3 @14 x 5 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	44.67	7	2	6	44.17	7	2	6	44.17	5	2	6	45.17	6	2	6	45.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	42	8	3.63	888
	3	14	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	7	1	12	45.17	8	1	12	45.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	174	42	8	4.40	871
	5	14	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	8	1	12	45.17	9	1	12	45.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	218	0	8	4.40	880
	10	16	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	8	1	12	45.17	7	2	6	45.17	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	218	0	8	4.95	901
Moment Break	20	17	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	5.00	5	2	12	5.00	4	4	12	5.00	218	0	8	5.23	949
	30	23	23	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	5.00	5	2	12	5.00	5	4	12	5.00	218	0	8	6.91	957
	40	29	29	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	5.00	5	2	12	5.00	6	4	12	5.00	218	0	8	8.58	966
	50	33	33	9	8	44.83	4	3	12	14.66	9	2	6	44.33	9	2	6	45.33	4	3	12	14.66	4	2	12	5.00	5	2	12	5.00	5	8	6	5.00	218	0	8	9.76	980
	60	37	37	10	8	45.00	4	3	12	14.66	9	2	6	44.50	9	2	6	45.50	4	3	12	14.66	4	2	12	5.00	5	2	12	5.00	6	8	6	5.00	222	0	8	10.95	1003

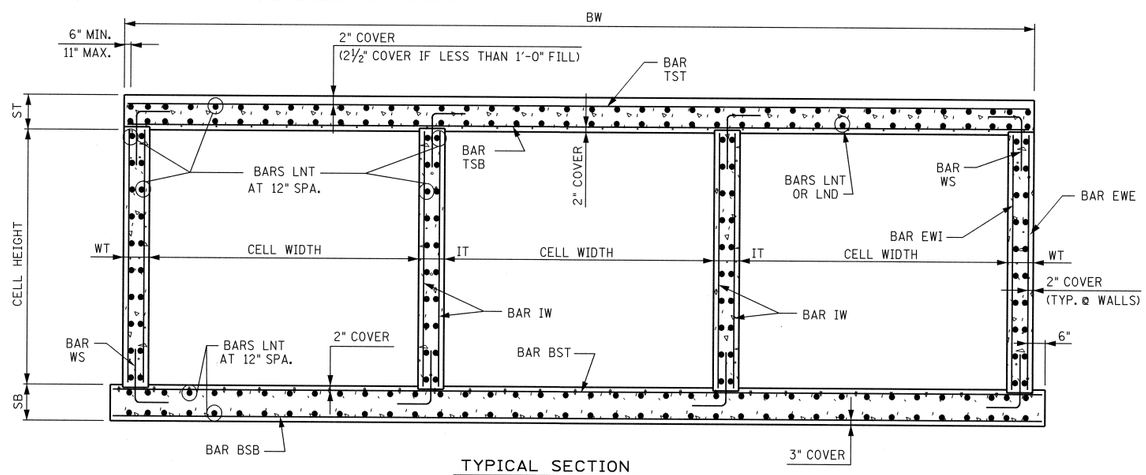
3 @14 x 6 REINFORCED CONCRETE BOX BRIDGE

	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	44.67	7	2	6	44.17	7	2	6	44.17	5	2	6	45.17	6	2	6	45.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	182	42	8	3.73	900
	3	14	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	7	1	12	45.17	8	1	12	45.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	182	42	8	4.50	883
	5	14	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	8	1	12	45.17	9	1	12	45.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	226	0	8	4.50	891
	10	16	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	8	1	12	45.17	7	2	6	45.17	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	226	0	8	5.05	913
Moment Break	20	17	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	6.00	5	2	12	6.00	4	4	12	6.00	226	0	8	5.33	961
	30	23	24	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	6.00	5	2	12	6.00	5	4	12	6.00	226	0	8	7.15	970
	40	29	29	9	8	44.83	4	3	12	14.66	9	2	6	44.33	9	2	6	45.33	4	3	12	14.66	4	2	12	6.00	5	2	12	6.00	6	4	12	6.00	226	0	8	8.74	983
	50	33	33	10	8	45.00	4	3	12	14.66	9	2	6	44.50	9	2	6	45.50	4	3	12	14.66	4	2	12	6.00	5	2	12	6.00	5	8	6	6.00	230	0	8	9.94	1002
	60	37	37	11	8	45.17	4	3	12	14.66	9	2	6	44.67	9	2	6	45.67	4	3	12	14.66	4	2	12	6.00	5	2	12	6.00	6	8	6	6.00	230	0	8	11.13	1026

3 @14 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	44.67	7	2	6	44.17	7	2	6	44.17	5	2	6	45.17	6	2	6	45.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	190	42	8	3.83	911
	3	14	14	8	8	44.67	7	2	6	44.17	7	2	6	44.17	7	1	12	45.17	8	1	12	45.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	190	42	8	4.59	894
	5	14	14	8	8	44.67	10	1	12	44.17	6	2	6	44.17	8	1	12	45.17	9	1	12	45.17	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	234	0	8	4.59	903
	10	16	16	8	8	44.67	7	2	6	44.17	6	2	6	44.17	8	1	12	45.17	7	2	6	45.17	4	2	12	7.00	6	2	12	7.00	4	4	12	7.00	234	0	8	5.15	931
Moment Break	20	17	17	8	8	44.67	4	3	12	14.66	9	2	6	44.17	9	2	6	45.17	4	3	12	14.66	4	2	12	7.00	5	4	6	7.00	4	4	12	7.00	234	0	8	5.43	987
	30	23	24	9	8	44.83	4	3	12	14.66	9	2	6	44.33	9	2	6	45.33	4	3	12	14.66	4	2	12	7.00	5	4	6	7.00	5	4	12	7.00	234	0	8	7.31	999
	40	29	29	10	8	45.00	4	3	12	14.66	9	2	6	44.50	9	2	6	45.50	4	3	12	14.66	4	2	12	7.00	6	2	12	7.00	6	4	12	7.00	238	0	8	8.92	1009
	50	33	33	12	8	45.33	4	3	12	14.66	9	2	6	44.83	9	2	6	45.83	4	3	12	14.66	4	2	12	7.00	5	2	12	7.00	7	4	12	7.00	238	0	8	10.20	1022
	60	37	37	13	8	45.50	4	3	12	14.66	9	2	6	45.00	9	2	6	46.00	4	3	12	14.66	4	2	12	7.00	5	2	12	7.00	6	8	6	7.00	238	0	8	11.41	1051

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 = 12 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.



TYPICAL SECTION

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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 14'-0"
CLEAR HEIGHTS 5'-0" THRU 7'-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-17-99

BLG_GF(NA)-KEDBOXES\KEDBWS\5-6-10\Cf Field Culvert Files 1-6-10\14' Span\STD-17-99¢100¢101_3barrel_box14'.dgn
BLG_GF(NA)-KEDBOXES\KEDBWS\5-6-10\Cf Field Culvert Files 1-6-10\14' Span\STD-17-99¢100¢101_3barrel_box14'.dgn