CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 10 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	9.5	8	8	8	22.00	6	2	6	21.50	8	1	12	21.50	5	1	12	22.50	7	1	12	22.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	108	20	6	1.70	392
	3	9	9	8	8	22.00	9	1	12	21.50	8	1	12	21.50	4	2	6	22.50	8	1	12	22.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	108	20	6	1.76	421
	5	9	9	8	8	22.00	6	2	6	21.50	6	1	12	21.50	7	1	12	22.50	6	2	6	22.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	130	0	6	1.76	405
	10	9	11	8	8	22.00	7	2	6	21.50	7	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	130	0	6	1.91	454
Moment Break	20	11	13	8	8	22.00	4	2	12	10.66	11	1	12	21.50	11	1	12	22.50	4	2	12	10.66	4	2	12	7.00	7	2	12	7.00	4	2	12	7.00	130	0	6	2.18	476
	30	17	18	9	8	22.17	4	2	12	10.66	7	2	6	21.66	7	2	6	22.66	4	2	12	10.66	4	2	12	7.00	7	2	12	7.00	5	2	12	7.00	130	0	6	3.01	429
	40	21	22	11	8	22.50	4	2	12	10.66	7	2	6	22.00	10	1	12	23.00	4	2	12	10.66	4	2	12	7.00	4	4	6	7.00	5	2	12	7.00	130	0	6	3.70	427
	50	24	25	12	8	22.66	4	2	12	10.66	10	1	12	22.16	11	1	12	23.16	4	2	12	10.66	4	2	12	7.00	5	2	12	7.00	4	4	6	7.00	130	0	6	4.19	456
	60	26	28	13	8	22.83	4	2	12	10.66	11	1	12	22.33	11	1	12	23.33	4	2	12	10.66	4	2	12	7.00	5	2	12	7.00	7	2	12	7.00	130	0	6	4.62	490

2 @ 10 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.	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	9.5	8	8	8	22.00	6	2	6	21.50	8	1	12	21.50	5	1	12	22.50	7	1	12	22.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	114	20	6	1.77	400
	3	9	9	8	8	22.00	9	1	12	21.50	8	1	12	21.50	4	2	6	22.50	8	1	12	22.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	114	20	6	1.84	429
	5	9	9	8	8	22.00	6	2	6	21.50	6	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	136	0	6	1.84	422
	10	9	11	8	8	22.00	7	2	6	21.50	7	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	8.00	4	4	6	8.00	4	2	12	8.00	136	0	6	1.98	468
Moment Break	20	11	13	9	8	22.16	4	2	12	10.66	11	1	12	21.66	11	1	12	22.66	4	2	12	10.66	4	2	12	8.00	7	2	12	8.00	4	2	12	8.00	136	0	6	2.32	489
	30	17	18	11	8	22.50	4	2	12	10.66	7	2	6	22.00	7	2	6	23.00	4	2	12	10.66	4	2	12	8.00	7	2	12	8.00	5	2	12	8.00	136	0	6	3.22	443
	40	21	22	12	8	22.66	4	2	12	10.66	7	2	6	22.16	10	1	12	23.16	4	2	12	10.66	4	2	12	8.00	7	2	12	8.00	5	2	12	8.00	136	0	6	3.86	449
	50	24	25	13	8	22.83	4	2	12	10.66	10	1	12	22.33	11	1	12	23.33	4	2	12	10.66	4	2	12	8.00	7	2	12	8.00	4	4	6	8.00	140	0	6	4.36	484
	60	26	28	15	8	23.16	4	2	12	10.66	11	1	12	22.66	11	1	12	23.66	4	2	12	10.66	4	2	12	8.00	4	4	6	8.00	7	2	12	8.00	140	0	6	4.88	513

2 @ 10 x 9 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	9.5	8	8	8	22.00	6	2	6	21.50	8	1	12	21.50	5	1	12	22.50	7	1	12	22.50	4	2	12	9.00	4	2	12	9.00	4	2	12	9.00	120	20	6	1.87	408
	3	9	9	8	8	22.00	9	1	12	21.50	8	1	12	21.50	4	2	6	22.50	8	1	12	22.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	120	20	6	1.91	444
	5	9	9	8	8	22.00	6	2	6	21.50	6	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	9.00	4	4	6	9.00	4	2	12	9.00	142	0	6	1.91	442
	10	9	11	8	8	22.00	7	2	6	21.50	7	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	142	0	6	2.05	490
Moment Break	20	11	13	10	8	22.33	4	2	12	10.67	11	1	12	21.83	11	1	12	22.83	4	2	12	10.67	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	142	0	6	2.47	501
	30	17	18	12	8	22.67	4	2	12	10.67	7	2	6	22.17	10	1	12	23.17	4	2	12	10.67	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	142	0	6	3.39	461
	40	21	22	13	8	22.83	4	2	12	10.67	7	2	6	22.33	10	1	12	23.33	4	2	12	10.67	4	2	12	9.00	5	4	6	9.00	5	2	12	9.00	142	0	6	4.04	463
	50	24	25	15	8	23.17	4	2	12	10.67	10	1	12	22.67	11	1	12	23.67	4	2	12	10.67	4	2	12	9.00	7	2	12	9.00	4	4	6	9.00	146	0	6	4.63	502
	60	26	28	16	8	23.33	4	2	12	10.67	11	1	12	22.83	11	1	12	23.83	4	2	12	10.67	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	146	0	6	5.08	540

2 @ 10 x 10 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	9.5	8	8	8	22.00	6	2	6	21.50	8	1	12	21.50	5	1	12	22.50	7	1	12	22.50	4	2	12	10.00	5	2	12	10.00	4	2	12	10.00	126	20	6	1.94	424
	3	9	9	8	8	22.00	9	1	12	21.50	8	1	12	21.50	4	2	6	22.50	8	1	12	22.50	4	2	12	10.00	5	2	12	10.00	4	2	12	10.00	126	20	6	1.99	453
	5	9	9	8	8	22.00	6	2	6	21.50	6	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	10.00	7	2	12	10.00	4	2	12	10.00	148	0	6	1.99	466
	10	9	11	8	8	22.00	7	2	6	21.50	7	1	12	21.50	7	1	12	22.50	9	1	12	22.50	4	2	12	10.00	9	2	12	10.00	4	2	12	10.00	148	0	6	2.13	528
Moment Break	20	11	14	11	8	22.50	4	2	12	10.67	11	1	12	22.00	7	2	6	23.00	4	2	12	10.67	4	2	12	10.00	8	2	12	10.00	4	2	12	10.00	148	0	6	2.70	498
	30	17	19	13	8	22.83	4	2	12	10.67	7	2	6	22.33	7	2	6	23.33	4	2	12	10.67	4	2	12	10.00	8	2	12	10.00	5	2	12	10.00	148	0	6	3.64	481
	40	21	22	15	8	23.17	4	2	12	10.67	7	2	6	22.67	10	1	12	23.67	4	2	12	10.67	4	2	12	10.00	8	2	12	10.00	5	2	12	10.00	152	0	6	4.31	492
	50	24	25	16	8	23.33	4	2	12	10.67	10	1	12	22.83	11	1	12	23.83	4	2	12	10.67	4	2	12	10.00	8	2	12	10.00	4	4	6	10.00	152	0	6	4.84	528
	60	26	28	18	8	23.67	4	2	12	10.67	11	1	12	23.17	11	1	12	24.17	4	2	12	10.67	4	2	12	10.00	5	4	6	10.00	7	2	12	10.00	152	0	6	5.38	557

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.

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 10'-0" CLEAR HEIGHTS 7'-0" THRU 10'-0" 0' THRU 60' FILL 2000

CORRECT _____ Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-59

DESIGNED BY CROSSLIN & HARPER DATE 1-00
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY JOHN CROSSLIN DATE 6-00

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