

CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
	2010		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 6 REINFORCED CONCRETE BOX BRIDGE

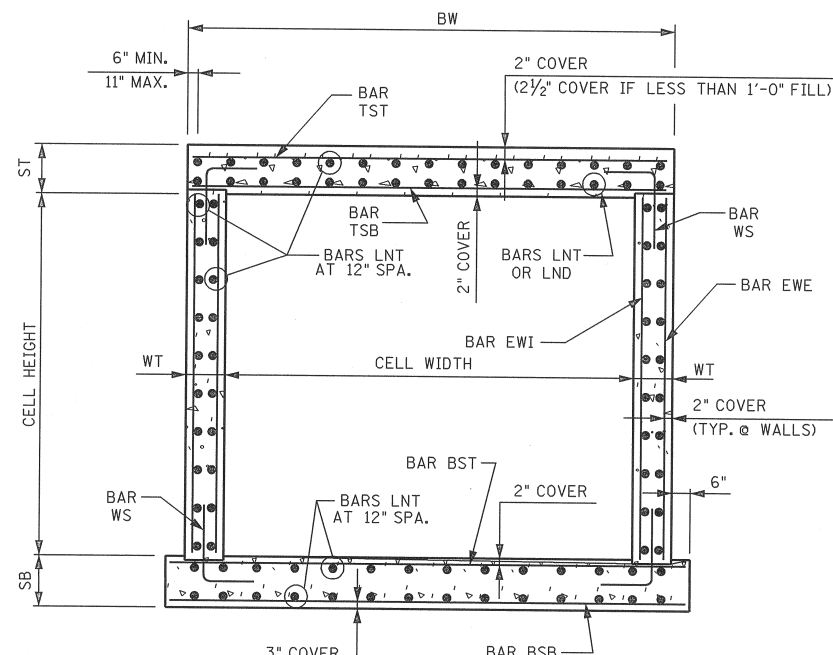
Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.					
No Fill	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	84	36	4	1.67	490
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	84	36	4	2.13	400
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	102	0	4	2.13	431
10	15	16	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	102	0	4	2.20	501
20	20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	102	0	4	2.74	539
30	29	29	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	6.00	5	2	12	6.00	102	0	4	3.85	501
40	36	36	9	19.50	4	1	12	19.00	10	2	6	19.00	10	2	6	20.00	4	1	12	20.00	4	2	12	6.00	5	2	12	6.00	102	0	4	4.78	504
50	41	42	10	19.67	4	1	12	19.17	10	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	6.00	5	2	12	6.00	102	0	4	5.54	507
60	46	46	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	6.00	5	2	12	6.00	102	0	4	6.18	510

1 @ 18 x 7 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.					
No Fill	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	7.00	5	2	12	7.00	88	36	4	1.72	496
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	7.00	5	2	12	7.00	88	36	4	2.18	406
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	7.00	5	2	12	7.00	106	0	4	2.18	437
10	15	16	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	7.00	5	2	12	7.00	106	0	4	2.24	507
20	20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	7.00	5	2	12	7.00	106	0	4	2.79	545
30	29	29	9	19.50	4	1	12	19.00	10	2	6	19.00	10	2	6	20.00	4	1	12	20.00	4	2	12	7.00	5	2	12	7.00	106	0	4	3.97	510
40	36	36	10	19.67	4	1	12	19.17	10	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	7.00	5	2	12	7.00	106	0	4	4.91	513
50	41	42	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	7.00	5	2	12	7.00	106	0	4	5.69	516
60	46	46	12	20.00	4	1	12	19.50	10	2	6	19.50	10	2	6	20.50	4	1	12	20.50	4	2	12	7.00	5	2	12	7.00	110	0	4	6.34	522

1 @ 18 x 8 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars BST				Bars BSB				Bars EWE				Bars EWI				Bars LNT	Bars LND	Bars WS	Concrete CY/LF	Reinf. Steel LB/LF
	ST in.	SB in.	WT in.	BW ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.	Size	No.	Spacing in.	Length ft.					
No Fill	11.5	11	8	19.33	4	1	12	18.83	10	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	8.00	5	2	12	8.00	92	36	4	1.77	503
3	15	15	8	19.33	4	1	12	18.83	8	2	6	18.83	8	2	6	19.83	4	1	12	19.83	4	2	12	8.00	5	2	12	8.00	92	36	4	2.23	412
5	15	15	8	19.33	4	1	12	18.83	9	2	6	18.83	9	2	6	19.83	4	1	12	19.83	4	2	12	8.00	5	2	12	8.00	110	0	4	2.23	443
10	15	16	8	19.33	4	1	12	18.83	10	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	8.00	6	2	12	8.00	110	0	4	2.29	520
20	20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	10	2	6	19.83	4	1	12	19.83	4	2	12	8.00	6	4	6	8.00	110	0	4	2.84	582
30	29	29	10	19.67	4	1	12	19.17	10	2	6	19.17	10	2	6	20.17	4	1	12	20.17	4	2	12	8.00	5	4	6	8.00	110	0	4	4.10	536
40	36	36	11	19.83	4	1	12	19.33	10	2	6	19.33	10	2	6	20.33	4	1	12	20.33	4	2	12	8.00	5	4	6	8.00	110	0	4	5.06	539
50	41	42	13	20.17	4	1	12	19.67	10	2	6	19.67	10	2	6	20.67	4	1	12	20.67	4	2	12	8.00	5	2	12	8.00	114	0	4	5.94	531
60	46	47	14	20.33	4	1	12	19.83	10	2	6	19.83	10	2	6	20.83	4	1	12	20.83	4	2	12	8.00	5	2	12	8.00	114	0	4	6.67	534



TYPICAL SECTION

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-17-5.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
STANDARD REINFORCED CONCRETE
BOX BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 18'-0"
CLEAR HEIGHTS 6'-0" THRU 8'-0"
0' THRU 60' FILL
2010

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 height of fill above the top slab is less than 1 foot, the top mat of reinforcing in the top slab shall be constructed with 2-1/2 inches of concrete cover.

The following bar information applies to all fill cases in the tables above:
Bars LNT Size = 4 Spacing = 12 in.
Bars LND Size = 5 Spacing = 6 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

DESIGNED BY	RLL/ALP	DATE	12-09
DRAWN BY	KEVIN MARTINKO	DATE	1-10
SUPERVISED BY	EPW/RLC	DATE	12-09
CHECKED BY	RLL/ALP	DATE	2-10

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES