CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 8 x 6 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.67	6	2	6	26.17	6	2	6	26.17	4	2	6	27.17	6	1	12	27.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	128	48	8	2.31	513
	3	12	12	8	8	26.67	9	1	12	26.17	7	2	6	26.17	4	2	6	27.17	5	2	6	27.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	128	48	8	2.60	568
	5	11	11	8	8	26.67	7	1	12	26.17	5	2	6	26.17	4	2	6	27.17	7	1	12	27.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	154	0	8	2.44	446
	10	11	11	8	8	26.67	5	2	6	26.17	5	2	6	26.17	6	1	12	27.17	5	2	6	27.17	4	2	12	6.00	6	2	12	6.00	4	4	12	6.00	154	0	8	2.44	458
Moment Break	20	10	11	8	8	26.67	4	3	12	8.66	7	2	6	26.17	7	2	6	27.17	4	3	12	8.66	4	2	12	6.00	6	2	12	6.00	4	4	12	6.00	154	0	8	2.35	504
	30	14	15	9	8	26.83	4	3	12	8.66	7	2	6	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	6.00	6	2	12	6.00	4	4	12	6.00	154	0	8	3.08	487
	40	18	18	10	8	27.00	4	3	12	8.66	7	2	6	26.50	9	1	12	27.50	4	3	12	8.66	4	2	12	6.00	6	2	12	6.00	5	4	12	6.00	158	0	8	3.72	500
	50	21	21	11	8	27.17	4	3	12	8.66	7	2	6	26.67	7	2	6	27.67	4	3	12	8.66	4	2	12	6.00	6	2	12	6.00	5	4	12	6.00	158	0	8	4.29	520
	60	24	24	12	8	27.33	4	3	12	8.66	7	2	6	26.83	7	2	6	27.83	4	3	12	8.66	4	2	12	6.00	5	2	12	6.00	4	8	6	6.00	158	0	8	4.86	523

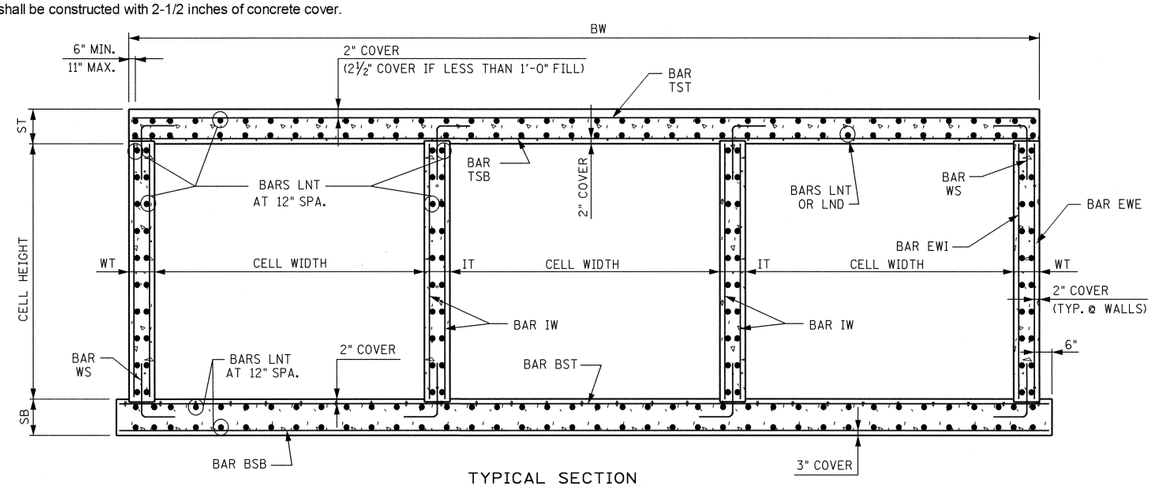
3 @ 8 x 7 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.67	6	2	6	26.17	6	2	6	26.17	4	2	6	27.17	6	1	12	27.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	136	48	8	2.41	525
	3	12	12	8	8	26.67	9	1	12	26.17	7	2	6	26.17	4	2	6	27.17	4	2	6	27.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	136	48	8	2.70	559
	5	11	11	8	8	26.67	7	1	12	26.17	5	2	6	26.17	4	2	6	27.17	7	1	12	27.17	4	2	12	7.00	6	2	12	7.00	4	4	12	7.00	162	0	8	2.54	464
	10	11	11	8	8	26.67	5	2	6	26.17	5	2	6	26.17	6	1	12	27.17	5	2	6	27.17	4	2	12	7.00	6	2	12	7.00	4	4	12	7.00	162	0	8	2.54	471
Moment Break	20	10	11	8	8	26.67	4	3	12	8.66	7	2	6	26.17	7	2	6	27.17	4	3	12	8.66	4	2	12	7.00	7	2	12	7.00	4	4	12	7.00	162	0	8	2.45	524
	30	14	16	10	8	27.00	4	3	12	8.66	7	2	6	26.50	6	2	6	27.50	4	3	12	8.66	4	2	12	7.00	5	4	6	7.00	4	4	12	7.00	166	0	8	3.33	501
	40	18	19	11	8	27.17	4	3	12	8.66	7	2	6	26.67	9	1	12	27.67	4	3	12	8.66	4	2	12	7.00	5	4	6	7.00	5	4	12	7.00	166	0	8	3.98	523
	50	21	21	12	8	27.33	4	3	12	8.66	7	2	6	26.83	7	2	6	27.83	4	3	12	8.66	4	2	12	7.00	7	2	12	7.00	5	4	12	7.00	166	0	8	4.47	543
	60	24	24	13	8	27.50	4	3	12	8.66	7	2	6	27.00	7	2	6	28.00	4	3	12	8.66	4	2	12	7.00	5	4	6	7.00	4	8	6	7.00	166	0	8	5.06	553

3 @ 8 x 8 REINFORCED CONCRETE BOX BRIDGE

	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB 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.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	10	8	8	26.67	6	2	6	26.17	6	2	6	26.17	4	2	6	27.17	6	1	12	27.17	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	144	48	8	2.51	536
	3	12	12	8	8	26.67	9	1	12	26.17	7	2	6	26.17	4	2	6	27.17	4	2	6	27.17	4	2	12	8.00	5	2	12	8.00	4	4	12	8.00	144	48	8	2.80	570
	5	11	11	8	8	26.67	7	1	12	26.17	5	2	6	26.17	4	2	6	27.17	7	1	12	27.17	4	2	12	8.00	6	2	12	8.00	4	4	12	8.00	170	0	8	2.63	476
	10	11	11	8	8	26.67	5	2	6	26.17	5	2	6	26.17	6	1	12	27.17	5	2	6	27.17	4	2	12	8.00	5	4	6	8.00	4	4	12	8.00	170	0	8	2.63	492
Moment Break	20	10	12	9	8	26.83	4	3	12	8.66	7	2	6	26.33	9	1	12	27.33	4	3	12	8.66	4	2	12	8.00	6	4	6	8.00	4	4	12	8.00	170	0	8	2.70	536
	30	14	16	11	8	27.17	4	3	12	8.66	7	2	6	26.67	9	1	12	27.67	4	3	12	8.66	4	2	12	8.00	6	4	6	8.00	4	4	12	8.00	174	0	8	3.50	541
	40	18	19	12	8	27.33	4	3	12	8.66	7	2	6	26.83	9	1	12	27.83	4	3	12	8.66	4	2	12	8.00	6	4	6	8.00	5	4	12	8.00	174	0	8	4.17	554
	50	21	21	14	8	27.67	4	3	12	8.66	7	2	6	27.17	7	2	6	28.17	4	3	12	8.66	4	2	12	8.00	6	4	6	8.00	5	4	12	8.00	174	0	8	4.74	576
	60	24	24	15	8	27.83	4	3	12	8.66	7	2	6	27.33	7	2	6	28.33	4	3	12	8.66	4	2	12	8.00	6	4	6	8.00	4	8	6	8.00	174	0	8	5.33	587

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.



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 BOX BRIDGE
INTERIOR SECTION
SPANS: 3 BARRELS AT 8'-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