPAN

# CONTRACTORS PROGRESS



IMPORTING OF G1 BASE MATERIAL AT VOëLPAN



SEALING OF SOUTHBOUND LANE AT NORTH PAN



# CONSTRUCTION CHALLENGES ENCOUNTERED

CHALLENGE	REACTION
Availability of suitable rockfill material & Compliance to OHS conditions of identified supplier	A local mine offered rock fill material as part of their social contribution, it required compliance to their OHS conditions and led to time loss during the mobilization stage
Alternative material sources	Alternative material sources had excessive haulage lengths and it proved uneconomical
Frequent flooding at Voëlpan from sources unknown	The existing road and the constructed by-pass was frequently subjected to flooding which informed an alternative design to accommodate potential additional water
Law enforcement and accident management	High operating speeds within construction zone led to a decision taken to construct rough bypasses with low operating speeds

Thank you