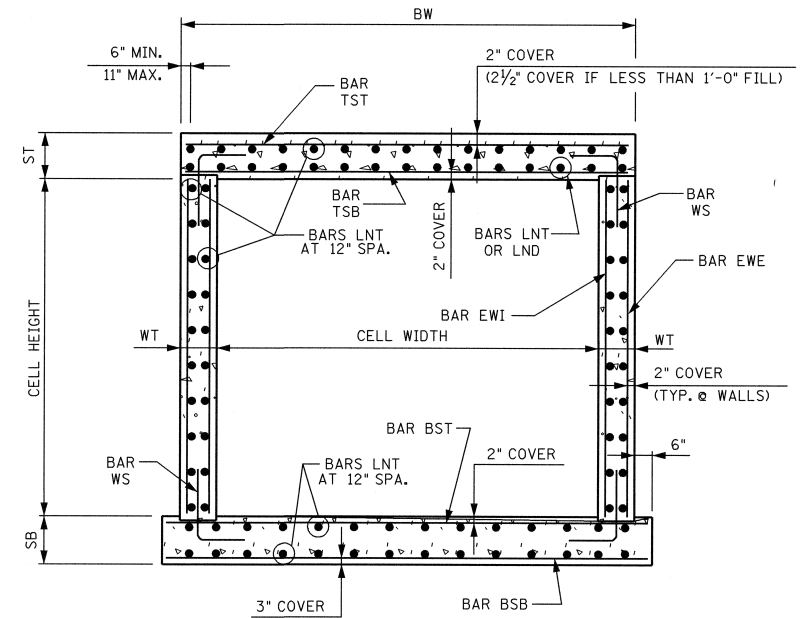


CONST. NO.			
PROJECT NO.	YEAR	SHEET NO.	
	2010		
REVISIONS			
NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 12 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.	No.	No.	No.						
No Fill	10.5	10	8	13.33	4	1	12	12.83	7	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	7.00	5	2	12	7.00	74	24	4	1.22	279
3	13	13	8	13.33	4	1	12	12.83	8	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	7.00	5	2	12	7.00	74	24	4	1.46	295
5	11	11	8	13.33	4	1	12	12.83	8	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	7.00	5	2	12	7.00	86	0	4	1.28	278
10	11	12	8	13.33	4	1	12	12.83	9	2	6	12.83	8	2	6	13.83	4	1	12	13.83	4	2	12	7.00	6	2	12	7.00	86	0	4	1.33	320
20	16	16	8	13.33	4	1	12	12.83	9	2	6	12.83	11	1	12	13.83	4	1	12	13.83	4	2	12	7.00	5	4	6	7.00	86	0	4	1.71	328
30	21	21	9	13.50	4	1	12	13.00	8	2	6	13.00	11	1	12	14.00	4	1	12	14.00	4	2	12	7.00	5	4	6	7.00	86	0	4	2.20	311
40	26	26	11	13.83	4	1	12	13.33	8	2	6	13.33	11	1	12	14.33	4	1	12	14.33	4	2	12	7.00	6	2	12	7.00	86	0	4	2.78	307
50	31	31	12	14.00	4	1	12	13.50	8	2	6	13.50	11	1	12	14.50	4	1	12	14.50	4	2	12	7.00	6	2	12	7.00	90	0	4	3.29	312
60	34	34	13	14.17	4	1	12	13.67	9	2	6	13.67	9	2	6	14.67	4	1	12	14.67	4	2	12	7.00	5	2	12	7.00	90	0	4	3.64	349

1 @ 12 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.	No.	No.	No.						
No Fill	10.5	10	8	13.33	4	1	12	12.83	7	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	8.00	5	2	12	8.00	78	24	4	1.27	285
3	13	13	8	13.33	4	1	12	12.83	8	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	8.00	5	2	12	8.00	78	24	4	1.51	301
5	11	11	8	13.33	4	1	12	12.83	8	2	6	12.83	8	2	6	13.83	4	1	12	13.83	4	2	12	8.00	6	2	12	8.00	90	0	4	1.33	308
10	11	12	8	13.33	4	1	12	12.83	9	2	6	12.83	8	2	6	13.83	4	1	12	13.83	4	2	12	8.00	6	2	12	8.00	90	0	4	1.38	327
20	16	16	9	13.50	4	1	12	13.00	9	2	6	13.00	11	1	12	14.00	4	1	12	14.00	4	2	12	8.00	6	4	6	8.00	90	0	4	1.83	353
30	21	21	10	13.67	4	1	12	13.17	8	2	6	13.17	11	1	12	14.17	4	1	12	14.17	4	2	12	8.00	6	4	6	8.00	90	0	4	2.33	336
40	26	26	12	14.00	4	1	12	13.50	8	2	6	13.50	11	1	12	14.50	4	1	12	14.50	4	2	12	8.00	7	2	12	8.00	94	0	4	2.92	327
50	31	31	13	14.17	4	1	12	13.67	8	2	6	13.67	11	1	12	14.67	4	1	12	14.67	4	2	12	8.00	6	4	6	8.00	94	0	4	3.45	345
60	34	34	14	14.33	4	1	12	13.83	9	2	6	13.83	9	2	6	14.83	4	1	12	14.83	4	2	12	8.00	5	4	6	8.00	94	0	4	3.80	374

1 @ 12 x 9 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.	No.	No.	No.						
No Fill	10.5	10	8	13.33	4	1	12	12.83	7	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	9.00	5	2	12	9.00	78	24	4	1.32	288
3	13	13	8	13.33	4	1	12	12.83	8	2	6	12.83	7	2	6	13.83	4	1	12	13.83	4	2	12	9.00	6	2	12	9.00	78	24	4	1.55	312
5	11	11	8	13.33	4	1	12	12.83	8	2	6	12.83	8	2	6	13.83	4	1	12	13.83	4	2	12	9.00	6	2	12	9.00	90	0	4	1.38	313
10	11	12	8	13.33	4	1	12	12.83	9	2	6	12.83	8	2	6	13.83	4	1	12	13.83	4	2	12	9.00	6	4	6	9.00	90	0	4	1.43	359
20	16	16	10	13.67	4	1	12	13.17	9	2	6	13.17	8	2	6	14.17	4	1	12	14.17	4	2	12	9.00	6	4	6	9.00	90	0	4	1.95	363
30	21	21	11	13.83	4	1	12	13.33	8	2	6	13.33	11	1	12	14.33	4	1	12	14.33	4	2	12	9.00	7	4	6	9.00	90	0	4	2.47	365
40	26	26	13	14.17	4	1	12	13.67	8	2	6	13.67	11	1	12	14.67	4	1	12	14.67	4	2	12	9.00	6	4	6	9.00	94	0	4	3.08	352
50	31	31	15	14.50	4	1	12	14.00	8	2	6	14.00	8	2	6	15.00	4	1	12	15.00	4	2	12	9.00	6	4	6	9.00	94	0	4	3.70	357
60	34	34	16	14.67	4	1	12	14.17	9	2	6	14.17	9	2	6	15.17	4	1	12	15.17	4	2	12	9.00	6	4	6	9.00	94	0	4	4.07	401



TYPICAL SECTION

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.

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 12'-0"
 CLEAR HEIGHTS 7'-0" THRU 9'-0"
 0' THRU 60' FILL
 2010

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