CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 8 x 3 REINFORCED CONCRETE BOX BRIDGE

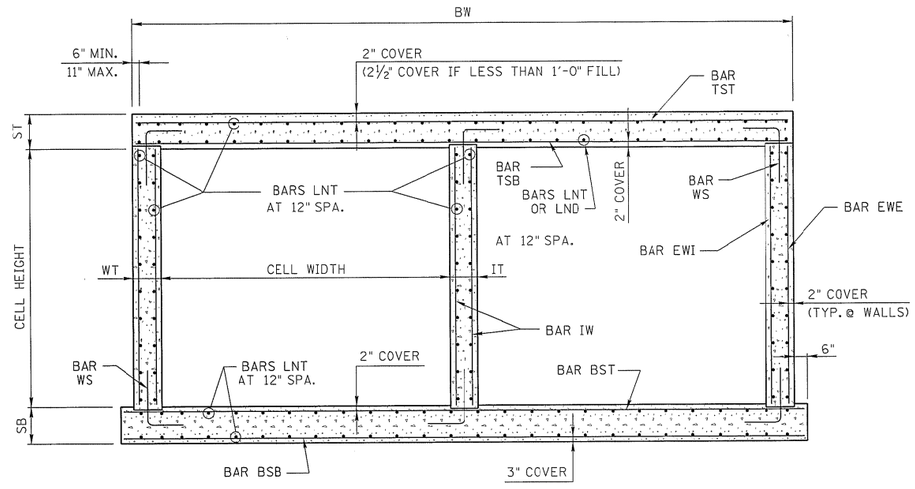
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	8.5	8	8	8	18.00	6	2	6	17.50	8	1	12	17.50	4	1	12	18.50	4	2	6	18.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	72	16	6	1.14	320
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	3.00	4	2	13	3.00	4	2	12	3.00	72	16	6	1.13	320
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	90	0	6	1.13	285
	10	8	9	8	8	18.00	6	2	6	17.50	6	1	12	17.50	6	1	12	18.50	6	2	6	18.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	90	0	6	1.19	314
Moment Break	20	10	11	8	8	18.00	4	2	12	8.66	7	2	6	17.50	7	2	6	18.50	4	2	12	8.66	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	90	0	6	1.42	322
	30	14	15	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	90	0	6	1.87	297
	40	17	18	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	3.00	4	2	12	3.00	5	2	12	3.00	90	0	6	2.22	299
	50	20	21	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	3.00	4	2	12	3.00	5	2	12	3.00	90	0	6	2.56	299
	60	22	23	8	8	18.00	4	2	12	8.66	7	2	6	17.50	7	2	6	18.50	4	2	12	8.66	4	2	12	3.00	4	2	12	3.00	4	4	6	3.00	90	0	6	2.79	326

2 @ 8 x 4 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	8.5	8	8	8	18.00	6	2	6	17.50	8	1	12	17.20	4	1	12	18.50	4	2	6	18.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	78	16	6	1.21	301
	3	8	8	8	8	18.00	9	1	12	17.50	8	1	12	17.50	5	1	12	18.50	7	1	12	18.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	78	16	6	1.20	328
	5	8	8	8	8	18.00	7	1	12	17.50	4	2	6	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	96	0	6	1.20	293
	10	8	10	8	8	18.00	6	2	6	17.50	6	1	12	17.50	4	2	6	18.50	8	1	12	18.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	96	0	6	1.32	313
Moment Break	20	10	11	8	8	18.00	4	2	12	8.66	7	2	6	17.50	7	2	6	18.50	4	2	12	8.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	96	0	6	1.49	330
	30	14	15	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	96	0	6	1.95	305
	40	17	18	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	4.00	4	2	12	4.00	5	2	12	4.00	96	0	6	2.29	308
	50	20	21	8	8	18.00	4	2	12	8.66	9	1	12	17.50	9	1	12	18.50	4	2	12	8.66	4	2	12	4.00	4	2	12	4.00	5	2	12	4.00	96	0	6	2.63	308
	60	22	23	9	9	18.17	4	2	12	8.66	7	2	6	17.66	7	2	6	18.36	4	2	12	8.66	4	2	12	4.00	4	2	12	4.00	4	4	6	4.00	96	0	6	2.91	337

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.



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: 2 BARRELS AT 8'-0" CLEAR HEIGHTS 3'-0" THRU 4'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-56

DESIGNED BY _____ DATE _____
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY _____ DATE _____

01x120928\a\2barrel.box8'.
12-28-01