CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 12 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	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	47	48	3	3	1.67	1.67	1.39	375
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	47	48	3	3	1.67	1.67	1.67	375
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.67	1.67	333
	10	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.67	1.83	365
Moment Break	20	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.67	1.83	342
	30	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	2.50	5	2	12	2.50	5	2	12	2.50	73	0	3	3	1.67	1.67	2.23	307
	40	26	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	2.50	5	2	12	2.50	4	4	6	2.50	73	0	3	3	1.67	1.67	2.63	309
	50	31	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	2.50	5	2	12	2.50	7	2	12	2.50	73	0	3	3	1.67	1.67	3.03	312
	60	34	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	2.50	5	2	12	2.50	7	2	12	2.50	73	0	3	3	1.67	1.67	3.27	349

2 @ 12 x 5 REINFORCED CONCRETE SLAB BRIDGE

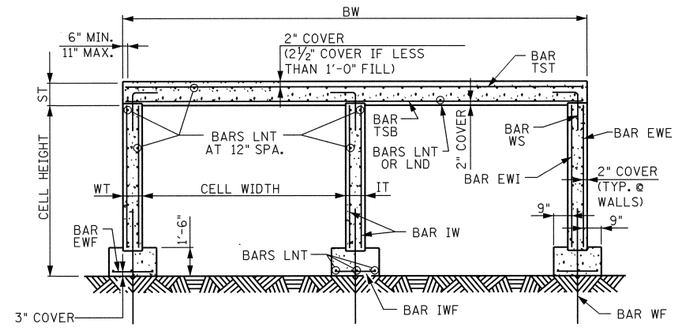
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	53	48	3	3	1.67	1.67	1.46	384
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	53	48	3	3	1.67	1.67	1.74	384
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.67	1.74	342
	10	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.67	1.90	374
Moment Break	20	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.67	1.90	351
	30	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	3.50	5	2	12	3.50	5	2	12	3.50	79	0	3	3	1.67	1.67	2.31	317
	40	26	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	3.50	5	2	12	3.50	4	4	6	3.50	79	0	3	3	1.67	1.67	2.71	319
	50	31	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	3.50	5	2	12	3.50	7	2	12	3.50	79	0	3	3	1.67	1.67	3.11	324
	60	34	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	3.50	5	2	12	3.50	7	2	12	3.50	79	0	3	3	1.67	1.67	3.35	361

2 @ 12 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	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	59	48	3	3	1.67	1.67	1.54	393
	3	14	8	8	26.00	7	2	6	25.50	7	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	59	48	3	3	1.67	1.67	1.82	393
	5	14	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.67	1.82	350
	10	16	8	8	26.00	8	2	6	25.50	6	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.67	1.98	382
Moment Break	20	16	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.67	1.98	360
	30	21	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	4.50	5	2	12	4.50	5	2	12	4.50	85	0	3	3	1.67	1.67	2.38	326
	40	26	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	4.50	5	2	12	4.50	4	4	6	4.50	85	0	3	3	1.67	1.67	2.78	329
	50	31	8	8	26.00	4	2	12	12.67	8	2	6	25.50	4	2	12	4.50	5	2	12	4.50	7	2	12	4.50	85	0	3	3	1.67	1.67	3.18	335
	60	34	9	8	26.17	4	2	12	12.67	9	2	6	25.67	4	2	12	4.50	5	2	12	4.50	7	2	12	4.50	85	0	3	3	1.75	1.67	3.48	374

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. = 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 12'-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-17-136

Bridge Drawings\Standards\1-6-10\Culvert Files 1-6-10\12' Span\STD-17-136¢137¢138_2barrel_slab12'.dgn
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