

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

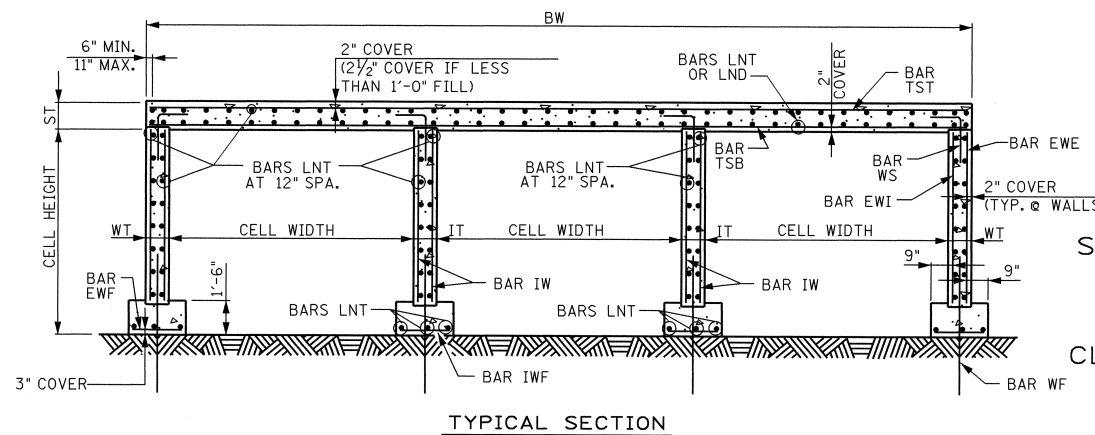
3 @ 18 x 12 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Bars IWF	Concrete CY/LF	Reinf. Steel LB/LF		
	ST in.	WT in.	IT in.	BW ft.	Size	No.	Spacing in.	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.			Length ft.	Length ft.
No Fill	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	10.50	6	2	12	10.50	4	4	12	10.50	148	108	4	4	1.67	1.67	3.15	966
3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	10.50	5	4	6	10.50	4	4	12	10.50	148	108	4	4	1.67	1.67	3.76	977
5	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	10.50	6	4	6	10.50	4	4	12	10.50	204	0	4	4	1.67	1.67	3.94	891
10	20	9	8	56.83	11	1	12	56.33	7	2	6	56.33	4	2	12	10.50	7	4	6	10.50	4	4	12	10.50	204	0	4	4	1.75	1.67	4.72	916
20	20	11	8	57.17	4	3	12	18.66	11	2	6	56.67	4	2	12	10.50	7	4	6	10.50	5	4	12	10.50	206	0	4	4	1.92	1.67	4.89	1043
30	29	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	10.50	7	4	6	10.50	6	4	12	10.50	206	0	4	4	2.08	1.67	6.66	951
40	36	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	10.50	6	4	6	10.50	7	4	12	10.50	206	0	4	4	2.25	1.67	8.08	954
50	41	16	8	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	10.50	6	4	6	10.50	8	4	12	10.50	208	0	4	4	2.33	1.67	9.07	983
60	46	18	9	58.50	4	3	12	18.66	10	2	6	58.00	4	2	12	10.50	7	2	12	10.50	6	8	6	10.50	208	0	4	4	2.50	1.75	10.22	982

3 @ 18 x 13 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Bars IWF	Concrete CY/LF	Reinf. Steel LB/LF		
	ST in.	WT in.	IT 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.			Length ft.	Length ft.
No Fill	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	11.50	5	4	6	11.50	5	4	12	11.50	156	108	4	4	1.67	1.67	3.22	1009
3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	156	108	4	4	1.67	1.67	3.84	1029
5	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	11.50	7	4	6	11.50	5	4	12	11.50	212	0	4	4	1.67	1.67	4.01	949
10	20	9	8	56.83	11	1	12	56.33	7	2	6	56.33	4	2	12	11.50	8	4	6	11.50	5	4	12	11.50	212	0	4	4	1.75	1.67	4.80	979
20	20	12	8	57.33	4	3	12	18.66	11	2	6	56.83	4	2	12	11.50	7	4	6	11.50	5	4	12	11.50	214	0	4	4	2.00	1.67	5.07	1064
30	29	14	8	57.67	4	3	12	18.66	10	2	6	57.17	4	2	12	11.50	7	4	6	11.50	6	4	12	11.50	214	0	4	4	2.17	1.67	6.86	973
40	36	16	8	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	11.50	7	4	6	11.50	7	4	12	11.50	216	0	4	4	2.33	1.67	8.30	1003
50	41	18	9	58.50	4	3	12	18.66	10	2	6	58.00	4	2	12	11.50	6	4	6	11.50	6	4	12	11.50	216	0	4	4	2.50	1.75	9.46	958
60	46	20	9	58.83	4	3	12	18.66	10	2	6	58.33	4	2	12	11.50	6	4	6	11.50	6	8	6	11.50	216	0	4	4	2.67	1.75	10.57	1030

3 @ 18 x 14 REINFORCED CONCRETE SLAB BRIDGE																																
Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bars EWI				Bars IW		Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	Bars IWF	Concrete CY/LF	Reinf. Steel LB/LF		
	ST in.	WT in.	IT 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.			Length ft.	Length ft.
No Fill	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	12.50	6	4	6	12.50	5	4	12	12.50	164	108	4	4	1.67	1.67	3.30	1047
3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	12.50	7	4	6	12.50	5	4	12	12.50	164	108	4	4	1.67	1.67	3.91	1073
5	16	9	8	56.83	11	1	12	56.33	7	2	6	56.33	4	2	12	12.50	7	4	6	12.50	5	4	12	12.50	220	0	4	4	1.75	1.67	4.18	970
10	20	10	8	57.00	11	1	12	56.50	7	2	6	56.50	4	2	12	12.50	8	4	6	12.50	5	4	12	12.50	222	0	4	4	1.83	1.67	4.98	1004
20	20	13	8	57.50	4	3	12	18.66	11	2	6	57.00	4	2	12	12.50	7	4	6	12.50	5	4	12	12.50	222	0	4	4	2.08	1.67	5.27	1085
30	29	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	12.50	8	4	6	12.50	6	4	12	12.50	222	0	4	4	2.25	1.67	7.07	1027
40	36	17	8	58.17	4	3	12	18.66	10	2	6	57.67	4	2	12	12.50	8	4	6	12.50	7	4	12	12.50	224	0	4	4	2.42	1.67	8.53	1059
50	41	19	9	58.67	4	3	12	18.66	10	2	6	58.17	4	2	12	12.50	7	4	6	12.50	6	4	12	12.50	224	0	4	4	2.58	1.75	9.70	1005
60	46	21	10	59.17	4	3	12	18.66	10	2	6	58.67	4	2	12	12.50	7	4	6	12.50	5	8	6	12.50	224	0	4	4	2.75	1.83	10.90	1039

Note: Maximum fill height 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 = 4 Spacing = 6 in.  
 Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.  
 Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.  
 Bars IWF Size = 4 No. = 2 Spacing = 12 in.  
 Bars EWF Size = 4 No. = 2 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  
 SLAB BRIDGE**  
 INTERIOR SECTION  
 SPANS: 3 BARRELS AT 18'-0"  
 CLEAR HEIGHTS 12'-0" THRU 14'-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