CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 12 REINFORCED CONCRETE SLAB BRIDGE

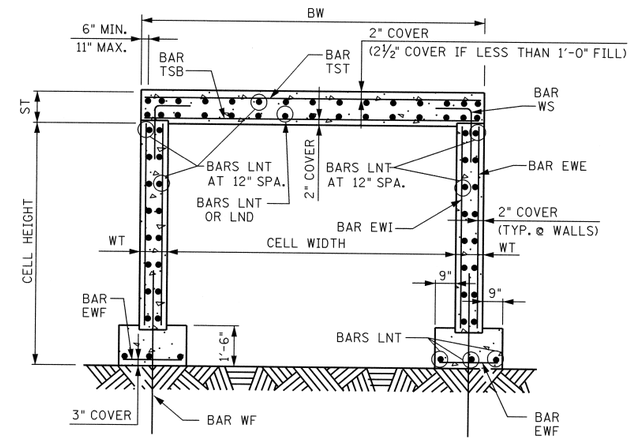
Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	10.50	6	2	12	10.50	65	36	2	2	1.67	1.45	362
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	10.50	6	2	12	10.50	65	36	2	2	1.67	1.65	301
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	10.50	6	4	6	10.50	84	0	2	2	1.67	1.65	335
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	10.50	8	4	6	10.50	84	0	2	2	1.67	1.65	418
20	20	11	19.83	4	1	12	19.33	11	2	6	19.33	4	2	12	10.50	7	4	6	10.50	84	0	2	2	1.92	2.21	436
30	29	13	20.17	4	1	12	19.67	10	2	6	19.67	4	2	12	10.50	7	4	6	10.50	86	0	2	2	2.08	2.93	401
40	36	15	20.50	4	1	12	20.00	10	2	6	20.00	4	2	12	10.50	6	4	6	10.50	86	0	2	2	2.25	3.56	382
50	41	16	20.67	4	1	12	20.17	10	2	6	20.17	4	2	12	10.50	6	4	6	10.50	86	0	2	2	2.33	3.97	383
60	46	18	21.00	4	1	12	20.50	10	2	6	20.50	4	2	12	10.50	7	2	12	10.50	88	0	2	2	2.50	4.48	368

1 @ 18 x 13 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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 LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	11.50	5	4	6	11.50	69	36	2	2	1.67	1.49	383
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	11.50	6	4	6	11.50	69	36	2	2	1.67	1.70	342
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	11.50	7	4	6	11.50	88	0	2	2	1.67	1.70	370
10	15	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	11.50	8	4	6	11.50	88	0	2	2	1.75	1.79	434
20	20	12	20.00	4	1	12	19.50	11	2	6	19.50	4	2	12	11.50	7	4	6	11.50	90	0	2	2	2.00	2.36	451
30	29	14	20.33	4	1	12	19.83	10	2	6	19.83	4	2	12	11.50	7	4	6	11.50	90	0	2	2	2.17	3.11	415
40	36	16	20.67	4	1	12	20.17	10	2	6	20.17	4	2	12	11.50	7	4	6	11.50	90	0	2	2	2.33	3.75	418
50	41	18	21.00	4	1	12	20.50	10	2	6	20.50	4	2	12	11.50	6	4	6	11.50	92	0	2	2	2.50	4.27	398
60	46	20	21.33	4	1	12	20.83	10	2	6	20.83	4	2	12	11.50	6	4	6	11.50	92	0	2	2	2.67	4.80	401

1 @ 18 x 14 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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 LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	12.50	6	4	6	12.50	73	36	2	2	1.67	1.54	414
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	12.50	7	4	6	12.50	73	36	2	2	1.67	1.75	379
5	15	9	19.50	4	1	12	19.00	9	2	6	19.00	4	2	12	12.50	7	4	6	12.50	92	0	2	2	1.75	1.85	383
10	15	10	19.67	4	1	12	19.17	10	2	6	19.17	4	2	12	12.50	8	4	6	12.50	92	0	2	2	1.83	1.94	451
20	20	13	20.17	4	1	12	19.67	11	2	6	19.67	4	2	12	12.50	7	4	6	12.50	94	0	2	2	2.08	2.53	465
30	29	15	20.50	4	1	12	20.00	10	2	6	20.00	4	2	12	12.50	8	4	6	12.50	94	0	2	2	2.25	3.30	460
40	36	17	20.83	4	1	12	20.33	10	2	6	20.33	4	2	12	12.50	8	4	6	12.50	94	0	2	2	2.42	3.95	464
50	41	19	21.17	4	1	12	20.67	10	2	6	20.67	4	2	12	12.50	7	4	6	12.50	96	0	2	2	2.58	4.49	437
60	46	21	21.50	4	1	12	21.00	10	2	6	21.00	4	2	12	12.50	7	4	6	12.50	96	0	2	2	2.75	5.03	440



TYPICAL SECTION

Note: Maximum fill height shown in the table 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 = 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 EWF Size = 4 No. = 2 Spacing = 12 in.

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: 1 BARREL AT 18'-0"
CLEAR HEIGHTS 12'-0" THRU 14'-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-17-127

Bud_Griffith\MYDGNXWS\Y0D1W8\1-6-10\Drfldcl\Culvert Files 1-6-10\US Spcn\STD-17-125¢126¢127¢128_1barrel_slab18'.dgn
Sep 28, 2010
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