CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 18 x 9 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	11.5	11	8	8	56.67	8	2	6	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	9.00	5	2	12	9.00	4	4	12	9.00	242	108	8	4.86	1401
	3	15	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	9.00	6	2	12	9.00	4	4	12	9.00	242	108	8	6.18	1407
	5	16	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	7	2	6	57.17	8	2	6	57.17	4	2	12	9.00	5	4	6	9.00	4	4	12	9.00	298	0	8	6.53	1446
	10	20	20	8	8	56.67	11	1	12	56.17	7	2	6	56.17	7	2	6	57.17	8	2	6	57.17	4	2	12	9.00	6	4	6	9.00	4	4	12	9.00	298	0	8	7.95	1463
Moment Break	20	20	20	9	8	56.83	4	3	12	18.66	11	2	6	56.33	10	2	6	57.33	4	3	12	18.66	4	2	12	9.00	7	4	6	9.00	5	4	12	9.00	298	0	8	8.02	1596
	30	29	29	11	8	57.17	4	3	12	18.66	10	2	6	56.67	10	2	6	57.67	4	3	12	18.66	4	2	12	9.00	6	4	6	9.00	4	8	6	9.00	302	0	8	11.38	1481
	40	36	36	13	8	57.50	4	3	12	18.66	10	2	6	57.00	10	2	6	58.00	4	3	12	18.66	4	2	12	9.00	5	4	6	9.00	5	8	6	9.00	302	0	8	14.06	1498
	50	41	42	14	8	57.67	4	3	12	18.66	10	2	6	57.17	10	2	6	58.17	4	3	12	18.66	4	2	12	9.00	7	2	12	9.00	6	8	6	9.00	302	0	8	16.12	1533
	60	46	47	15	9	58.00	4	3	12	18.66	10	2	6	57.50	10	2	6	58.50	4	3	12	18.66	4	2	12	9.00	6	2	12	9.00	6	8	6	9.00	302	0	8	18.13	1529

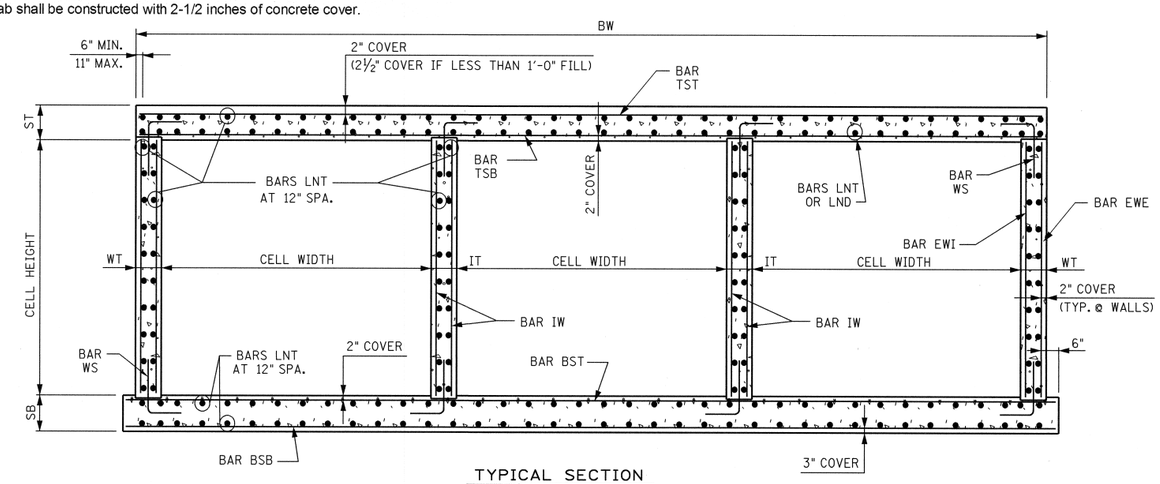
3 @ 18 x 10 REINFORCED CONCRETE BOX BRIDGE

	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	11.5	11	8	8	56.67	8	2	6	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	10.00	6	2	12	10.00	4	4	12	10.00	250	108	8	4.96	1421
	3	15	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	10.00	5	4	6	10.00	4	4	12	10.00	250	108	8	6.28	1432
	5	16	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	7	2	6	57.17	7	2	6	57.17	4	2	12	10.00	5	4	6	10.00	4	4	12	10.00	306	0	8	6.63	1388
	10	20	20	8	8	56.67	11	1	12	56.17	7	2	6	56.17	7	2	6	57.17	8	2	6	57.17	4	2	12	10.00	7	4	6	10.00	4	4	12	10.00	306	0	8	8.05	1500
Moment Break	20	20	20	10	8	57.00	4	3	12	18.66	11	2	6	56.50	10	2	6	57.50	4	3	12	18.66	4	2	12	10.00	7	4	6	10.00	5	4	12	10.00	310	0	8	8.21	1621
	30	29	29	12	8	57.33	4	3	12	18.66	10	2	6	56.83	10	2	6	57.83	4	3	12	18.66	4	2	12	10.00	6	4	6	10.00	6	4	12	10.00	310	0	8	11.59	1509
	40	36	36	14	8	57.67	4	3	12	18.66	10	2	6	57.17	10	2	6	58.17	4	3	12	18.66	4	2	12	10.00	6	4	6	10.00	5	8	6	10.00	310	0	8	14.28	1538
	50	41	42	16	8	58.00	4	3	12	18.66	10	2	6	57.50	10	2	6	58.50	4	3	12	18.66	4	2	12	10.00	6	4	6	10.00	6	8	6	10.00	314	0	8	16.47	1583
	60	46	47	17	9	58.33	4	3	12	18.66	10	2	6	57.83	10	2	6	58.83	4	3	12	18.66	4	2	12	10.00	5	4	6	10.00	6	8	6	10.00	314	0	8	18.49	1571

3 @ 18 x 11 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	11.5	11	8	8	56.67	8	2	6	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	11.00	6	2	12	11.00	4	4	12	11.00	258	108	8	5.06	1434
	3	15	15	8	8	56.67	11	1	12	56.17	8	2	6	56.17	6	2	6	57.17	7	2	6	57.17	4	2	12	11.00	7	2	12	11.00	4	4	12	11.00	258	108	8	6.38	1444
	5	16	16	8	8	56.67	11	1	12	56.17	7	2	6	56.17	9	1	12	57.17	7	2	6	57.17	4	2	12	11.00	7	4	6	11.00	4	4	12	11.00	314	0	8	6.73	1407
	10	20	20	9	8	56.83	11	1	12	56.33	7	2	6	56.33	9	1	12	57.33	8	2	6	57.33	4	2	12	11.00	7	4	6	11.00	4	4	12	11.00	314	0	8	8.23	1481
Moment Break	20	20	20	11	8	57.17	4	3	12	18.66	11	2	6	56.67	10	2	6	57.67	4	3	12	18.66	4	2	12	11.00	7	4	6	11.00	5	4	12	11.00	318	0	8	8.41	1643
	30	29	30	13	8	57.50	4	3	12	18.66	10	2	6	57.00	10	2	6	58.00	4	3	12	18.66	4	2	12	11.00	7	4	6	11.00	6	4	12	11.00	318	0	8	11.99	1554
	40	36	36	15	8	57.83	4	3	12	18.66	10	2	6	57.33	10	2	6	58.33	4	3	12	18.66	4	2	12	11.00	7	4	6	11.00	5	8	6	11.00	318	0	8	14.52	1586
	50	41	42	17	8	58.17	4	3	12	18.66	10	2	6	57.67	10	2	6	58.67	4	3	12	18.66	4	2	12	11.00	6	4	6	11.00	6	8	6	11.00	322	0	8	16.73	1611
	60	46	47	19	9	58.67	4	3	12	18.66	10	2	6	58.17	10	2	6	59.17	4	3	12	18.66	4	2	12	11.00	6	4	6	11.00	6	8	6	11.00	322	0	8	18.89	1619

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.



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 18'-0"
CLEAR HEIGHTS 9'-0" THRU 11'-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-17-106