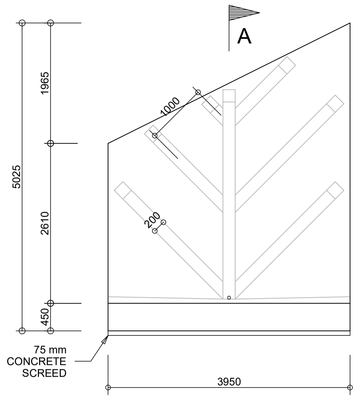
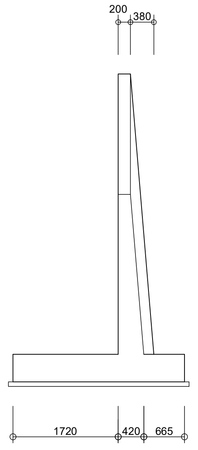
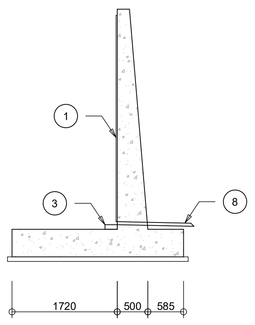


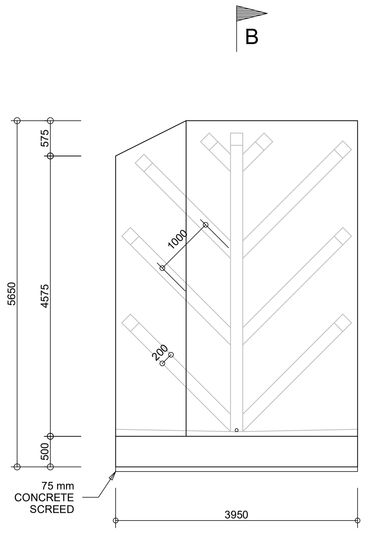
ELEVATION : SE2 WINGWALL
SCALE 1:50



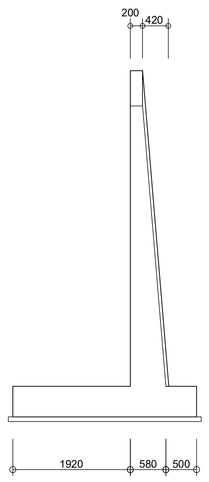
ELEVATION : SE2 WINGWALL
SCALE 1:50



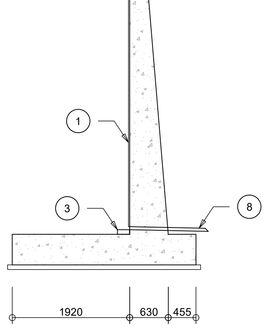
SECTION A-A
SCALE 1:50



ELEVATION : SE1 WINGWALL
SCALE 1:50



ELEVATION : SE1 WINGWALL
SCALE 1:50



SECTION B-B
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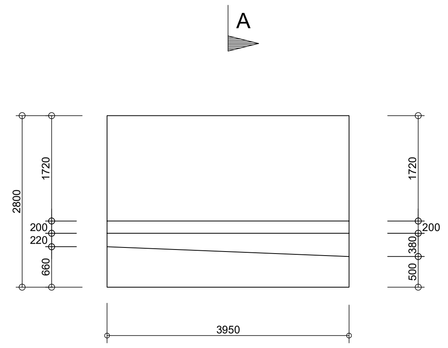
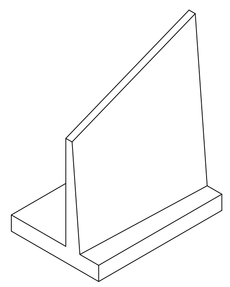
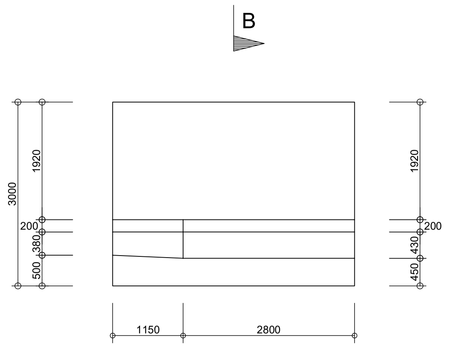


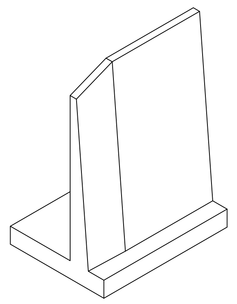
PLAN : SE2 WINGWALL
SCALE 1:50



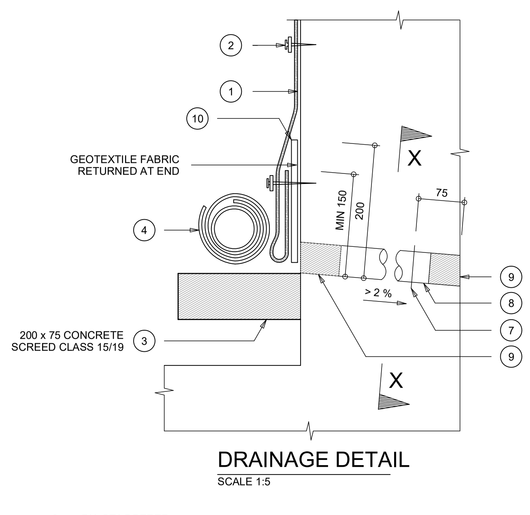
ISOMETRIC VIEW
N.T.S.



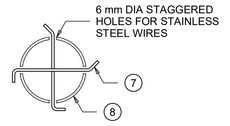
PLAN : SE1 WINGWALL
SCALE 1:50



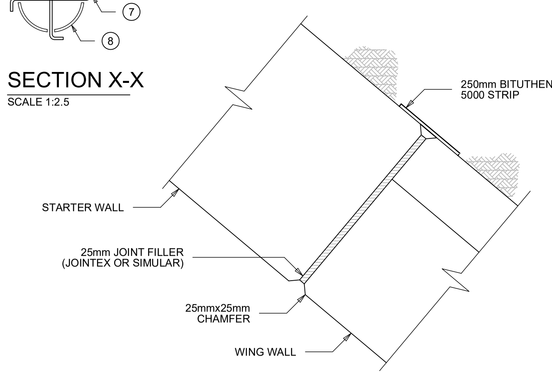
ISOMETRIC VIEW
N.T.S.



DRAINAGE DETAIL
SCALE 1:5



SECTION X-X
SCALE 1:2.5



TYPICAL JOINT SECTION
SCALE 1:10

CONCRETE NOTES

1. CONCRETE CLASS SHALL BE: 025/30-20
2. ALL EXTERNAL SHARP CORNERS TO HAVE A 20 x 20 mm CHAMFER.
3. CONCRETE FINISH :

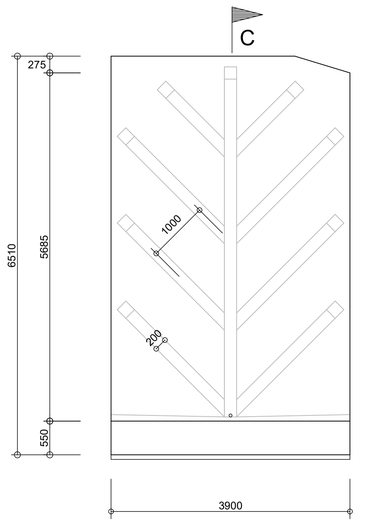
TYPE OF SURFACE	FORMED SURFACE	UNFORMED SURFACE
UNEXPOSED	CLASS F1	CLASS U1
EXPOSED	CLASS F2	CLASS U2
TOP BEARING SEAT	N/A	CLASS U2

DRAINAGE NOTES

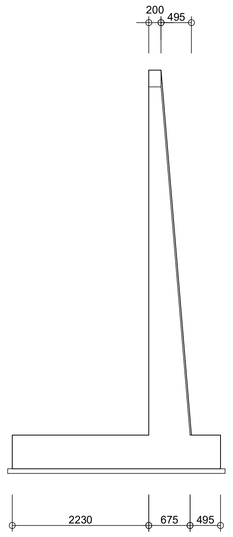
1. THE FILTER ELEMENTS SHALL CONSIST OF A DRAINAGE FLOWNET CORE COMPLETELY ENVELOPED IN A GEOTEXTILE JACKET.
2. THE GEOTEXTILE JACKET SHALL :
   - BE UV RESISTANT.
   - RESIST THE PASSAGE OF 100 MICRONS OR LARGER SOIL PARTICLES.
3. PERFORATED DRAINAGE PIPES SHALL BE HDPE TO SANS BS2782 OR CLASS 1 PITCH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

LEGEND

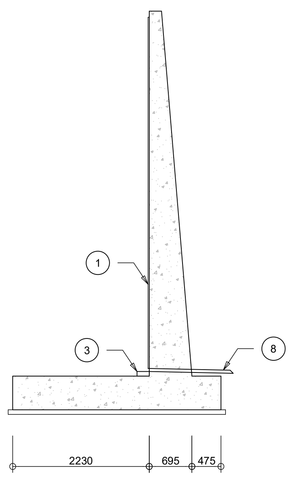
1 - 200mm WIDE FILTER ELEMENTS SECURED TO BACK FACE OF STRUCTURE AT 45° SLOPE.
2 - CONCRETE NAILS WITH 25 x 25mm HOOP IRON WASHERS TO SECURE FILTER ELEMENTS TO STRUCTURE AT ± 1 000mm CENTRES.
3 - CONCRETE SCREED TO GRADE AND LEVEL OF DRAINAGE PIPES PRIOR TO PLACING OF DRAINAGE PIPES.
4 - 65mm dia PERFORATED 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).



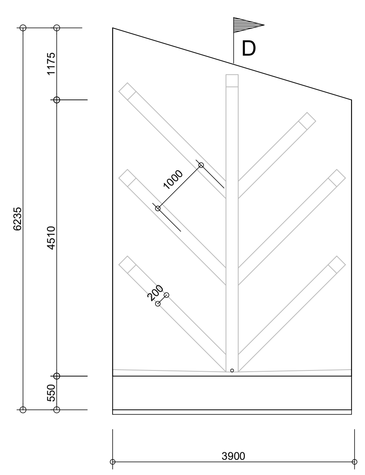
ELEVATION : NE1 WINGWALL
SCALE 1:50



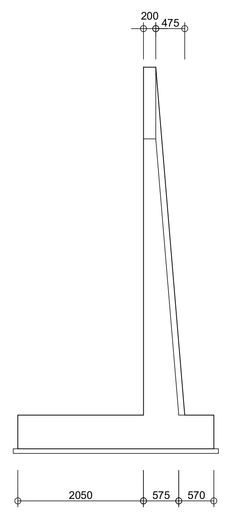
ELEVATION : NE1 WINGWALL
SCALE 1:50



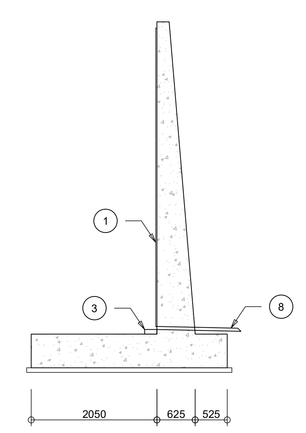
SECTION C-C
SCALE 1:50



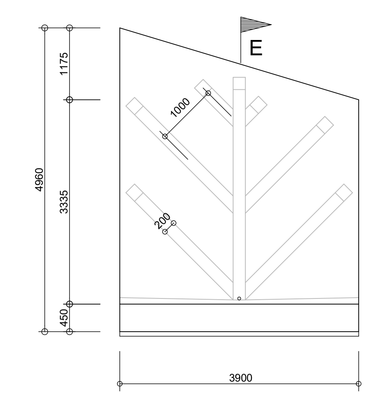
ELEVATION : NE2 WINGWALL
SCALE 1:50



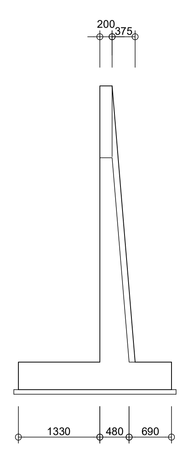
ELEVATION : NE2 WINGWALL
SCALE 1:50



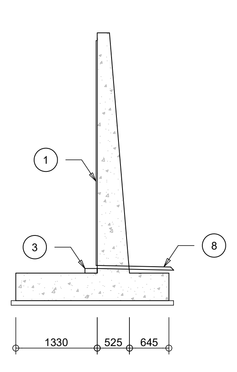
SECTION D-D
SCALE 1:50



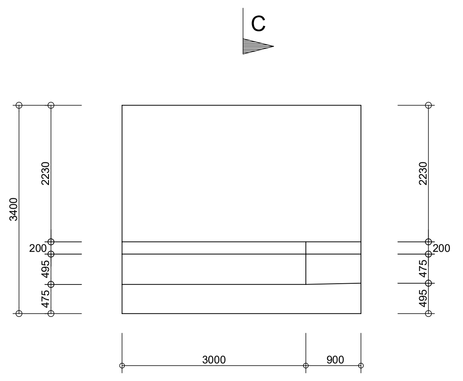
ELEVATION : NE3 WINGWALL
SCALE 1:50



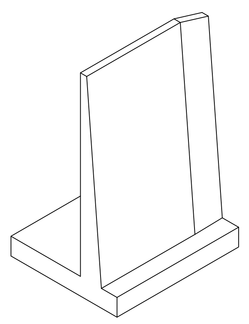
ELEVATION : NE3 WINGWALL
SCALE 1:50



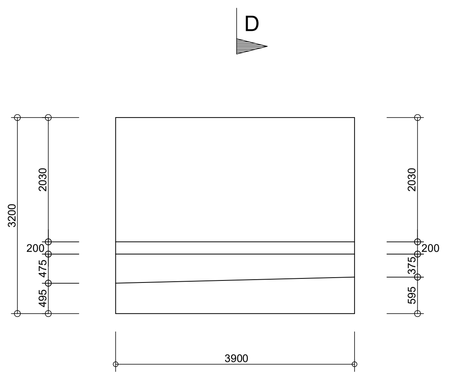
SECTION E-E
SCALE 1:50



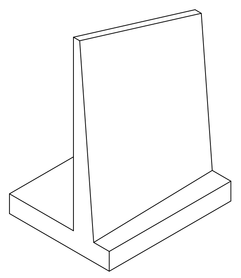
PLAN : NE1 WINGWALL
SCALE 1:50



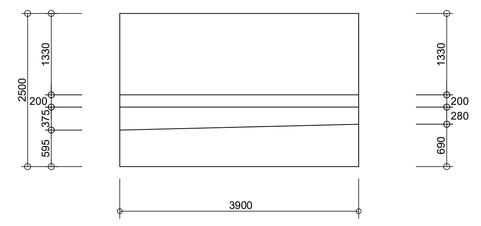
ISOMETRIC VIEW
N.T.S.



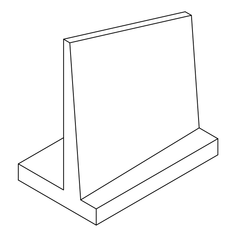
PLAN : NE2 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
N.T.S.



PLAN : NE3 WINGWALL
SCALE 1:50



ISOMETRIC VIEW
N.T.S.

FOR TENDER PURPOSES ONLY

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

No.	DATE	REVISION	CONSULT. ENG.
V0	11/03/2021	ORIGINAL VERSION	C. CRONJE

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

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NAME R Venter

CONSULTANT APPROVAL
Name : C. CRONJE
Prof. Reg. No. : 860559
Date : 11/03/2021

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BUILDING SOUTH AFRICA THROUGH BETTER ROADS

EASTERN REGION
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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	15.580	15.620
DRAWING TYPE	STRUCTURES-BRIDGES	
BRIDGE/STRUCTURE No.	B0270	
CONSULTANT DRAWING No.	BCD/B0270/08	
SANRAL DOCUMENT #		V0