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सत्यमेव जयते

भारत सरकार – रेल मंत्रालय
अनुसंधान अभिकल्प एवं मानक संस्थान
लखनऊ - 226 011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226 011

No CBS/DRO **Dated 22.07.2014**

Executive Director Civil Engg (B & S) - II,
Railway Board,
Rail Bhawan, New Delhi -110001.

Sub: Data for planning of Road Over Bridges.

Problems are being faced by outside agencies in finalizing the General Arrangement Drawings for Road Over Bridges in absence of details of the railway arrangement being available. Data for planning of Road Over Bridges compiled for all spans available as on date is given below for ready reference please.

1. RDSO has issued the following drawings for Road Over Bridges:

Span	Drawing series	C/C of Bearings (mm)	Overall length of girder	Overall length (maximum with slab)	Arrangement (suitable for different road widths)	Height in mm from bottom of girder to top of road (at center of span)
18 m plate girder type	RDSO B-11756R	18000	18700	19000	18 m, 4 girders	1566
					18 m, 5 girders	1598
					18 m, 6 girders	1629
24 m plate girder type	RDSO B-11757R	24000	24700	25000	24 m, 4 girders	1977
					24 m, 5 girders	2008
					24 m, 6 girders	2039
30 m plate girder type	RDSO B-11755R	30000	30900	31200	30 m, 4 girders	2114
					30 m, 5 girders	2145
					30 m, 6 girders	2176
36 m plate girder type	RDSO B-11758R	36000	36900	37200	36 m, 4 girders	2508
					36 m, 5 girders	2539
					36 m, 6 girders	2570
36 m Bow String Type	RDSO B-10406	38000	39400	39400	36 m, 2 girders	1385
42 m Bow String Type	RDSO B-10407	44000	45400	45400	42 m, 2 girders	1385
48 m Bow String Type	RDSO B-10408	50000	51400	51400	48 m, 2 girders	1385

2. The plate girder drawings are suitable for different standard road width configurations specified by MORTH. The girder arrangements mentioned in table above change as per the road width requirements, as tabulated below:

S. No.	Width of Slab (mm)	Use	Carriage-way width (mm)	Footpath/Safety kerb	No of steel girders per span
1	9900	2 lane with no Footpath	7500	Safety Kerb both sides	4 @ 2.5 m c/c
2	10100	2 lane with footpath one side	7500	Safety Kerb both sides	4 @ 2.5 m c/c
3	11800	2 lane with Footpath both side	7500	Footpath both sides	5 @ 2.5 m c/c
4	12900	3 lane with no Footpath	10500	Safety Kerb both sides	5 @ 2.5 m c/c
5	13400	3 lane with no footpath one side	10500	Safety Kerb both sides	6 @ 2.5 m c/c
6	14800	3 lane with Footpath both side	10500	Footpath both sides	6 @ 2.5 m c/c

3. The BOW string girders are suitable for one road width configuration only i.e. 2 lane with Footpath both side. The slab width for all spans is 12000 mm, carriageway width for all spans is 7500 mm and there are footpaths on either side as per standard MORTH guidelines. The Bow String girders are at 12.6 m c/c and the overall width of all Bow string girders is 13.2 m.

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