CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 12 x 10 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT 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 IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	114	36	4	4	1.67	1.67	2.36	586
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	114	36	4	4	1.67	1.67	2.66	518
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	8.50	6	2	12	8.50	4	4	12	8.50	152	0	4	4	1.67	1.67	2.54	554
	10	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	8.50	7	2	12	8.50	4	4	12	8.50	152	0	4	4	1.67	1.67	2.78	563
Moment Break	20	16	9	8	38.83	4	3	12	12.66	9	2	6	38.33	4	2	12	8.50	6	4	6	8.50	4	4	12	8.50	152	0	4	4	1.75	1.67	2.97	595
	30	21	11	8	39.17	4	3	12	12.66	8	2	6	38.67	4	2	12	8.50	6	4	6	8.50	5	4	12	8.50	154	0	4	4	1.92	1.67	3.71	555
	40	26	13	8	39.50	4	3	12	12.66	8	2	6	39.00	4	2	12	8.50	6	4	6	8.50	5	4	12	8.50	154	0	4	4	2.08	1.67	4.47	557
	50	31	14	8	39.67	4	3	12	12.66	8	2	6	39.17	4	2	12	8.50	6	4	6	8.50	4	8	6	8.50	154	0	4	4	2.17	1.67	5.16	568
	60	34	15	8	39.83	4	3	12	12.66	9	2	6	39.33	4	2	12	8.50	7	2	12	8.50	7	4	12	8.50	154	0	4	4	2.25	1.67	5.60	634

3 @ 12 x 11 REINFORCED CONCRETE SLAB BRIDGE

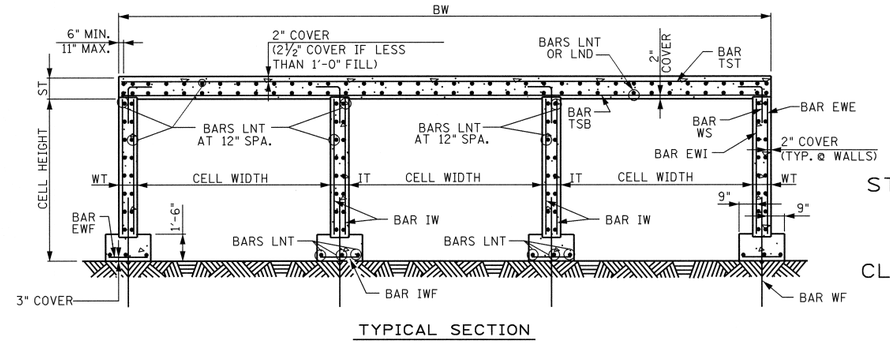
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	9.50	5	2	12	9.50	4	4	12	9.50	122	72	4	4	1.67	1.67	2.44	621
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	9.50	6	2	12	9.50	4	4	12	9.50	122	72	4	4	1.67	1.67	2.74	563
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	9.50	5	4	6	9.50	4	4	12	9.50	160	0	4	4	1.67	1.67	2.62	577
	10	15	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	9.50	7	4	6	9.50	4	4	12	9.50	160	0	4	4	1.67	1.67	2.85	615
Moment Break	20	16	10	8	39.00	4	3	12	12.66	9	2	6	38.50	4	2	12	9.50	7	4	6	9.50	4	4	12	9.50	162	0	4	4	1.83	1.67	3.13	633
	30	21	12	8	39.33	4	3	12	12.66	8	2	6	38.83	4	2	12	9.50	7	4	6	9.50	5	4	12	9.50	162	0	4	4	2.00	1.67	3.89	593
	40	26	14	8	39.67	4	3	12	12.66	8	2	6	39.17	4	2	12	9.50	6	4	6	9.50	4	8	6	9.50	162	0	4	4	2.17	1.67	4.66	586
	50	31	15	8	39.83	4	3	12	12.66	8	2	6	39.33	4	2	12	9.50	6	4	6	9.50	4	8	6	9.50	162	0	4	4	2.25	1.67	5.35	587
	60	34	17	8	40.17	4	3	12	12.66	9	2	6	39.67	4	2	12	9.50	6	4	6	9.50	7	4	12	9.50	164	0	4	4	2.42	1.67	5.89	675

3 @ 12 x 12 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT 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 IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	38.67	7	2	6	38.17	7	2	6	38.17	4	2	12	10.50	6	2	12	10.50	4	4	12	10.50	130	72	4	4	1.67	1.67	2.51	643
	3	14	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	10.50	5	4	6	10.50	4	4	12	10.50	130	72	4	4	1.67	1.67	2.81	587
	5	13	8	8	38.67	7	2	6	38.17	6	2	6	38.17	4	2	12	10.50	6	4	6	10.50	4	4	12	10.50	168	0	4	4	1.67	1.67	2.69	610
	10	15	9	8	38.83	7	2	6	38.33	6	2	6	38.33	4	2	12	10.50	7	4	6	10.50	4	4	12	10.50	168	0	4	4	1.75	1.67	3.01	634
Moment Break	20	16	11	8	39.17	4	3	12	12.66	9	2	6	38.67	4	2	12	10.50	7	4	6	10.50	4	4	12	10.50	170	0	4	4	1.92	1.67	3.30	652
	30	21	13	8	39.50	4	3	12	12.66	8	2	6	39.00	4	2	12	10.50	7	4	6	10.50	5	4	12	10.50	170	0	4	4	2.08	1.67	4.07	613
	40	26	15	8	39.83	4	3	12	12.66	8	2	6	39.33	4	2	12	10.50	7	4	6	10.50	4	8	6	10.50	170	0	4	4	2.25	1.67	4.85	628
	50	31	17	8	40.17	4	3	12	12.66	8	2	6	39.67	4	2	12	10.50	7	4	6	10.50	4	8	6	10.50	172	0	4	4	2.42	1.67	5.65	631
	60	34	19	8	40.50	4	3	12	12.66	9	2	6	40.00	4	2	12	10.50	6	4	6	10.50	7	4	12	10.50	172	0	4	4	2.58	1.67	6.20	698

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.



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: 3 BARRELS AT 12'-0" CLEAR HEIGHTS 10'-0" THRU 12'-0" 0' THRU 60' FILL 2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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

STD-17-158

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