CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 14 x 5 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	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	80	44	4	4	1.67	1.67	2.21	604
	3	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	80	44	4	4	1.67	1.67	2.55	604
	5	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	124	0	4	4	1.67	1.67	2.55	549
	10	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	124	0	4	4	1.67	1.67	2.83	539
Moment Break	20	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	124	0	4	4	1.67	1.67	2.96	556
	30	23	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	3.50	5	2	12	3.50	5	4	12	3.50	124	0	4	4	1.67	1.67	3.79	561
	40	29	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	3.50	5	2	12	3.50	4	8	6	3.50	124	0	4	4	1.67	1.67	4.62	565
	50	33	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	3.50	5	2	12	3.50	5	8	6	3.50	124	0	4	4	1.67	1.67	5.17	576
	60	37	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	3.50	5	2	12	3.50	6	8	6	3.50	124	0	4	4	1.67	1.67	5.72	589

3 @ 14 x 6 REINFORCED CONCRETE SLAB BRIDGE

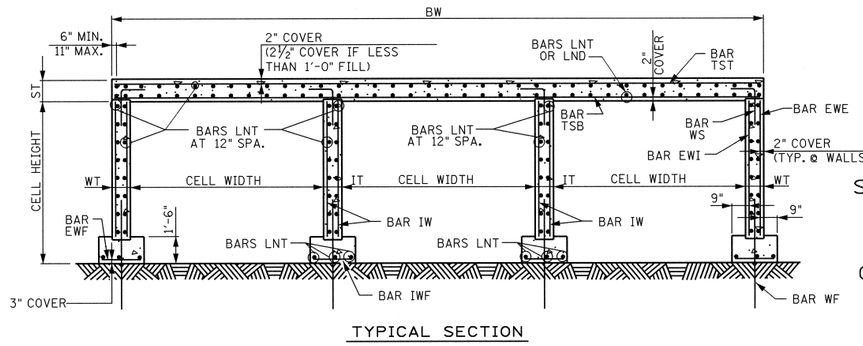
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	88	42	4	4	1.67	1.67	2.28	613
	3	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	88	42	4	4	1.67	1.67	2.62	613
	5	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	132	0	4	4	1.67	1.67	2.62	560
	10	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	132	0	4	4	1.67	1.67	2.90	551
Moment Break	20	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	132	0	4	4	1.67	1.67	3.04	567
	30	23	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	4.50	5	2	12	4.50	5	4	12	4.50	132	0	4	4	1.67	1.67	3.87	574
	40	29	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	4.50	5	2	12	4.50	4	8	6	4.50	132	0	4	4	1.67	1.67	4.69	579
	50	33	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	4.50	5	2	12	4.50	5	8	6	4.50	132	0	4	4	1.67	1.67	5.24	593
	60	37	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	4.50	5	2	12	4.50	6	8	6	4.50	132	0	4	4	1.75	1.67	5.85	611

3 @ 14 x 7 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	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	96	42	4	4	1.67	1.67	2.35	624
	3	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	96	42	4	4	1.67	1.67	2.70	624
	5	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	140	0	4	4	1.67	1.67	2.70	572
	10	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	140	0	4	4	1.67	1.67	2.97	562
Moment Break	20	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	140	0	4	4	1.67	1.67	3.11	579
	30	23	8	8	44.67	4	3	12	14.66	9	2	6	44.17	4	2	12	5.50	5	2	12	5.50	5	4	12	5.50	140	0	4	4	1.67	1.67	3.94	587
	40	29	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	5.50	5	2	12	5.50	6	4	12	5.50	140	0	4	4	1.75	1.67	4.82	598
	50	33	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	5.50	5	2	12	5.50	5	8	6	5.50	140	0	4	4	1.75	1.67	5.38	611
	60	37	10	8	45.00	4	3	12	14.66	9	2	6	44.50	4	2	12	5.50	5	2	12	5.50	6	8	6	5.50	142	0	4	4	1.83	1.67	5.99	634

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 = 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 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 14'-0" CLEAR HEIGHTS 5'-0" THRU 7'-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-17-159

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