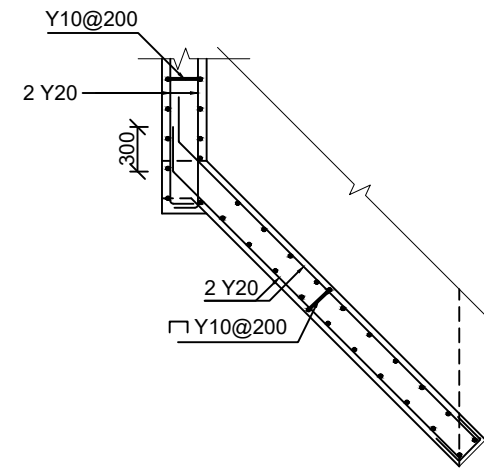
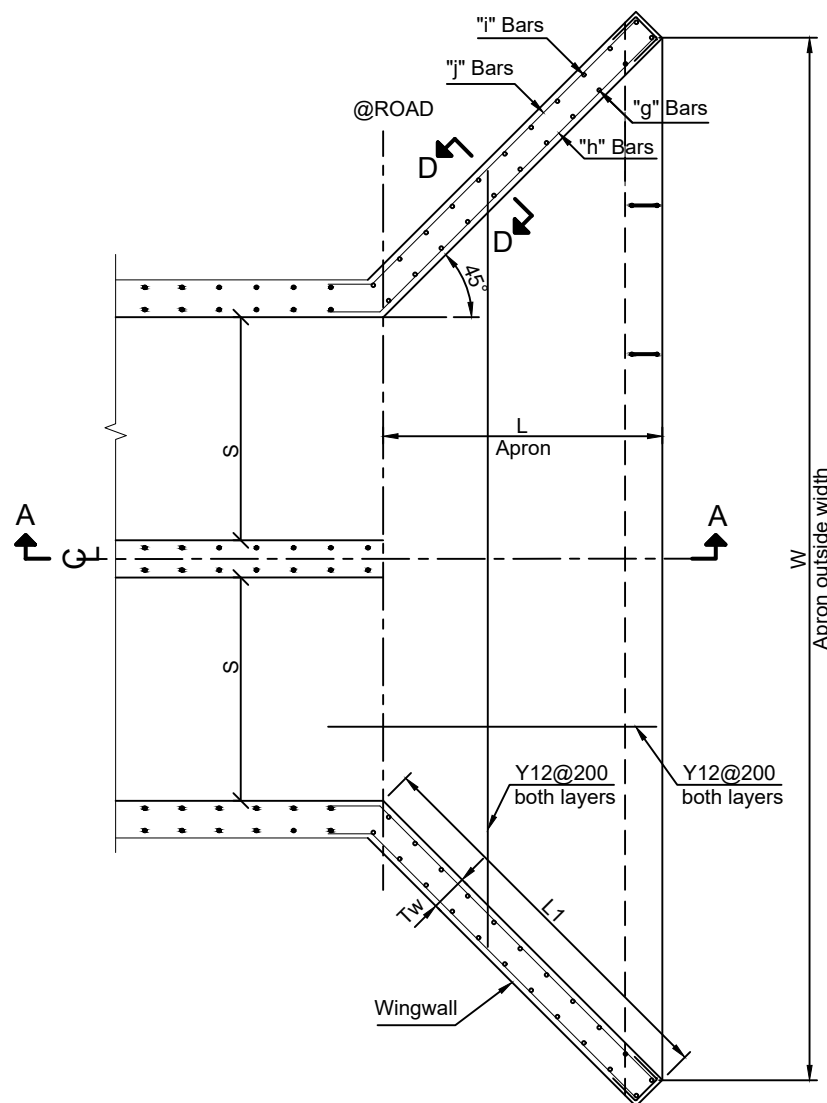


Elevation

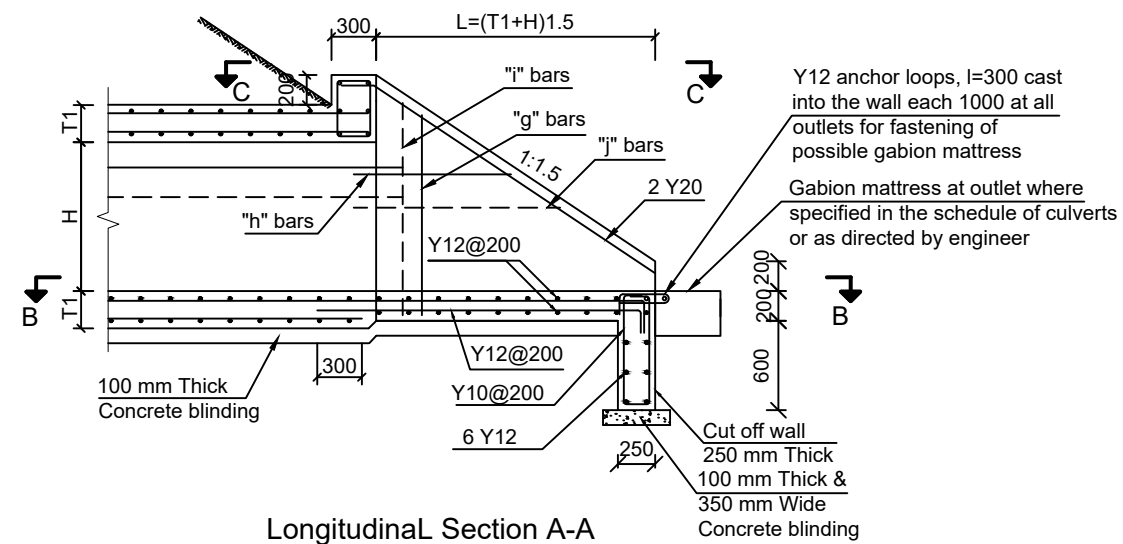


Plan Section C-C
Head beam and top of wingwall

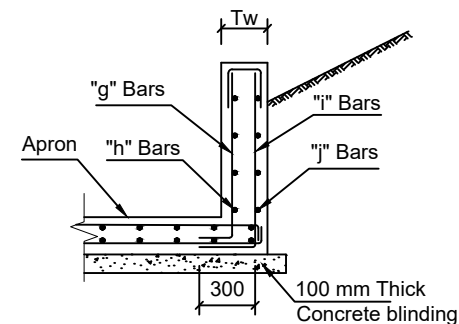


Plan Section B-B

ORTHOGONAL CROSSING SHOWN



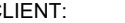
Longitudinal Section A-A



Section D-D

NOTES:

1. Dimensions: All dimensions are in millimeters.
2. Materials: Concrete Grade - C25/30
Blinding Concrete - C12/15
Reinforced ribbed Bars - Specified Characteristic value of minimum yield strength $\geq 500 \text{ N/mm}^2$
3. Cover to reinforcement
Earth face 75mm
Non earth face 40mm
4. External edges to be chamfered 20x20 mm.

NO.	AMENDMENTS	DATE	CLIENT:							
			 <div>REPUBLIC OF KENYA MINISTRY OF ROADS AND TRANSPORT P.O. BOX 30260-00100 NAIROBI</div>			STANDARD DRAINAGE DRAWINGS	TYPICAL DOUBLE CELL RCC BOX CULVERTS WINGWALL DETAILS			
								DRAWING NO.: RDM/4/1/2/05		
								Date: Jan. 2024	Scale: N.T.S.	Sheet No.: 1/2

DIMENSIONS & REINFORCEMENT
FOR ONE END STRUCTURE FOR ORTHOGONAL CROSSING
DIMENSIONS ARE IN M

APRON, CUTOFF WALL AND WING WALL DETAILS (DOUBLE CELL BOX)																						
SPAN, S	m	3.00			3.00			4.00			4.00			4.00			5.00			5.00		
BOX HEIGHT, H	m	1.50			3.00			1.50			3.00			4.00			1.50			3.00		
MAX FILL ON TOP SLAB	m	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00	1.00	2.00	3.00
BOX SLAB THICKNESS, T1	m	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.55	0.55	0.55	0.55	0.55	0.55
DIAPHRAMS WALL, T2	m	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
WING WALL THICKNESS, Tw	m	0.25	0.25	0.25	0.3	0.3	0.3	0.25	0.25	0.25	0.3	0.3	0.3	0.4	0.4	0.4	0.25	0.25	0.25	0.3	0.3	0.3
APRON LENGTH, L	m	2.85	2.85	2.85	5.10	5.10	5.10	3.00	3.00	3.00	5.25	5.25	5.25	6.75	6.75	6.75	3.08	3.08	3.08	5.33	5.33	5.33
APRON OUTSIDE WIDTH, W	m	11.95	11.95	11.95	16.45	16.45	16.45	12.25	12.25	12.25	16.75	16.75	16.75	19.75	19.75	19.75	12.40	12.40	12.40	16.90	16.90	16.90
WING WALL LENGTH, L1	m	4.03	4.03	4.03	7.21	7.21	7.21	4.24	4.24	4.24	7.42	7.42	7.42	9.55	9.55	9.55	4.35	4.35	4.35	7.53	7.53	7.53
"g" BARS		T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200
"h" BARS		T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200
"i" BARS		T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200	T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200	T16 @180	T16 @180	T16 @180	T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200
"j" BARS		T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200	T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200	T16 @180	T16 @180	T16 @180	T12 @200	T12 @200	T12 @200	T16 @200	T16 @200	T16 @200

SPAN, S	m	5.00			5.00		
BOX HEIGHT, H	m	4.00			5.00		
MAX FILL ON TOP SLAB	m	1.00	2.00	3.00	1.00	2.00	3.00
BOX SLAB THICKNESS, T1	m	0.55	0.55	0.55	0.55	0.55	0.55
DIAPHRAMS WALL, T2	m	0.25	0.25	0.25	0.25	0.25	0.25
WING WALL THICKNESS, Tw	m	0.4	0.4	0.4	0.5	0.5	0.5
APRON LENGTH, L	m	6.83	6.83	6.83	8.33	8.33	8.33
APRON OUTSIDE WIDTH, W	m	23.90	23.90	23.90	26.90	26.90	26.90
WING WALL LENGTH, L1	m	9.65	9.65	9.65	11.77	11.77	11.77
"g" BARS		T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200
"h" BARS		T12 @200	T12 @200	T12 @200	T12 @200	T12 @200	T12 @200
"i" BARS		T16 @180	T16 @180	T16 @180	T16 @150	T16 @150	T16 @150
"j" BARS		T16 @180	T16 @180	T16 @180	T16 @150	T16 @150	T16 @150