

Table 1 - STEEL REINFORCING BARS (For one slab only)

Bar	Width of slab W (m)	Cutting length, mm, for angles of skew, θ°										No. of Bars
		0	5	10	15	20	25	30	35	40	45	
20A1	6.8	6700	6720	6795	6930	7125	7385	7730	8170	8740	9470	6
	7.4	7300	7320	7405	7550	7760	8050	8420	8905	9520	10315	
	8.0	7900	7920	8015	8170	8400	8710	9115	9635	10305	11165	
	8.6	8500	8525	8625	8795	9040	9370	9810	10370	11090	12000	
	9.2	9100	9125	9230	9415	9675	10035	10500	11100	11870	13460	
	9.8	9700	9730	9840	10035	10315	10695	11195	11835	12655	13710	
	10.4	10300	10330	10450	10655	10955	11355	11885	12565	13435	14555	
	11.0	10900	10935	11060	11275	11590	12015	12575	13295	14220	15405	
11.6	11500	11535	11670	11895	12230	12680	13270	14030	15000	16250		
20A2	ALL WIDTHS	3000	3010	3045	3105	3190	3310	3465	3660	3915	4240	8

20A1 designates a straight bar of 20mm diameter, bar number 1
 A lap of 600mm has been allowed in lengths exceeding 12000mm
 Width of slab W = width measured square to road centreline

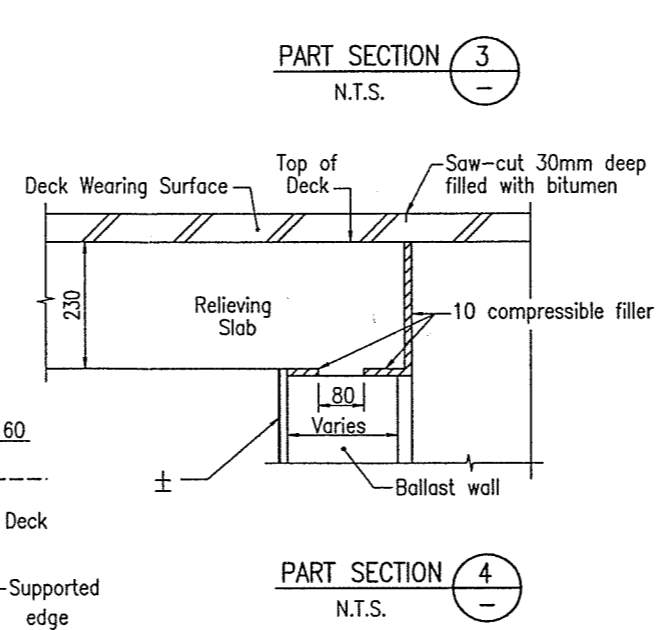
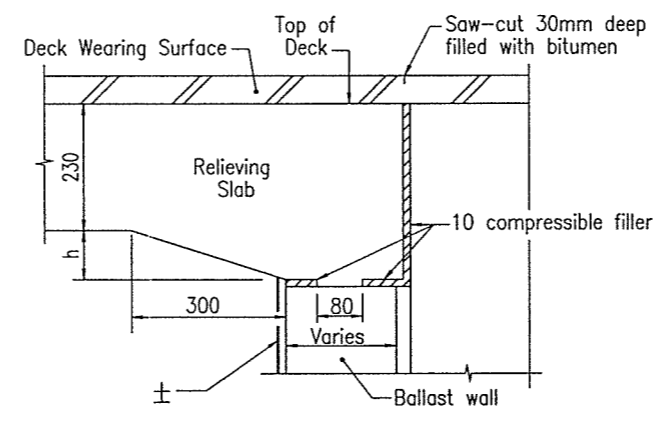
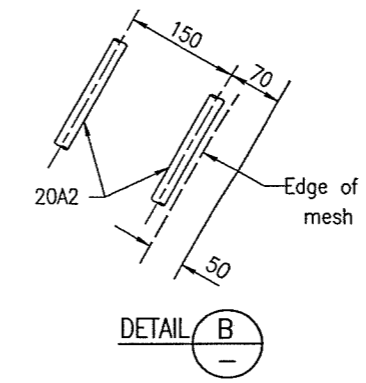
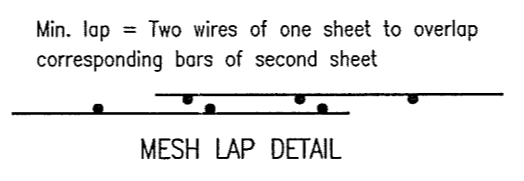
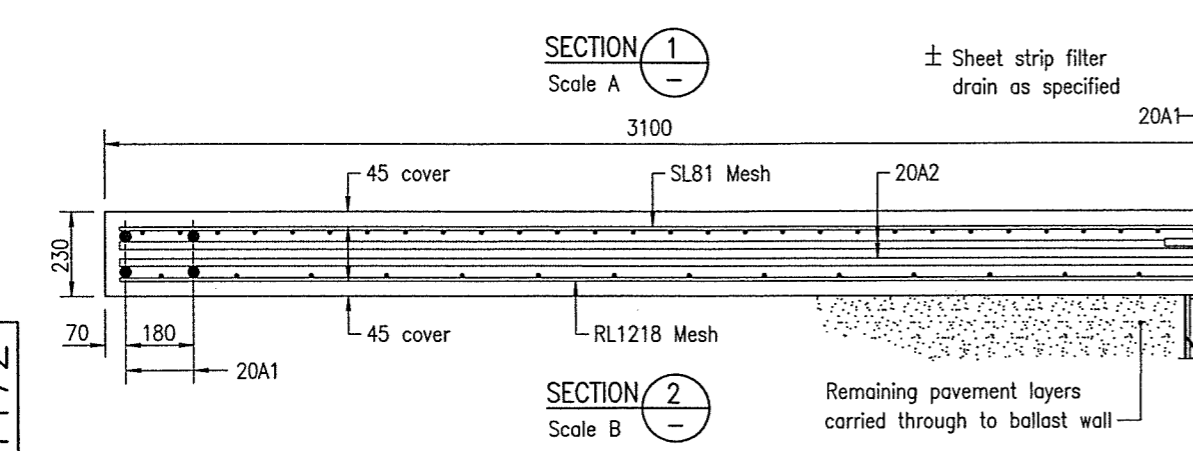
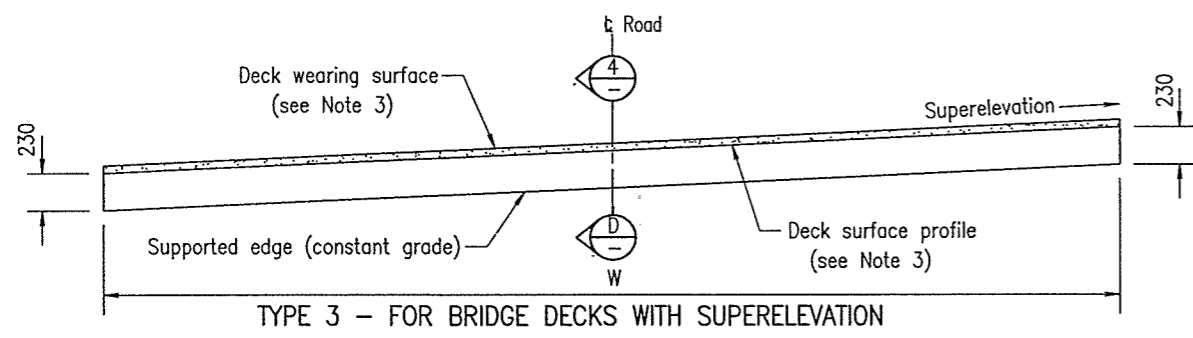
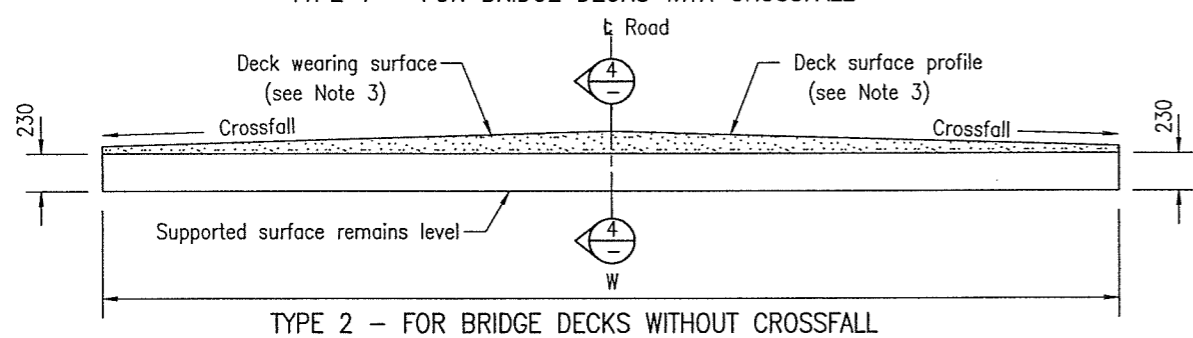
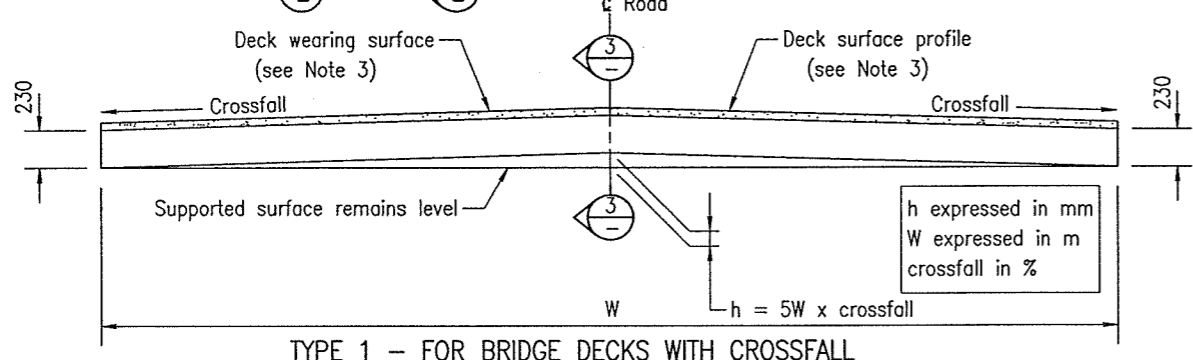


Table 2 - STEEL REINFORCING FABRIC (For one slab only)

Width of slab W (m)	Number of sheets for angles of skew, θ°									
	Top : F81 = Number listed					Bottom : F1218 = Number listed				
	0	5	10	15	20	25	30	35	40	45
6.8	1.5	1.5	2	2	2	2	2	2	2	2.5
7.4	2	2	2	2	2	2	2	2	2.5	2.5
8.0	2	2	2	2	2	2	2.5	2.5	2.5	2.5
8.6	2	2	2	2	2.5	2.5	2.5	2.5	2.5	3
9.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	3
9.8	2.5	2.5	2.5	2.5	2.5	2.5	3	3	3	3
10.4	2.5	2.5	2.5	2.5	3	3	3	3	3.5	3.5
11.0	2.5	2.5	3	3	3	3	3	3	3.5	3.5
11.6	3	3	3	3	3	3	3.5	3.5	3.5	4

Sheet size 6.0m x 2.4m Mass SL81 = 116kg, RL1218 = 173kg

Table 3 - VOLUME OF CONCRETE (For one slab only)

Width of slab W (m)	Volume, m³, for angles of skew, θ°									
	0	5	10	15	20	25	30	35	40	45
6.8	4.9	4.9	5.0	5.1	5.2	5.4	5.6	6.0	6.4	6.9
7.4	5.3	5.3	5.4	5.5	5.7	5.9	6.1	6.5	6.9	7.5
8.0	5.8	5.8	5.8	5.9	6.1	6.3	6.6	7.0	7.5	8.1
8.6	6.2	6.2	6.3	6.4	6.6	6.8	7.1	7.5	8.1	8.7
9.2	6.6	6.6	6.7	6.8	7.0	7.3	7.6	8.1	8.6	9.3
9.8	7.0	7.1	7.1	7.3	7.5	7.6	8.0	8.6	9.2	9.9
10.4	7.5	7.5	7.6	7.7	7.9	8.2	8.6	9.1	9.7	10.5
11.0	7.9	7.9	8.0	8.2	8.4	8.7	9.1	9.6	10.3	11.1
11.6	8.3	8.3	8.4	8.6	8.8	9.2	9.6	10.1	10.8	11.7

- NOTES:
- THE DESIGN is to be adopted for square bridges and those with an angle of skew not exceeding 45°. Where the angle of skew exceeds 45°, individual design of the slab will be necessary.
 - CONSTRUCTION JOINTS are not necessary, but may be used to permit traffic flow during construction. Continuity of reinforcement across the joint is essential.
 - THE CROSSFALL OR SUPERELEVATION of the slab is to be the same as that of the adjacent bridge. The slab is to finish flush with the top of the bridge deck and the deck wearing surface is to be carried through from the bridge over the slab (unless shown otherwise in the bridge drawings). Change of crossfall, if any, to that of the adjacent pavement should be made clear of the slab over a distance of 15 metres.
 - CONCRETE GRADE to be S32/20.
 - COVER TO REINFORCING STEEL to be 45mm unless shown otherwise. Exposure classification B1.
 - REINFORCING STEEL to be Australian made grade D500N to AS/NZS 4671. Mesh to AS/NZS 4671.
 - STEEL REINFORCEMENT to be read in conjunction with drawings No. 1043 and 1044.
 - RELIEVING SLAB to be constructed on (a) blinding concrete, or (b) well trimmed and compacted surface, or (c) a plastic sheet on a well trimmed surface.
 - DIMENSIONS are in millimetres unless shown otherwise.
- ASSOCIATED DOCUMENTS:
 Department of Main Roads Manual of Standard Drawings Roads
 Department of Main Roads Manual of Standard Specification Roads

RETAINING STRUCTURES	Queensland Government Department of Main Roads	
BRIDGE APPROACH RELIEVING SLAB	Size A3	Drawing No 1172
	Scales A 1:50 B 1:20	Date 8/02

1172