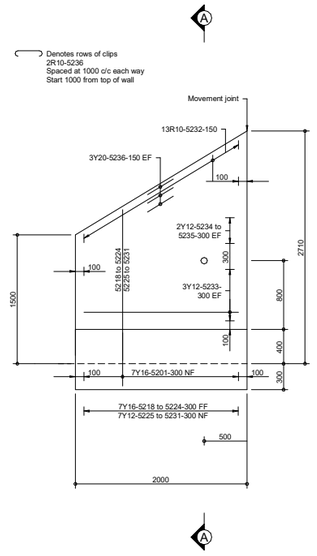
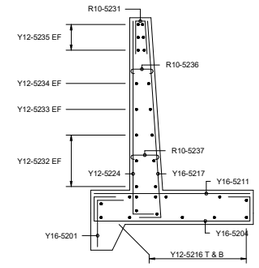
Note:
All dimensions to be checked on site before any work is put in hand.
Refer any discrepancies to the Engineer.



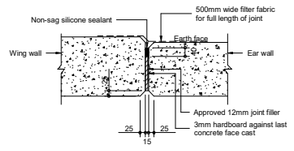
ELEVATION

1 : 25



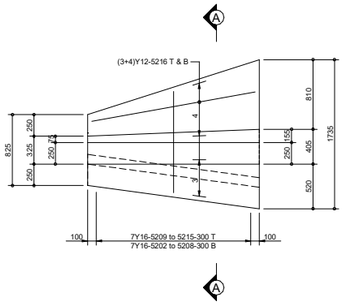
SECTION A-A

1 : 25



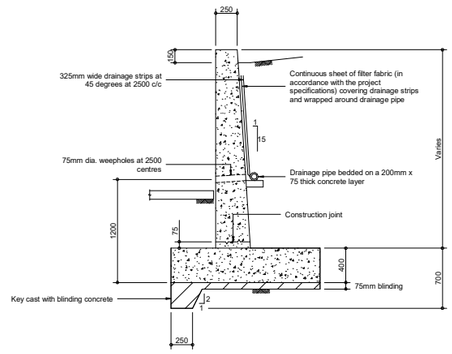
MOVEMENT JOINT DETAIL

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

   T1 T3
   T2 T4
   B2 B4
   B1 B3
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 :

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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 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

UPSTREAM WINGWALL 2 DETAILS

SCALE :

SHEET 07 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.	G156-07-6000/07	VER
SANRAL DOCUMENT #		

SANRAL TITLE BLOCK #1648234(DWG/PDF) VERSION V11.1