2 @ 16 x 6 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	9	8	8	34.00	10	1	12	33.50	9	1	12	33.50	6	1	12	34.50	6	2	6	34.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	138	32	6	2.51	643
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	9	1	12	34.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	138	32	6	2.89	668
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	10	1	12	34.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	172	0	6	2.99	727
	10	13	14	8	8	34.00	9	2	6	33.50	6	2	6	33.50	9	1	12	34.50	9	2	6	34.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	172	0	6	3.32	899
Moment Break	20	16	18	8	8	34.00	4	2	12	16.66	10	2	6	33.50	10	2	6	34.50	4	2	12	14.66	4	2	12	6.00	4	2	12	6.00	5	2	12	6.00	172	0	6	4.06	853
	30	25	26	8	8	34.00	4	2	12	16.66	9	2	6	33.50	9	2	6	34.50	4	2	12	15.66	4	2	12	6.00	4	2	12	6.00	4	4	6	6.00	172	0	6	5.87	734
	40	31	32	9	8	34.17	4	2	12	16.66	9	2	6	33.66	9	2	6	34.66	4	2	12	15.66	4	2	12	6.00	4	2	12	6.00	7	2	12	6.00	172	0	6	7.22	744
	50	36	37	10	8	34.33	4	2	12	16.66	10	2	6	33.83	10	2	6	34.83	4	2	12	15.66	4	2	12	6.00	4	2	12	6.00	8	2	12	6.00	172	0	6	8.36	878
	60	40	42	11	8	34.50	4	2	12	16.66	10	2	6	34.00	10	2	6	35.00	4	2	12	15.66	4	2	12	6.00	4	2	12	6.00	6	4	6	6.00	172	0	6	9.41	885

2 @ 16 x 7 REINFORCED CONCRETE BOX BRIDGE

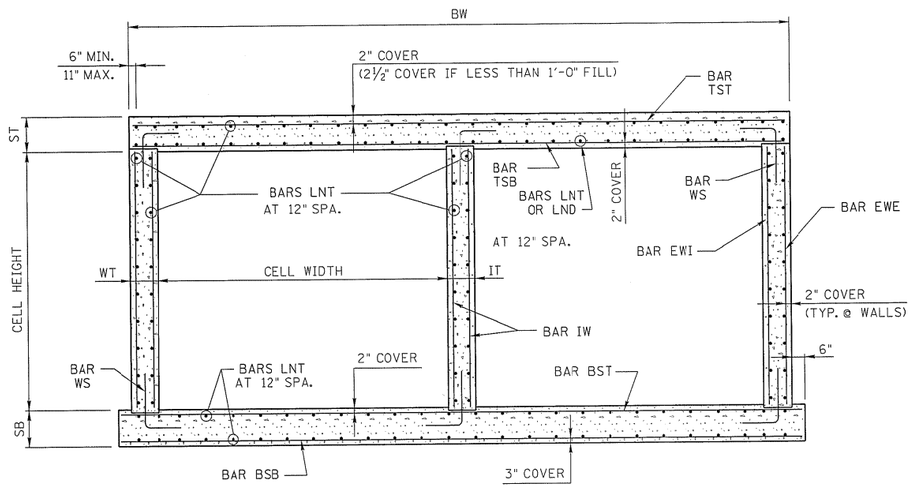
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	9	8	8	34.00	10	1	12	33.50	9	1	12	33.50	6	1	12	34.50	6	2	6	34.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	144	32	6	2.59	651
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	9	1	12	34.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	144	32	6	2.96	676
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	10	1	12	34.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	178	0	6	3.07	735
	10	13	15	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	11	1	12	34.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	178	0	6	3.50	847
Moment Break	20	16	18	8	8	34.00	4	2	12	16.66	10	2	6	33.50	10	2	6	34.50	4	2	12	14.66	4	2	12	7.00	5	2	12	7.00	5	2	12	7.00	178	0	6	4.14	867
	30	25	25	9	8	34.17	4	2	12	16.66	9	2	6	33.66	9	2	6	34.66	4	2	12	16.66	4	2	12	7.00	5	2	12	7.00	4	4	6	7.00	178	0	6	6.02	750
	40	31	32	10	8	34.33	4	2	12	16.66	9	2	6	33.83	9	2	6	34.83	4	2	12	16.66	4	2	12	7.00	4	2	12	7.00	7	2	12	7.00	178	0	6	7.37	757
	50	36	37	11	8	34.50	4	2	12	16.66	10	2	6	34.00	10	2	6	35.00	4	2	12	16.66	4	2	12	7.00	4	2	12	7.00	8	2	12	7.00	178	0	6	8.53	893
	60	40	42	12	8	34.67	4	2	12	16.66	10	2	6	34.16	10	2	6	35.16	4	2	12	16.66	4	2	12	7.00	4	2	12	7.00	6	4	6	7.00	178	0	6	9.59	900

2 @ 16 x 8 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	9	8	8	34.00	10	1	12	33.50	9	1	12	33.50	6	1	12	34.50	6	2	6	34.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	150	32	6	2.66	559
	3	12	11	8	8	34.00	7	2	6	33.50	9	1	12	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	150	32	6	3.04	708
	5	12	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	8	1	12	34.50	10	1	12	34.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	184	0	6	3.14	749
	10	13	15	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	11	1	12	34.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	184	0	6	3.57	856
Moment Break	20	16	18	9	8	34.17	4	2	12	16.66	10	2	6	33.66	10	2	6	34.66	4	2	12	16.66	4	2	12	8.00	4	4	6	8.00	5	2	12	8.00	184	0	6	4.28	884
	30	25	26	10	8	34.33	4	2	12	16.66	9	2	6	33.83	9	2	6	34.83	4	2	12	16.66	4	2	12	8.00	7	2	12	8.00	4	4	6	8.00	184	0	6	6.17	779
	40	31	33	12	8	34.67	4	2	12	16.66	9	2	6	34.16	9	2	6	35.16	4	2	12	16.66	4	2	12	8.00	4	4	6	8.00	7	2	12	8.00	184	0	6	7.73	783
	50	36	38	13	8	34.83	4	2	12	16.66	10	2	6	34.33	10	2	6	35.33	4	2	12	16.66	4	2	12	8.00	5	2	12	8.00	8	2	12	8.00	184	0	6	8.91	917
	60	40	42	14	8	35.00	4	2	12	16.66	10	2	6	34.50	10	2	6	35.50	4	2	12	16.66	4	2	12	8.00	4	2	12	8.00	6	4	6	8.00	188	0	6	9.87	922

Note: Maximum fill height shown in the table is measured from the bottom of the top slab. To obtain the total fill height from the flow line, add the height of the box.
Note: When top slab is the riding surface (No Fill), the concrete cover to the top mat of reinforcing shall be 2-1/2 inches.

The following bar information applies to all fill cases in the table above:
Bars LNT Size = 4 Spacing = 12 in.
Bars LND Size = 5 Spacing = 12 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.



BOX BRIDGE

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-15-4.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STANDARD REINFORCED CONCRETE BOX BRIDGE
INTERIOR SECTION
SPANS: 2 BARRELS AT 16'-0"
CLEAR HEIGHTS 6'-0" THRU 8'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-65

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

DESIGNED BY JOHN PHILLIPS DATE 1-00
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY JOHN PHILLIPS DATE 6-00

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