

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

3 @ 10 x 7 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	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 Fill	9.5	8	8	32.66	6	2	6	32.16	8	1	12	32.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	84	30	4	4	1.66	1.94	420
3	9	8	8	32.66	9	1	12	32.16	6	2	6	32.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	84	30	4	4	1.66	1.93	444
5	8	8	8	32.66	6	2	6	32.16	7	1	12	32.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	116	0	4	4	1.66	1.83	390
10	10	8	8	32.66	8	1	12	32.16	7	1	12	32.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	116	0	4	4	1.66	2.03	379
20	11	8	8	32.66	4	3	12	10.66	11	1	12	32.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	116	0	4	4	1.66	2.13	420
30	17	8	8	32.66	4	3	12	10.66	7	2	6	32.16	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	116	0	4	4	1.66	2.73	385
40	21	9	8	32.83	4	3	12	10.66	7	2	6	32.33	4	2	12	5.50	4	2	12	5.50	5	4	12	5.50	116	0	4	4	1.75	3.19	390
50	24	10	8	33.00	4	3	12	10.66	10	1	12	32.50	4	2	12	5.50	4	2	12	5.50	4	8	6	5.50	118	0	4	4	1.83	3.55	406
60	26	11	8	33.16	4	3	12	10.66	11	1	12	33.66	4	2	12	5.50	4	2	12	5.50	4	8	6	5.50	118	0	4	4	1.91	3.81	440

3 @ 10 x 8 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	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 Fill	9.5	8	8	32.67	6	2	6	32.16	8	1	12	32.16	4	2	12	6.50	4	2	12	6.50	4	4	12	6.50	92	30	4	4	1.66	2.04	432
3	9	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	12	6.50	4	2	12	6.50	4	4	12	6.50	92	30	4	4	1.66	2.03	455
5	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	4	2	12	6.50	4	2	12	6.50	4	4	12	6.50	124	0	4	4	1.66	1.93	402
10	10	8	8	32.67	8	1	12	32.16	7	1	12	32.16	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	124	0	4	4	1.66	2.13	396
20	11	8	8	32.67	4	3	12	10.66	11	1	12	32.16	4	2	12	6.50	4	4	12	6.50	4	4	12	6.50	124	0	4	4	1.66	2.23	440
30	17	9	8	32.83	4	3	12	10.66	7	2	6	32.33	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	124	0	4	4	1.75	2.89	398
40	21	10	8	33.00	4	3	12	10.66	7	2	6	32.50	4	2	12	6.50	4	4	6	6.50	5	4	12	6.50	126	0	4	4	1.83	3.36	413
50	24	11	8	33.16	4	3	12	10.66	10	1	12	32.66	4	2	12	6.50	5	2	12	6.50	4	8	6	6.50	126	0	4	4	1.91	3.72	425
60	26	12	8	33.33	4	3	12	10.66	11	1	12	32.83	4	2	12	6.50	5	2	12	6.50	4	8	6	6.50	126	0	4	4	2	3.99	459

3 @ 10 x 9 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	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 Fill	9.5	8	8	32.67	6	2	6	32.17	8	1	12	32.17	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	100	30	4	4	1.67	2.17	442
3	9	8	8	32.67	9	1	12	32.17	6	2	6	32.17	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	100	30	4	4	1.67	2.12	466
5	8	8	8	32.67	6	2	6	32.17	7	1	12	32.17	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	132	0	4	4	1.67	2.02	418
10	10	8	8	32.67	8	1	12	32.17	7	1	12	32.17	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	132	0	4	4	1.67	2.23	407
20	11	8	8	32.67	4	3	12	10.67	11	1	12	32.17	4	2	12	7.50	7	2	12	7.50	4	4	12	7.50	132	0	4	4	1.67	2.33	462
30	17	10	8	33.00	4	3	12	10.67	7	2	6	32.50	4	2	12	7.50	7	2	12	7.50	4	4	12	7.50	134	0	4	4	1.83	3.06	427
40	21	11	8	33.17	4	3	12	10.67	7	2	6	32.67	4	2	12	7.50	7	2	12	7.50	5	4	12	7.50	134	0	4	4	1.92	3.53	439
50	24	13	8	33.50	4	3	12	10.67	10	1	12	33.00	4	2	12	7.50	4	4	6	7.50	4	8	6	7.50	134	0	4	4	2.08	3.98	446
60	26	14	8	33.67	4	3	12	10.67	11	1	12	33.17	4	2	12	7.50	4	4	6	7.50	4	8	6	7.50	134	0	4	4	2.17	4.25	480

3 @ 10 x 10 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions				Bars TST				Bars TSB				Bars EWE				Bar EWI				Bar IW				Bars LNT	Bars LND	Bars WS	Bars WF	Bars EWF	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 Fill	9.5	8	8	32.67	6	2	6	32.17	8	1	12	32.17	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	108	30	4	4	1.67	2.27	452
3	9	8	8	32.67	9	1	12	32.17	6	2	6	32.17	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	108	30	4	4	1.67	2.22	478
5	8	8	8	32.67	6	2	6	32.17	7	1	12	32.17	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	140	0	4	4	1.67	2.12	430
10	10	8	8	32.67	8	1	12	32.17	7	1	12	32.17	4	2	12	8.50	7	2	12	8.50	4	4	12	8.50	140	0	4	4	1.67	2.32	436
20	11	9	8	32.83	4	3	12	10.67	11	1	12	32.33	4	2	12	8.50	5	4	6	8.50	4	4	12	8.50	140	0	4	4	1.75	2.49	478
30	17	11	8	33.17	4	3	12	10.67	7	2	6	32.67	4	2	12	8.50	7	2	12	8.50	4	4	12	8.50	142	0	4	4	1.92	3.24	441
40	21	13	8	33.50	4	3	12	10.67	7	2	6	33.00	4	2	12	8.50	7	2	12	8.50	5	4	12	8.50	142	0	4	4	2.08	3.80	455
50	24	14	8	33.67	4	3	12	10.67	10	1	12	33.17	4	2	12	8.50	7	2	12	8.50	4	8	6	8.50	142	0	4	4	2.17	4.18	473
60	26	16	8	34.00	4	3	12	10.67	11	1	12	33.50	4	2	12	8.50	7	2	12	8.50	6	4	12	8.50	144	0	4	4	2.33	4.54	515

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 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.
 Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
 Bars WF Size = 4 No. = 2 Spacing = 12 in. Length = 1.66 ft.
 Bars EWF Size = 4 No. = 2 Spacing = 12 in.

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
SLAB BRIDGE
INTERIOR SECTION
SPANS: 3 BARREL AT 10'-0"
CLEAR HEIGHTS 7'-0" THRU 10'-0"
0' THRU 60' FILL
2000

CORRECT *Edward P. Wasserman*
ENGINEER OF STRUCTURES

DESIGNED BY LEFEVRE & HARPER DATE 1-00
 DRAWN BY KEVIN MARTINKO DATE 3-00
 SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
 CHECKED BY LEFEVRE & CROSSLIN DATE 6-00