BARAGOI-MASIKITA-SEREOLIPI

GRAVEL ROADS BOOK OF DRAWING

DRAWING No.	GENERAL DRAWINGS
R2000/BMS/2023/GEN/01.	DRAWING INDEX
R2000/BMS/2023/GEN/02.	PROJECT LOCATION MAP
	TYPICAL CROSS-SECTIONS
R2000/BMS/2023/TCS/01	CROSS-SECTION A(STANDARD CROSS-SECTION)
R2000/BMS/2023/TCS/02	CROSS-SECTION B (REDUCED CROSS-SECTION)
R2000/BMS/2023/TCS/03	CROSS-SECTION C (BLACK COTTON SOIL CROSS-SECTION)
R2000/BMS/2023/TCS/04	CROSS-SECTION D (SIDELONG GROUND CROSS-SECTION)
R2000/BMS/2023/TCS/05	DETAILED TYPICAL CROSS-SECTION AND BENCHING DETAILS
	PIPE CULVERTS
R2000/BMS/2023/PC/01	HEAD WALL TYPE 1
R2000/BMS/2023/PC/02	HEAD WALL TYPE 2
R2000/BMS/2023/PC/03	HEAD WALL TYPE 3
R2000/BMS/2023/PC/04	HEAD WALL TYPE 4
R2000/BMS/2023/PC/05	PIPE CULVERT DETAILS
R2000/BMS/2023/PC/06	BEDDING AND HAUNCH
	STANDARD DRAWINGS
R2000/BMS/2023/SD/01	STANDARD JUNCTION AND ACCESS DETAILS
R2000/BMS/2023/SD/02	STANDARD BUSBAY AND KERB DETAILS
R2000/BMS/2023/SD/03	STANDARD MARKER POST DETAILS
R2000/BMS/2023/SD/04	STANDARD GUARD RAIL DETAILS
	GENERAL DRAINAGE
R2000/BMS/2023/GDR/01	MITRE DRAIN DETAILS
R2000/BMS/2023/GDR/02	SCOUR CHECKS
R2000/BMS/2023/GDR/03	SCOUR CHECKS
R2000/BMS/2023/GDR/04	SCOUR CHECKS
R2000/BMS/2023/GDR/05	ACCESS DRIFTS
	TRAFFIC SIGNS
R2000/BMS/2023/TS/01	STANDARD TRAFFIC SIGNS
	PUBLICITY SIGNBOARD
R2000/BMS/2023/PSB/01	PUBLICITY SIGNBOARD

LOCATION MAP

ROAD NO: SA-01: BARAGOI-MASIKITA-SEREOLIPI (C605)

LOT 02 LENGTH: 10KMS

TENDER NO: AFD/SA-01/GRVL/C605/01b/2023-2024

255000 260000 265000 270000 275000 280000

190000 185000 180000 175000

START

END

LEGEND

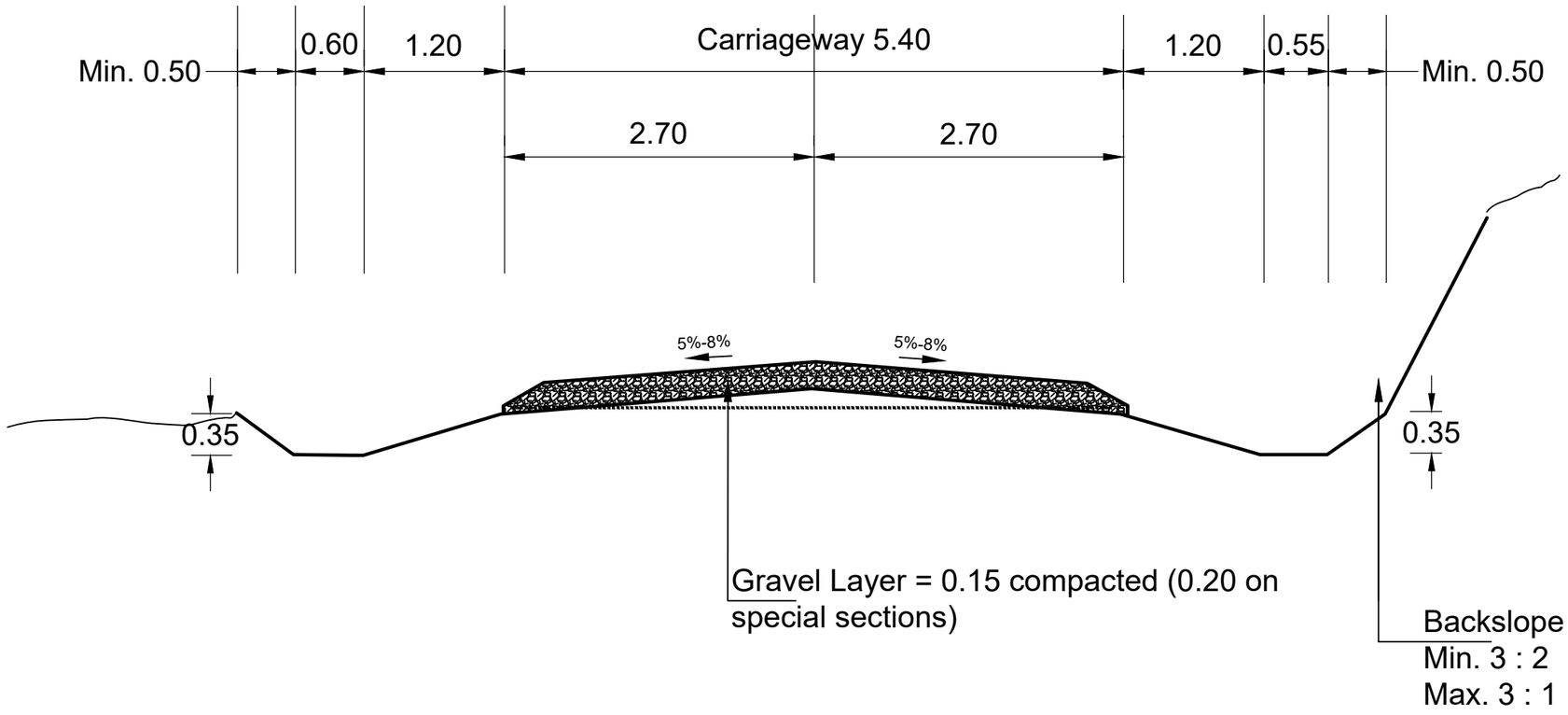
BARAGOI-MASIKITA-SEREOLIPI LOT 2 (10KM)

0 2.5 5 km

Drg No. : R2000/BMS/2023/LM/001

TYPICAL CROSS-SECTIONS

FIGURE H.1 - CROSS SECTION A (MINOR STANDARD CROSS-SECTION)



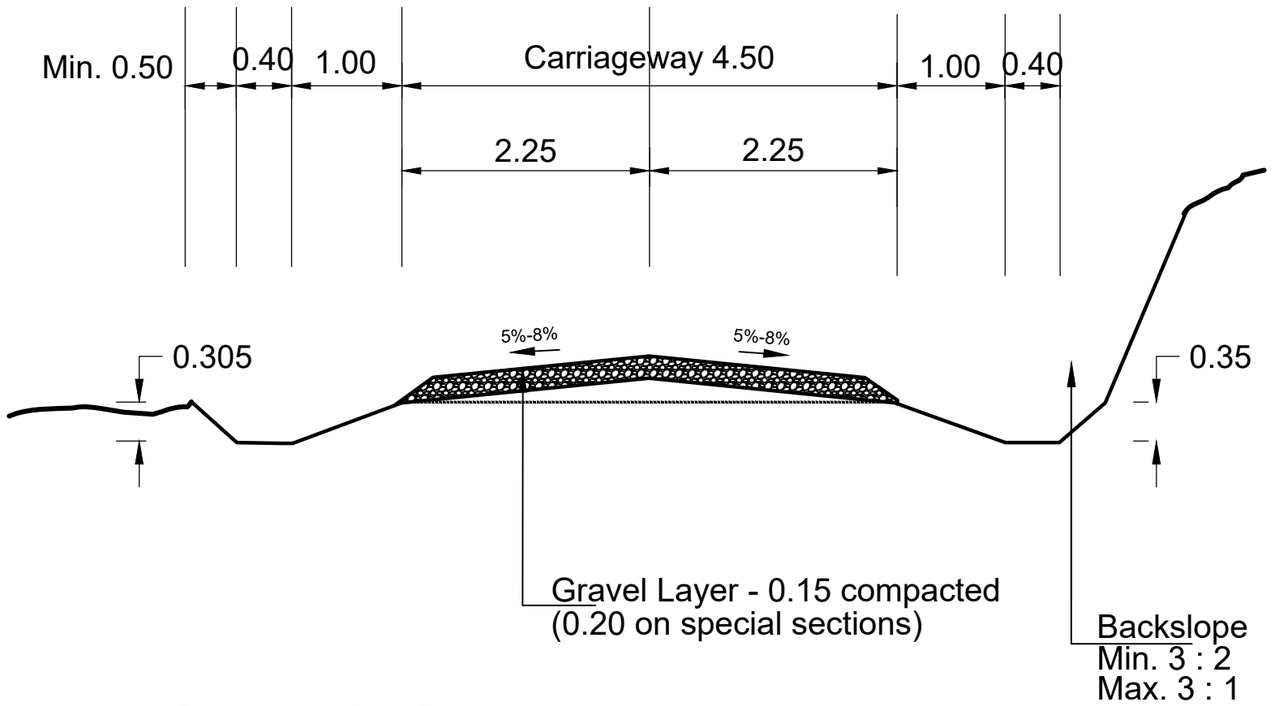
NOTE:

- ALL SPECIFIED DIMENSIONS IN m.

- TRAFFIC LEVELS OF MORE THAN 200 VPD MAY JUSTIFY RUNNING SURFACE WIDTH INCREASE TO 6.50 METRES

Drg No. : R2000/BMS/2023/TCS/001

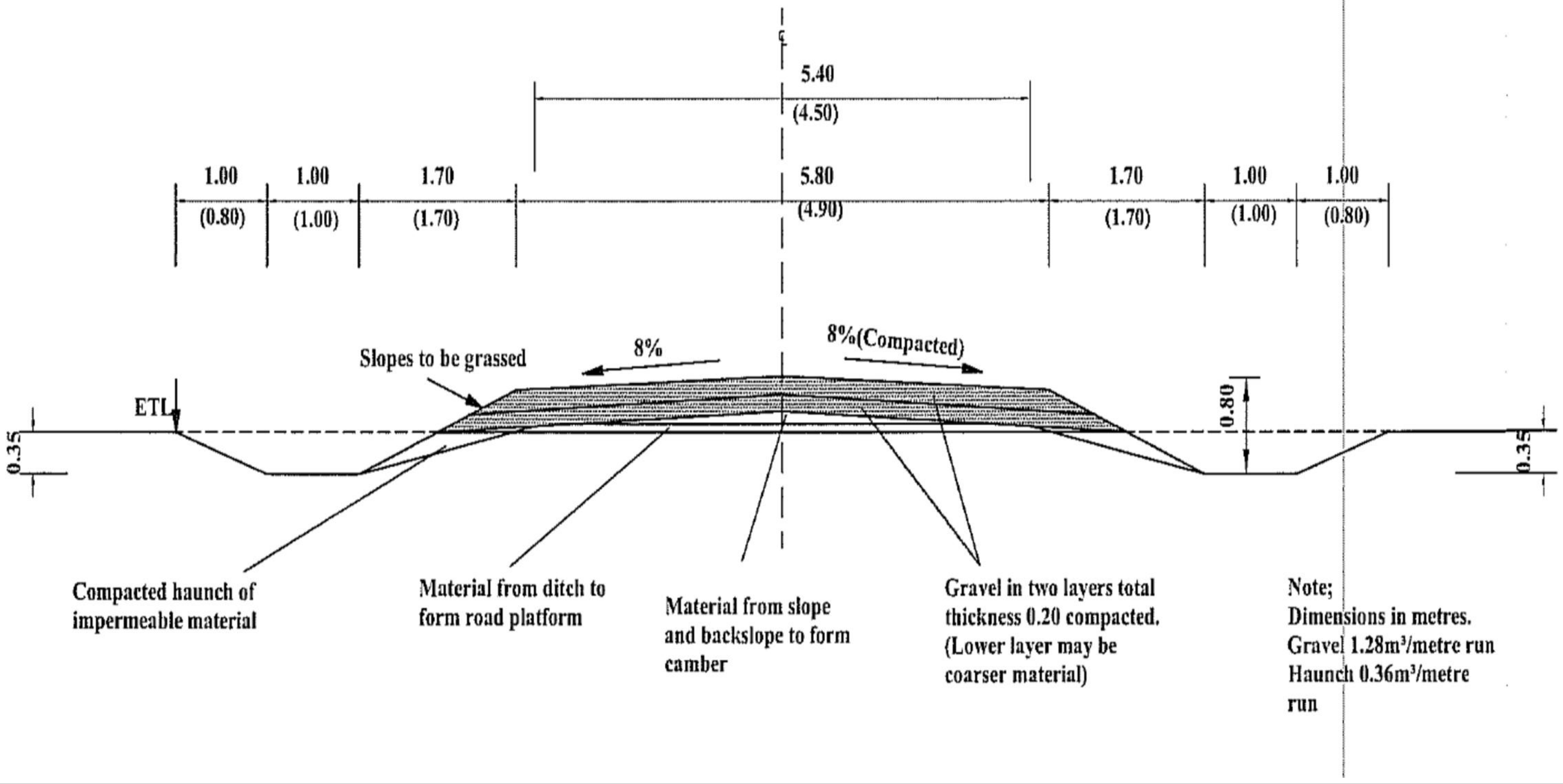
FIGURE H.2 - CROSS SECTION B (REDUCED CROSS-SECTION)



NOTE: - ALL SPECIFIED
DIMENSIONS IN m.

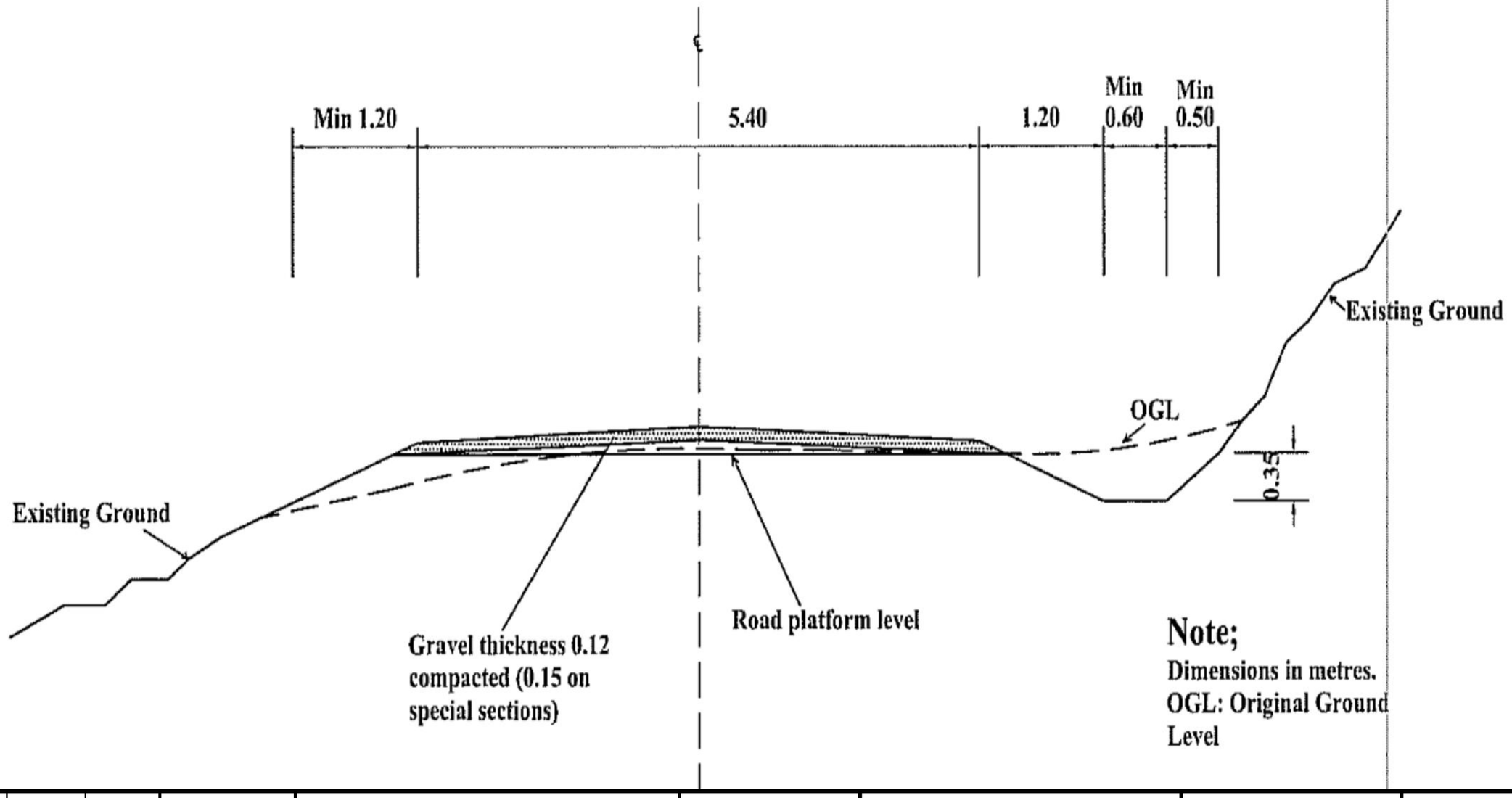
Drg No. : R2000/BMS/2023/TCS/002

Cross Section C (Black Cotton Soil)



Note;
Dimensions in metres.
Gravel 1.28m³/metre run
Haunch 0.36m³/metre run

Cross Section D (Sidelong Ground)

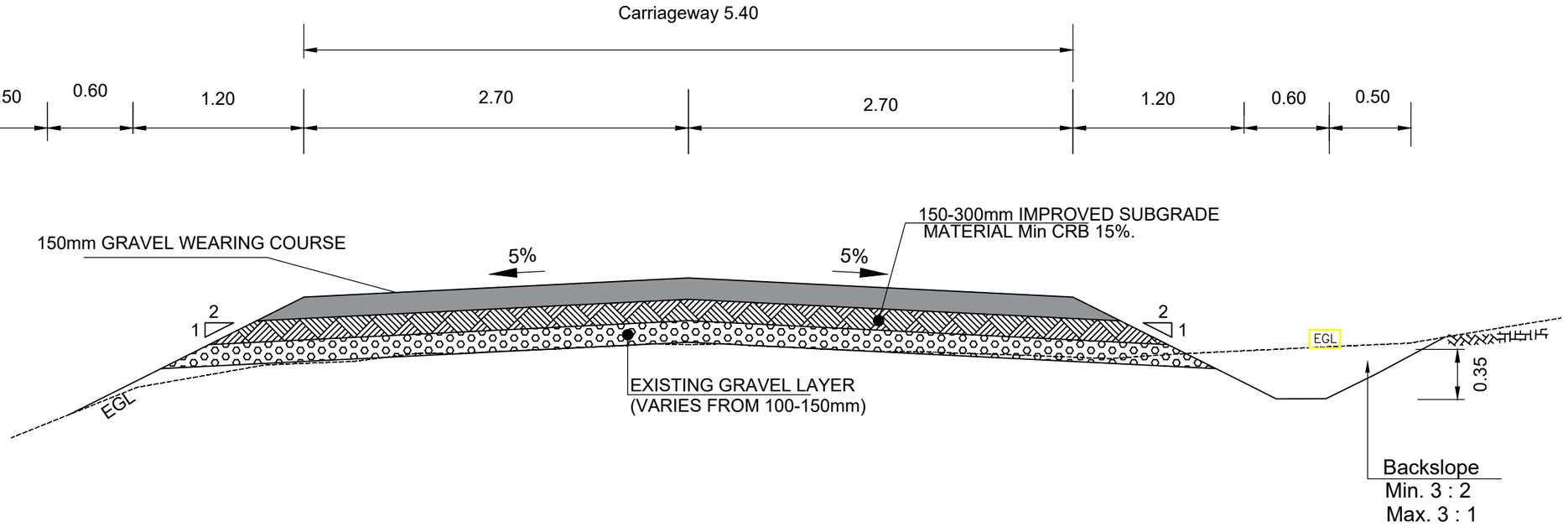


Note;

Dimensions in metres.

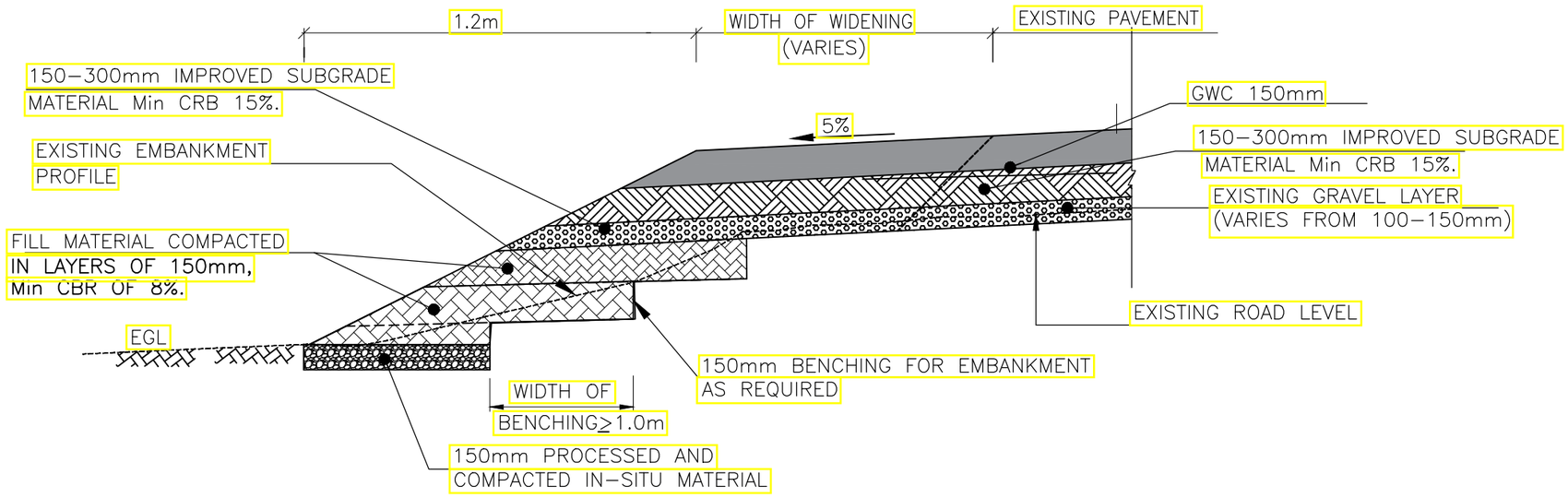
OGL: Original Ground Level

Drg No. : R2000/BMS/2023/TCS/003



TYPICAL CROSS-SECTION

SCALE 1:20



PAVEMENT WIDENING DETAILS :

SCALE 1:20

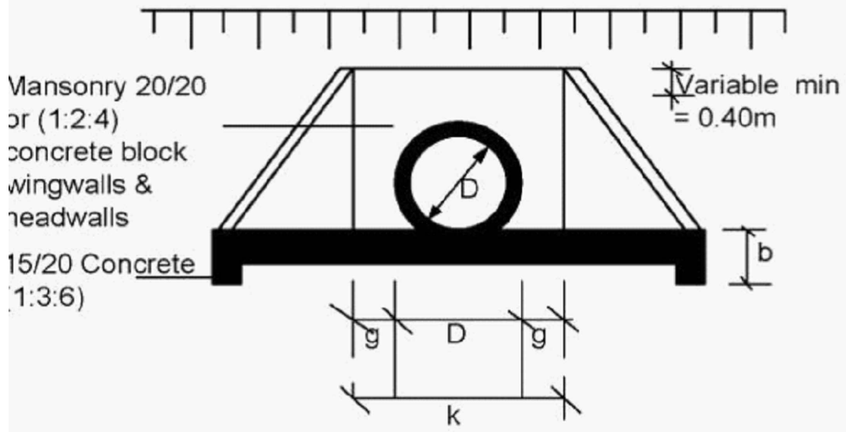
R2000/BMS/2023/GDR/005

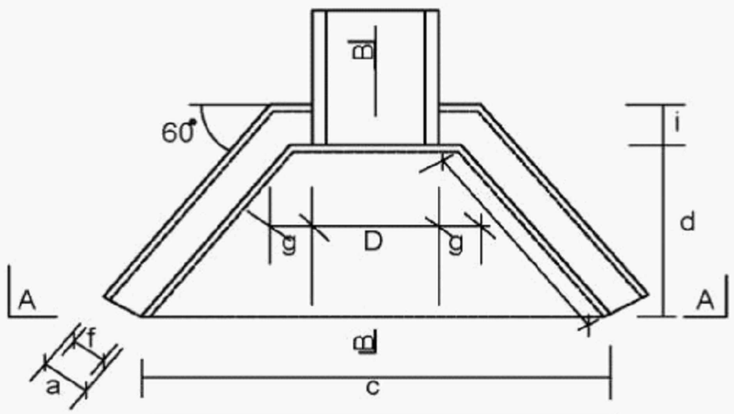
Drg No. : R2000/BMS/2023/TCS/004

PIPE CULVERTS

C8- HEADWALL TYPE 1 (HEAD AND WINGWALLS

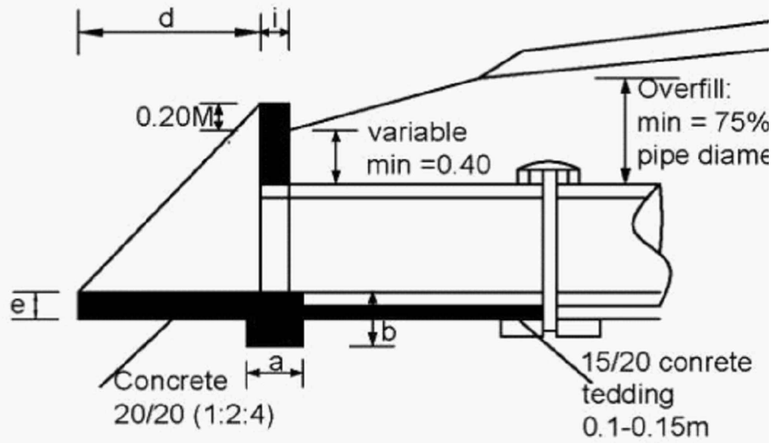
SECTION A-A





CULVERT TYPES	
X-SECTION WIDTH-M	No. of pipes
4.50	6.00
5.50	7.00
6.50	8.00

SECTION B-B

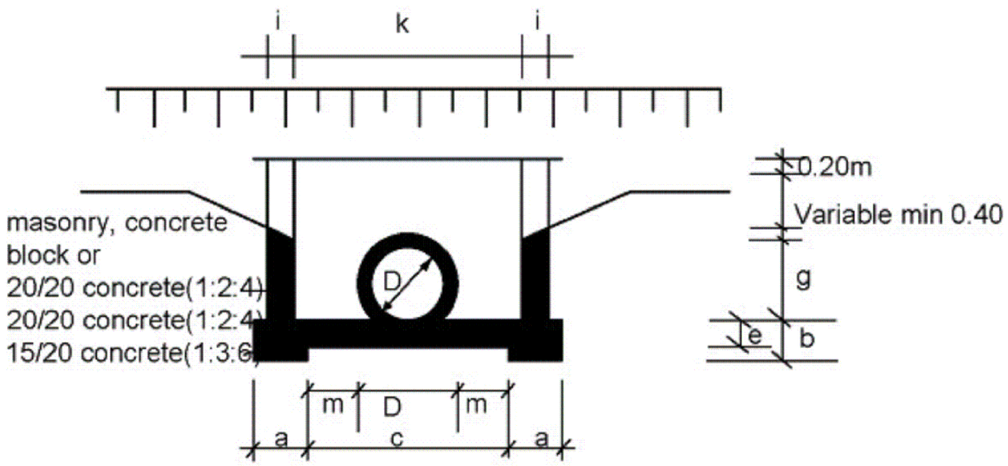


	PIPE DIAMETER IN M		TYPE A and C CONCRETE BLOCKS			TYPE B (STONE MASONRY)		
			450	600	900	450	600	900
	DIMENSION	UNIT						
a	FOUNDATION	m	0.30	0.30	0.30	0.40	0.40	0.60
b	FOUNDATION	m	0.30	0.30	0.40	0.30	0.30	0.40
c	FOUNDATION	m	2.20	2.35	2.89	2.20	2.35	2.89
d	APRON	m	1.00	1.00	1.20	1.00	1.00	1.20
e	APRON	m	0.20	0.20	0.20	0.20	0.20	0.20
f	WALL	m	0.20	0.20	0.20	0.40	0.40	0.40
g	WALL	m	0.30	0.30	0.30	0.30	0.30	0.30
h	WALL	m	1.15	1.15	1.39	1.15	1.15	1.39
i	WALL	m	0.20	0.20	0.20	0.40	0.40	0.40
k	APRON	m	1.05	1.20	1.50	1.05	1.20	1.50
	MATERIAL REQUIREMENT							
	FOUNDATION (concrete)	m3	0.30	0.32	0.51	0.40	0.42	1.03
	HEAD/WINGWALLS (Conrete/Masonry)	m3	0.42	0.49	0.70	0.84	0.96	1.40
	APRON (cocrete)	m3	0.33	0.36	0.53	0.33	0.36	0.53

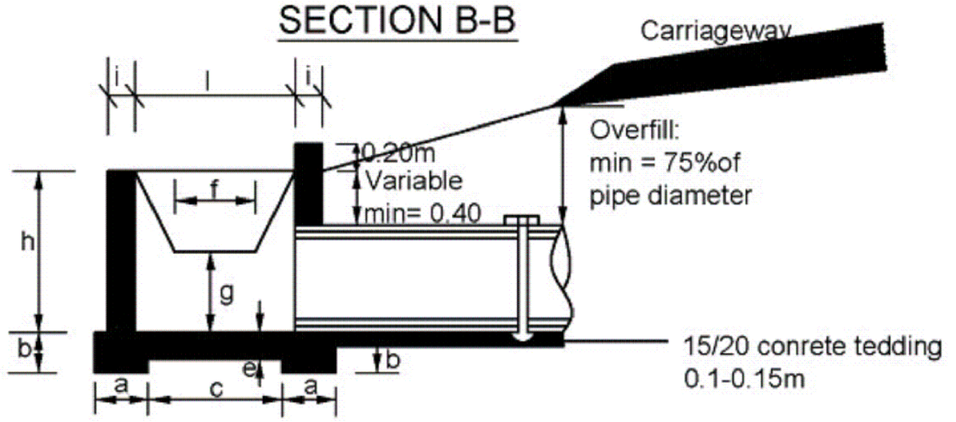
Drg No. : R2000/BMS/2023/PC/001

C9-HEADWALL TYPE 2(DROP INLET)

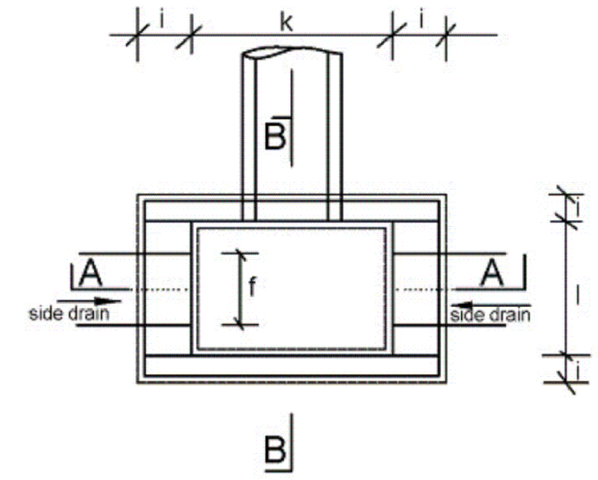
SECTION A-A



SECTION B-B



PLAN



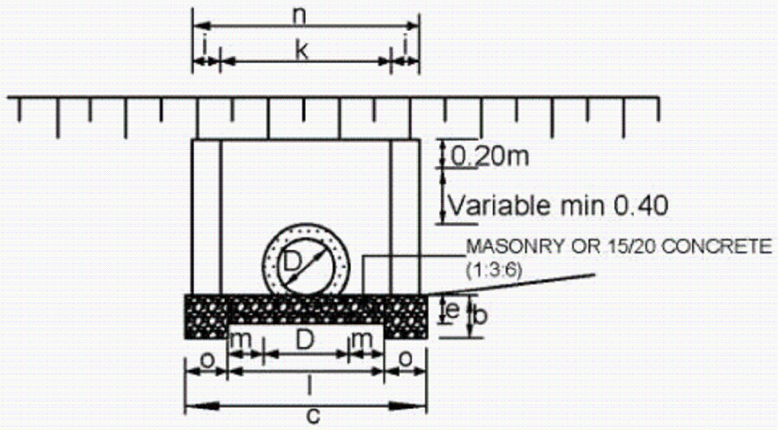
DIMENSIONS AND MATERIAL REQUIREMENTS

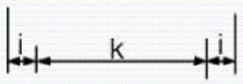
PIPE DIAMETER IN (M)			TYPE A CONCRETE BLOCKS			TYPE B (STONE MASONRY)		
			450	600	900	450	600	900
DIMENSION		UNIT						
a	FOUNDATION	m	0.30	0.30	0.30	0.40	0.40	0.40
b	FOUNDATION	m	0.30	0.30	0.30	0.30	0.30	0.30
c	FOUNDATION	m	1.10	1.10	1.40	1.20	1.20	1.50
d	APRON	m	0.90	0.90	0.90	1.00	1.00	1.00
e	APRON	m	0.20	0.20	0.20	0.20	0.20	0.20
f	DROP INLET	m	0.60	0.60	0.60	0.60	0.60	0.60
g	DROP INLET	m	0.30	0.40	0.60	0.30	0.40	0.60
h	DROP INLET	m	0.60	0.80	1.20	0.60	0.80	1.20
i	DROP INLET	m	0.20	0.20	0.20	0.40	0.40	0.40
k	DROP INLET	m	1.20	1.20	1.50	1.20	1.20	1.50
l	DROP INLET	m	1.00	1.00	1.00	1.00	1.00	1.00
m	DROP INLET	m	0.38	0.30	0.30	0.38	0.30	0.30
MATERIAL REQUIREMENT								
FOUNDATION (concrete)		m3	0.47	0.47	0.52	0.72	0.72	0.79
HEADWINGWALLS (Conrete/Masonry)		m3	0.6	0.72	1.15	1.27	1.63	2.65
APRON (cocrete)		m3	0.24	0.24	0.30	0.24	0.24	0.30

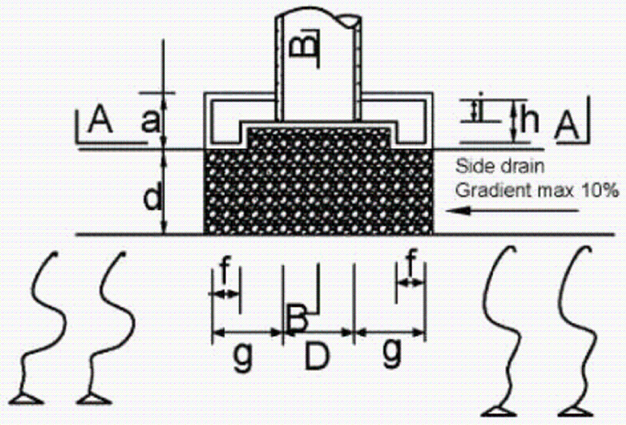
Drg No. : R2000/BMS/2023/PC/002

C.10-HEADWALL TYPE 3A (CONCRETE/ BLOCK HEADWALLS

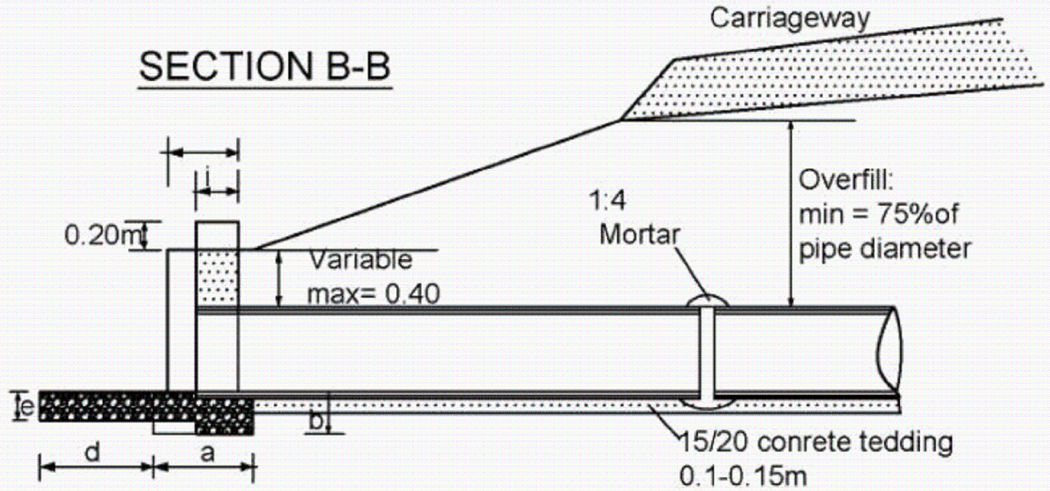
SECTION A-A







SECTION B-B



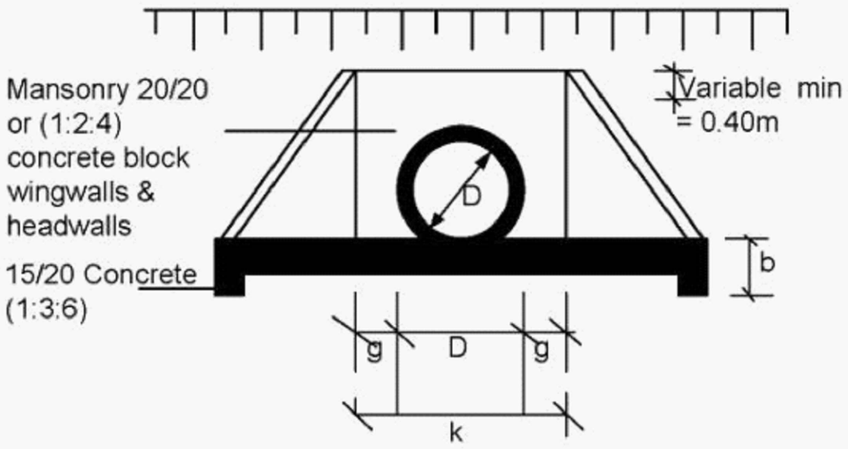
DIMENSIONS AND MATERIAL REQUIREMENTS

PIPE DIAMETER IN (M)			TYPE A and C CONCRETE BLOCKS 450	600	
DIMENSION		UNIT			
a	FOUNDATION	m	0.50	0.50	
b	FOUNDATION	m	0.30	0.30	
c	FOUNDATION	m	1.55	1.70	
d	APRON	m	0.60	0.60	
e	APRON	m	0.20	0.20	
f	HEADWALL	m	0.20	0.20	
g	HEADWALL	m	0.50	0.50	
h	HEADWALL	m	0.50	0.50	
i	HEADWALL	m	0.50	0.50	
k	HEADWALL	m	0.50	0.50	
l	FOUNDATION	m	0.50	0.50	
m	FOUNDATION	m	0.50	0.50	
n	HEADWALL	m	0.50	0.50	
o	FOUNDATION	m	0.50	0.50	
MATERIAL REQUIREMENT					
FOUNDATION (concrete)			0.23	0.19	
HEAD/WINGWALLS (Conrete/Masonry)			0.34	0.37	
APRON (cocrete)			0.95	0.99	

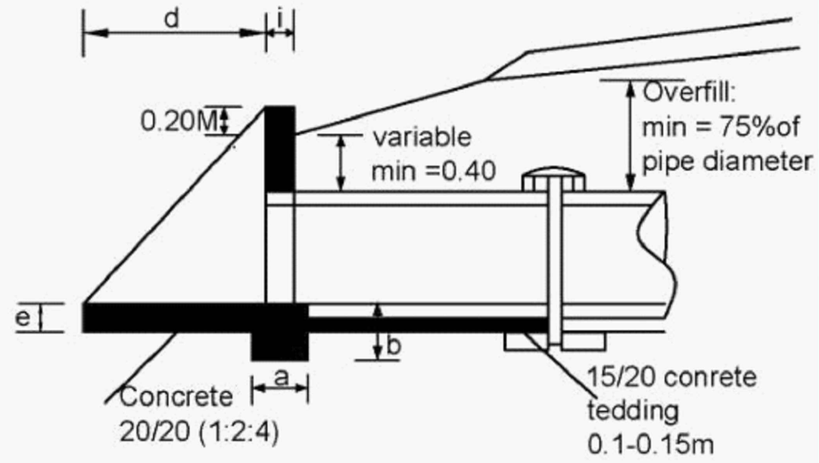
Drg No. : R2000/BMS/2023/PC/003

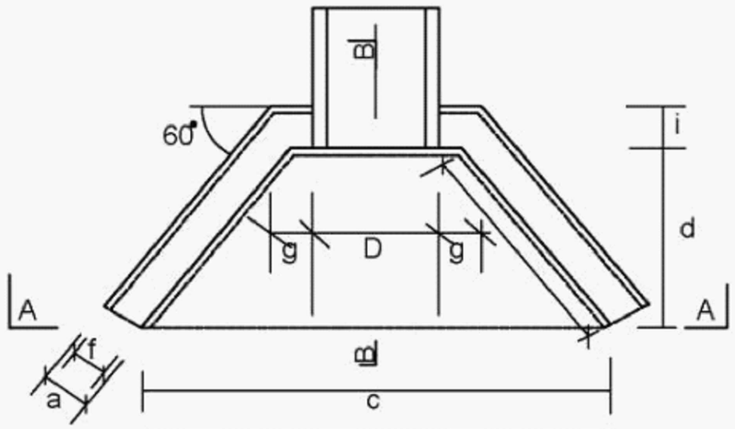
C12- HEADWALL TYPE 4 (FOR ACCESS CULVERTS

SECTION A-A



SECTION B-B

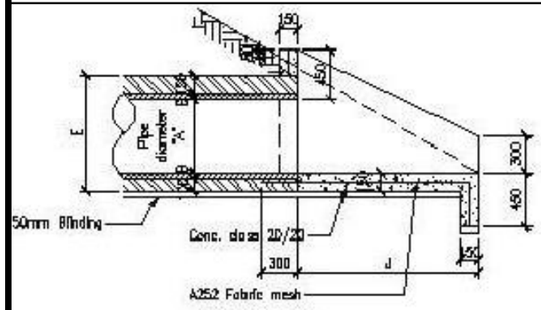




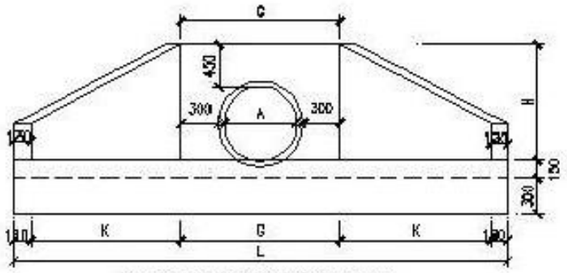
CULVERT TYPES	
X-SECTION WIDTH-M	No. of pipes
4.50	6.00
5.50	7.00
6.50	8.00

	PIPE DIAMETER IN M		TYPE A CONCRETE BLOCKS			TYPE B (STONE MASONRY)		
			450	600	900	450	600	900
	DIMENSION	UNIT						
a	FOUNDATION	m	0.30	0.30		0.40	0.40	
b	FOUNDATION	m	0.30	0.30		0.30	0.30	
c	FOUNDATION	m	1.34	1.49		1.34	1.49	
d	APRON	m	0.6	0.6		0.60	0.60	
e	APRON	m	0.20	0.20		0.20	0.20	
f	WALL	m	0.20	0.20		0.40	0.40	
g	WALL	m	0.1	0.10		0.10	0.10	
h	WALL	m	0.69	0.69		0.69	0.69	
i	WALL	m	0.20	0.20		0.40	0.40	
k	APRON	m	0.4	0.40		1.05	1.20	
	MATERIAL REQUIREMENT							
	FOUNDATION (concrete)	m3	0.18	0.2		0.24	0.26	
	HEAD/WINGWALLS (Conrete/Masonry)	m3	0.28	0.32		0.53	0.61	
	APRON (cocrete)	m3	0.12	0.14		0.12	0.14	

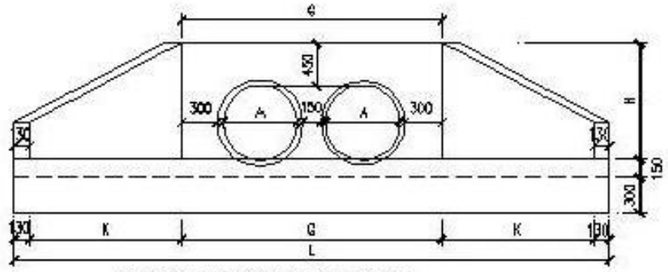
Drg No. : R2000/BMS/2023/PC/004



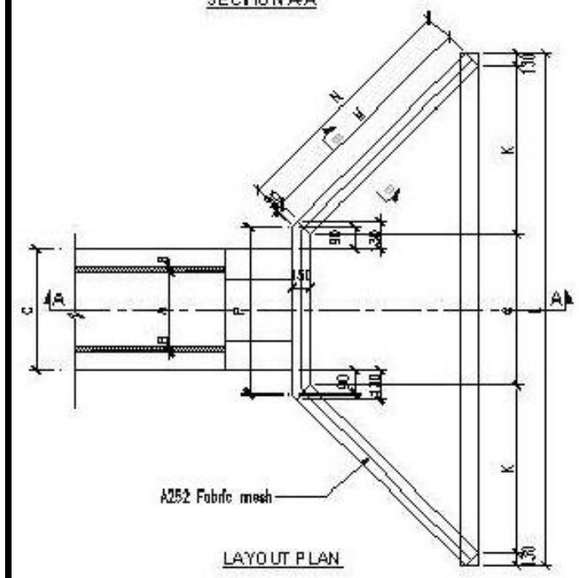
SECTION A-A



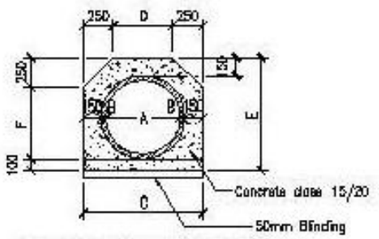
FRONT ELEVATION-SINGLE CELL



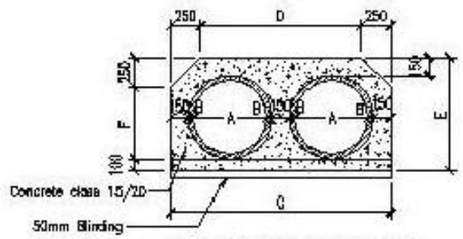
FRONT ELEVATION-MULTIPLE CELL



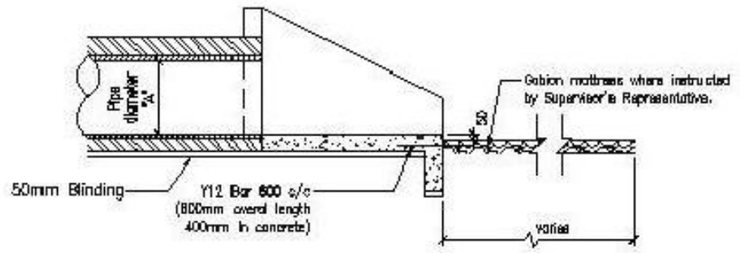
LAYOUT PLAN



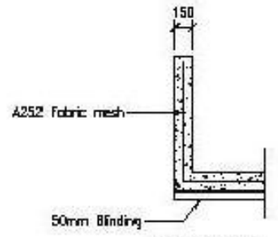
TYPICAL CONCRETE BED AND SURROUND - SINGLE CELL



TYPICAL CONCRETE BED AND SURROUND - MULTIPLE CELL



SECTION A-A (with gabion mattress shown)



SECTION B-B

TABLE A - 1-CELL CONCRETE PIPE CULVERTS

CULVERT	A (m)	B (m)	C (m)	D (m)	E (m)	F (m)	G (m)	H (m)	J (m)	K (m)	L (m)	M (m)	N (m)	P (m)	CONCRETE CLASS 20/20 Inlet & Outlet	CONCRETE CLASS 15/20 Surround & Bed per running m
Diameter 0.60m	0.60	0.05	1.00	0.50	0.95	0.60	1.20	0.95	1.25	0.72	3.00	1.44	1.53	1.18	1.58m^3	0.50m^3
Diameter 0.90m	0.90	0.09	1.38	0.88	1.33	0.98	1.50	1.25	2.25	1.30	4.54	2.60	2.69	1.56	4.07m^3	0.86m^3
Diameter 1.20m	1.20	0.10	1.80	1.30	1.70	1.35	1.80	1.55	2.85	1.65	5.56	3.29	3.38	1.88	5.92 m^3	1.46 m^3

TABLE B - 2-CELL CONCRETE PIPE CULVERTS

CULVERT	A (m)	B (m)	C (m)	D (m)	E (m)	F (m)	G (m)	H (m)	J (m)	K (m)	L (m)	M (m)	N (m)	P (m)	CONCRETE CLASS 20/20 Inlet & Outlet	CONCRETE CLASS 15/20 Surround & Bed per running m
Diameter 0.60m	0.60	0.05	1.85	1.35	0.95	0.60	2.15	0.95	1.25	0.72	3.85	1.44	1.53	2.03	2.22m^3	0.93m^3
Diameter 0.90m	0.90	0.09	2.61	2.11	1.33	0.98	2.91	1.25	2.25	1.30	5.77	2.60	2.69	2.79	4.89m^3	1.58m^3
Diameter 1.20m	1.20	0.10	3.25	2.75	1.70	1.35	3.55	1.55	2.85	1.65	7.11	3.29	3.38	3.43	7.24m^3	2.38m^3

TABLE C - 3-CELL CONCRETE PIPE CULVERTS

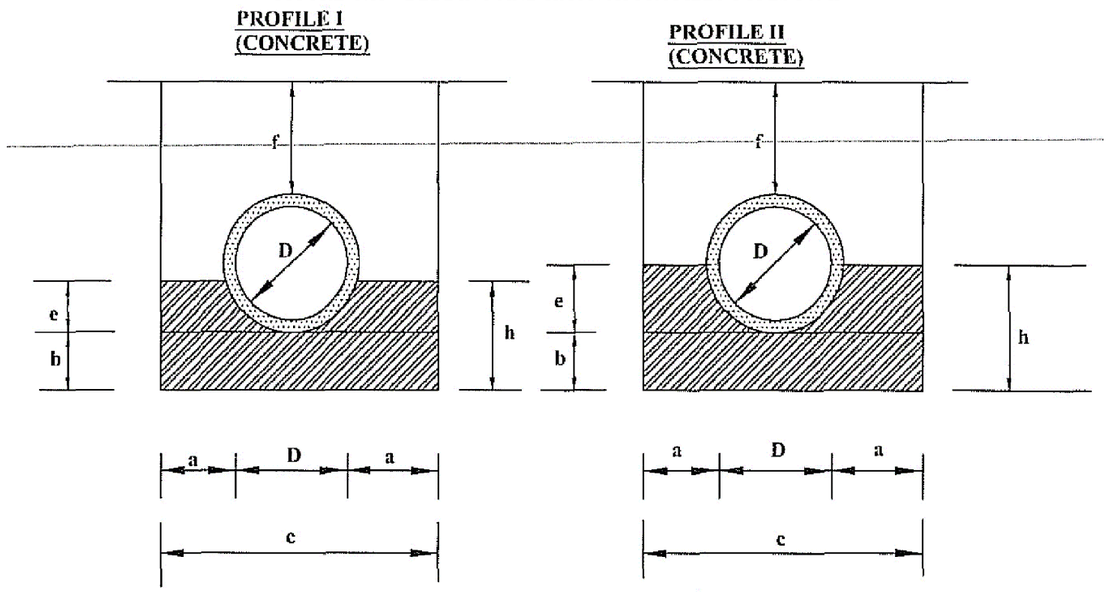
CULVERTS	A (m)	B (m)	C (m)	D (m)	E (m)	F (m)	G (m)	H (m)	J (m)	K (m)	L (m)	M (m)	N (m)	P (m)	CONCRETE CLASS 20/20 Inlet & Outlet	CONCRETE CLASS 15/20 Surround & Bed per running m
Diameter 0.60m	0.60	0.05	2.70	2.20	0.95	0.60	3.00	0.95	1.25	0.72	4.70	1.44	1.53	2.88	2.66m^3	1.35m^3
Diameter 0.90m	0.90	0.09	3.84	3.34	1.33	0.98	4.14	1.25	2.25	1.30	7.00	2.60	2.69	4.02	5.86m^3	2.30m^3
Diameter 1.20m	1.20	0.10	4.80	4.30	1.70	1.35	5.10	1.55	2.85	1.65	8.88	3.29	3.38	4.98	8.73m^3	3.48m^3

NOTES:

1. All dimensions are in millimetres,unless otherwise indicated

Drg No. : R2000/BMS/2023/PC/005

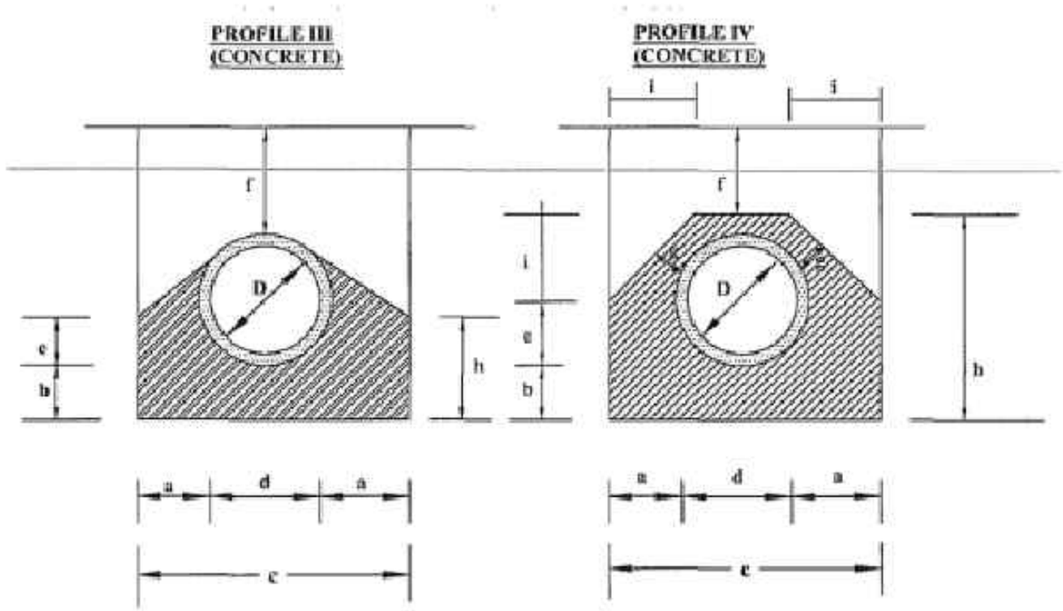
FIGURE C.13 - BEDDING AND HAUNCH PROFILES TYPES I & II



Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.14	0.18	0.27
f(min)	0.34	0.45	0.68
g	-	-	-
h	0.24	0.33	0.42
i	-	-	-
Concrete	Volume in (m3/m)		
Class 15/20	0.24	0.24	0.24
Application	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

450 (mm)	600 (mm)	900 (mm)
0.15	0.20	0.20
0.10	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.28	0.36	0.54
0.34	0.45	0.68
-	-	-
0.38	0.51	0.69
-	-	-
Volume in (m3/m)		
0.20	0.37	0.56
-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Material for back/overfill shall be approved by the Engineer		

FIGURE C.14 - BEDDING AND HAUNCH PROFILES TYPES III & IV

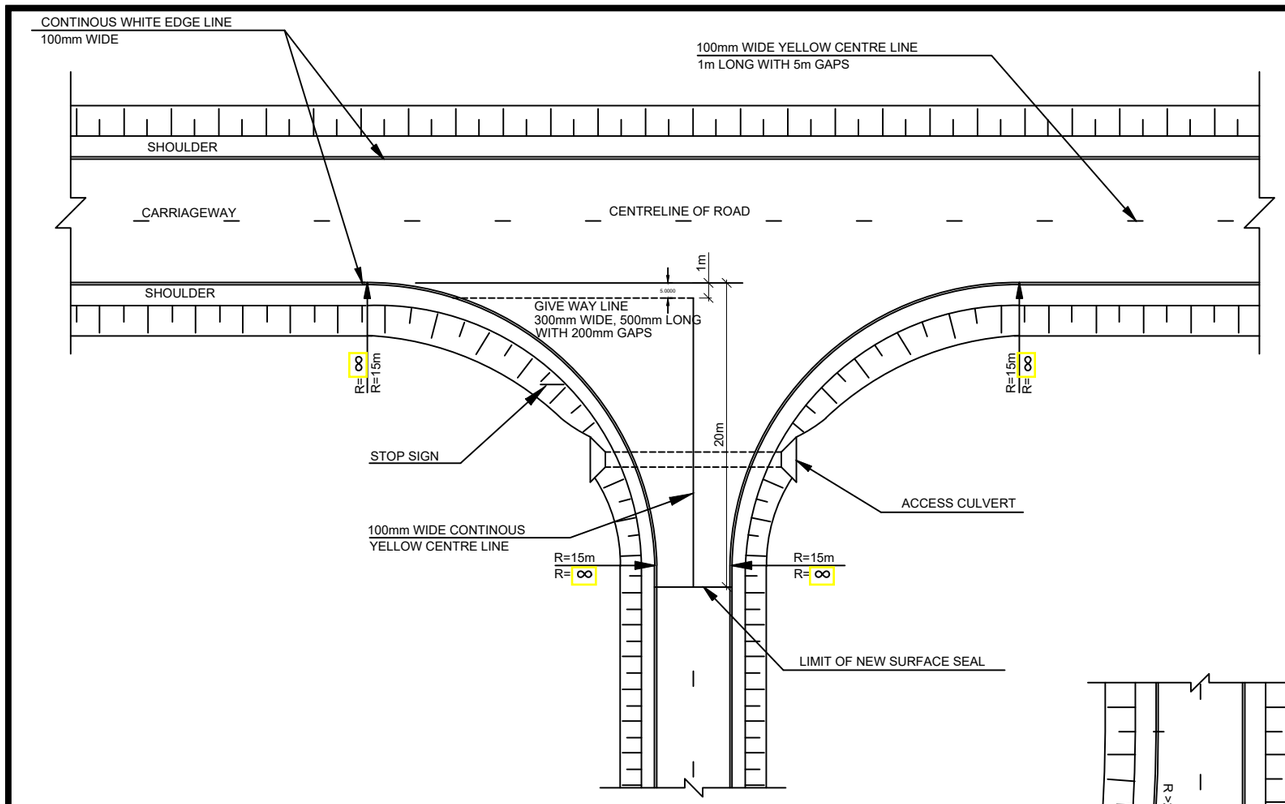


Diameter (D)	450 (mm)	600 (mm)	900 (mm)
a	0.15	0.20	0.20
b	0.10	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.42	0.54	0.81
f(min)	0.23	0.3	0.45
g	-	-	-
h	0.52	0.69	0.96
i	-	-	-
Concrete	Volume in (m3/m)		
Class 15/20	0.26	0.47	0.71
Application	-Fair subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Remarks	Material for back/overfill shall be approved by the Engineer		

450 (mm)	600 (mm)	900 (mm)
0.15	0.20	0.20
0.10	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.46	0.52	0.78
0.15	0.15	0.15
0.15	0.15	0.15
0.81	1.02	1.38
0.28	0.35	0.45
Volume in (m3/m)		
0.37	0.61	0.92
-Fair to poor subgrade condition -Overfill > 75% of the pipe diameter -Seasonal water flow only		
Material for back/overfill shall be approved by the Engineer		

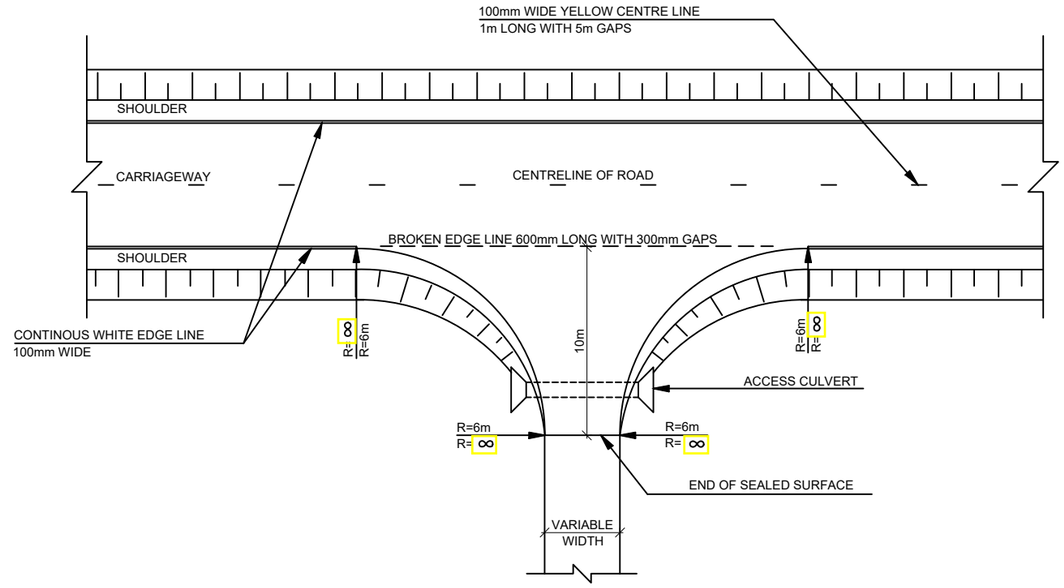
Drg No. : R2000/BMS/2023/PC/006

STANDARD DRAWINGS



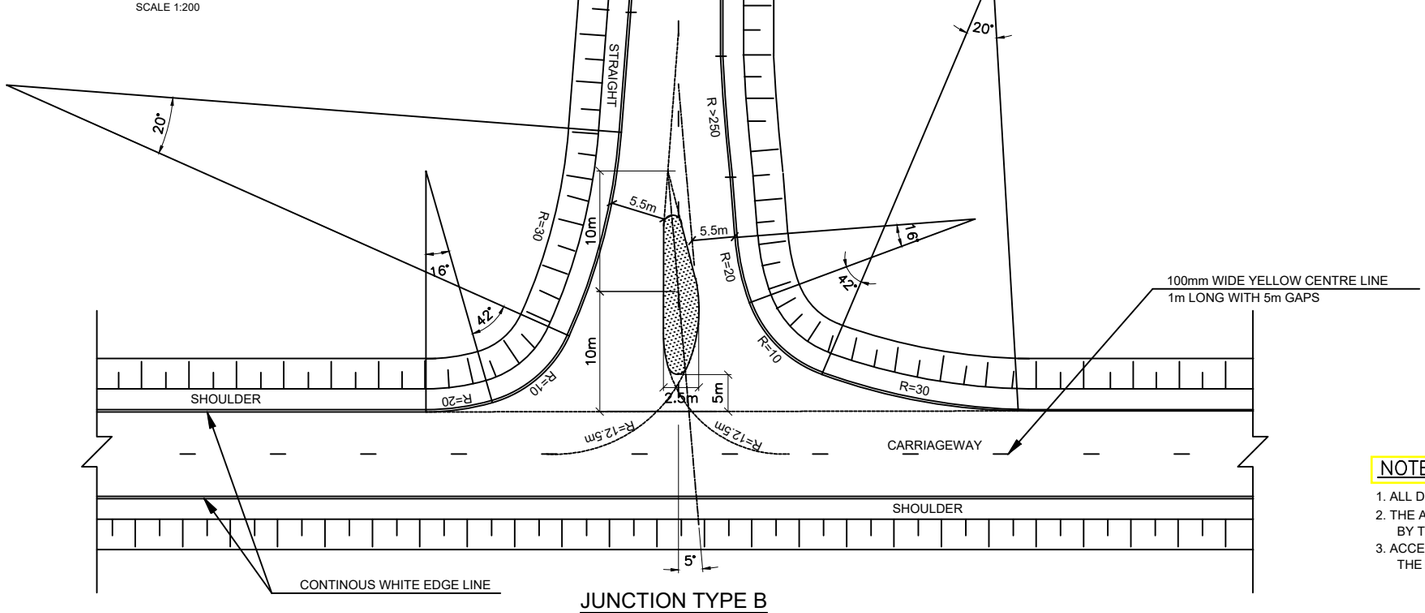
JUNCTION TYPE C

SCALE 1:200



JUNCTION TYPE D : MINOR ACCESSES

SCALE 1:200

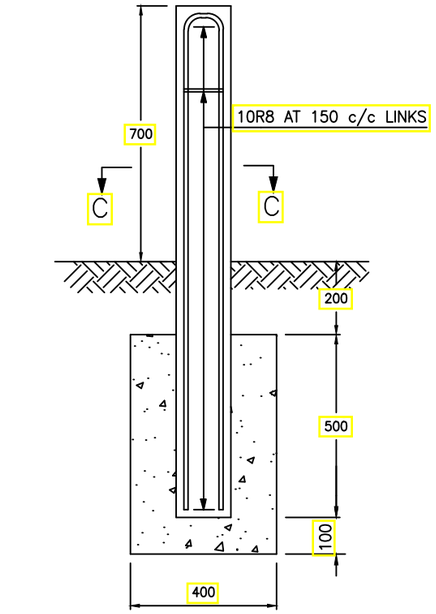


JUNCTION TYPE B

NOTES:

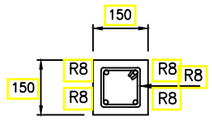
1. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SHOWN.
2. THE ACTUAL LOCATION OF PRIVATE ACCESS TO BE AS DIRECTED BY THE ENGINEER ON SITE.
3. ACCESS CULVERTS, AS REQUIRED, SHALL BE AS DIRECTED BY THE ENGINEER.

Drg No. : R2000/BMS/2023/SD/001



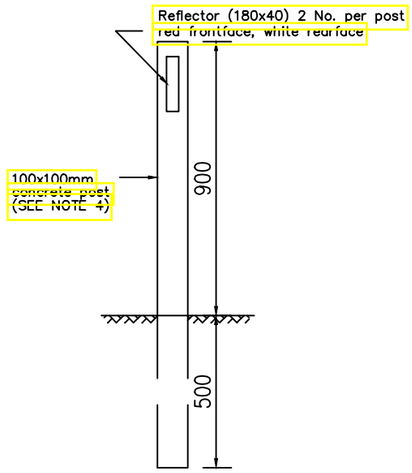
CULVERT/SERVICE DUCT MARKER POST

SCALE 1:10



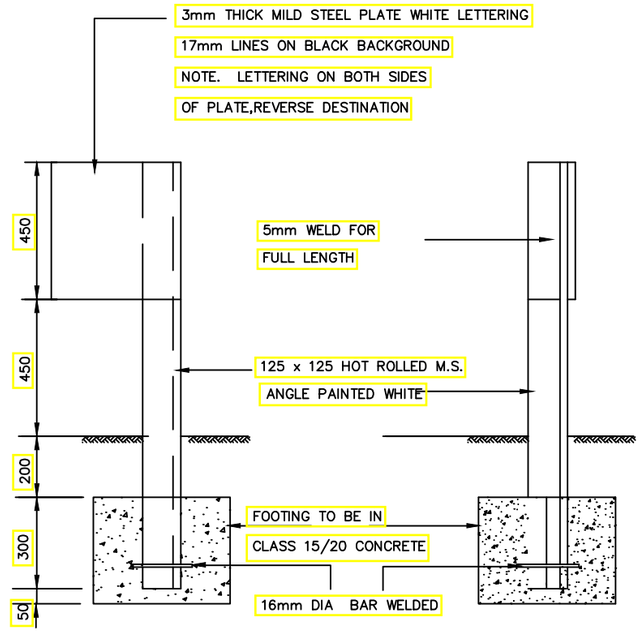
SECTION C–C

SCALE 1:10



EDGE MARKER POST

SCALE 1 : 20

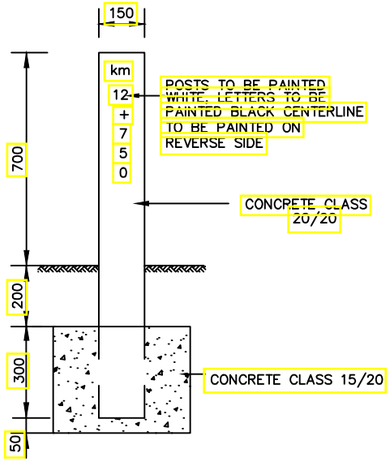


FRONT ELEVATION

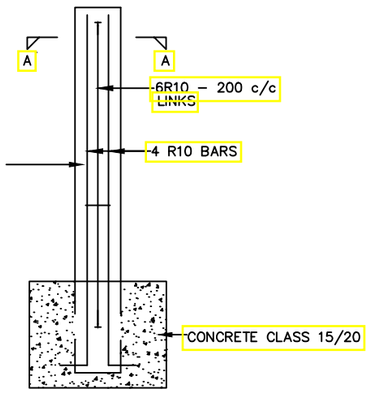
SIDE ELEVATION

KILOMETER MARKER POST

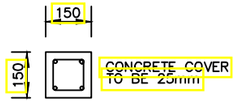
SCALE 1 : 20



FRONT ELEVATION



REINFORCED DETAILS



SECTION A – A

ROAD RESERVE BOUNDARY POST

SCALE 1: 20

NOTES

1. Edge marker posts

To be provided both sides of carriageway in the following cases:–

a). Embankments of height 2m or above where guardrail is not provided

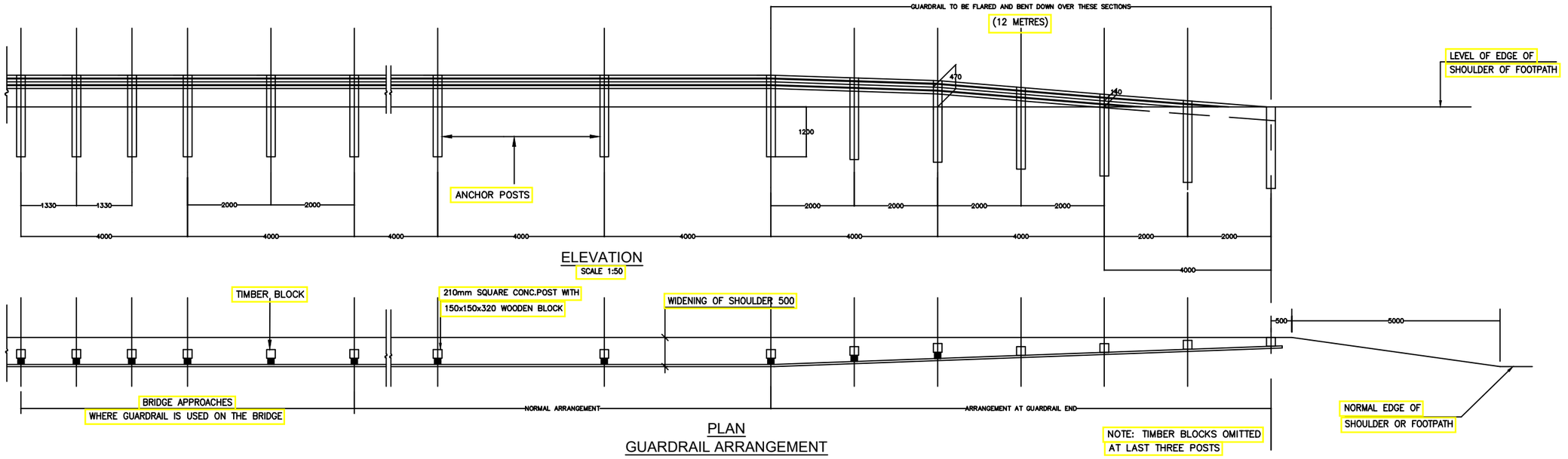
b). As shown in the contract dwgs or directed by the Engineer.

3. Alternative edge marker post design can be submitted to Engineer for approval

4. The distance between edge marker posts to be 50m. On curves, the distance to be reduced to 25m. On hills, distance to be 25m. Where there is limited sight distance, this distance must be reduced so that at least 5 posts are visible.

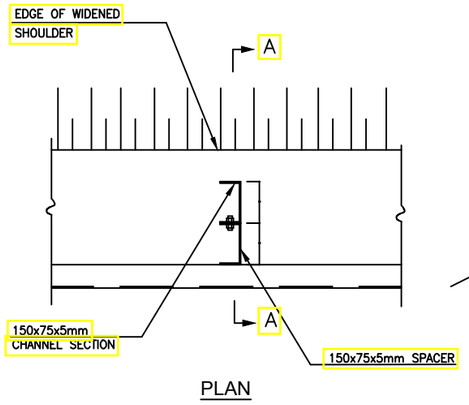
5. All dimensions in MM

Drg No. : R2000/BMS/2023/SD/002

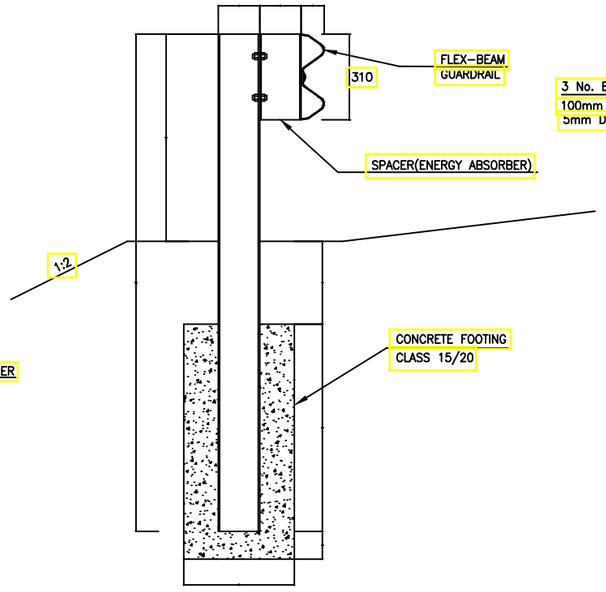


ELEVATION
SCALE 1:50

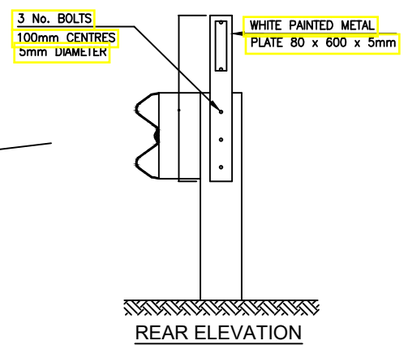
PLAN
GUARDRAIL ARRANGEMENT



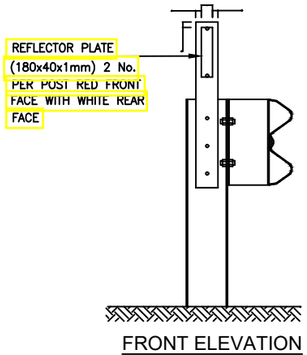
PLAN



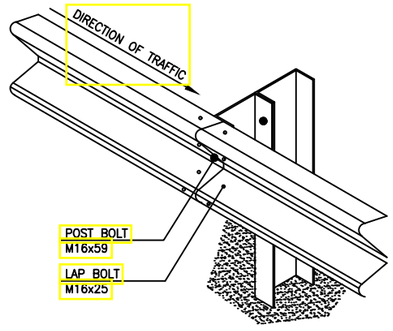
SECTION A-A
SCALE 1:10



REAR ELEVATION



FRONT ELEVATION



FLEX-BEAM JOINTS

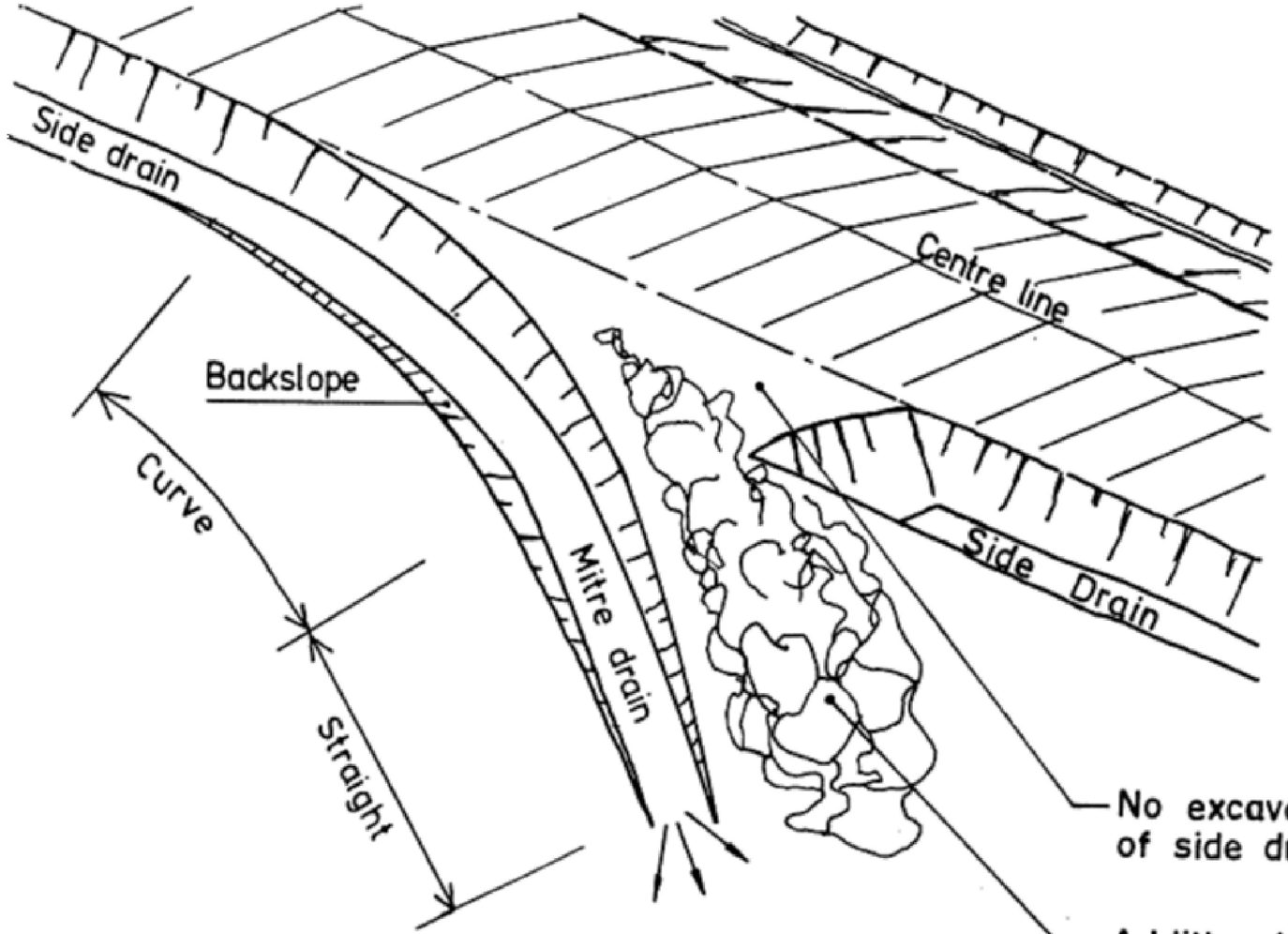
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
2. LAP GUARDRAIL SECTIONS IN DIRECTION OF TRAFFIC FLOW.
3. ALL BOLTS SHALL BE BUTTON-HEADED AND GALVANISED.
4. THE GUARDRAIL SHALL BE GALVANISED.
5. START AND END OF GUARDRAIL SECTION TO BE IDENTICAL.
6. COMPACTION AROUND POSTS TO BE THE SAME AS SURROUNDING EARTHWORKS.
7. NORMAL SHOULDER WIDTH TO BE INCREASED BY 0.5M AS SHOWN WHERE GUARDRAIL IS REQUIRED.
8. ALL NUTS TO BE SPOT WELDED TO THE BOLT.
9. STANDARD UNITS ALSO TO BE USED ON THE END SECTIONS.
10. THE POST SHALL BE DUG INTO THE FILL BY METHOD APPROVED BY BY THE ENGINEER.
11. GUARDRAIL TO BE LOCATED AS DIRECTED BY THE ENGINEER.
12. THE THICKNESS OF THE GUARDRAIL SHALL BE 3.0mm.
13. STRUCTURAL STEEL TO BE BS 4360 GRADE 43, PAINTED WITH 2 COATS OF RED OXIDE AND 2 COATS OF BITUMINOUS ALUMINIUM PAINT.

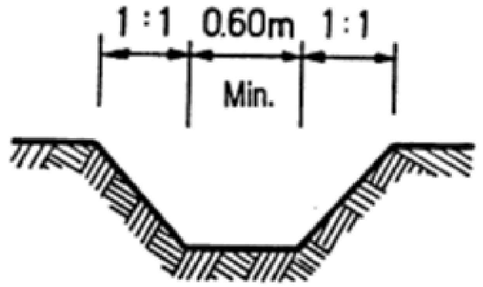
Drg No. : R2000/BMS/2023/SD/003

GENERAL DRAINAGE

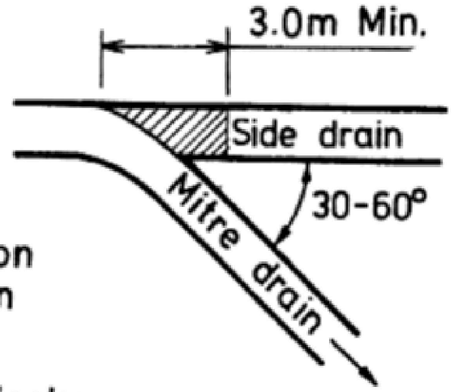
MITRE DRAIN



Cross section:



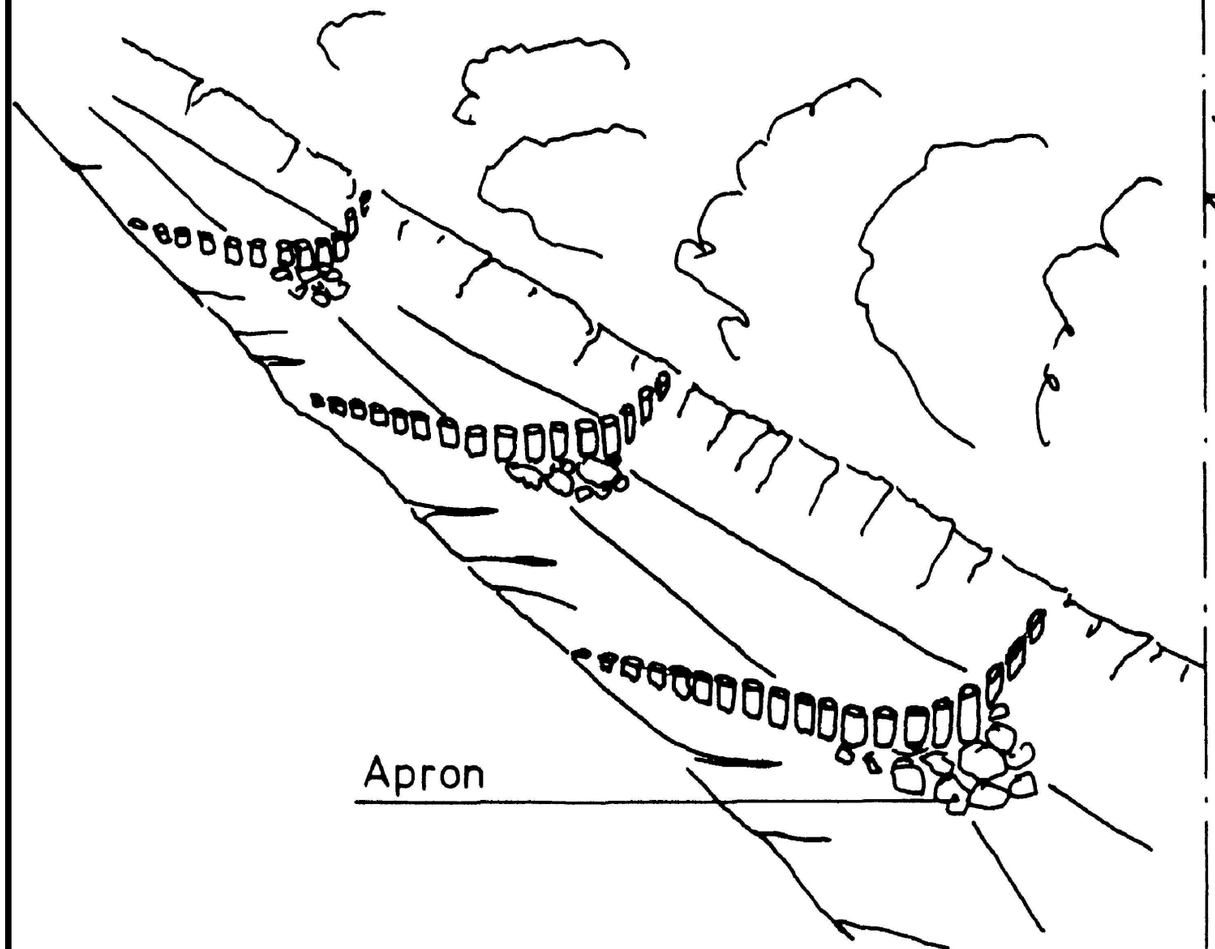
Plan:



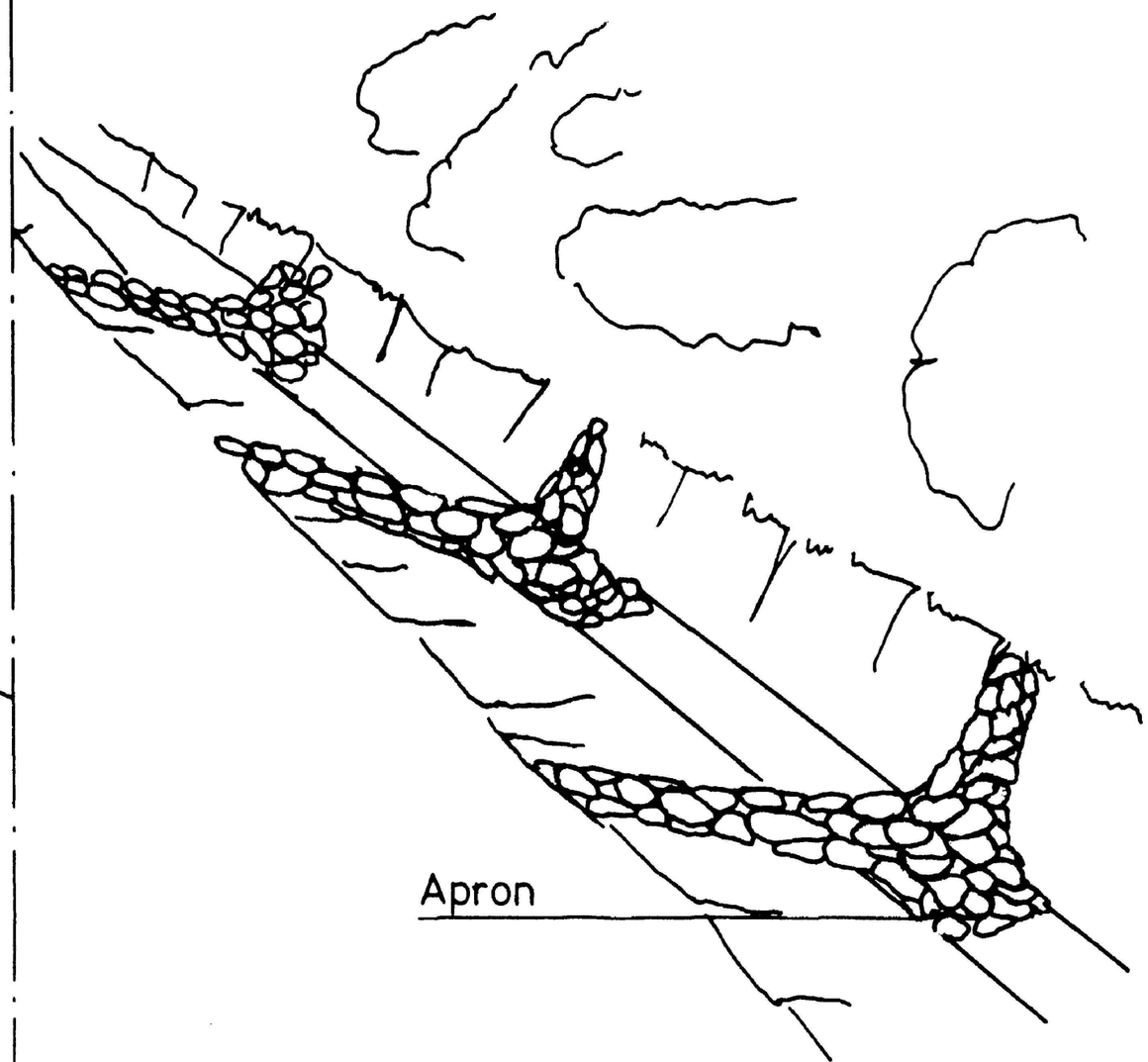
Drg No. : R2000/BMS/2023/GDR/001

SCOUR CHECKS

Scour checks made of wooden stakes:



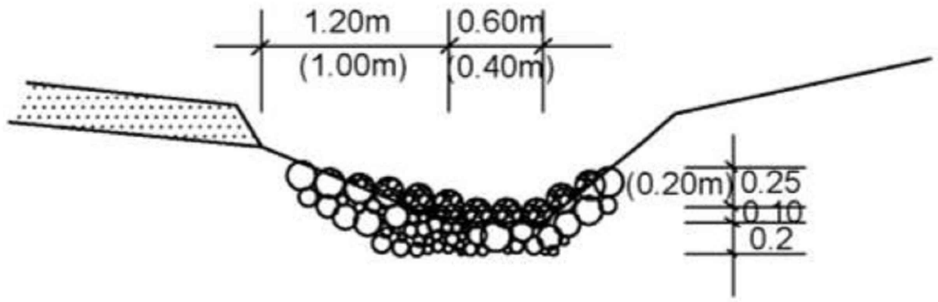
Scour checks made of stones:



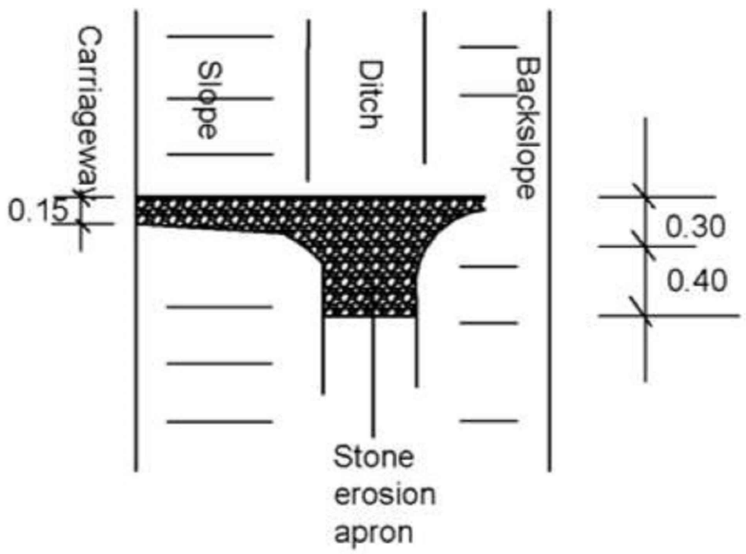
									Drg No. : R2000/BMS/2023/GDR/002

Scour checks made of stones

Cross section

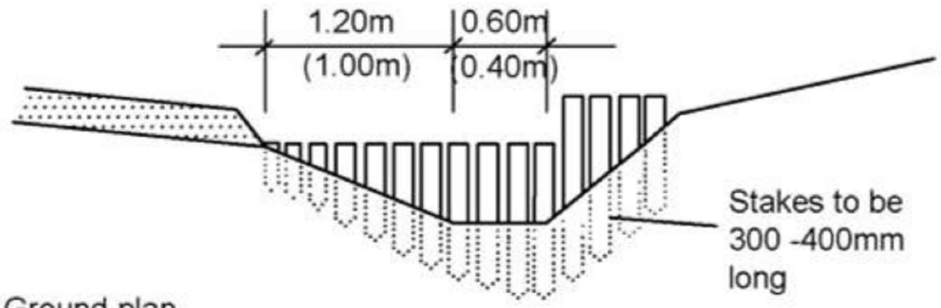


Ground plan

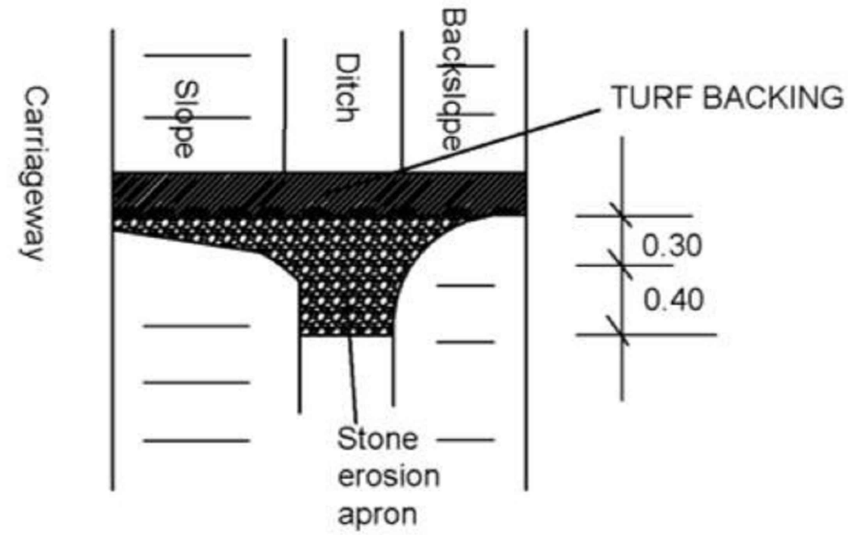


Scour checks made of wooden stakes

Cross section



Ground plan

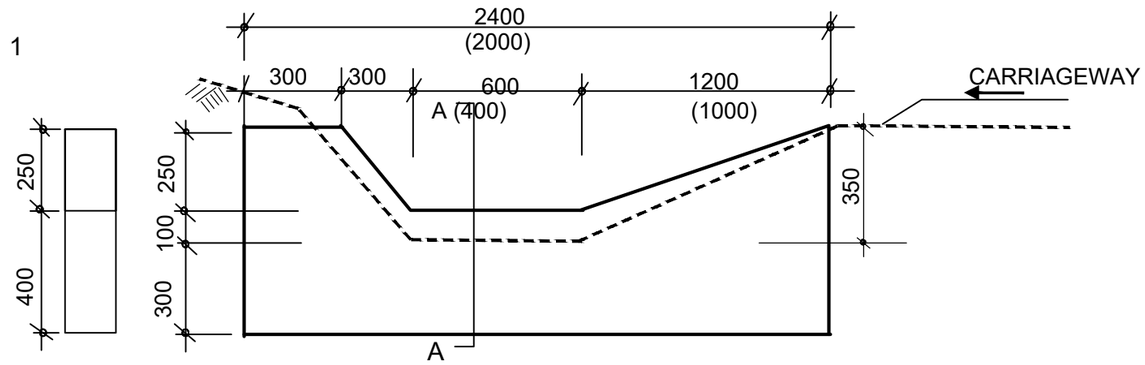


STONE WEIGHT:MIN 10KG
STAKE DIAMETER: MIN. 0.10m

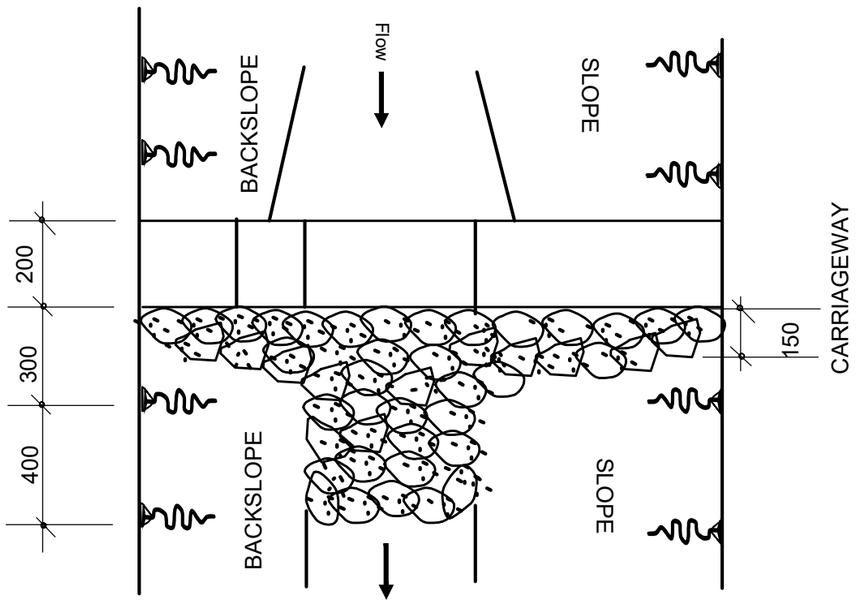
NOTE
1Dimensions in metres

Drg No. : R2000/BMS/2023/GDR/003

- MASONRY SCOUR CHECKS



A SECTION OF MASONRY SCOUR CHECKS



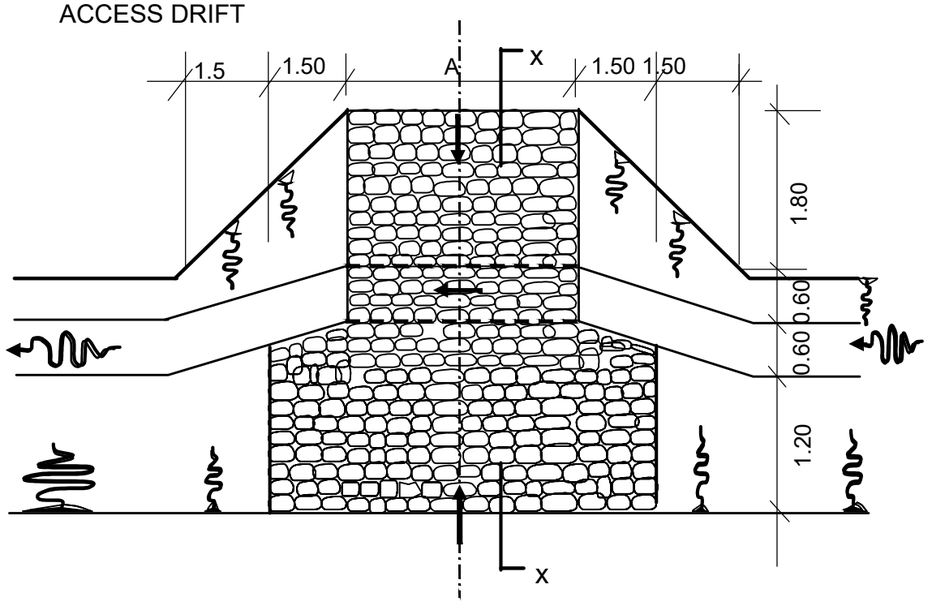
PLAN OF DRAIN WITH EROSION CHECKS

QUANTITIES TABLE

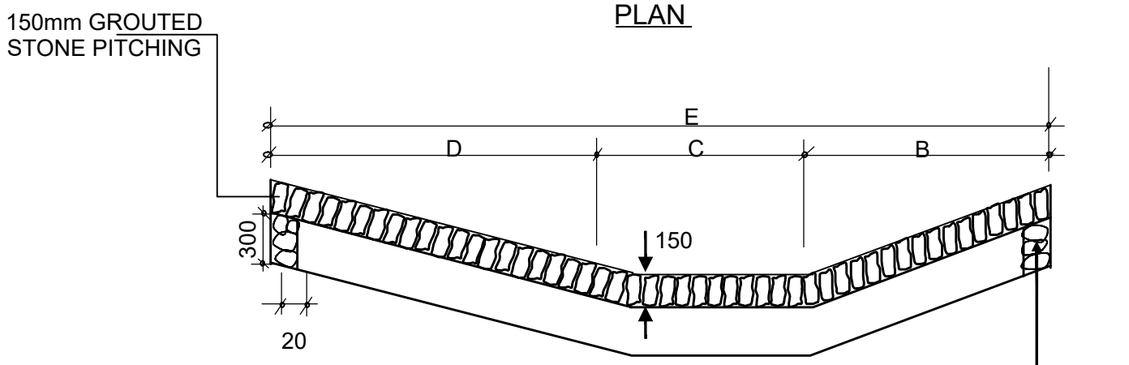
Cross-Section	Sizes in mm			Excav. (m3)	Stone masonry (m3)	Apron stone pitching (m3)
	Length	Width	Depth			
A	2400	200	550	0.22	0.25	0.18
B	2000	200	500	0.18	0.2	0.14

Drg No. : R2000/BMS/2023/GDR/004

ACCESS DRIFT



PLAN



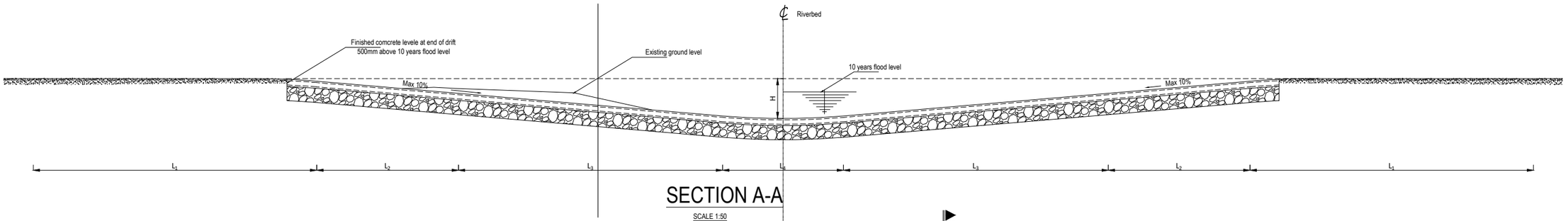
X-SECTION X-X

STONE MASONRY TOES
ON FOUR SIDES OF
STRUCTURE (200X300mm)

QUANTITIES TABLE

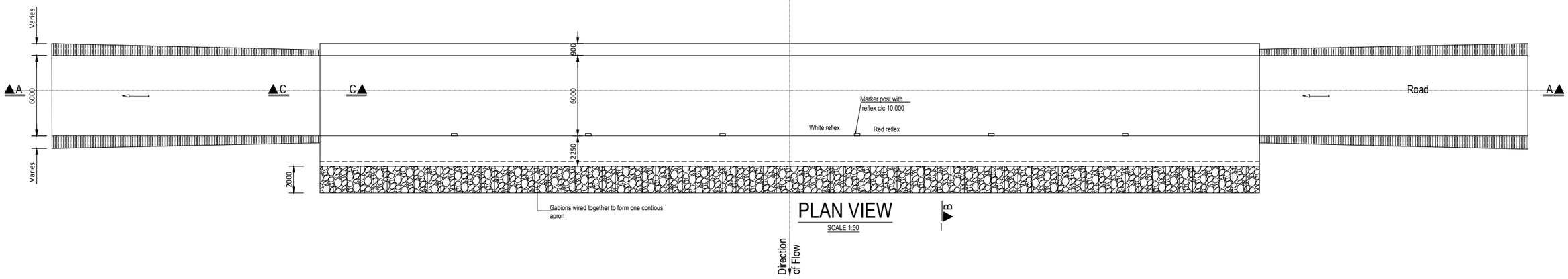
Cross section	DIMENSIONS					Excavation (m3)	Stone masonry (m3)	150mm Grouted stone pitching (m3)
	A	B	C	D	E			
A	4000	1800	600	1800	4200	7.50	1.30	21.75
	6000	1800	600	1800	4200	10.00	1.60	30.15
B	4000	1400	400	1800	3600	7.00	1.20	18.30
	6000	1400	400	1800	3600	9.00	1.50	25.50

Drg No. : R2000/BMS/2023/GDR/005



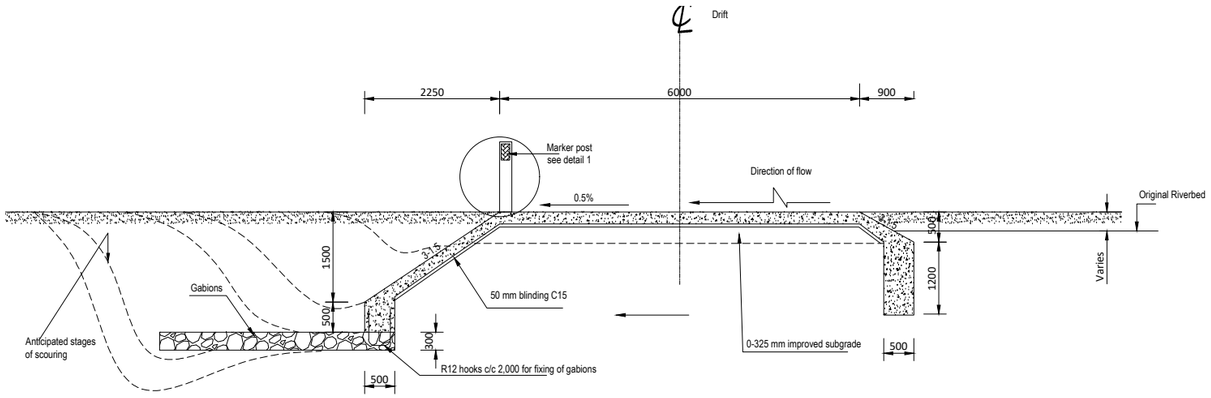
SECTION A-A

SCALE 1:50



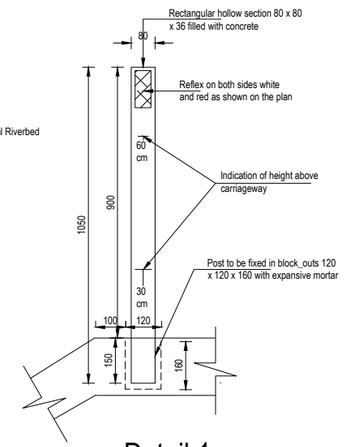
PLAN VIEW

SCALE 1:50



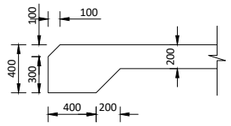
SECTION B-B

SCALE 1:50



Detail 1

SCALE 1:10



SECTION C-C

SCALE 1:25

NOTES

1. Subgrade

Improved subgrade under drift us required when;

Subgrade soil		Improved Subgrade
Class	CBR range	
S 1	2 - 5	325mm
S 2	5 - 10	200mm
S 3 or higher	7 - 13	0

Soils of class S4 (CBR range 10-19) should be used for Improvement.

2. Geometric Elements of Drift

$L_1 = 2L_3$

L_2= 0 for H≤3,750

L_2= 10 (H-3,750) for H < 3,750

L_3= 25,000 for H≥3,750

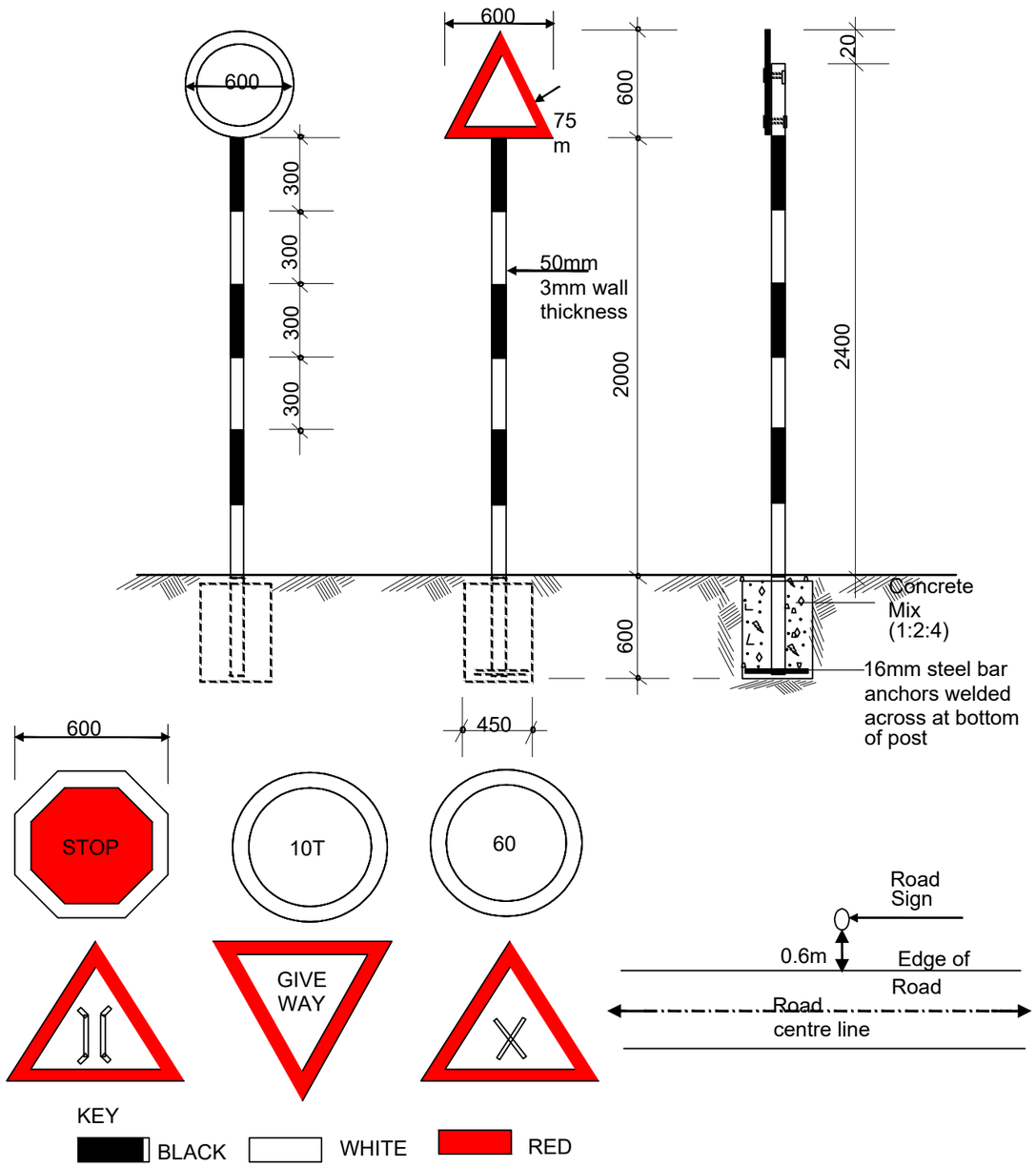
L_3= 12.9 √H for H<3,750

L_4= according to width of riverbed

Drg No. : R2000/BMS/2023/DR/006

TRAFFIC SIGNS

TRAFFIC SIGNS



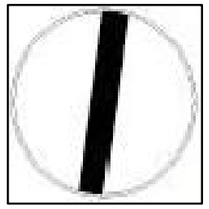
TEMPORARY SIGNS

"Men Working"

"Road narrows on Right Ahead"(sign may be reversed)

"Turn Left" (direction of arrow may be reversed)

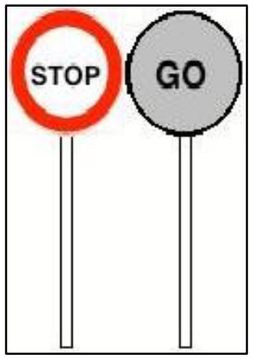
"Keep Left" (direction of Arrow may be reversed)



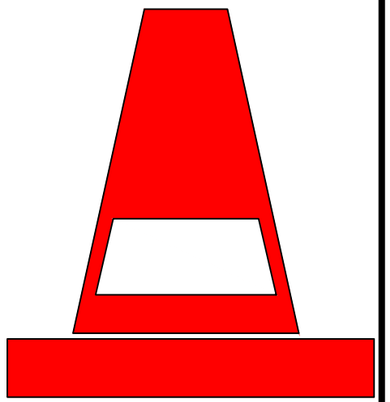
"Road Clear"

"Speed Limit"

"No Overtaking"



Reversible stop/go signs

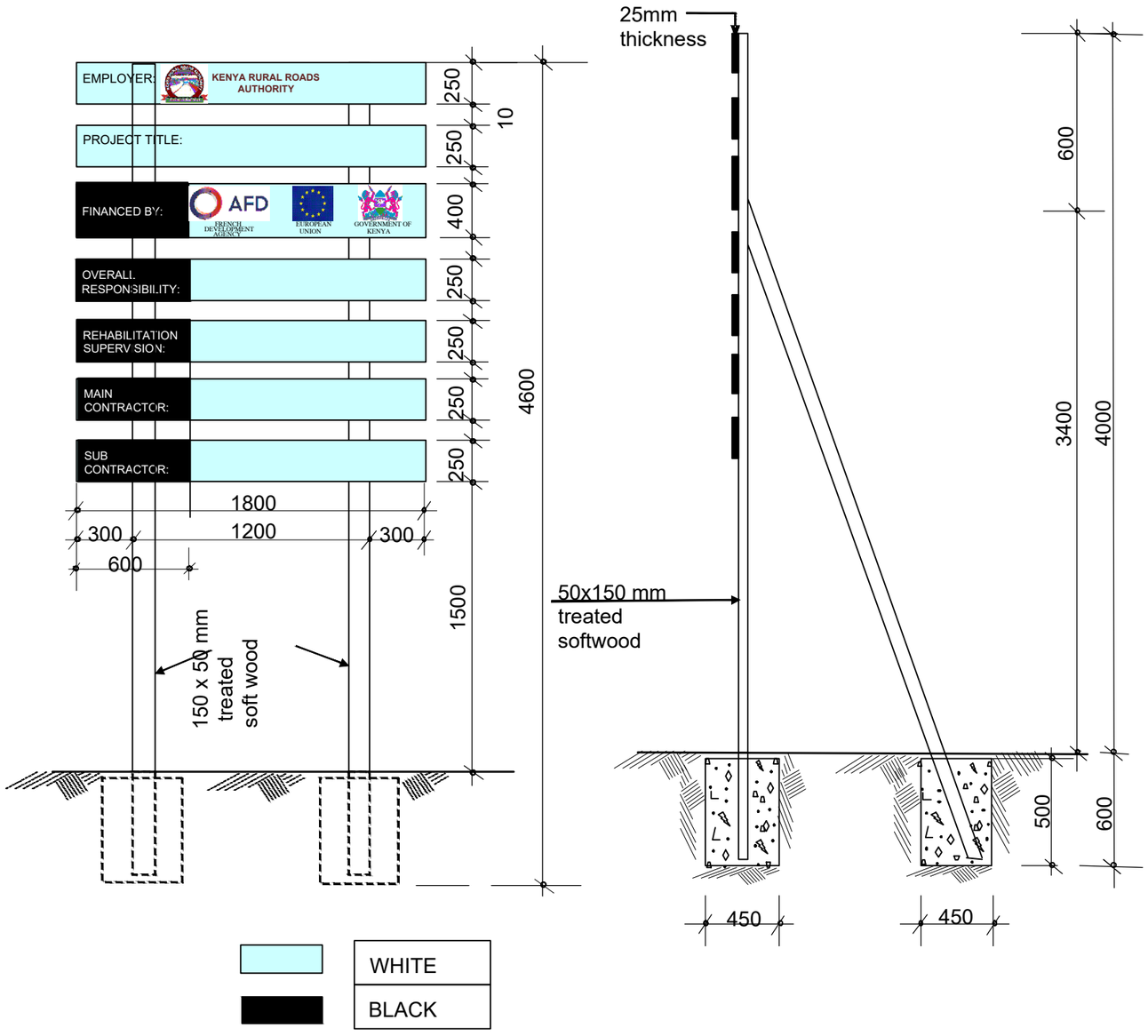


Traffic cones

1. The type of sign required and their location shall be as shown on the improvement plan and as directed by the Engineer
2. Sign plate to be 2 mm thick mild steel plate
3. Sign post to be 50 mm internal diameter steel pipe with wall thickness of 3 mm.
4. Sign plate to fixed to steel tube by 4 Nos M10 bolts and 2 Nos 50 mm f fixing clamps/brackets.
5. Sign paints shall be reflective.
6. The sign plate and post shall be treated by applying two coats of lead red oxide paint before applying priming and two finish coats of approved paints . Paints used shall have a hard, durable and glossy finish.

Drg No. : R2000/BMS/2023/TS/001

PUBLICITY SIGNBOARD



NOTES

1. The wording of the project signboard and the location to be installed to be as directed by the Engineer
2. Materials to be used for fabrication of signboard shall be pressure impregnated treated softwood timber sizes as indicated in the drawing
3. Wording boards to be nailed to the posts using nails.
4. Project board posts and struts to be embedded in concrete ratio 1:2:4

Drg No. : R2000/IBMS/2023/PSB/02