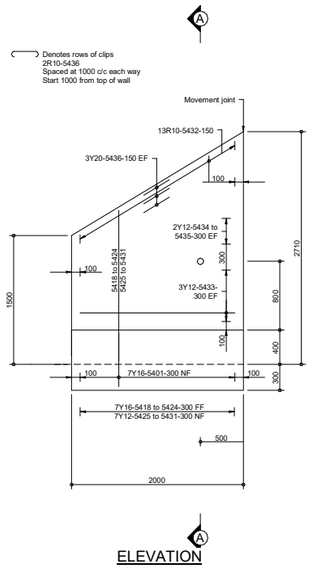
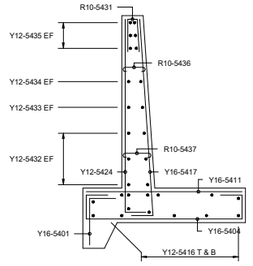
Note:
All dimensions to be checked on site before any work is put in hand.
Refer any discrepancies to the Engineer.



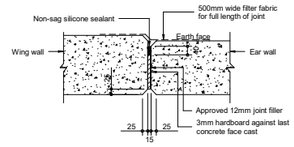
ELEVATION

1 : 25



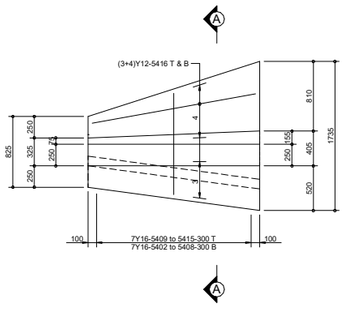
SECTION A-A

1 : 25



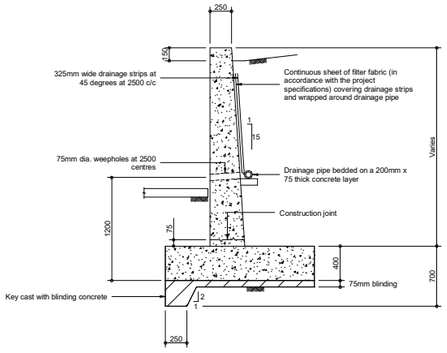
MOVEMENT JOINT DETAIL

1 : 10



PLAN

1 : 25



TYPICAL SECTION

1 : 25

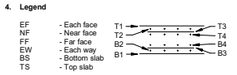
NOTES

1. **Concrete class:**
   C12/15-20 Blinding
   D25/30-XC4(100)-20 Wingwalls
2. **Clear Cover to Steel Reinforcement**
   Concrete cover to reinforcement shall be 40mm.
3. **Steel Reinforcement**
   Reinforcement to conform to SANS-920-2011.
   Reinforcement shall be bent in accordance with SANS-282 Edition 6.

   Characteristic strengths:
   Mild steel (R) bars : 250 MPa
   High yield stress (Y) bars : 450 MPa

   Unless otherwise shown, the minimum reinforcement lap length shall be 45 x dia. of the smaller bar.
4. **Legend**

   EF - Each face
   NF - Near face
   FF - Far face
   EW - Each way
   BS - Bottom slab
   TS - Top slab

5. **Chamfers:**
   All exposed sharp concrete edges to be chamfered 20mmx 20mm unless otherwise shown.
6. **Formed concrete surface finishes:**
   Class F1 Concealed surfaces (Rough)
   Class F2 Visible surfaces (Smooth)
7. **Unformed concrete surface finishes:**
   Class U1 Concealed surfaces
   Class U2 Visible surfaces

No.	DATE	REVISION	CONSULT. ENG.

CONSTRUCTION RECORD (AS-BUILT)
WORKS CONTRACT ENGINEER
Name :
Prof. Reg. No. :
Date :
SANRAL PROJECT MANAGER
Name :
Date :

DESIGNED BY
NAME
Prof. Reg. No.
CHECKED BY
NAME
Prof. Reg. No.
DRAWN BY
NAME

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date :

HEAD OFFICE
48 Tambotie Avenue
Val de Grace
Pretoria
0184

PO Box 415
Pretoria 0001
South Africa

Tel: (012) 844 8000

SANRAL
SOUTH AFRICAN NATIONAL ROADS AGENCY SOC LTD
Reg No. 1998/009884/30
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

NORTHERN REGION
38 Ida Street
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Private Bag X17
Lynnwood Ridge
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Tel: (012) 426 6200

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 the SA NATIONAL ROADS AGENCY SOC LTD.
Date:

PROJECT DESCRIPTION

R531 SECTION 2 - EMERGENCY REPAIR OF DAMAGED STEEL ARMCO

MAJOR CULVERT C9521 AT KM 6.94

DOWNSTREAM WINGWALL 1 DETAILS

SCALE : **SHEET 08 OF 12**

PROJECT NUMBER	**N.XXXX**	
DRAWING LOCATION DATA	**START**	**END**
ROUTE	**R531**	**R531**
SECTION	**2**	**2**
DRAWING km DISTANCE	**6.94**	**6.94**
DRAWING TYPE	**STRUCTURES - CULVERTS**	
BRIDGE/STRUCTURE No.		
CONSULTANT DRAWING No.	**G156-07-6000/08**	**VER**
SANRAL DOCUMENT #		

SANRAL TITLE BLOCK #164823/4(DWG/PDF) VERSION V11.1