CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 9 REINFORCED CONCRETE SLAB BRIDGE

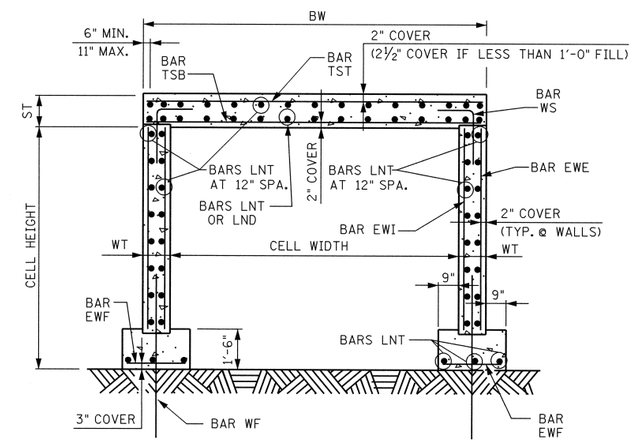
Fill Height ft.	Dimensions ST in.	WT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	7.50	5	2	12	7.50	53	36	2	2	1.67	1.30	334
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	7.50	5	2	12	7.50	53	36	2	2	1.67	1.51	273
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	7.50	5	2	12	7.50	72	0	2	2	1.67	1.51	275
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	7.50	5	2	12	7.50	72	0	2	2	1.67	1.51	309
20	20	8	19.33	4	1	12	18.83	11	2	6	18.83	4	2	12	7.50	5	4	6	7.50	72	0	2	2	1.67	1.80	363
30	29	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	7.50	5	4	6	7.50	72	0	2	2	1.75	2.41	327
40	36	11	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	7.50	5	2	12	7.50	72	0	2	2	1.92	2.98	314
50	41	12	20.00	4	1	12	19.50	10	2	6	19.50	4	2	12	7.50	5	2	12	7.50	74	0	2	2	2.00	3.36	317
60	46	13	20.17	4	1	12	19.67	10	2	6	19.67	4	2	12	7.50	5	2	12	7.50	74	0	2	2	2.08	3.75	319

1 @ 18 x 10 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	8.50	5	2	12	8.50	57	36	2	2	1.67	1.35	340
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	8.50	5	2	12	8.50	57	36	2	2	1.67	1.56	279
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	8.50	6	2	12	8.50	76	0	2	2	1.67	1.56	289
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	8.50	5	4	6	8.50	76	0	2	2	1.67	1.56	333
20	20	9	19.50	4	1	12	19.00	11	2	6	19.00	4	2	12	8.50	6	4	6	8.50	76	0	2	2	1.75	1.93	389
30	29	11	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	8.50	5	4	6	8.50	76	0	2	2	1.92	2.62	338
40	36	12	20.00	4	1	12	19.50	10	2	6	19.50	4	2	12	8.50	5	4	6	8.50	78	0	2	2	2.00	3.13	341
50	41	13	20.17	4	1	12	19.67	10	2	6	19.67	4	2	12	8.50	6	2	12	8.50	78	0	2	2	2.08	3.52	333
60	46	15	20.50	4	1	12	20.00	10	2	6	20.00	4	2	12	8.50	5	2	12	8.50	78	0	2	2	2.25	4.00	328

1 @ 18 x 11 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	9.50	5	2	12	9.50	61	36	2	2	1.67	1.40	346
3	15	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	9.50	6	2	12	9.50	61	36	2	2	1.67	1.60	294
5	15	8	19.33	4	1	12	18.83	9	2	6	18.83	4	2	12	9.50	5	4	6	9.50	80	0	2	2	1.67	1.60	307
10	15	8	19.33	4	1	12	18.83	10	2	6	18.83	4	2	12	9.50	6	4	6	9.50	80	0	2	2	1.67	1.60	359
20	20	10	19.67	4	1	12	19.17	11	2	6	19.17	4	2	12	9.50	6	4	6	9.50	80	0	2	2	1.83	2.06	401
30	29	12	20.00	4	1	12	19.50	10	2	6	19.50	4	2	12	9.50	6	4	6	9.50	82	0	2	2	2.00	2.77	367
40	36	13	20.17	4	1	12	19.67	10	2	6	19.67	4	2	12	9.50	6	4	6	9.50	82	0	2	2	2.08	3.29	368
50	41	15	20.50	4	1	12	20.00	10	2	6	20.00	4	2	12	9.50	6	4	6	9.50	82	0	2	2	2.25	3.78	372
60	46	16	20.67	4	1	12	20.17	10	2	6	20.17	4	2	12	9.50	5	4	6	9.50	82	0	2	2	2.33	4.19	356



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 9'-0" THRU 11'-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-17-126

DGN drive:\$stdbexes\tables\1-6-10\Official Culvert Files 1-6-10\18' Span\STD-17-125¢126¢127¢128_1barrel_slab18'.dgn
08-26-2010