CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 10 x 4 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	10.5	8	8	22.00	6	2	6	21.50	8	1	12	21.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	43	20	3	3	1.67	1.67	1.26	275
	3	13	8	8	22.00	7	2	6	21.50	6	2	6	21.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	43	20	3	3	1.67	1.67	1.43	305
	5	13	8	8	22.00	6	2	6	21.50	5	2	6	21.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	65	0	3	3	1.67	1.67	1.43	256
	10	13	8	8	22.00	8	2	6	21.50	5	2	6	21.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	65	0	3	3	1.67	1.67	1.43	306
Moment Break	20	12	8	8	22.00	4	2	12	10.66	8	2	6	21.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	65	0	3	3	1.67	1.67	1.36	276
	30	18	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	2.50	5	2	12	2.50	5	2	12	2.50	65	0	3	3	1.67	1.67	1.77	251
	40	22	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	2.50	5	2	12	2.50	5	2	12	2.50	65	0	3	3	1.67	1.67	2.04	251
	50	25	8	8	22.00	4	2	12	10.66	8	2	6	21.50	4	2	12	2.50	5	2	12	2.50	4	4	6	2.50	65	0	3	3	1.67	1.67	2.24	279
	60	29	8	8	22.00	4	2	12	10.66	9	2	6	21.50	4	2	12	2.50	5	2	12	2.50	7	2	12	2.50	65	0	3	3	1.67	1.67	2.52	314

2 @ 10 x 5 REINFORCED CONCRETE SLAB BRIDGE

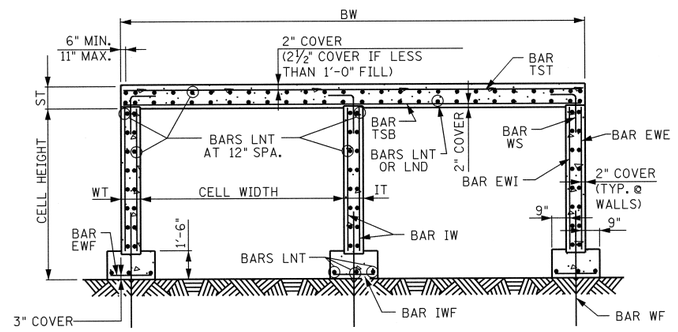
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	22.00	6	2	6	21.50	8	1	12	21.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	49	20	3	3	1.67	1.67	1.33	284
	3	13	8	8	22.00	7	2	6	21.50	6	2	6	21.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	49	20	3	3	1.67	1.67	1.50	314
	5	13	8	8	22.00	6	2	6	21.50	5	2	6	21.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	71	0	3	3	1.67	1.67	1.50	265
	10	13	8	8	22.00	8	2	6	21.50	5	2	6	21.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.40	71	0	3	3	1.67	1.67	1.50	315
Moment Break	20	12	8	8	22.00	4	2	12	10.66	8	2	6	21.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	71	0	3	3	1.67	1.67	1.44	285
	30	18	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	3.50	5	2	12	3.50	5	2	12	3.50	71	0	3	3	1.67	1.67	1.84	260
	40	22	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	3.50	5	2	12	3.50	5	2	12	3.50	71	0	3	3	1.67	1.67	2.11	260
	50	25	8	8	22.00	4	2	12	10.66	8	2	6	21.50	4	2	12	3.50	5	2	12	3.50	4	4	6	3.50	71	0	3	3	1.67	1.67	2.32	289
	60	29	8	8	22.00	4	2	12	10.66	9	2	6	21.50	4	2	12	3.50	5	2	12	3.50	7	2	12	3.50	71	0	3	3	1.67	1.67	2.59	326

2 @ 10 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	10.5	8	8	22.00	6	2	6	21.50	8	1	12	21.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	55	20	3	3	1.67	1.67	1.41	292
	3	13	8	8	22.00	7	2	6	21.50	6	2	6	21.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	55	20	3	3	1.67	1.67	1.58	323
	5	13	8	8	22.00	6	2	6	21.50	5	2	6	21.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	77	0	3	3	1.67	1.67	1.58	274
	10	13	8	8	22.00	8	2	6	21.50	5	2	6	21.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	77	0	3	3	1.67	1.67	1.58	324
Moment Break	20	12	8	8	22.00	4	2	12	10.66	8	2	6	21.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	77	0	3	3	1.67	1.67	1.51	293
	30	18	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	4.50	5	2	12	4.50	5	2	12	4.50	77	0	3	3	1.67	1.67	1.92	270
	40	22	8	8	22.00	4	2	12	10.66	7	2	6	21.50	4	2	12	4.50	5	2	12	4.50	5	2	12	4.50	77	0	3	3	1.67	1.67	2.19	270
	50	25	9	8	22.17	4	2	12	10.66	8	2	6	21.67	4	2	12	4.50	5	2	12	4.50	4	4	6	4.50	77	0	3	3	1.75	1.67	2.44	300
	60	29	9	8	22.17	4	2	12	10.66	9	2	6	21.67	4	2	12	4.50	5	2	12	4.50	7	2	12	4.50	77	0	3	3	1.75	1.67	2.72	338

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. = 1 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: 2 BARRELS AT 10'-0" CLEAR HEIGHTS 4'-0" THRU 6'-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-17-134

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