CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 18 x 9 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	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	124	108	4	4	1.67	1.67	2.93	922
	3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	124	108	4	4	1.67	1.67	3.54	921
	5	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	180	0	4	4	1.67	1.67	3.72	816
	10	20	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	7.50	6	2	12	7.50	4	4	12	7.50	180	0	4	4	1.67	1.67	4.41	823
Moment Break	20	20	8	8	56.67	4	3	12	18.66	11	2	6	56.17	4	2	12	7.50	5	4	6	7.50	5	4	12	7.50	180	0	4	4	1.67	1.67	4.41	949
	30	29	9	8	56.83	4	3	12	18.66	10	2	6	56.33	4	2	12	7.50	5	4	6	7.50	4	8	6	7.50	180	0	4	4	1.75	1.67	6.06	846
	40	36	11	8	57.17	4	3	12	18.66	10	2	6	56.67	4	2	12	7.50	5	2	12	7.50	7	4	12	7.50	182	0	4	4	1.92	1.67	7.44	856
	50	41	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	7.50	5	2	12	7.50	6	8	6	7.50	182	0	4	4	2.00	1.67	8.39	886
	60	46	13	9	57.67	4	3	12	18.66	10	2	6	57.17	4	2	12	7.50	5	2	12	7.50	6	8	6	7.50	182	0	4	4	2.08	1.75	9.41	889

3 @ 18 x 10 REINFORCED CONCRETE SLAB BRIDGE

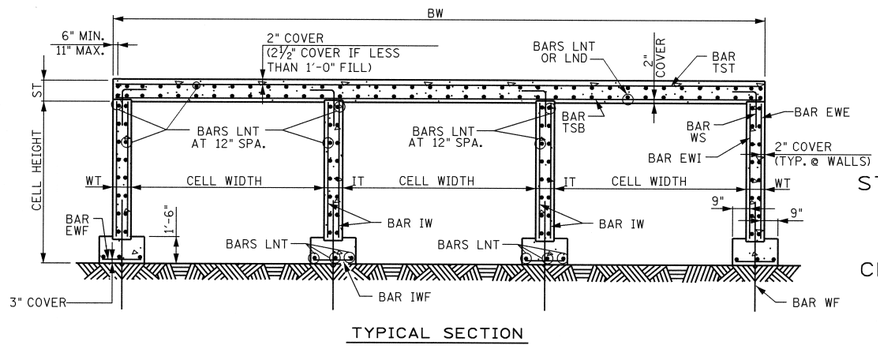
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	132	108	4	4	1.67	1.67	3.00	934
	3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	132	108	4	4	1.67	1.67	3.61	932
	5	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	8.50	6	2	12	8.50	4	4	12	8.50	188	0	4	4	1.67	1.67	3.79	835
	10	20	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	8.50	5	4	6	8.50	4	4	12	8.50	188	0	4	4	1.67	1.67	4.49	845
Moment Break	20	20	9	8	56.83	4	3	12	18.66	11	2	6	56.33	4	2	12	8.50	6	4	6	8.50	5	4	12	8.50	188	0	4	4	1.75	1.67	4.56	982
	30	29	11	8	57.17	4	3	12	18.66	10	2	6	56.67	4	2	12	8.50	5	4	6	8.50	4	8	6	8.50	190	0	4	4	1.92	1.67	6.29	866
	40	36	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	8.50	5	4	6	8.50	7	4	12	8.50	190	0	4	4	2.00	1.67	7.61	892
	50	41	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	8.50	6	2	12	8.50	6	8	6	8.50	190	0	4	4	2.08	1.67	8.58	916
	60	46	15	9	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	8.50	5	2	12	8.50	6	8	6	8.50	190	0	4	4	2.25	1.75	9.69	913

3 @ 18 x 11 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	11.5	8	8	56.67	8	2	6	56.17	8	2	6	56.17	4	2	12	9.50	5	2	12	9.50	4	4	12	9.50	140	108	4	4	1.67	1.67	3.08	945
	3	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	4	2	12	9.50	6	2	12	9.50	4	4	12	9.50	140	108	4	4	1.67	1.67	3.69	953
	5	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	9.50	6	2	12	9.50	4	4	12	9.50	196	0	4	4	1.67	1.67	3.86	847
	10	20	8	8	56.67	11	1	12	56.17	7	2	6	56.17	4	2	12	9.50	6	4	6	9.50	4	4	12	9.50	196	0	4	4	1.67	1.67	4.56	876
Moment Break	20	20	10	8	57.00	4	3	12	18.66	11	2	6	56.50	4	2	12	9.50	6	4	6	9.50	5	4	12	9.50	198	0	4	4	1.83	1.67	4.72	1002
	30	29	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	9.50	6	4	6	9.50	4	8	6	9.50	198	0	4	4	2.00	1.67	6.47	902
	40	36	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	9.50	6	4	6	9.50	7	4	12	9.50	198	0	4	4	2.08	1.67	7.79	930
	50	41	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	9.50	6	4	6	9.50	8	4	12	9.50	198	0	4	4	2.25	1.67	8.86	957
	60	46	16	9	58.17	4	3	12	18.66	10	2	6	57.67	4	2	12	9.50	5	4	6	9.50	6	8	6	9.50	200	0	4	4	2.33	1.75	9.90	957

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. = 2 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: 3 BARRELS AT 18'-0" CLEAR HEIGHTS 9'-0" THRU 11'-0" 0' THRU 60' FILL 2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-17-166

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

Bid Projects\Boxes\Tables\1-6-10\Official Culvert Files 1-6-10\S Spans\STD-17-165¢166¢167¢168_3barrel_slab18'.dgn
Date: 2-2010