

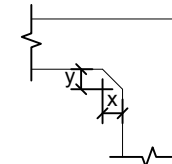
Typical cross section A-A Roadway

Haunch Detail

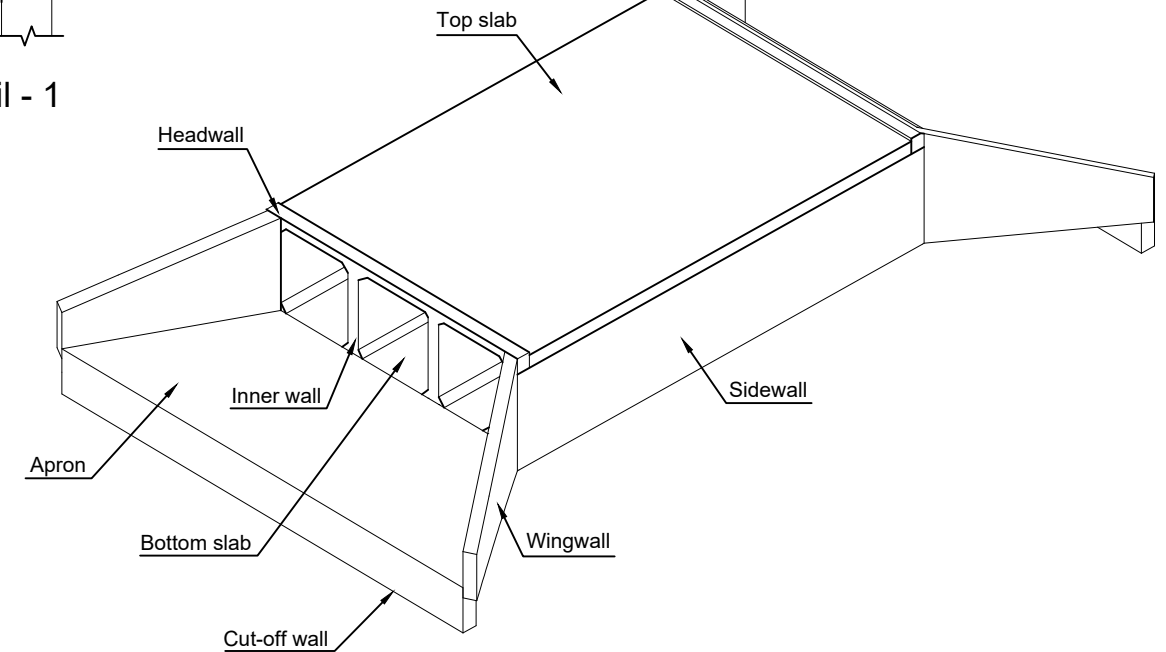
Box Span (m)	Haunch Size 'x' (mm)	Haunch Size 'y' (mm)
3x4.0	250	250
3x5.0	300	300

NOTES:

1. Dimensions: All dimensions are in millimeters.
2. Materials: Concrete Grade - C32/40
Blinding Concrete - C12/15
Reinforced ribbed Bars - Specified Characteristic value of upper yield strength $\geq 500 \text{ N/mm}^2$
3. Cover to reinforcement 60mm.
4. Backfilling to be done according to specifications.
5. Soft and loose patches in the bearing area are to be replaced by compacted granular fills with layers not exceeding 300mm.

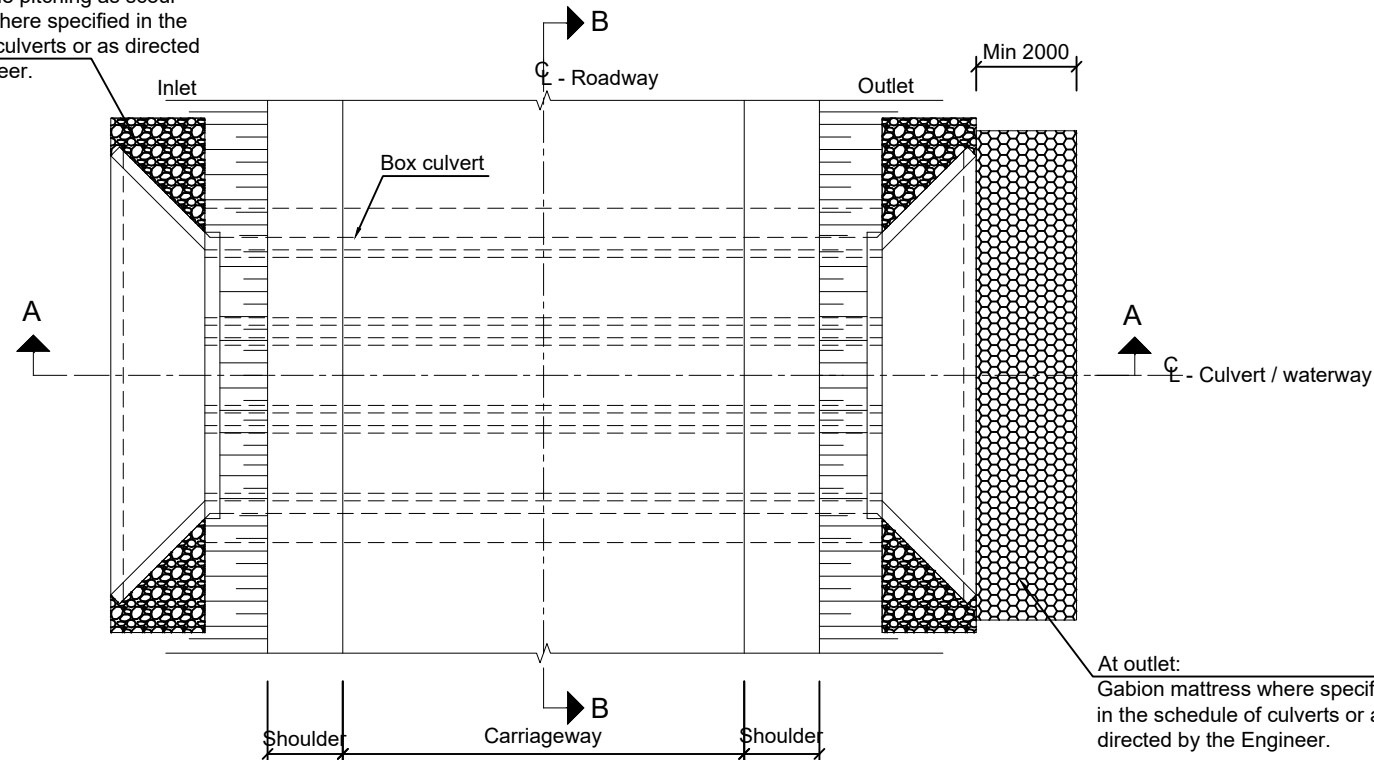


Detail - 1



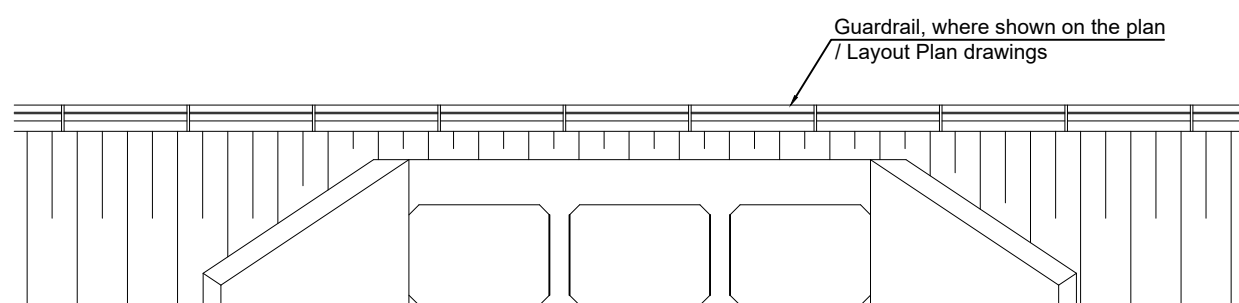
Isometric View

At inlet and/or at outlet:
Grouted stone pitching as scour protection, where specified in the schedule of culverts or as directed by the Engineer.

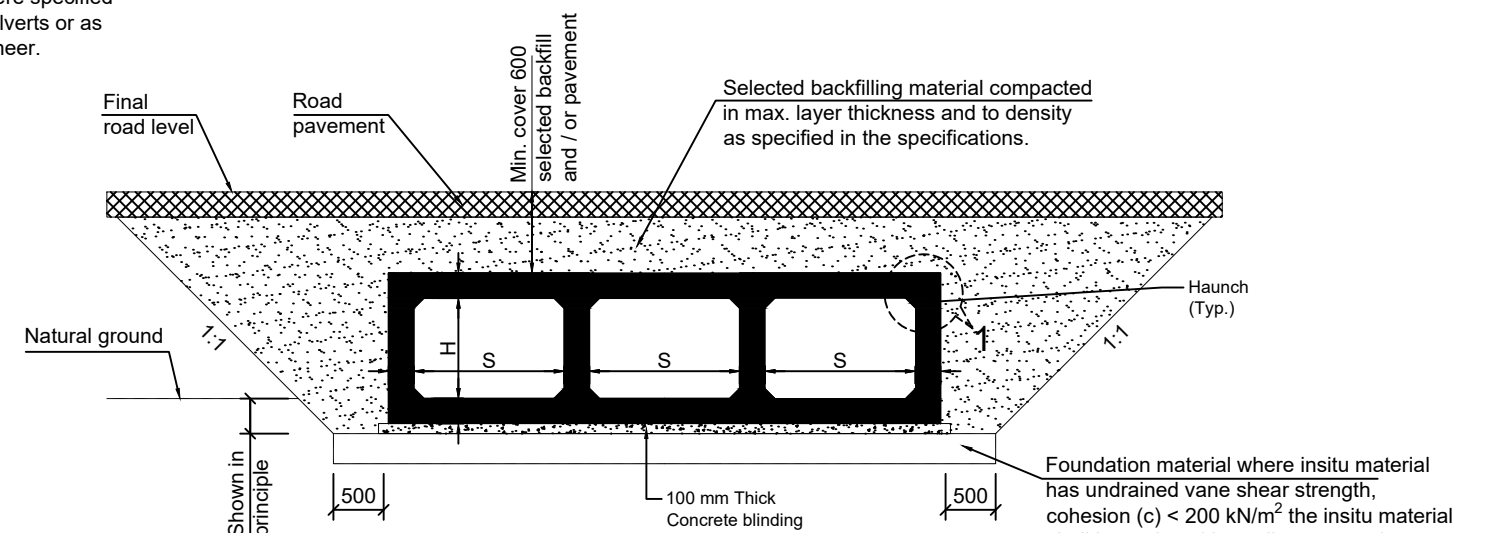


Plan
Orthogonal crossing


At outlet:
Gabion mattress where specified in the schedule of culverts or as directed by the Engineer.

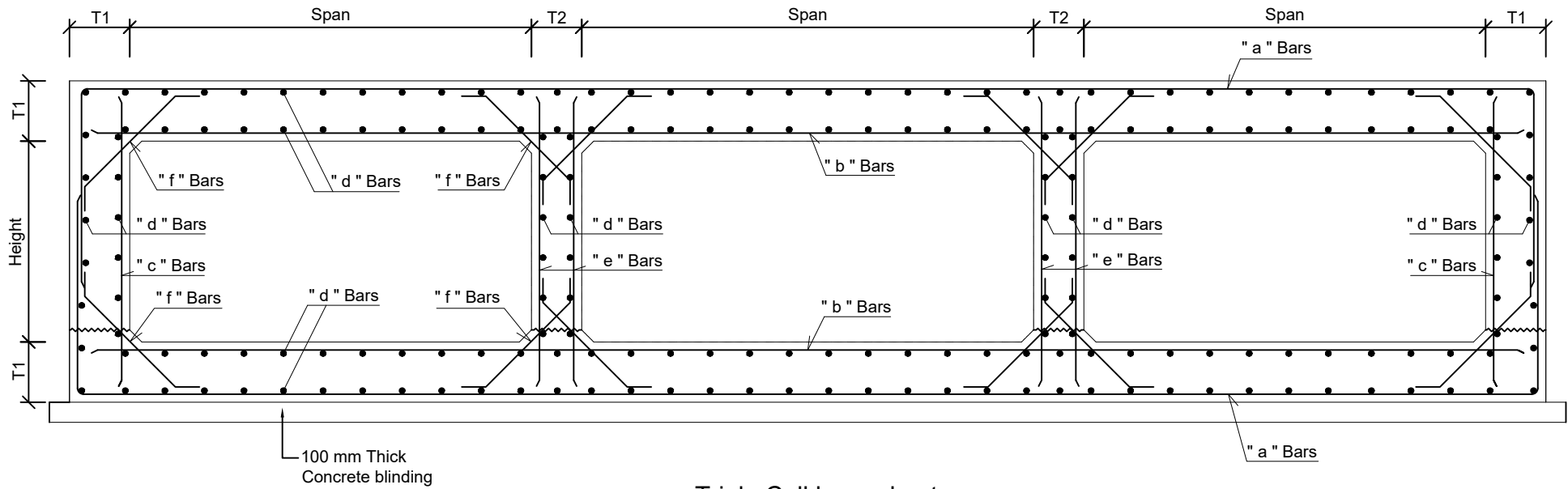


Elevation



Section B - B

NO.	AMENDMENTS	DATE	CLIENT:							
			 REPUBLIC OF KENYA MINISTRY OF ROADS AND TRANSPORT P.O. BOX 30260-00100 NAIROBI				STANDARD DRAINAGE DRAWINGS	TYPICAL GENERAL ARRANGEMENT DRAWING OF TRIPLE CELL RCC BOX STRUCTURES		
								DRAWING NO.: RDM/4/2/2/03		
								Date: Jan. 2024	Scale: N.T.S.	Sheet No.: 1/2



Triple Cell box culvert

Triple cell box culvert

Span, S		m	3.00		4.00	
Height, H		m	1.50	3.00	1.50	3.00
Haunch Size		m	0.20x0.20	0.20x0.20	0.25x0.25	0.25x0.25
Max fill over top		m	0.60-1.00	0.60-1.00	0.60-1.00	0.60-1.00
Concrete	T1	m	0.40	0.40	0.50	0.50
	Diaphragm wall T2	m	0.25	0.25	0.25	0.25
Reinforce- ment	" a " Bars	T Size, @ spacing	T16 @120	T16 @100	T20 @130	T20 @130
	" b " Bars	T Size, @ spacing	T16 @140	T16 @100	T20 @130	T20 @130
	" c " Bars	T Size, @ spacing	T12 @200	T12 @200	T12 @200	T12 @150
	" d " Bars	T Size, @ spacing	T12 @200	T12 @140	T12 @180	T12 @180
	" e " Bars	T Size, @ spacing	T12 @200	T12 @200	T12 @200	T12 @200
	" f " Bars	T Size, @ spacing	T12 @120	T12 @100	T12 @130	T12 @130
Quan.	Blinding concrete	m3/m. run	0.740	0.740	0.970	0.970
	Reinforced concrete	m3/m. run	7.560	7.560	11.750	11.750
	Reinforcement	kg/m. run	495	771	841	869

Minimum lap length (mm)

Bar size	Lap length
12	450
16	600
20	850
25	1300