1 @ 18 x 15 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	13.50	7	4	6	13.50	77	36	2	2	1.67	1.59	453
3	15	9	19.50	4	1	12	19.00	8	2	6	19.00	4	2	12	13.50	7	4	6	13.50	77	36	2	2	1.75	1.90	393
5	15	9	19.50	4	1	12	19.00	9	2	6	19.00	4	2	12	13.50	8	4	6	13.50	96	0	2	2	1.75	1.90	429
10	15	11	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	13.50	8	4	6	13.50	96	0	2	2	1.92	2.10	467
20	20	14	20.33	4	1	12	19.83	11	2	6	19.83	4	2	12	13.50	8	4	6	13.50	98	0	2	2	2.17	2.72	513
30	29	16	20.67	4	1	12	20.17	10	2	6	20.17	4	2	12	13.50	8	4	6	13.50	98	0	2	2	2.33	3.50	477
40	36	19	21.17	4	1	12	20.67	10	2	6	20.67	4	2	12	13.50	8	4	6	13.50	100	0	2	2	2.58	4.28	483
50	41	21	21.50	4	1	12	21.00	10	2	6	21.00	4	2	12	13.50	8	4	6	13.50	100	0	2	2	2.75	4.83	486
60	46	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	13.50	7	4	6	13.50	100	0	2	2	2.92	5.40	456

1 @ 18 x 16 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	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	14.50	7	4	6	14.50	81	36	2	2	1.75	1.75	467
3	15	9	19.50	4	1	12	19.00	8	2	6	19.00	4	2	12	14.50	8	4	6	14.50	81	36	2	2	1.75	1.96	441
5	15	10	19.67	4	1	12	19.17	9	2	6	19.17	4	2	12	14.50	8	4	6	14.50	100	0	2	2	1.83	2.06	445
10	15	11	19.83	4	1	12	19.33	10	2	6	19.33	4	2	12	14.50	9	4	6	14.50	100	0	2	2	1.92	2.17	524
20	20	15	20.50	4	1	12	20.00	11	2	6	20.00	4	2	12	14.50	8	4	6	14.50	102	0	2	2	2.25	2.91	530
30	29	18	21.00	4	1	12	20.50	10	2	6	20.50	4	2	12	14.50	8	4	6	14.50	104	0	2	2	2.50	3.82	496
40	36	20	21.33	4	1	12	20.83	10	2	6	20.83	4	2	12	14.50	8	4	6	14.50	104	0	2	2	2.67	4.51	499
50	41	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	14.50	8	4	6	14.50	104	0	2	2	2.92	5.20	504
60	46	25	22.17	4	1	12	21.67	10	2	6	21.67	4	2	12	14.50	8	4	6	14.50	106	0	2	2	3.08	5.78	509

1 @ 18 x 17 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	9	19.50	4	1	12	19.00	10	2	6	19.00	4	2	12	15.50	8	4	6	15.50	85	36	2	2	1.75	1.80	518
3	15	10	19.67	4	1	12	19.17	8	2	6	19.17	4	2	12	15.50	8	4	6	15.50	85	36	2	2	1.83	2.13	457
5	15	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	15.50	8	4	6	15.50	104	0	2	2	1.92	2.24	461
10	15	12	20.00	4	1	12	19.50	10	2	6	19.50	4	2	12	15.50	9	4	6	15.50	106	0	2	2	2.00	2.35	545
20	20	16	20.67	4	1	12	20.17	11	2	6	20.17	4	2	12	15.50	8	4	6	15.50	106	0	2	2	2.33	3.12	547
30	29	19	21.17	4	1	12	20.67	10	2	6	20.67	4	2	12	15.50	8	4	6	15.50	108	0	2	2	2.58	4.06	512
40	36	22	21.67	4	1	12	21.17	10	2	6	21.17	4	2	12	15.50	8	4	6	15.50	108	0	2	2	2.83	4.88	517
50	41	24	22.00	4	1	12	21.50	10	2	6	21.50	4	2	12	15.50	8	4	6	15.50	110	0	2	2	3.00	5.47	522
60	46	26	22.33	4	1	12	21.83	10	2	6	21.83	4	2	12	15.50	8	4	6	15.50	110	0	2	2	3.17	6.07	525

1 @ 18 x 18 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	10	19.67	4	1	12	19.17	10	2	6	19.17	4	2	12	16.50	8	4	6	16.50	89	36	2	2	1.83	1.98	534
3	15	11	19.83	4	1	12	19.33	8	2	6	19.33	4	2	12	16.50	8	4	6	16.50	89	36	2	2	1.92	2.31	473
5	15	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	16.50	9	4	6	16.50	108	0	2	2	1.92	2.31	524
10	15	13	20.17	4	1	12	19.67	10	2	6	19.67	4	2	12	16.50	9	4	6	16.50	110	0	2	2	2.08	2.54	564
20	20	17	20.83	4	1	12	20.33	11	2	6	20.33	4	2	12	16.50	9	4	6	16.50	110	0	2	2	2.42	3.34	612
30	29	20	21.33	4	1	12	20.83	10	2	6	20.83	4	2	12	16.50	9	4	6	16.50	112	0	2	2	2.67	4.30	577
40	36	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	16.50	8	4	6	16.50	112	0	2	2	2.92	5.15	534
50	41	26	22.33	4	1	12	21.83	10	2	6	21.83	4	2	12	16.50	9	4	6	16.50	114	0	2	2	3.17	5.88	588
60	46	28	22.67	4	1	12	22.17	10	2	6	22.17	4	2	12	16.50	9	4	6	16.50	114	0	2	2	3.33	6.50	591

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.

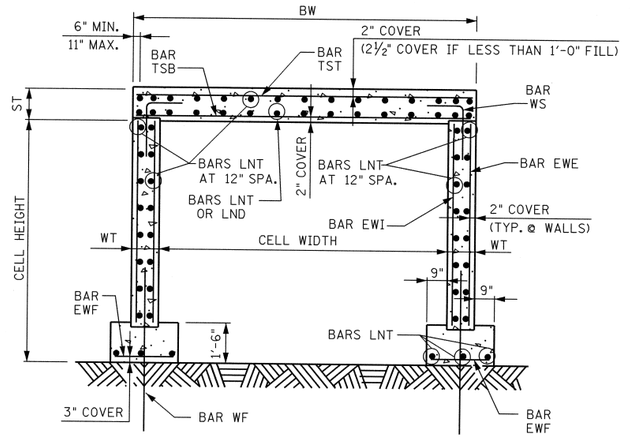
DESIGNED BY RLL/ALP DATE 12-09
DRAWN BY KEVIN MARTINKO DATE 1-10
SUPERVISED BY EPW/RLC DATE 12-09
CHECKED BY RLL/ALP DATE 2-10

CONST. NO.

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION



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: 1 BARREL AT 18'-0"
CLEAR HEIGHTS 15'-0" THRU 18'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-128

Std_Drwgs\Tnboxes\Tnboxes\1-6-10\Rigid Culvert Files 1-6-10\18' Span\STD-17-125¢126¢127¢128_1barrel_slab18'.dgn
Mon Jan 25 08:36:36 2010