CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 14 x 12 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	12.00	6	2	12	12.00	93	28	4	1.58	350
3	11	11	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	12.00	8	2	12	12.00	93	28	4	1.66	378
5	11	12	8	15.33	4	1	12	14.83	10	1	12	14.83	10	1	12	15.83	4	1	12	15.83	4	2	12	12.00	7	4	6	12.00	108	0	4	1.71	391
10	12	13	10	15.67	4	1	12	15.16	11	1	12	15.16	9	2	6	16.16	4	1	12	16.16	4	2	12	12.00	6	4	6	12.00	108	0	4	1.98	424
20	15	17	12	16.00	4	1	12	15.50	9	2	6	15.50	9	2	6	16.50	4	1	12	16.50	4	2	12	12.00	9	2	12	12.00	112	0	4	2.52	465
30	22	24	15	16.50	4	1	12	16.00	9	2	6	16.00	9	2	6	17.00	4	1	12	17.00	4	2	12	12.00	6	4	6	12.00	112	0	4	3.52	462
40	28	30	17	16.83	4	1	12	16.33	9	2	6	16.33	9	2	6	17.33	4	1	12	17.33	4	2	12	12.00	8	2	12	12.00	112	0	4	4.36	459
50	32	34	19	17.17	4	1	12	16.66	9	2	6	16.66	9	2	6	17.66	4	1	12	17.66	4	2	12	12.00	8	2	12	12.00	116	0	4	5.00	466
60	36	38	21	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	12.00	8	2	12	12.00	116	0	4	5.66	471

1 @ 14 x 13 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	13.00	8	2	12	13.00	97	28	4	1.63	387
3	11	11	9	15.50	4	1	12	15.00	11	1	12	15.00	7	2	6	16.00	4	1	12	16.00	4	2	12	13.00	8	2	12	13.00	97	28	4	1.80	388
5	11	12	9	15.50	4	1	12	15.00	10	1	12	15.00	11	1	12	16.00	4	1	12	16.00	4	2	12	13.00	9	2	12	13.00	112	0	4	1.85	404
10	12	13	10	15.67	4	1	12	15.16	11	1	12	15.16	9	2	6	16.16	4	1	12	16.16	4	2	12	13.00	10	2	12	13.00	112	0	4	2.05	469
20	15	18	13	16.17	4	1	12	15.66	9	2	6	15.66	9	2	6	16.66	4	1	12	16.66	4	2	12	13.00	7	4	6	13.00	116	0	4	2.74	495
30	22	25	16	16.67	4	1	12	16.16	9	2	6	16.16	9	2	6	17.16	4	1	12	17.16	4	2	12	13.00	9	2	12	13.00	116	0	4	3.77	485
40	28	30	18	17.00	4	1	12	16.50	9	2	6	16.50	9	2	6	17.50	4	1	12	17.50	4	2	12	13.00	9	2	12	13.00	120	0	4	4.58	493
50	32	34	21	17.50	4	1	12	17.00	9	2	6	17.00	9	2	6	18.00	4	1	12	18.00	4	2	12	13.00	6	4	6	13.00	120	0	4	5.35	490
60	36	38	23	17.83	4	1	12	17.33	9	2	6	17.33	9	2	6	18.33	4	1	12	18.33	4	2	12	13.00	6	4	6	13.00	120	0	4	6.03	495

1 @ 14 x 14 REINFORCED CONCRETE BOX BRIDGE

Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	10.5	10	8	15.33	4	1	12	14.83	11	1	12	14.83	7	2	6	15.83	4	1	12	15.83	4	2	12	14.00	9	2	12	14.00	101	28	4	1.68	471
3	11	11	9	15.50	4	1	12	15.00	11	1	12	15.00	10	2	12	16.00	4	1	12	16.00	4	2	12	14.00	9	2	12	14.00	101	28	4	1.86	422
5	11	12	10	15.67	4	1	12	15.16	10	1	12	15.16	11	1	12	16.16	4	1	12	16.16	4	2	12	14.00	9	2	12	14.00	116	0	4	2.01	416
10	12	13	11	15.83	4	1	12	15.33	11	1	12	15.33	9	2	6	16.33	4	1	12	16.33	4	2	12	14.00	10	2	12	14.00	116	0	4	2.21	483
20	15	18	14	16.33	4	1	12	15.83	9	2	6	15.83	9	2	6	16.83	4	1	12	16.83	4	2	12	14.00	10	2	12	14.00	120	0	4	2.92	516
30	22	25	17	16.83	4	1	12	16.33	9	2	6	16.33	9	2	6	17.33	4	1	12	17.33	4	2	12	14.00	7	4	6	14.00	120	0	4	3.98	517
40	28	30	20	17.33	4	1	12	16.83	9	2	6	16.83	9	2	6	17.83	4	1	12	17.83	4	2	12	14.00	9	2	12	14.00	124	0	4	4.92	509
50	32	34	22	17.67	4	1	12	17.16	9	2	6	17.16	9	2	6	18.16	4	1	12	18.16	4	2	12	14.00	7	4	6	14.00	124	0	4	5.60	533
60	36	38	24	18.00	4	1	12	17.50	9	2	6	17.50	9	2	6	18.50	4	1	12	18.50	4	2	12	14.00	7	4	6	14.00	128	0	4	6.30	541

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 = 4 Spacing = 6 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.

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: 1 BARREL AT 14'-0" CLEAR HEIGHTS 12'-0" THRU 14'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-44

DESIGNED BY STEPHANIE HASTINGS DATE 12-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY STEPHANIE HASTINGS DATE 6-00

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