CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 18 x 12 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	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	10.50	6	2	12	10.50	4	2	12	10.50	107	72	3	3	1.67	1.67	2.60	624
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	10.50	5	4	6	10.50	4	2	12	10.50	107	72	3	3	1.67	1.67	2.90	635
	5	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	4	2	12	10.50	6	4	6	10.50	4	2	12	10.50	145	0	3	3	1.67	1.67	3.02	633
	10	20	9	8	38.17	9	2	6	37.67	7	2	6	37.67	4	2	12	10.50	7	4	6	10.50	4	2	12	10.50	145	0	3	3	1.75	1.67	3.57	712
Moment Break	20	20	11	8	38.50	4	2	12	18.66	11	2	6	38.00	4	2	12	10.50	7	4	6	10.50	5	2	12	10.50	145	0	3	3	1.92	1.67	3.74	739
	30	29	13	8	38.83	4	2	12	18.66	10	2	6	38.33	4	2	12	10.50	7	4	6	10.50	6	2	12	10.50	145	0	3	3	2.08	1.67	4.99	675
	40	36	15	8	39.17	4	2	12	18.66	10	2	6	38.67	4	2	12	10.50	6	4	6	10.50	7	2	12	10.50	147	0	3	3	2.25	1.67	6.01	668
	50	41	16	8	39.33	4	2	12	18.66	10	2	6	38.83	4	2	12	10.50	6	4	6	10.50	8	2	12	10.50	147	0	3	3	2.33	1.67	6.71	683
	60	46	18	9	39.75	4	2	12	18.66	10	2	6	39.25	4	2	12	10.50	7	2	12	10.50	6	4	6	10.50	147	0	3	3	2.50	1.75	7.56	674

2 @ 18 x 13 REINFORCED CONCRETE SLAB BRIDGE

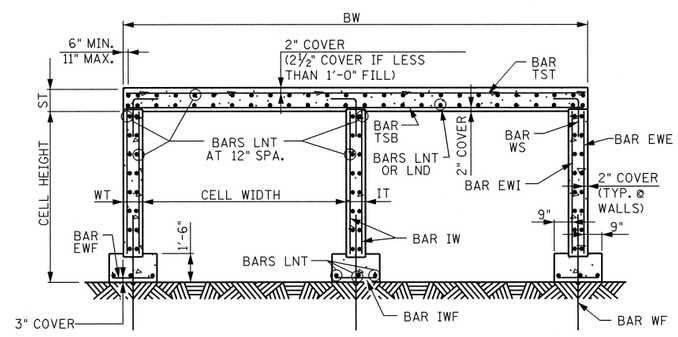
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	11.50	5	4	6	11.50	5	2	12	11.50	113	72	3	3	1.67	1.67	2.68	656
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	11.50	6	4	6	11.50	5	2	12	11.50	113	72	3	3	1.67	1.67	2.97	676
	5	16	8	8	38.00	8	2	6	37.50	7	2	6	37.50	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	151	0	3	3	1.67	1.67	3.09	679
	10	20	9	8	38.17	9	2	6	37.67	7	2	6	37.67	4	2	12	11.50	8	4	6	11.50	5	2	12	11.50	151	0	3	3	1.75	1.67	3.65	765
Moment Break	20	20	12	8	38.67	4	2	12	18.66	11	2	6	38.17	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	151	0	3	3	2.00	1.67	3.92	757
	30	29	14	8	39.00	4	2	12	18.66	10	2	6	38.50	4	2	12	11.50	7	4	6	11.50	6	2	12	11.50	153	0	3	3	2.17	1.67	5.19	695
	40	36	16	8	39.33	4	2	12	18.66	10	2	6	38.83	4	2	12	11.50	7	4	6	11.50	7	2	12	11.50	153	0	3	3	2.33	1.67	6.23	710
	50	41	18	9	39.75	4	2	12	18.66	10	2	6	39.25	4	2	12	11.50	6	4	6	11.50	6	2	12	11.50	153	0	3	3	2.50	1.75	7.09	677
	60	46	20	9	40.08	4	2	12	18.66	10	2	6	39.58	4	2	12	11.50	6	4	6	11.50	6	4	6	11.50	155	0	3	3	2.67	1.75	7.91	716

2 @ 18 x 14 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	12.5	8	8	38.00	7	2	6	37.50	8	2	6	37.50	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	119	72	3	3	1.67	1.67	2.75	690
	3	15	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	119	72	3	3	1.67	1.67	3.05	717
	5	16	9	8	38.17	8	2	6	37.67	7	2	6	37.67	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	157	0	3	3	1.75	1.67	3.26	697
	10	20	10	8	38.33	9	2	6	37.83	7	2	6	37.83	4	2	12	12.50	8	4	6	12.50	5	2	12	12.50	157	0	3	3	1.83	1.67	3.83	785
Moment Break	20	20	13	8	38.83	4	2	12	18.66	11	2	6	38.33	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	157	0	3	3	2.08	1.67	4.12	774
	30	29	15	8	39.17	4	2	12	18.66	10	2	6	38.67	4	2	12	12.50	8	4	6	12.50	6	2	12	12.50	159	0	3	3	2.25	1.67	5.40	744
	40	36	17	8	39.50	4	2	12	18.66	10	2	6	39.00	4	2	12	12.50	8	4	6	12.50	7	2	12	12.50	159	0	3	3	2.42	1.67	6.45	761
	50	41	19	9	39.92	4	2	12	18.66	10	2	6	39.42	4	2	12	12.50	7	4	6	12.50	6	2	12	12.50	159	0	3	3	2.58	1.75	7.33	720
	60	46	21	10	40.33	4	2	12	18.66	10	2	6	39.83	4	2	12	12.50	7	4	6	12.50	5	4	6	12.50	161	0	3	3	2.75	1.83	8.22	739

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 = 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 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-17-147

DGN @ 100%
DATE 2/10/2010
TIME 08:43
D:\Projects\Tdot\Boxes\Tables\1-6-10\Off Hold Culvert Files 1-6-10\18' Span\STD-17-145&146&147&148_2BARREL_SLAB18'.dgn