CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 6 x 3 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	Dimensions WT in.	Dimensions IT in.	Dimensions BW ft.	Bars TST Size	Bars TST No.	Bars TST Spacing in.	Bars TST Length ft.	Bars TSB Size	Bars TSB No.	Bars TSB Spacing in.	Bars TSB Length ft.	Bars EWE Size	Bars EWE No.	Bars EWE Spacing in.	Bars EWE Length ft.	Bars EWI Size	Bars EWI No.	Bars EWI Spacing in.	Bars EWI Length ft.	Bars IW Size	Bars IW No.	Bars IW Spacing in.	Bars IW 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	9.5	8	8	20.67	7	1	12	20.17	7	1	12	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	40	36	4	4	1.67	1.67	1.08	264
	3	10	8	8	20.67	5	2	6	20.17	6	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	40	36	4	4	1.67	1.67	1.11	284
	5	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	1.05	225
	10	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	1.05	225
Moment Break	20	8	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	0.98	245
	30	11	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	1.17	245
	40	14	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	1.37	245
	50	16	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	1.50	5	2	12	1.50	4	4	12	1.50	60	0	4	4	1.67	1.67	1.49	245
	60	17	8	8	20.67	4	3	12	6.66	7	2	6	20.17	4	2	12	1.50	5	2	12	1.50	5	4	12	1.50	60	0	4	4	1.67	1.67	1.56	269

3 @ 6 x 4 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	Dimensions WT in.	Dimensions IT in.	Dimensions BW ft.	Bars TST Size	Bars TST No.	Bars TST Spacing in.	Bars TST Length ft.	Bars TSB Size	Bars TSB No.	Bars TSB Spacing in.	Bars TSB Length ft.	Bars EWE Size	Bars EWE No.	Bars EWE Spacing in.	Bars EWE Length ft.	Bars EWI Size	Bars EWI No.	Bars EWI Spacing in.	Bars EWI Length ft.	Bars IW Size	Bars IW No.	Bars IW Spacing in.	Bars IW 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	9.5	8	8	20.67	7	1	12	20.17	7	1	12	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	48	36	4	4	1.67	1.67	1.15	276
	3	10	8	8	20.67	5	2	6	20.17	6	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	48	36	4	4	1.67	1.67	1.18	296
	5	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.12	236
	10	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.12	236
Moment Break	20	8	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.06	257
	30	11	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.25	257
	40	14	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.44	257
	50	16	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	2.50	5	2	12	2.50	4	4	12	2.50	68	0	4	4	1.67	1.67	1.57	257
	60	17	8	8	20.67	4	3	12	6.66	7	2	6	20.17	4	2	12	2.50	5	2	12	2.50	5	4	12	2.50	68	0	4	4	1.67	1.67	1.63	282

3 @ 6 x 5 REINFORCED CONCRETE SLAB BRIDGE

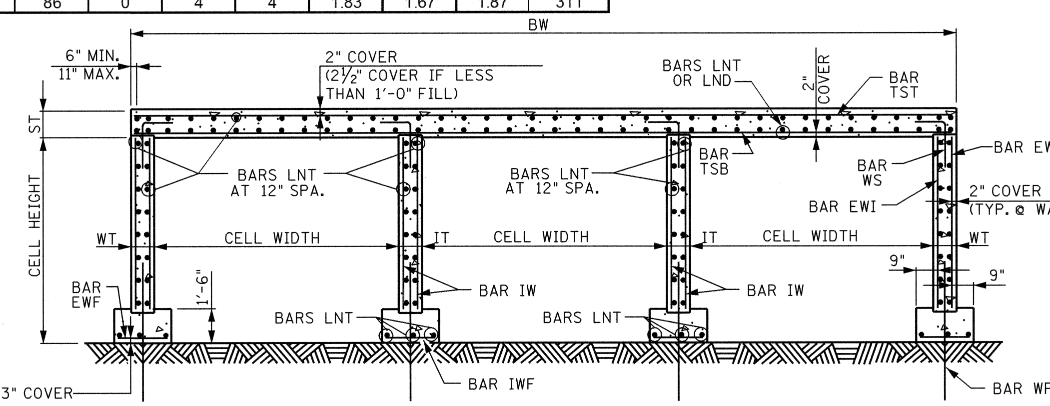
	Fill Height ft.	Dimensions ST in.	Dimensions WT in.	Dimensions IT in.	Dimensions BW ft.	Bars TST Size	Bars TST No.	Bars TST Spacing in.	Bars TST Length ft.	Bars TSB Size	Bars TSB No.	Bars TSB Spacing in.	Bars TSB Length ft.	Bars EWE Size	Bars EWE No.	Bars EWE Spacing in.	Bars EWE Length ft.	Bars EWI Size	Bars EWI No.	Bars EWI Spacing in.	Bars EWI Length ft.	Bars IW Size	Bars IW No.	Bars IW Spacing in.	Bars IW 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	9.5	8	8	20.67	7	1	12	20.17	7	1	12	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	56	36	4	4	1.67	1.67	1.23	287
	3	10	8	8	20.67	5	2	6	20.17	6	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	56	36	4	4	1.67	1.67	1.26	307
	5	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.19	248
	10	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.19	248
Moment Break	20	8	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.13	268
	30	11	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.32	268
	40	14	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.51	268
	50	16	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	3.50	5	2	12	3.50	4	4	12	3.50	76	0	4	4	1.67	1.67	1.64	268
	60	17	8	8	20.67	4	3	12	6.66	7	2	6	20.17	4	2	12	3.50	5	2	12	3.50	5	4	12	3.50	76	0	4	4	1.67	1.67	1.70	295

3 @ 6 x 6 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	Dimensions WT in.	Dimensions IT in.	Dimensions BW ft.	Bars TST Size	Bars TST No.	Bars TST Spacing in.	Bars TST Length ft.	Bars TSB Size	Bars TSB No.	Bars TSB Spacing in.	Bars TSB Length ft.	Bars EWE Size	Bars EWE No.	Bars EWE Spacing in.	Bars EWE Length ft.	Bars EWI Size	Bars EWI No.	Bars EWI Spacing in.	Bars EWI Length ft.	Bars IW Size	Bars IW No.	Bars IW Spacing in.	Bars IW 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	9.5	8	8	20.67	7	1	12	20.17	7	1	12	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	64	36	4	4	1.67	1.67	1.30	299
	3	10	8	8	20.67	5	2	6	20.17	6	2	6	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	64	36	4	4	1.67	1.67	1.33	319
	5	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	86	0	4	4	1.67	1.67	1.27	261
	10	9	8	8	20.67	4	2	6	20.17	4	2	6	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	86	0	4	4	1.67	1.67	1.27	261
Moment Break	20	8	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	86	0	4	4	1.67	1.67	1.20	281
	30	11	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	86	0	4	4	1.67	1.67	1.40	281
	40	14	8	8	20.67	4	3	12	6.66	6	2	6	20.17	4	2	12	4.50	6	2	12	4.50	4	4	12	4.50	86	0	4	4	1.67	1.67	1.59	285
	50	16	9	8	20.83	4	3	12	6.66	6	2	6	20.33	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	86	0	4	4	1.75	1.67	1.76	281
	60	17	10	8	21.00	4	3	12	6.66	7	2	6	20.50	4	2	12	4.50	5	2	12	4.50	5	4	12	4.50	86	0	4	4	1.83	1.67	1.87	311

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 6'-0"
CLEAR HEIGHTS 3'-0" THRU 6'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-151

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

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28-JUL-2010
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