CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 16 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	11.5	11	8	8	34.00	10	1	12	33.50	8	2	6	33.50	7	1	12	34.50	8	2	6	34.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	140	64	6	2.84	823
	3	14	14	8	8	34.00	7	2	6	33.50	7	2	6	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	140	64	6	3.43	730
	5	15	15	8	8	34.00	11	1	12	33.50	6	2	6	33.50	8	1	12	34.50	8	2	6	34.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	174	0	6	3.64	780
	10	18	18	8	8	34.00	9	2	6	33.50	6	2	6	33.50	9	1	12	34.50	9	2	6	34.50	4	2	12	6.00	5	2	12	6.00	4	2	12	6.00	174	0	6	4.28	905
Moment Break	20	19	19	8	8	34.00	4	2	12	16.66	10	2	6	33.50	10	2	6	34.50	4	2	12	16.66	4	2	12	6.00	5	2	12	6.00	5	2	12	6.00	174	0	6	4.49	859
	30	26	26	8	8	34.00	4	2	12	16.66	9	2	6	33.50	9	2	6	34.50	4	2	12	16.66	4	2	12	6.00	5	2	12	6.00	4	4	6	6.00	174	0	6	5.98	740
	40	32	32	9	8	34.17	4	2	12	16.66	9	2	6	33.67	9	2	6	34.67	4	2	12	16.66	4	2	12	6.00	5	2	12	6.00	5	4	6	6.00	174	0	6	7.33	751
	50	37	37	10	8	34.33	4	2	12	16.66	10	2	6	33.83	10	2	6	34.83	4	2	12	16.66	4	2	12	6.00	5	2	12	6.00	6	4	6	6.00	174	0	6	8.47	888
	60	41	42	11	8	34.50	4	2	12	16.66	10	2	6	34.00	10	2	6	35.00	4	2	12	16.66	4	2	12	6.00	5	2	12	6.00	6	4	6	6.00	174	0	6	9.52	891

2 @ 16 x 7 REINFORCED CONCRETE BOX BRIDGE

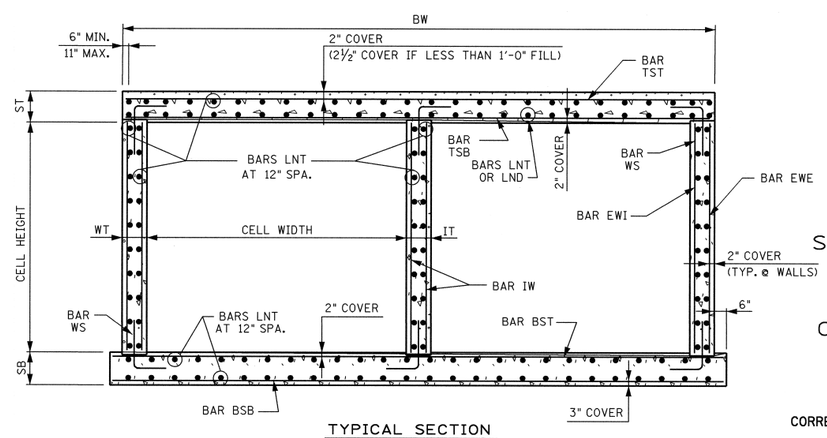
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bars EWI Size	No.	Spacing 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	11.5	11	8	8	34.00	10	1	12	33.50	8	2	6	33.50	7	1	12	34.50	8	2	6	34.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	146	64	6	2.91	831
	3	14	14	8	8	34.00	7	2	6	33.50	7	2	6	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	146	64	6	3.50	739
	5	15	15	8	8	34.00	11	1	12	33.50	6	2	6	33.50	8	1	12	34.50	8	2	6	34.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	180	0	6	3.71	789
	10	18	18	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	8	2	6	34.50	4	2	12	7.00	6	2	12	7.00	4	2	12	7.00	180	0	6	4.35	856
Moment Break	20	19	19	8	8	34.00	4	2	12	16.66	10	2	6	33.50	10	2	6	34.50	4	2	12	16.66	4	2	12	7.00	6	2	12	7.00	5	2	12	7.00	180	0	6	4.56	875
	30	26	26	9	8	34.17	4	2	12	16.66	9	2	6	33.67	9	2	6	34.67	4	2	12	16.66	4	2	12	7.00	6	2	12	7.00	4	4	6	7.00	180	0	6	6.13	759
	40	32	32	10	8	34.33	4	2	12	16.66	9	2	6	33.83	9	2	6	34.83	4	2	12	16.66	4	2	12	7.00	5	2	12	7.00	7	2	12	7.00	180	0	6	7.49	764
	50	37	37	11	8	34.50	4	2	12	16.66	10	2	6	34.00	10	2	6	35.00	4	2	12	16.66	4	2	12	7.00	5	2	12	7.00	6	4	6	7.00	180	0	6	8.64	905
	60	41	42	12	8	34.67	4	2	12	16.66	10	2	6	34.17	10	2	6	35.17	4	2	12	16.66	4	2	12	7.00	5	2	12	7.00	6	4	6	7.00	180	0	6	9.70	908

2 @ 16 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	11.5	11	8	8	34.00	10	1	12	33.50	8	2	6	33.50	7	1	12	34.50	8	2	6	34.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	152	64	6	2.99	840
	3	14	14	8	8	34.00	7	2	6	33.50	7	2	6	33.50	7	1	12	34.50	7	2	6	34.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	152	64	6	3.57	748
	5	15	15	8	8	34.00	11	1	12	33.50	6	2	6	33.50	8	1	12	34.50	8	2	6	34.50	4	2	12	8.00	6	2	12	8.00	4	2	12	8.00	186	0	6	3.79	805
	10	18	18	8	8	34.00	9	2	6	33.50	6	2	6	33.50	6	2	6	34.50	8	2	6	34.50	4	2	12	8.00	6	2	12	8.00	4	2	12	8.00	186	0	6	4.43	866
Moment Break	20	19	19	9	8	34.17	4	2	12	16.66	10	2	6	33.67	10	2	6	34.67	4	2	12	16.66	4	2	12	8.00	5	4	6	8.00	5	2	12	8.00	186	0	6	4.71	898
	30	26	26	10	8	34.33	4	2	12	16.66	9	2	6	33.83	9	2	6	34.83	4	2	12	16.66	4	2	12	8.00	6	4	6	8.00	4	4	6	8.00	186	0	6	6.28	796
	40	32	33	12	8	34.67	4	2	12	16.66	9	2	6	34.17	9	2	6	35.17	4	2	12	16.66	4	2	12	8.00	5	4	6	8.00	7	2	12	8.00	186	0	6	7.85	797
	50	37	38	13	8	34.83	4	2	12	16.66	10	2	6	34.33	10	2	6	35.33	4	2	12	16.66	4	2	12	8.00	6	2	12	8.00	8	2	12	8.00	186	0	6	9.02	926
	60	41	42	14	8	35.00	4	2	12	16.66	10	2	6	34.50	10	2	6	35.50	4	2	12	16.66	4	2	12	8.00	5	2	12	8.00	6	4	6	8.00	190	0	6	9.98	929

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: 2 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-17-82

Bridge Drawings\Standards\Tables\1-6-10\Official Culvert Files 1-6-10\16' Span\STD-17-82&83&84_2barrel_box16'.dgn
Bridge Drawings
Jul-2010
Jul-11