CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	8	8	8	44.66	7	2	6	44.16	6	2	6	44.16	4	2	6	45.16	7	1	12	45.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	42	8	3.06	758
	3	10	9	8	8	44.66	10	1	12	44.16	7	2	6	44.16	7	1	12	45.16	8	1	12	45.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	172	42	8	3.14	875
	5	10	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	216	0	8	3.28	874
	10	13	14	8	8	44.66	9	1	12	44.16	8	1	12	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	216	0	8	4.25	819
Moment Break	20	15	16	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	5.00	4	2	12	5.00	4	4	12	5.00	216	0	8	4.81	943
	30	22	23	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	5.00	5	4	12	5.00	4	4	12	5.00	216	0	8	6.76	951
	40	28	29	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	5.00	4	2	12	5.00	4	8	6	5.00	216	0	8	8.44	957
	50	32	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	4	2	12	5.00	7	4	12	5.00	216	0	8	9.62	973
	60	36	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	4	2	12	5.00	7	4	12	5.00	220	0	8	10.80	978

3 @14 x 6 REINFORCED CONCRETE BOX BRIDGE

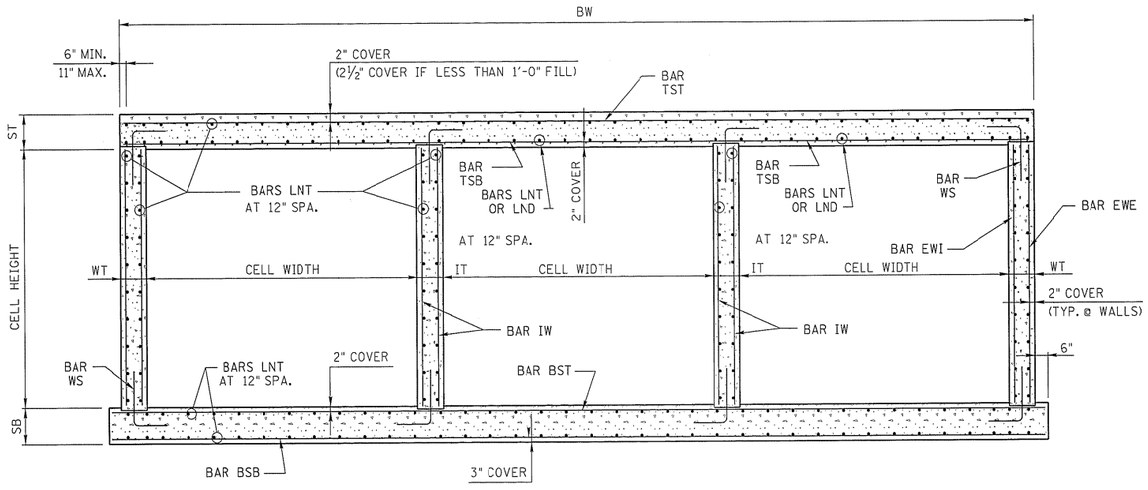
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	8	8	8	44.66	7	2	6	44.16	6	2	6	44.16	4	2	6	45.16	7	1	12	45.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	180	42	8	3.16	768
	3	10	9	8	8	44.66	10	1	12	44.16	7	2	6	44.16	7	1	12	45.16	8	1	12	45.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	180	42	8	3.23	886
	5	10	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	224	0	8	3.38	885
	10	13	14	8	8	44.66	9	1	12	44.16	8	1	12	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	224	0	8	4.35	830
Moment Break	20	15	16	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	6.00	4	2	12	6.00	4	4	12	6.00	224	0	8	4.91	954
	30	22	24	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	6.00	4	2	12	6.00	5	4	12	6.00	224	0	8	7.00	963
	40	28	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	4	2	12	6.00	4	8	6	6.00	224	0	8	8.60	973
	50	32	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	4	2	12	6.00	7	4	12	6.00	228	0	8	9.79	994
	60	36	37	11	8	45.16	4	3	12	14.66	9	2	6	44.66	9	2	6	45.66	4	3	12	14.66	4	2	12	6.00	4	2	12	6.00	7	4	12	6.00	228	0	8	10.99	996

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.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar 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	8	8	8	44.66	7	2	6	44.16	6	2	6	44.16	6	1	12	45.16	7	1	12	45.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	188	42	8	3.26	786
	3	10	9	8	8	44.66	10	1	12	44.16	7	2	6	44.16	7	1	12	45.16	8	1	12	45.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	188	42	8	3.33	896
	5	10	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	7.00	4	2	12	7.00	4	4	12	7.00	232	0	8	3.47	896
	10	13	14	8	8	44.66	9	1	12	44.16	8	1	12	44.16	8	1	12	45.16	9	1	12	45.16	4	2	12	7.00	5	2	12	7.00	4	4	12	7.00	232	0	8	4.45	846
Moment Break	20	15	16	8	8	44.66	4	3	12	14.66	9	2	6	44.16	9	2	6	45.16	4	3	12	14.66	4	2	12	7.00	4	4	6	7.00	4	4	12	7.00	232	0	8	5.01	974
	30	22	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	4	4	6	7.00	5	4	12	7.00	232	0	8	7.17	987
	40	28	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	5	2	12	7.00	4	8	6	7.00	236	0	8	8.78	996
	50	32	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	4	2	12	7.00	7	4	12	7.00	236	0	8	10.06	1015
	60	36	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	4	2	12	7.00	7	4	12	7.00	236	0	8	11.27	1018

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 top slab is the riding surface (No Fill), the concrete cover to the top mat of reinforcing shall be 2-1/2 inches.

The following bar information applies to all fill cases in the table 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 BOX BRIDGE

NOTE: FOR DESCRIPTIONS OF BOX DIMENSIONS AND REINFORCING BAR DESIGNATIONS SEE STANDARD DRAWING NO. STD-15-4.

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 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-82

DESIGNED BY IHAB YOUSSEF DATE 9-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY IHAB YOUSSEF DATE 6-00

DGN: TD2008\14\3barrel_2014
DW: 6/15/2001
TIME: 13:28