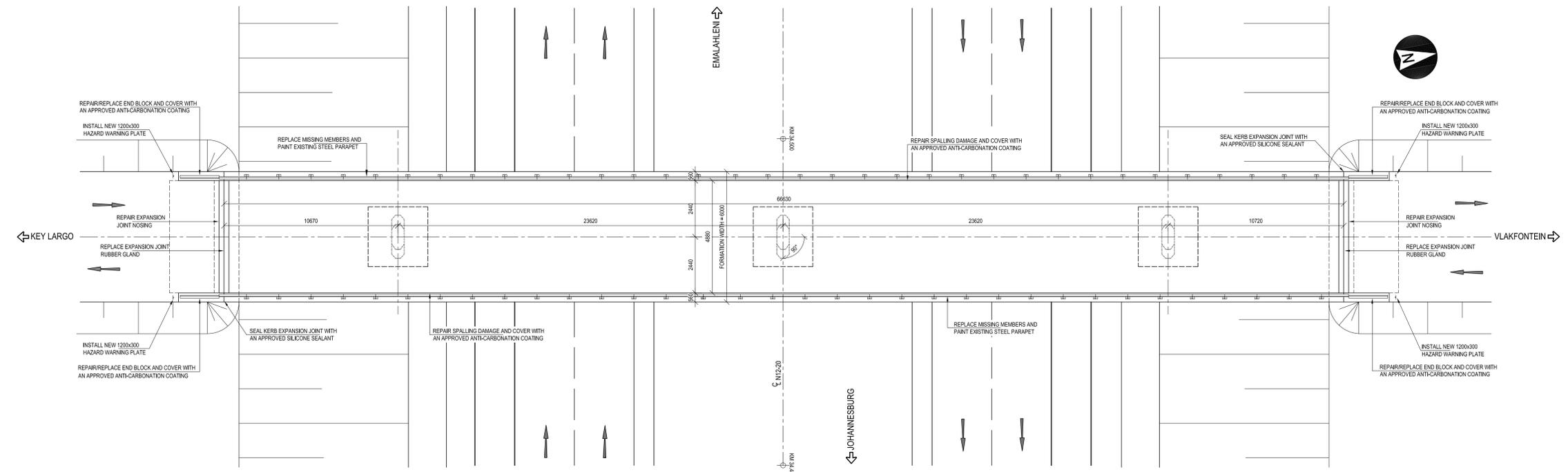
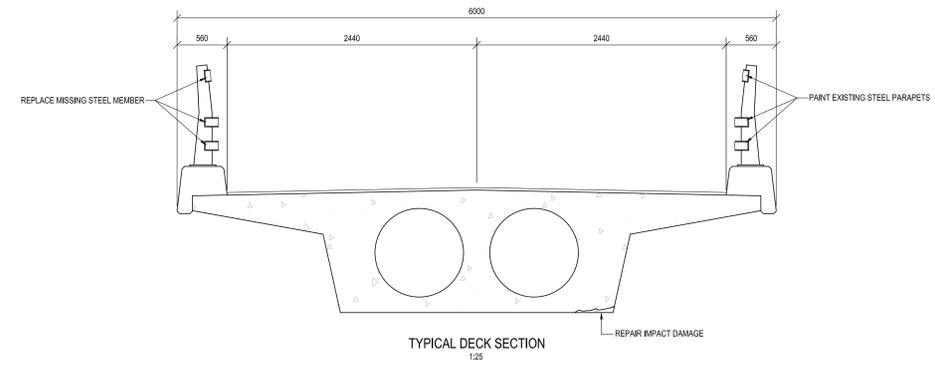


ELEVATION  
1:75

- REPAIR AND PREVENTATIVE MAINTENANCE**
- REPAIR CONCRETE SPALLING DAMAGE ON THE FOLLOWING STRUCTURAL MEMBERS:
    - PARAPET ENDBLOCKS
    - KERBS
    - EXPANSION JOINT CONCRETE NOSINGS
    - DECK SOFFIT EDGE (DAMAGED BY EXCESSIVE HEIGHT IMPACT LOAD)
  - THE ENDBLOCKS EXHIBIT SERIOUS INSUFFICIENT CONCRETE COVER. WHERE THE SPALLING DAMAGE ARE TOO EXTENSIVE TO REPAIR WITH CONVENTION CONCRETE REPAIR METHODS, THE ENDBLOCKS SHOULD BE DEMOLISHED AND REPLACED (CONCRETE CLASS 24/30-20), EXISTING STEEL REINFORCEMENT SHOULD BE RETAINED AS FAR AS POSSIBLE. WHERE REINFORCEMENT IS LOST DUE TO SEVERE CORROSION OR DEMOLITION, IT SHOULD BE REPLACED.
  - COVER THE VISIBLE SURFACES OF THE FOLLOWING MEMBERS WITH AN APPROVED ANTI-CARBONATION COATING:
    - ABUTMENTS AND RETURN WALLS
    - PIERS
    - DECK SOFFIT AND SIDES
    - PARAPET END BLOCKS
    - KERBS
  - REPLACE THE RUBBER GLANDS IN THE DECK EXPANSION JOINTS.
  - SEAL KERB EXPANSION JOINTS WITH AN APPROVED SILICONE SEALANT.
  - REPLACE MISSING PARAPET STEEL MEMBERS.
  - PAINT THE STEEL PARAPETS, AS FOLLOWS:
    - SURFACE PREPARATION - ABRASIVE BLAST CLEANING
    - PRIMER - INORGANIC ZINC WITH A 75 MICRON DRY FILM THICKNESS.
    - 2<sup>ND</sup> COAT - TWO COMPONENT CROSS-LINKED EPOXY WITH A 75 MICRON DRY FILM THICKNESS.
    - FINAL COAT - ALPHATIC ACRYLIC POLYURETHANE WITH A 40 MICRON DRY FILM THICKNESS.
  - INSTALL NEW BRIDGE NUMBER PLATES.
  - INSTALL FOUR NEW HAZARD WARNING PLATES.



PLAN  
1:75



TYPICAL DECK SECTION  
1:25

LIST OF DRAWINGS		
NO	DESCRIPTION	DRAWING NO
1	REPAIR LAYOUT	B1985-R1
2	REPAIR DETAILS	B1985-R2

No.	DATE	REVISION	JR CONSULT. ENG.
V1	05/10/2021	ORIGINAL VERSION	JR

**CONSTRUCTION RECORD**  
WORKS CONTRACT ENGINEER

Name: \_\_\_\_\_  
Prof. Reg. No.: \_\_\_\_\_  
Date: \_\_\_\_\_

**SANRAL PROJECT MANAGER**

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

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DESIGNED BY		CONSULTANT APPROVAL	
NAME	JJ RAUTENBACH	NAME	J. VENTER
Prof. Reg. No.	910252	Prof. Reg. No.	20010154
CHECKED BY	JJ JANSE VAN RENSBURG		
NAME	JJ JANSE VAN RENSBURG		
Prof. Reg. No.	950018		
DRAWN BY	D VENTER		
NAME	D VENTER		

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**ACCEPTANCE**

THIS ACCEPTANCE IS FOR PROCEDURAL AND ADMINISTRATIVE REVIEW PURPOSES ONLY AND DOES NOT ATTRACT LEGAL LIABILITY OR LIABILITY OF ANY KIND FROM WHATSOEVER CAUSE OR HOWEVER ARISING

for: SA NATIONAL ROADS AGENCY SOC. LTD.  
Date: \_\_\_\_\_

**PROJECT DESCRIPTION**

THE REPAIR AND RESURFACING OF NATIONAL ROAD N12 SECTION 20 FROM PETROPORT (km 20.0) TO OGIES (km 42.2)

WITRAND AGRICULTURAL OVERPASS B1985 AT KM 34.494

REPAIR LAYOUT

SCALE: AS SHOWN

SHEET 1 OF 2

PROJECT NUMBER			N.012-200-2019/2F		
DRAWING LOCATION DATA	START	END			
ROUTE	N12	N12			
SECTION	20	20			
DRAWING km DISTANCE	34.48	34.50			
DRAWING TYPE	STRUCTURES-BRIDGES				
BRIDGE/STRUCTURE No.	B1985				
CONSULTANT DRAWING No.	B1985/R1				
SANRAL DOCUMENT #					
			VER		V1

100mm ON ORIGINAL DRAWING