CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 16 x 6 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	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	94	48	4	4	1.67	1.67	2.49	672
	3	15	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	94	48	4	4	1.67	1.67	3.04	672
	5	15	8	8	50.67	8	2	6	50.17	7	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	144	0	4	4	1.67	1.67	3.04	719
	10	18	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	144	0	4	4	1.67	1.67	3.51	656
Moment Break	20	19	8	8	50.67	4	3	12	16.66	10	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	4	12	4.50	144	0	4	4	1.67	1.67	3.67	711
	30	26	8	8	50.67	4	3	12	16.66	9	2	6	50.17	4	2	12	4.50	5	2	12	4.50	4	8	6	4.50	144	0	4	4	1.67	1.67	4.76	632
	40	32	8	8	50.67	4	3	12	16.66	9	2	6	50.17	4	2	12	4.50	5	2	12	4.50	5	8	6	4.50	144	0	4	4	1.67	1.67	5.70	646
	50	37	8	8	50.67	4	3	12	16.66	10	2	6	50.17	4	2	12	4.50	5	2	12	4.50	6	8	6	4.50	144	0	4	4	1.67	1.67	6.48	753
	60	41	9	8	50.83	4	3	12	16.66	10	2	6	50.33	4	2	12	4.50	5	2	12	4.50	6	8	6	4.50	144	0	4	4	1.75	1.67	7.16	754

3 @ 16 x 7 REINFORCED CONCRETE SLAB BRIDGE

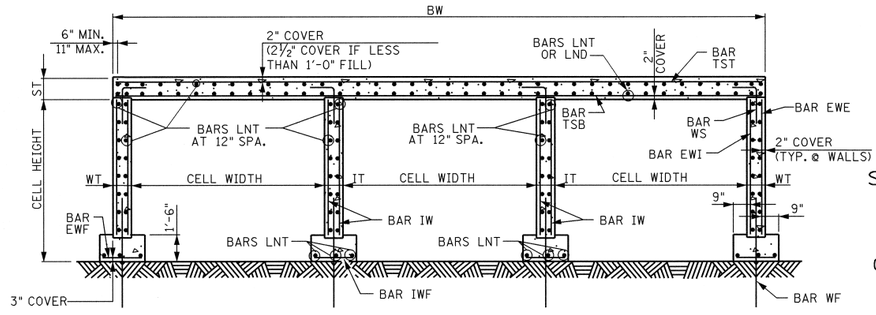
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	102	48	4	4	1.67	1.67	2.57	684
	3	15	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	102	48	4	4	1.67	1.67	3.11	684
	5	15	8	8	50.67	8	2	6	50.17	7	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	152	0	4	4	1.67	1.67	3.11	730
	10	18	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	152	0	4	4	1.67	1.67	3.58	667
Moment Break	20	19	8	8	50.67	4	3	12	16.66	10	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	4	12	5.50	152	0	4	4	1.67	1.67	3.74	722
	30	26	8	8	50.67	4	3	12	16.66	9	2	6	50.17	4	2	12	5.50	5	2	12	5.50	4	8	6	5.50	152	0	4	4	1.67	1.67	4.83	646
	40	32	9	8	50.83	4	3	12	16.66	9	2	6	50.33	4	2	12	5.50	5	2	12	5.50	5	8	6	5.50	152	0	4	4	1.75	1.67	5.83	664
	50	37	9	8	50.83	4	3	12	16.66	10	2	6	50.33	4	2	12	5.50	5	2	12	5.50	6	8	6	5.50	152	0	4	4	1.75	1.67	6.62	775
	60	41	10	8	51.00	4	3	12	16.66	10	2	6	50.50	4	2	12	5.50	5	2	12	5.50	6	8	6	5.50	154	0	4	4	1.83	1.67	7.31	778

3 @ 16 x 8 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	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	110	48	4	4	1.67	1.67	2.64	695
	3	15	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	110	48	4	4	1.67	1.67	3.19	695
	5	15	8	8	50.67	8	2	6	50.17	7	2	6	50.17	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	160	0	4	4	1.67	1.67	3.19	741
	10	18	8	8	50.67	7	2	6	50.17	7	2	6	50.17	4	2	12	6.50	5	2	12	6.50	4	4	12	6.50	160	0	4	4	1.67	1.67	3.66	679
Moment Break	20	19	8	8	50.67	4	3	12	16.66	10	2	6	50.17	4	2	12	6.50	6	2	12	6.50	4	4	12	6.50	160	0	4	4	1.67	1.67	3.81	740
	30	26	9	8	50.83	4	3	12	16.66	9	2	6	50.33	4	2	12	6.50	5	2	12	6.50	4	8	6	6.50	160	0	4	4	1.75	1.67	4.97	662
	40	32	10	8	51.00	4	3	12	16.66	9	2	6	50.50	4	2	12	6.50	5	2	12	6.50	5	8	6	6.50	162	0	4	4	1.83	1.67	5.98	684
	50	37	11	8	51.17	4	3	12	16.66	10	2	6	50.67	4	2	12	6.50	5	2	12	6.50	6	8	6	6.50	162	0	4	4	1.92	1.67	6.83	800
	60	41	12	8	51.33	4	3	12	16.66	10	2	6	50.83	4	2	12	6.50	5	2	12	6.50	6	8	6	6.50	162	0	4	4	2.00	1.67	7.54	802

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 = 5 Spacing = 12 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 16'-0" CLEAR HEIGHTS 6'-0" THRU 8'-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-17-162

Bid Of Jobs\Standards\tables\1-6-10\Official Culverts Files 1-6-10\16' Span\STD-17-162¢163¢164_3barrel_slab16'.dgn
Mon Apr 26 08:30:47 2010