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## TABLE OF REQUIRED BEAM SIZES, DESIGN DATA AND STEEL QUANTITIES

## LOAD RATING FACTORS

SPAN (ft)	ROLLED BEAM										OPTIONAL PLATE GIRDER			Diaphragm Spaces "N" (ea)	Stud Spacing "X" (in)	Elastomeric Bearing Type	Estimated Quantities Structural Steel (lbs)		STRENGTH I		SERVICE II	
	Beam Member	Dimension "Y" (in)	Deflection "A" (feet)		Plate Sizes (Inches)			Dimension "Y" (in)	Deflection "A" (feet)		Rolled Beam	① PL Girder	INV				OPR	INV	OPR			
			Slab DL	Total DL	Top Flange	Bott Flange	Web		Slab DL	Total DL												
																				1 x 12	1 1/4 x 12	1/2 x 17
30	W18 x 130	29.750	0.014	0.018	1 x 12	1 1/4 x 12	1/2 x 17	29.750	0.014	0.017	2	5	SB - 1	18,480	17,570	2.48	3.22	4.05	5.26			
	W21 x 122	32.125	0.011	0.015	3/4 x 12	1 1/4 x 12	1/2 x 19.5	32.000	0.012	0.016	2	6	SB - 1	18,330	17,690	2.89	3.75	4.24	5.51			
	W24 x 104	34.500	0.011	0.014	3/4 x 12	7/8 x 12	1/2 x 22.5	34.625	0.011	0.014	2	7	SB - 1	16,150	16,470	2.95	3.83	3.87	5.04			
	W27 x 146	37.875	0.006	0.008	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.007	0.009	2	4	SB - 2	21,500	19,560	3.85	4.99	5.61	7.29			
	W30 x 173	41.000	0.004	0.006	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.004	0.006	2	4	SB - 3	24,770	24,080	4.31	5.59	7.41	9.63			
	W33 x 118	43.375	0.006	0.008	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.006	0.008	2	6	SB - 1	18,650	18,620	4.01	5.20	5.22	6.79			
	W36 x 135	46.000	0.004	0.006	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.005	0.006	2	5	SB - 1	20,810	19,890	4.59	5.95	6.21	8.07			
W40 x 149	48.750	0.004	0.005	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.004	0.005	2	4	SB - 1	22,660	21,210	4.59	5.95	7.33	9.53				
35	W18 x 130	29.750	0.026	0.034	1 x 12	1 1/4 x 12	1/2 x 17	29.750	0.027	0.035	2	6	SB - 1	21,080	19,980	2.30	2.98	3.19	4.14			
	W21 x 122	32.125	0.022	0.028	3/4 x 12	1 1/4 x 12	1/2 x 19.5	32.000	0.024	0.030	2	7	SB - 1	20,790	20,000	2.54	3.29	3.36	4.37			
	W24 x 104	34.500	0.021	0.027	3/4 x 12	7/8 x 12	1/2 x 22.5	34.625	0.021	0.026	2	8	SB - 1	18,250	18,580	2.31	2.99	3.06	3.98			
	W27 x 146	37.875	0.011	0.015	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.013	0.017	2	5	SB - 2	24,400	22,080	3.43	4.45	4.49	5.84			
	W30 x 173	41.000	0.008	0.011	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.008	0.011	2	4	SB - 3	28,380	27,480	4.01	5.20	5.97	7.76			
	W33 x 118	43.375	0.011	0.014	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.011	0.014	2	7	SB - 1	21,030	20,940	3.19	4.13	4.18	5.44			
	W36 x 135	46.000	0.008	0.011	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.009	0.011	2	5	SB - 1	23,630	22,490	3.82	4.96	4.99	6.49			
W40 x 149	48.750	0.007	0.009	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.007	0.009	2	5	SB - 1	25,620	23,860	4.27	5.54	5.91	7.69				
40	W18 x 130	29.750	0.046	0.059	1 x 12	1 1/4 x 12	1/2 x 17	29.750	0.047	0.060	3	6	SB - 1	24,290	23,010	1.91	2.48	2.58	3.35			
	W21 x 122	32.125	0.038	0.049	3/4 x 12	1 1/4 x 12	1/2 x 19.5	32.000	0.041	0.053	2	6	SB - 1	23,400	22,470	2.02	2.62	2.71	3.52			
	W24 x 104	34.500	0.036	0.046	3/4 x 12	7/8 x 12	1/2 x 22.5	34.625	0.036	0.046	2	8	SB - 1	20,400	20,750	1.83	2.37	2.46	3.20			
	W27 x 146	37.875	0.020	0.027	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.023	0.030	2	6	SB - 2	27,300	24,590	2.79	3.62	3.69	4.79			
	W30 x 173	41.000	0.014	0.019	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.014	0.019	2	5	SB - 3	31,790	30,700	3.77	4.89	4.93	6.41			
	W33 x 118	43.375	0.019	0.025	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.019	0.025	2	9	SB - 1	23,350	23,200	2.59	3.35	3.42	4.45			
	W36 x 135	46.000	0.014	0.019	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.015	0.020	2	7	SB - 1	26,220	24,870	3.13	4.05	4.11	5.34			
W40 x 149	48.750	0.012	0.016	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.012	0.016	2	6	SB - 1	28,580	26,510	3.74	4.85	4.89	6.36				
45	W18 x 130	29.750	0.074	0.096	1 x 12	1 1/4 x 12	1/2 x 17	29.750	0.076	0.098	3	8	SB - 1	26,810	25,340	1.48	1.92	2.03	2.64			
	W21 x 122	32.125	0.062	0.080	3/4 x 12	1 1/4 x 12	1/2 x 19.5	32.000	0.067	0.085	2	8	SB - 1	25,750	24,680	1.57	2.04	2.15	2.79			
	W24 x 104	34.500	0.060	0.075	3/4 x 12	7/8 x 12	1/2 x 22.5	34.625	0.059	0.074	2	9	SB - 1	22,490	22,850	1.41	1.83	1.94	2.53			
	W27 x 146	37.875	0.033	0.044	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.038	0.049	2	9	SB - 2	30,080	26,990	2.24	2.91	2.99	3.89			
	W30 x 173	41.000	0.022	0.031	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.022	0.030	2	6	SB - 3	35,210	33,930	3.07	3.98	4.05	5.27			
	W33 x 118	43.375	0.031	0.040	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.031	0.040	2	10	SB - 1	25,730	25,510	2.07	2.68	2.77	3.60			
	W36 x 135	46.000	0.024	0.031	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.024	0.032	2	9	SB - 1	28,870	27,300	2.53	3.28	3.35	4.36			
W40 x 149	48.750	0.019	0.025	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.020	0.026	2	7	SB - 1	31,560	29,180	3.04	3.95	4.02	5.22				
50	W18 x 130	29.750	0.115	0.149	1 x 12	1 1/4 x 12	1/2 x 17	29.750	0.118	0.150	3	8	SB - 1	28,960	27,310	1.12	1.46	1.59	2.07			
	W21 x 122	32.125	0.096	0.123	3/4 x 12	1 1/4 x 12	1/2 x 19.5	32.000	0.104	0.131	2	8	SB - 1	28,270	27,050	1.21	1.57	1.70	2.21			
	W24 x 104	34.500	0.092	0.116	3/4 x 12	7/8 x 12	1/2 x 22.5	34.625	0.091	0.114	2	10.5	SB - 1	24,550	24,930	1.08	1.40	1.53	1.99			
	W27 x 146	37.875	0.050	0.067	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.058	0.075	2	9	SB - 2	33,070	29,590	1.81	2.34	2.44	3.17			
	W30 x 173	41.000	0.035	0.048	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.034	0.047	2	7	SB - 3	38,650	37,180	2.51	3.26	3.34	4.35			
	W33 x 118	43.375	0.048	0.062	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.047	0.061	2	12	SB - 1	28,060	27,780	1.65	2.14	2.25	2.92			
	W36 x 135	46.000	0.036	0.048	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.038	0.049	2	9	SB - 1	31,630	29,850	2.05	2.66	2.75	3.58			
W40 x 149	48.750	0.029	0.039	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.030	0.040	2	9	SB - 1	34,460	31,780	2.49	3.23	3.32	4.31				
55	W21 x 147	32.500	0.116	0.154	1 x 12	1 3/8 x 12	1/2 x 20	32.875	0.120	0.157	3	8	SB - 1	37,090	33,800	1.23	1.59	1.73	2.25			
	W24 x 131	35.000	0.105	0.137	3/4 x 12	1 x 12	1/2 x 22.5	34.750	0.127	0.161	3	9	SB - 1	33,540	29,110	1.04	1.35	1.48	1.92			
	W27 x 146	37.875	0.074	0.100	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.086	0.112	3	10	SB - 2	36,830	32,970	1.46	1.90	2.01	2.62			
	W30 x 173	41.000	0.051	0.071	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.051	0.069	3	8	SB - 3	42,950	41,280	2.09	2.71	2.81	3.65			
	W33 x 118	43.375	0.071	0.092	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.070	0.091	3	10	SB - 1	31,650	31,310	1.33	1.73	1.85	2.40			
	W36 x 135	46.000	0.054	0.071	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.056	0.073	3	11	SB - 1	35,380	33,380	1.69	2.19	2.30	2.99			
W40 x 149	48.750	0.043	0.058	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.045	0.060	3	10	SB - 1	38,550	35,560	2.08	2.69	2.80	3.64				
60	W21 x 166	33.000	0.140	0.190	1 x 12	1 5/8 x 12	1/2 x 20	33.125	0.159	0.208	3	8	SB - 1	44,670	38,950	1.18	1.53	1.68	2.18			
	W24 x 146	35.250	0.131	0.175	1 x 12	1 3/8 x 12	1/2 x 22.5	35.375	0.136	0.178	3	9	SB - 1	39,830	37,500	1.11	1.43	1.57	2.05			
	W27 x 146	37.875	0.106	0.142	3/4 x 14	1 x 14	1/2 x 25.5	37.750	0.123	0.160	3	10.5	SB - 2	39,780	35,530	1.18	1.53	1.66	2.16			
	W30 x 173	41.000	0.073	0.101	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.073	0.099	3	9	SB - 3	46,400	44,540	1.74	2.25	2.37	3.08			
	W33 x 118	43.375	0.101	0.132	3/4 x 12	3/4 x 12	1/2 x 31.5	43.500	0.100	0.130	3	12	SB - 1	33,960	33,560	1.06	1.37	1.51	1.96			
	W36 x 135	46.000	0.077	0.102	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.079	0.104	3	12	SB - 1	38,080	35,870	1.38	1.79	1.91	2.49			
W40 x 149	48.750	0.061	0.083	3/4 x 12	1 x 12	1/2 x 36.5	48.750	0.064	0.085	3	11	SB - 1	41,530	38,230	1.72	2.23	2.36	3.06				

① For Contractor's information only. Base structural steel pay weight on rolled beam weight.

### GENERAL NOTES:

- Designed according to AASHTO LRFD Bridge Design Specifications.
- Load rated using Load and Resistance Factor Rating according to the AASHTO Manual for Bridge Evaluation.
- See Steel Beam Span sheets for beam spacing, diaphragm locations, fabrication notes and references to values "A", "N", "X", and "Y".
- See Elastomeric Bearings, Steel Beam Spans (SBEB) for bearing details.
- Indicated beam/girder designs are applicable for spans with 0, 15 and 30 degree skews.
- See Bridge Layout for beam type.
- Change in beam type within a bridge, for example W18 to W24, is not supported by this standard.

The standard beam designs shown on these sheets are applicable for use only with the steel beam spans shown on standards SSB-24, SSB-24-15 and SSB-24-30.

HL93 LOADING

SHEET 1 OF 2

**Bridge  
Division  
Standard**

## STEEL BEAM STANDARD DESIGNS

### 24' ROADWAY

## SBSD-24

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## LOAD RATING FACTORS

SPAN (ft)	ROLLED BEAM								OPTIONAL PLATE GIRDER					Diaphragm Spaces "N" (ea)	Stud Spacing "X" (in)	Elastomeric Bearing Type	Estimated Quantities Structural Steel (lbs)		STRENGTH I		SERVICE II	
	Beam Member	Dimension "Y" (in)	Deflection "A" (feet)		Plate Sizes (Inches)			Dimension "Y" (in)	Deflection "A" (feet)		Rolled Beam	① PL Girder	INV				OPR	INV	OPR			
			Slab DL	Total DL	Top Flange	Bott Flange	Web		Slab DL	Total DL												
																				1/4 x 12	1 1/8 x 12	1/2 x 22.5
65	W24 x 176	35.750	0.147	0.202	1 1/4 x 12	1 1/8 x 12	1/2 x 22.5	35.875	0.155	0.208	3	9	SB - 2	50,610	45,580	1.18	1.53	1.67	2.18			
	W27 x 146	37.875	0.147	0.197	3/4 x 14	1 1/8 x 14	1/2 x 25.5	37.875	0.162	0.211	3	10.5	SB - 2	42,760	39,670	1.01	1.31	1.45	1.89			
	W30 x 173	41.000	0.101	0.140	3/4 x 15	1 x 15	1/2 x 28.5	40.750	0.128	0.168	3	10	SB - 3	49,850	41,160	1.22	1.58	1.71	2.22			
	W33 x 130	43.625	0.124	0.163	3/4 x 12	1 x 12	1/2 x 31.5	43.750	0.123	0.160	3	12	SB - 2	39,490	38,550	1.01	1.30	1.45	1.89			
	W36 x 135	46.000	0.107	0.141	3/4 x 12	7/8 x 12	1/2 x 34	46.125	0.110	0.144	3	12	SB - 2	40,830	38,400	1.12	1.46	1.59	2.07			
	W40 x 149	48.750	0.085	0.114	3/4 x 12	3/4 x 12	1/2 x 36.5	48.500	0.100	0.132	3	12	SB - 2	44,510	38,240	1.12	1.45	1.59	2.06			
70	W24 x 207	36.250	0.165	0.235	1 1/2 x 12	1 3/4 x 12	1/2 x 22.5	36.250	0.183	0.251	3	11	SB - 2	62,730	52,900	1.10	1.43	1.58	2.05			
	W27 x 178	38.250	0.161	0.222	3/4 x 14	1 1/8 x 14	1/2 x 25.5	38.125	0.200	0.264	3	11	SB - 2	54,650	45,680	1.11	1.44	1.59	2.06			
	W30 x 173	41.000	0.137	0.189	3/4 x 15	1 1/8 x 15	1/2 x 28.5	40.875	0.164	0.217	3	12	SB - 3	53,240	45,640	1.14	1.48	1.62	2.10			
	W33 x 152	44.000	0.138	0.186	3/4 x 12	1 1/4 x 12	1/2 x 31.5	44.000	0.152	0.199	3	12	SB - 2	48,300	43,960	1.07	1.38	1.53	1.99			
	W36 x 150	46.375	0.125	0.169	3/4 x 12	1 x 12	1/2 x 34	46.250	0.141	0.185	3	12	SB - 2	47,780	42,360	1.04	1.35	1.50	1.95			
	W40 x 149	48.750	0.115	0.155	3/4 x 12	7/8 x 12	1/2 x 36.5	48.625	0.128	0.168	3	12	SB - 2	47,540	42,190	1.05	1.36	1.51	1.96			
75	W27 x 194	38.625	0.190	0.267	1 x 14	1 1/2 x 14	1/2 x 26	39.000	0.212	0.287	3	12	SB - 2	63,010	54,190	1.06	1.37	1.53	1.99			
	W30 x 211	41.500	0.189	0.272	1 x 15	1 1/4 x 15	1/2 x 28.5	41.250	0.181	0.245	3	12	SB - 3	68,150	54,310	1.09	1.41	1.56	2.03			
	W33 x 169	44.375	0.160	0.220	3/4 x 12	1 3/8 x 12	1/2 x 31.5	44.125	0.193	0.254	3	12	SB - 2	56,490	48,240	1.04	1.35	1.51	1.96			
	W36 x 160	46.500	0.153	0.208	3/4 x 12	1 1/4 x 12	1/2 x 34	46.500	0.171	0.225	3	12	SB - 2	53,820	48,050	1.02	1.33	1.48	1.93			
	W40 x 167	49.125	0.128	0.177	3/4 x 12	1 1/4 x 12	1/2 x 36.5	49.000	0.146	0.195	3	12	SB - 2	55,960	49,400	1.21	1.57	1.72	2.24			
80	W27 x 235	39.125	0.200	0.294	1 1/4 x 14	1 3/4 x 14	1/2 x 26	39.500	0.228	0.318	4	12	SB - 2	80,890	65,970	1.16	1.51	1.67	2.17			
	W30 x 211	41.500	0.189	0.272	1 x 15	1 1/2 x 15	1/2 x 28.5	41.500	0.216	0.297	4	12	SB - 3	73,270	62,560	1.16	1.51	1.67	2.17			
	W33 x 201	44.125	0.168	0.240	1 x 12	1 1/2 x 12	1/2 x 31.5	44.500	0.212	0.286	4	12	SB - 3	71,240	57,090	1.05	1.36	1.52	1.98			
	W36 x 182	46.875	0.172	0.240	7/8 x 12	1 3/8 x 12	1/2 x 34	46.750	0.199	0.267	4	12	SB - 2	65,210	55,260	1.06	1.38	1.54	2.00			
	W40 x 167	49.125	0.167	0.231	3/4 x 12	1 1/4 x 12	1/2 x 36.5	49.000	0.190	0.254	4	12	SB - 2	60,460	53,430	1.03	1.33	1.51	1.96			
85	W30 x 235	41.750	0.213	0.313	1 x 15	1 3/4 x 15	1/2 x 28.5	41.750	0.258	0.358	4	12	SB - 3	85,700	70,470	1.17	1.51	1.69	2.19			
	W33 x 201	44.125	0.215	0.307	3/4 x 15	1 3/8 x 15	1/2 x 31.5	44.125	0.269	0.364	4	12	SB - 3	75,300	62,580	1.02	1.33	1.50	1.95			
	W36 x 210	47.250	0.188	0.271	1 x 12	1 5/8 x 12	1/2 x 34	47.125	0.223	0.304	4	12	SB - 2	78,420	63,500	1.11	1.43	1.60	2.08			
	W40 x 183	49.500	0.186	0.262	1 x 12	1 1/2 x 12	1/2 x 36.5	49.500	0.199	0.272	4	12	SB - 2	69,290	63,290	1.04	1.35	1.52	1.98			
90	W30 x 261	42.125	0.240	0.362	1 1/4 x 16	1 7/8 x 16	1/2 x 28.5	42.125	0.265	0.380	4	12	SB - 3	99,800	85,060	1.15	1.50	1.68	2.18			
	W33 x 221	44.375	0.244	0.355	1 1/4 x 16	1 5/8 x 16	1/2 x 31.5	44.875	0.232	0.332	4	12	SB - 3	86,570	83,220	1.00	1.30	1.48	1.93			
	W36 x 231	47.000	0.202	0.298	1 1/8 x 16	1 1/2 x 16	1/2 x 33.5	46.625	0.224	0.318	4	12	SB - 3	90,220	79,620	1.20	1.56	1.74	2.26			
	W40 x 199	49.125	0.211	0.301	7/8 x 16	1 1/4 x 16	1/2 x 36.5	49.125	0.229	0.318	4	12	SB - 3	78,750	71,770	1.03	1.33	1.51	1.97			
95	W33 x 263	45.000	0.247	0.374	1 1/4 x 16	1 3/4 x 16	1/2 x 31.5	45.000	0.279	0.401	4	12	SB - 3	107,000	90,060	1.17	1.52	1.69	2.20			
	W36 x 231	47.000	0.252	0.370	1 1/8 x 16	1 1/2 x 16	1/2 x 33.5	46.625	0.279	0.395	4	12	SB - 3	94,890	83,670	1.02	1.33	1.52	1.97			
	W40 x 215	49.500	0.235	0.341	1 x 16	1 3/8 x 16	1/2 x 36.5	49.375	0.257	0.362	4	12	SB - 3	88,860	80,540	1.04	1.34	1.53	1.99			
100	W33 x 291	45.375	0.273	0.424	1 1/2 x 16	2 x 16	1/2 x 31.5	45.500	0.293	0.434	4	12	SB - 3	123,510	105,330	1.18	1.53	1.73	2.24			
	W36 x 262	47.375	0.270	0.409	1 1/4 x 16	1 3/4 x 16	1/2 x 33.5	47.000	0.303	0.439	4	12	SB - 3	111,960	95,880	1.08	1.40	1.60	2.07			
	W40 x 249	49.875	0.245	0.368	1 x 16	1 1/2 x 16	1/2 x 36.5	49.500	0.305	0.431	4	12	SB - 3	106,810	87,140	1.03	1.34	1.53	1.99			
105	W36 x 302	47.875	0.280	0.439	1 1/2 x 16	2 1/8 x 16	1/2 x 33.5	47.625	0.307	0.460	5	12	SB - 3	135,140	115,720	1.19	1.54	1.74	2.27			
	W40 x 277	50.250	0.280	0.439	1 1/8 x 16	1 3/4 x 16	1/2 x 36.5	49.875	0.327	0.473	5	12	SB - 3	124,700	100,830	1.11	1.44	1.63	2.12			
110	W40 x 297	50.375	0.306	0.480	1 1/4 x 16	1 7/8 x 16	1/2 x 36.5	50.125	0.363	0.532	5	12	SB - 3	139,090	111,240	1.07	1.39	1.58	2.06			
115	W40 x 324	50.625	0.332	0.533	1 5/8 x 16	2 1/8 x 16	1/2 x 36.5	50.750	0.358	0.544	5	12	SB - 4	157,490	131,590	1.10	1.43	1.65	2.14			
120	W40 x 362	51.000	0.335	0.568	1 3/4 x 16	2 3/8 x 16	1/2 x 36.5	51.125	0.388	0.599	5	12	SB - 4	182,260	146,760	1.18	1.53	1.73	2.25			

① For Contractor's information only. Base structural steel pay weight on rolled beam weight.

HL93 LOADING SHEET 2 OF 2

**Bridge  
Division  
Standard**

### STEEL BEAM STANDARD DESIGNS 24' ROADWAY

## SBSD-24

FILE: SB-SBSD24-21.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				
	DIST	COUNTY		SHEET NO.