1 @ 6 x 3 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	8.5	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	17	12	2	2	1.67	0.51	111
3	10	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	17	12	2	2	1.67	0.54	111
5	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.50	101
10	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.50	101
20	8	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.50	107
30	11	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.56	107
40	14	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.63	107
50	16	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.68	107
60	17	8	7.33	4	1	12	6.83	7	2	6	6.83	4	2	12	1.50	5	2	12	1.50	24	0	2	2	1.67	0.70	115

1 @ 6 x 4 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	8.5	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	21	12	2	2	1.67	0.56	117
3	10	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	21	12	2	2	1.67	0.59	117
5	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.55	107
10	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.55	107
20	8	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.55	113
30	11	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.61	113
40	14	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.68	113
50	16	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.73	113
60	17	8	7.33	4	1	12	6.83	7	2	6	6.83	4	2	12	2.50	5	2	12	2.50	28	0	2	2	1.67	0.75	121

1 @ 6 x 5 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	8.5	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	25	12	2	2	1.67	0.61	123
3	10	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	25	12	2	2	1.67	0.64	123
5	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.59	113
10	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.59	113
20	8	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.59	119
30	11	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.66	119
40	14	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.73	119
50	16	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.78	119
60	17	8	7.33	4	1	12	6.83	7	2	6	6.83	4	2	12	3.50	5	2	12	3.50	32	0	2	2	1.67	0.80	127

1 @ 6 x 6 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	8.5	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	4.50	5	2	12	4.50	29	12	2	2	1.67	0.66	129
3	10	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	4.50	5	2	12	4.50	29	12	2	2	1.67	0.69	129
5	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	4.50	5	2	12	4.50	36	0	2	2	1.67	0.64	119
10	8	8	7.33	4	1	12	6.83	5	2	6	6.83	4	2	12	4.50	5	2	12	4.50	36	0	2	2	1.67	0.64	119
20	8	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	4.50	5	2	12	4.50	36	0	2	2	1.67	0.64	126
30	11	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	4.50	5	2	12	4.50	36	0	2	2	1.67	0.71	126
40	14	8	7.33	4	1	12	6.83	6	2	6	6.83	4	2	12	4.50	6	2	12	4.50	36	0	2	2	1.67	0.78	130
50	16	9	7.50	4	1	12	7.00	6	2	6	7.00	4	1	12	4.50	5	2	12	4.50	36	0	2	2	1.75	0.87	123
60	17	10	7.67	4	1	12	7.17	7	2	6	7.17	4	2	12	4.50	5	2	12	4.50	36	0	2	2	1.83	0.94	135

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 = 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 EWF Size = 4 No. = 2 Spacing = 12 in.

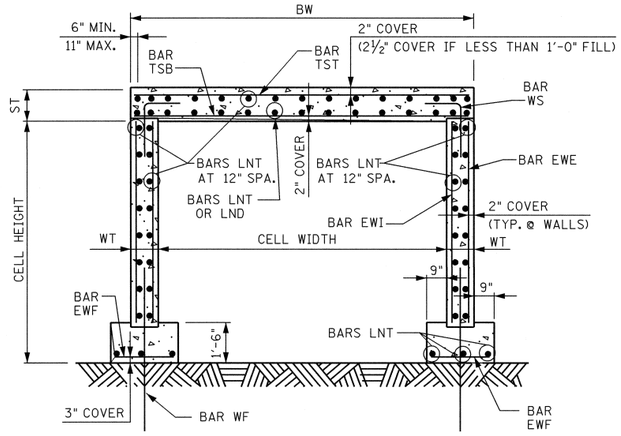
DESIGNED BY	RLL/ALP	DATE	12-09
DRAWN BY	KEVIN MARTINKO	DATE	1-10
SUPERVISED BY	EPW/RLC	DATE	12-09
CHECKED BY	RLL/ALP	DATE	2-10

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



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 SLAB BRIDGE
INTERIOR SECTION
SPANS: 1 BARREL AT 6'-0"
CLEAR HEIGHTS 3'-0" THRU 6'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-111

Bridge Standards\Tables\1-6-10\Reinforced Concrete Slab Bridges\1-6-10\Off Hole Culvert Files 1-6-10\6' Span\STD-17-111_1barrel_slab6'.dgn
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