STD-132&133_2BARREL_SLAB8'.DGN

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 8 x 3 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	9.5	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	33	16	3	3	1.67	1.67	1.00	242
	3	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	33	16	3	3	1.67	1.67	1.08	261
	5	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	51	0	3	3	1.67	1.67	1.08	206
	10	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	51	0	3	3	1.67	1.67	1.08	241
Moment Break	20	10	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	51	0	3	3	1.67	1.67	1.03	216
	30	14	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	2	12	1.50	51	0	3	3	1.67	1.67	1.25	216
	40	18	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	1.50	5	2	12	1.50	5	2	12	1.50	51	0	3	3	1.67	1.67	1.47	217
	50	21	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	1.50	5	2	12	1.50	5	2	12	1.50	51	0	3	3	1.67	1.67	1.64	217
	60	24	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	1.50	5	2	12	1.50	4	4	6	1.50	51	0	3	3	1.67	1.67	1.81	218

2 @ 8 x 4 REINFORCED CONCRETE SLAB BRIDGE

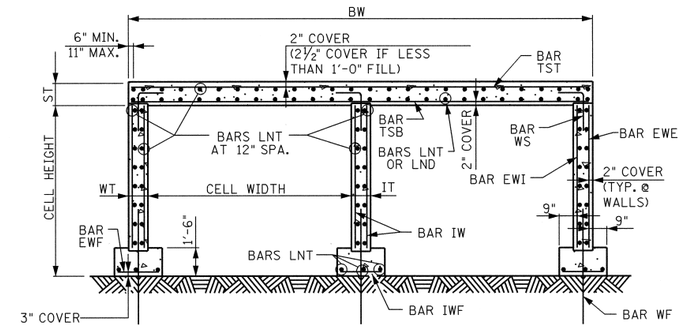
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	39	16	3	3	1.67	1.67	1.07	251
	3	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	39	16	3	3	1.67	1.67	1.16	270
	5	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	57	0	3	3	1.67	1.67	1.16	214
	10	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	57	0	3	3	1.67	1.67	1.16	249
Moment Break	20	10	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	57	0	3	3	1.67	1.67	1.10	225
	30	14	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	57	0	3	3	1.67	1.67	1.32	225
	40	18	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	2.50	5	2	12	2.50	5	2	12	2.50	57	0	3	3	1.67	1.67	1.55	226
	50	21	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	2.50	5	2	12	2.50	5	2	12	2.50	57	0	3	3	1.67	1.67	1.71	226
	60	24	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	2.50	5	2	12	2.50	4	4	6	2.50	57	0	3	3	1.67	1.67	1.88	228

2 @ 8 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	9.5	8	8	18.00	6	2	6	17.50	6	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	45	16	3	3	1.67	1.67	1.15	260
	3	11	8	8	18.00	7	2	6	17.50	6	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	45	16	3	3	1.67	1.67	1.23	279
	5	11	8	8	18.00	5	2	6	17.50	5	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	63	0	3	3	1.67	1.67	1.23	223
	10	11	8	8	18.00	7	2	6	17.50	5	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	63	0	3	3	1.67	1.67	1.23	258
Moment Break	20	10	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	63	0	3	3	1.67	1.67	1.18	233
	30	14	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	63	0	3	3	1.67	1.67	1.40	233
	40	18	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	3.50	5	2	12	3.50	5	2	12	3.50	63	0	3	3	1.67	1.67	1.62	236
	50	21	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	3.50	5	2	12	3.50	5	2	12	3.50	63	0	3	3	1.67	1.67	1.79	236
	60	24	8	8	18.00	4	2	12	8.66	7	2	6	17.50	4	2	12	3.50	5	2	12	3.50	4	4	6	3.50	63	0	3	3	1.67	1.67	1.95	238

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 8'-0" CLEAR HEIGHTS 3'-0" THRU 5'-0" 0' THRU 60' FILL 2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-132

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

Plot date/time: 20:08:08 Plotted by: mbowen
Plot scale: 1.000 '/ Inch
File: S:\Standards\Roadway\11-6-10\Drafted Culvert Files 1-6-10\8' Span\STD-17-132&133_2barrel_slab8'.dgn