



- 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.

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

CONSTRUCTION RECORD			
WORKS CONTRACT ENGINEER			
Name	:	JR	
Prof. Reg. No.	:		
Date	:		
SANRAL PROJECT MANAGER			
Name	:		
Date	:		
V1	05/10/2021	ORIGINAL VERSION	JR
No.	DATE	REVISION	CONSULT. ENG.

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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	