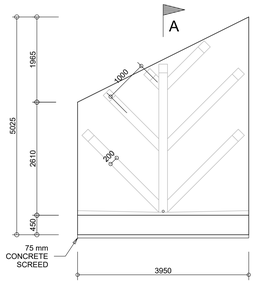
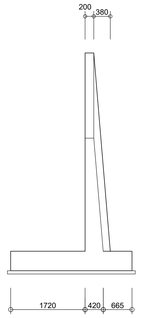
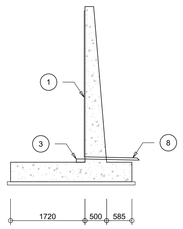


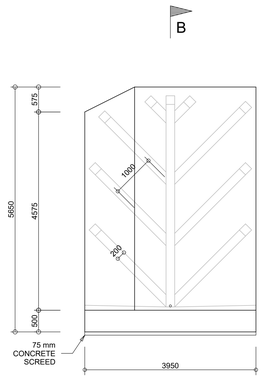

ELEVATION : SE2 WINGWALL
SCALE 1:50



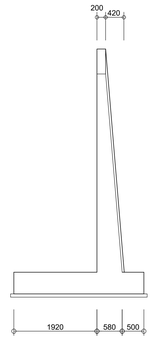

ELEVATION : SE2 WINGWALL
SCALE 1:50



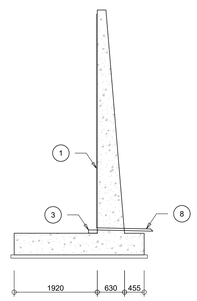

SECTION A-A
SCALE 1:50



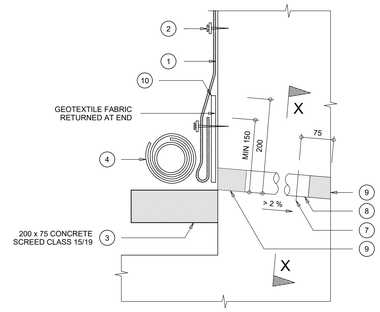

ELEVATION : SE1 WINGWALL
SCALE 1:50




ELEVATION : SE1 WINGWALL
SCALE 1:50




SECTION B-B
SCALE 1:50




DRAINAGE DETAIL
SCALE 1:5

## CONCRETE NOTES

1. CONCRETE CLASS SHALL BE:
   D25/30-20
2. ALL EXTERNAL SHARP CORNERS TO HAVE A 20 x 20 mm CHAMFER.
3. CONCRETE FINISH :

| TYPE OF SURFACE | FORMED SURFACE | UNFORMED SURFACE |
|---|---|---|
| UNEXPOSED | CLASS F1 | CLASS U1 |
| EXPOSED | CLASS F2 | CLASS U2 |
| TOP BEARING SEAT | N/A | CLASS U2 |

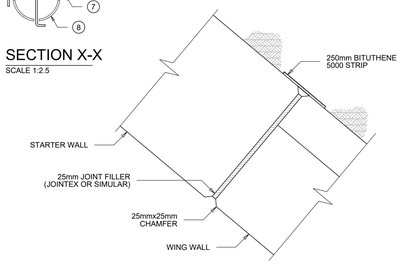
## DRAINAGE NOTES

1. THE FILTER ELEMENTS SHALL CONSIST OF A DRAINAGE FLOWNET CORE COMPLETELY ENVELOPED IN A GEOTEXTILE JACKET.
2. THE GEOTEXTILE JACKET SHALL :
   - BE UV RESISTANT.
   - RESIST THE PASSAGE OF 100 MICRONS OR LARGER SOIL PARTICLES.
3. PERFORATED DRAINAGE PIPES SHALL BE HDPE TO SANS BS2782 OR CLASS 1 PITCH FIBRE PIPES TO SANS 921.
4. THE WEEPHOLES SHALL BE 50mm DIA. uPVC TO SANS 967.

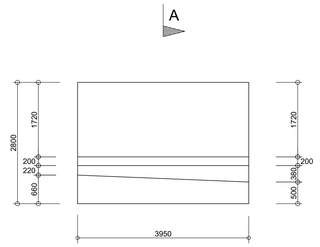
## LEGEND

1 - 200mm WIDE FILTER ELEMENTS SECURED TO BACK FACE OF STRUCTURE AT 45° SLOPE.
2 - CONCRETE NAILS WITH 25 x 25mm HOOP IRON WASHERS TO SECURE FILTER ELEMENTS TO STRUCTURE AT ± 1 000mm CENTRES.
3 - CONCRETE SCREED TO GRADE AND LEVEL OF DRAINAGE PIPES PRIOR TO PLACING OF DRAINAGE PIPES.
4 - 65mm dia PERFORATED DRAINAGE PIPES WRAPPED IN GEOTEXTILE. THE GEOTEXTILE SHALL HAVE AN OVERLAP OF NOT LESS THAN 150mm AND BE TIED AT CENTRES NOT GREATER THAN 200mm.
5 - EXTENSION TO PERFORATED DRAINAGE PIPE DISCHARGING AT TOE OF ROAD EMBANKMENT OR INTO ROAD DRAINAGE.
7 - 3,15mm dia STAINLESS STEEL WIRE BARRIER.
8 - 50mm dia uPVC WEEPHOLES AT CENTRES NOT GREATER THAN 5,0m. THE CONSTRACTOR SHALL ENSURE THAT THE WEEPHOLES ARE CLEAR AND APPROVED BY THE ENGINEER BEFORE THE FILTER ELEMENTS ARE INSTALLED.
9 - TEMPORARY POLYSTYRENE PLUG TO PREVENT INGRESS OF GROUT DURING PLACING OF THE CONCRETE.
10 - 200mm WIDE FILTER ELEMENT SECURED TO BACK FACE OF STRUCTURE AT SAME GRADE AS WEEPHOLES (ITEM 8).

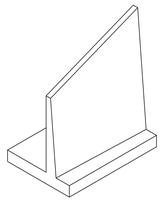
SECTION X-X
SCALE 1:2.5



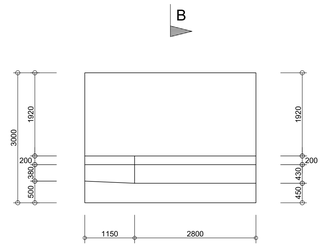

TYPICAL JOINT SECTION
SCALE 1:10



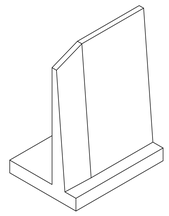

PLAN : SE2 WINGWALL
SCALE 1:50



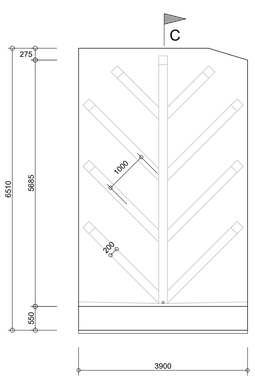
ISOMETRIC VIEW
N.T.S.



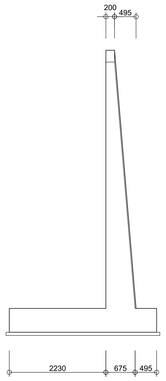

PLAN : SE1 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
N.T.S.




ELEVATION : NE1 WINGWALL
SCALE 1:50

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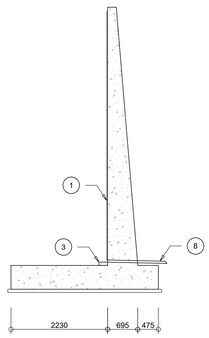
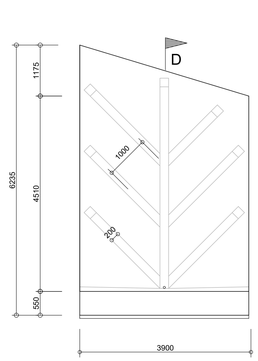
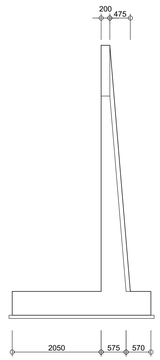
SCALE 1:50



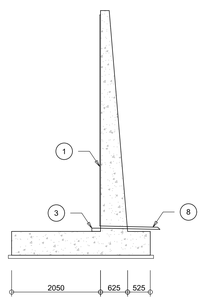

SECTION C-C
SCALE 1:50



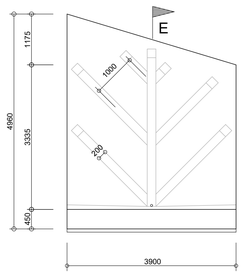

ELEVATION : NE2 WINGWALL
SCALE 1:50



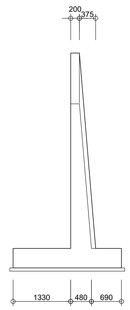

ELEVATION : NE2 WINGWALL
SCALE 1:50



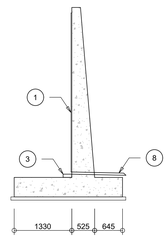

SECTION D-D
SCALE 1:50



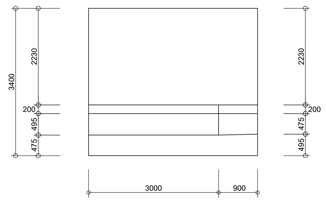

ELEVATION : NE3 WINGWALL
SCALE 1:50



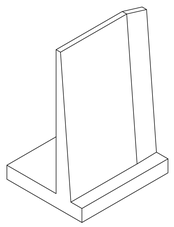

ELEVATION : NE3 WINGWALL
SCALE 1:50



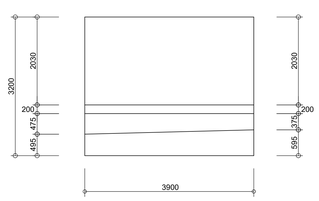

SECTION E-E
SCALE 1:50



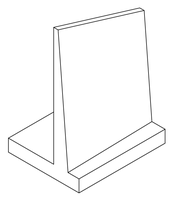

PLAN : NE1 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
N.T.S.




PLAN : NE2 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
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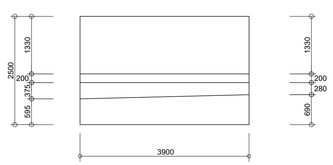
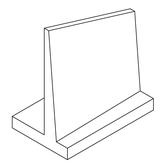



PLAN : NE3 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
N.T.S.

FOR TENDER PURPOSES ONLY

SCALE FOR REDUCED PLAN
0m 1m 2m 3m 4m 5m 6m 7m 8m 9m 10m
100mm ON ORIGINAL PLAN

| No. | DATE | REVISION | CONSULT. ENG. |
|---|---|---|---|
| V0 | 11/03/2021 | ORIGINAL VERSION | |

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

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

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

CONSULTANT APPROVAL
Name :
Prof. Reg. No. :
Date : 11/03/2021

HEAD OFFICE
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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. 1998/00389/06
BUILDING SOUTH AFRICA THROUGH BETTER ROADS

EASTERN REGION
58 van Eck Place
Pietermaritzburg
3201

PO Box 100410
Scottsville
3209

Tel: (033) 392 8100

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:

REHABILITATION OF NATIONAL ROUTE N11 SECTION 13 FROM R518 INTERSECTION(km 8.340) TO GROOTSANDSLOOT RIVER(km 24.280)

DITHOKENG RIVER BRIDGE B0270 AT km 15.606

SE & NE WINGWALLS CONCRETE DETAIL

SCALE : AS SHOWN
SHEET 08 OF 22

| | | |
|---|---|---|
| PROJECT NUMBER | NRA N.011-130-2010/1 | |
| DRAWING LOCATION DATA | | |
| ROUTE | N11 | N11 |
| SECTION | 13 | 13 |
| DRAWING km DISTANCE | 15.58 | 15.62 |
| DRAWING TYPE | STRUCTURES-BRIDGES | |
| BRIDGE/STRUCTURE No. | B0270 | |
| CONSULTANT DRAWING No. | BCD/B0270/08 | |
| SANRAL DOCUMENT # | | V0 |