CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @14 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	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	4	2	6	30.50	8	1	12	30.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	138	28	6	2.42	564
	3	11	10	8	8	30.00	7	2	6	29.50	6	2	6	29.50	7	1	12	30.50	9	1	12	30.50	4	2	12	8.00	4	2	12	8.00	4	2	12	8.00	138	28	6	2.56	608
	5	11	11	8	8	30.00	10	1	12	29.50	8	1	12	29.50	7	1	12	30.50	7	2	6	30.50	4	2	12	8.00	5	2	12	8.00	4	2	12	8.00	168	0	6	2.66	622
	10	12	14	8	8	30.00	11	1	12	29.50	8	1	12	29.50	8	1	12	30.50	11	1	12	30.50	4	2	12	8.00	4	4	6	8.00	4	2	12	8.00	168	0	6	3.04	713
Moment Break	20	15	17	9	8	30.16	4	2	12	14.66	9	2	6	29.66	9	2	6	30.66	4	2	12	14.66	4	2	12	8.00	6	2	12	8.00	4	2	12	8.00	168	0	6	3.67	686
	30	22	24	10	8	30.33	4	2	12	14.66	9	2	6	29.83	9	2	6	30.83	4	2	12	14.66	4	2	12	8.00	6	2	12	8.00	5	2	12	8.00	168	0	6	5.07	695
	40	28	29	12	8	30.66	4	2	12	14.66	9	2	6	30.16	9	2	6	31.16	4	2	12	14.66	4	2	12	8.00	4	4	6	8.00	6	2	12	8.00	168	0	6	6.27	704
	50	32	33	13	8	30.83	4	2	12	14.66	9	2	6	30.33	9	2	6	31.33	4	2	12	14.66	4	2	12	8.00	4	4	6	8.00	7	2	12	8.00	168	0	6	7.12	715
	60	36	37	14	8	31.00	4	2	12	14.66	9	2	6	30.50	9	2	6	31.50	4	2	12	14.66	4	2	12	8.00	5	2	12	8.00	8	2	12	8.00	172	0	6	7.98	725

2 @ 14 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	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	4	2	6	30.50	8	1	12	30.50	4	2	12	9.00	4	2	12	9.00	4	2	12	9.00	144	28	6	2.50	572
	3	11	10	8	8	30.00	7	2	6	29.50	6	2	6	29.50	7	1	12	30.50	9	1	12	30.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	144	28	6	2.64	623
	5	11	11	8	8	30.00	10	1	12	29.50	8	1	12	29.50	7	1	12	30.50	7	2	6	30.50	4	2	12	9.00	5	2	12	9.00	4	2	12	9.00	174	0	6	2.73	631
	10	12	14	8	8	30.00	11	1	12	29.50	8	1	12	29.50	8	1	12	30.50	11	1	12	30.50	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	174	0	6	3.11	735
Moment Break	20	15	17	10	8	30.33	4	2	12	14.66	9	2	6	29.83	9	2	6	30.83	4	2	12	14.66	4	2	12	9.00	7	2	12	9.00	4	2	12	9.00	174	0	6	3.82	708
	30	22	24	11	8	30.50	4	2	12	14.66	9	2	6	30.00	9	2	6	31.00	4	2	12	14.66	4	2	12	9.00	7	2	12	9.00	5	2	12	9.00	174	0	6	5.23	717
	40	28	29	13	8	30.83	4	2	12	14.66	9	2	6	30.33	9	2	6	31.33	4	2	12	14.66	4	2	12	9.00	7	2	12	9.00	6	2	12	9.00	174	0	6	6.45	730
	50	32	34	14	8	31.00	4	2	12	14.66	9	2	6	30.50	9	2	6	31.50	4	2	12	14.66	4	2	12	9.00	7	2	12	9.00	7	2	12	9.00	178	0	6	7.41	745
	60	36	37	16	8	31.33	4	2	12	14.66	9	2	6	30.83	9	2	6	31.83	4	2	12	14.66	4	2	12	9.00	6	2	12	9.00	8	2	12	9.00	178	0	6	8.28	751

2 @ 14 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	10.5	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	4	2	6	30.50	8	1	12	30.50	4	2	12	10.00	5	2	12	10.00	4	2	12	10.00	150	28	6	2.57	588
	3	11	10	8	8	30.00	7	2	6	29.50	6	2	6	29.50	7	1	12	30.50	9	1	12	30.50	4	2	12	10.00	4	4	6	10.00	4	2	12	10.00	150	28	6	2.71	637
	5	11	11	8	8	30.00	10	1	12	29.50	8	1	12	29.50	5	2	6	30.50	7	2	6	30.50	4	2	12	10.00	7	2	12	10.00	4	2	12	10.00	180	0	6	2.81	661
	10	12	14	8	8	30.00	11	1	12	29.50	8	1	12	29.50	8	1	12	30.50	11	1	12	30.50	4	2	12	10.00	9	2	12	10.00	4	2	12	10.00	180	0	6	3.19	773
Moment Break	20	15	17	10	8	30.33	4	2	12	14.66	9	2	6	29.83	9	2	6	30.83	4	2	12	14.66	4	2	12	10.00	8	2	12	10.00	4	2	12	10.00	180	0	6	3.91	731
	30	22	24	12	8	30.67	4	2	12	14.66	9	2	6	30.16	9	2	6	31.16	4	2	12	14.66	4	2	12	10.00	8	2	12	10.00	5	2	12	10.00	180	0	6	5.41	743
	40	28	29	14	8	31.00	4	2	12	14.66	9	2	6	30.50	9	2	6	31.50	4	2	12	14.66	4	2	12	10.00	8	2	12	10.00	6	2	12	10.00	184	0	6	6.65	760
	50	32	34	16	8	31.33	4	2	12	14.66	9	2	6	30.83	9	2	6	31.83	4	2	12	14.66	4	2	12	10.00	5	4	6	10.00	7	2	12	10.00	184	0	6	7.72	764
	60	36	37	17	8	31.50	4	2	12	14.66	9	2	6	31.00	9	2	6	32.00	4	2	12	14.66	4	2	12	10.00	7	2	12	10.00	8	2	12	10.00	184	0	6	8.50	778

2 @ 14 x 11 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	9	8	8	30.00	7	2	6	29.50	6	2	6	29.50	4	2	6	30.50	8	1	12	30.50	4	2	12	11.00	5	2	12	11.00	4	2	12	11.00	156	28	6	2.65	596
	3	11	10	8	8	30.00	7	2	6	29.50	6	2	6	29.50	7	1	12	30.50	9	1	12	30.50	4	2	12	11.00	6	2	12	11.00	4	2	12	11.00	156	28	6	2.79	650
	5	11	11	8	8	30.00	10	1	12	29.50	8	1	12	29.50	5	2	6	30.50	7	2	6	30.50	4	2	12	11.00	8	2	12	11.00	4	2	12	11.00	186	0	6	2.88	686
	10	12	14	9	8	30.17	11	1	12	29.66	8	1	12	29.66	8	1	12	30.66	11	1	12	30.66	4	2	12	11.00	6	4	6	11.00	4	2	12	11.00	186	0	6	3.34	781
Moment Break	20	15	17	11	8	30.50	4	2	12	14.66	9	2	6	30.00	9	2	6	31.00	4	2	12	14.66	4	2	12	11.00	9	2	12	11.00	5	2	12	11.00	186	0	6	4.08	770
	30	22	24	14	8	31.00	4	2	12	14.66	9	2	6	30.50	9	2	6	31.50	4	2	12	14.66	4	2	12	11.00	8	2	12	11.00	5	2	12	11.00	190	0	6	5.69	764
	40	28	29	16	8	31.33	4	2	12	14.66	9	2	6	30.83	9	2	6	31.83	4	2	12	14.66	4	2	12	11.00	8	2	12	11.00	6	2	12	11.00	190	0	6	6.95	778
	50	32	34	18	8	31.67	4	2	12	14.66	9	2	6	31.16	9	2	6	32.16	4	2	12	14.66	4	2	12	11.00	8	2	12	11.00	7	2	12	11.00	190	0	6	8.04	795
	60	36	38	19	8	31.83	4	2	12	14.66	9	2	6	31.33	9	2	6	32.33	4	2	12	14.66	4	2	12	11.00	8	2	12	11.00	8	2	12	11.00	190	0	6	8.94	811

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 14'-0" CLEAR HEIGHTS 8'-0" THRU 11'-0" 0' THRU 60' FILL 2000

DESIGNED BY S. HASTINGS\I. YOUSSEF DATE 12-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY S. HASTINGS\I. YOUSSEF DATE 6-00

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-63

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5/18/2000