CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 12 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	9.5	8	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	6	26.50	8	1	12	26.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	102	24	6	1.72	486
	3	10	9	8	8	26.00	7	2	6	25.50	5	2	6	25.50	6	1	12	26.50	6	2	6	26.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	102	24	6	1.84	489
	5	10	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	128	0	6	1.93	482
	10	10	12	8	8	26.00	11	1	12	25.50	8	1	12	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	128	0	6	2.09	549
Moment Break	20	13	14	8	8	26.00	4	2	12	12.67	9	2	6	25.50	9	2	6	26.50	4	2	12	12.67	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	128	0	6	2.50	569
	30	19	21	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	4	2	12	4.00	5	2	12	4.00	128	0	6	3.57	495
	40	24	25	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	4	2	12	4.00	4	4	6	4.00	128	0	6	4.30	497
	50	28	29	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	4.00	4	2	12	4.00	7	2	12	4.00	128	0	6	4.95	503
	60	31	32	8	8	26.00	4	2	12	12.67	9	2	6	25.50	9	2	6	26.50	4	2	12	12.67	4	2	12	4.00	4	2	12	4.00	7	2	12	4.00	128	0	6	5.45	580

2 @ 12 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	9.5	8	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	6	26.50	8	1	12	26.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	108	24	6	1.79	494
	3	10	9	8	8	26.00	7	2	6	25.50	6	2	6	25.50	6	1	12	26.50	6	2	6	26.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	108	24	6	1.92	497
	5	10	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	134	0	6	2.00	490
	10	10	12	8	8	26.00	11	1	12	25.50	8	1	12	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	134	0	6	2.17	557
Moment Break	20	13	15	8	8	26.00	4	2	12	12.67	9	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	134	0	6	2.66	538
	30	19	21	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	5	2	12	5.00	5	2	12	5.00	134	0	6	3.64	503
	40	24	25	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	5.00	4	2	12	5.00	4	4	6	5.00	134	0	6	4.37	506
	50	28	29	9	8	26.17	4	2	12	12.67	11	1	12	25.67	11	1	12	26.67	4	2	12	12.67	4	2	12	5.00	4	2	12	5.00	7	2	12	5.00	134	0	6	5.09	515
	60	31	32	10	8	26.33	4	2	12	12.67	9	2	6	25.83	9	2	6	26.83	4	2	12	12.67	4	2	12	5.00	4	2	12	5.00	7	2	12	5.00	134	0	6	5.65	595

2 @ 12 x 6 REINFORCED CONCRETE BOX BRIDGE

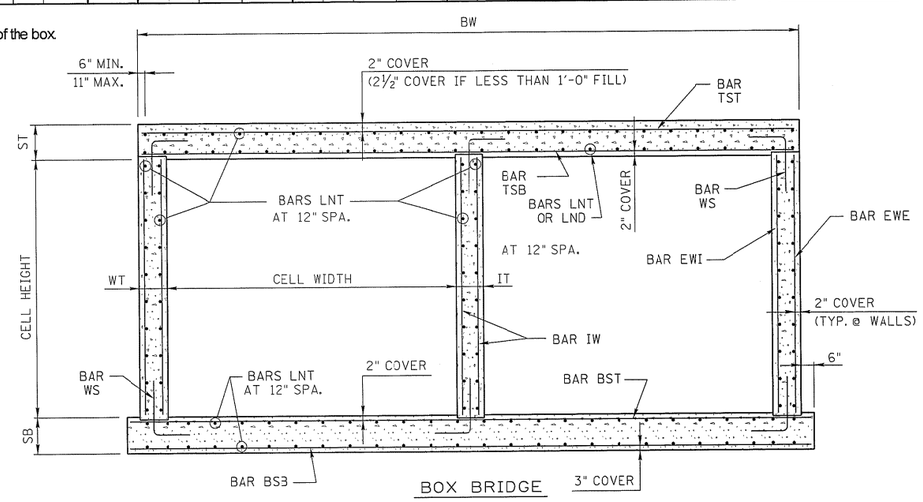
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	9.5	8	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	6	26.50	8	1	12	26.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	114	24	6	1.87	502
	3	10	9	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	6	2	6	26.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	114	24	6	1.99	519
	5	10	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	140	0	6	2.08	498
	10	10	12	8	8	26.00	11	1	12	25.50	8	1	12	25.50	5	2	6	26.50	7	2	6	26.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	140	0	6	2.24	565
Moment Break	20	13	15	8	8	26.00	4	2	12	12.67	9	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	140	0	6	2.73	546
	30	19	21	8	8	26.00	4	2	12	12.67	11	1	12	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	6.00	5	2	12	6.00	5	2	12	6.00	140	0	6	3.71	517
	40	24	25	9	8	26.17	4	2	12	12.67	11	1	12	25.67	11	1	12	26.67	4	2	12	12.67	4	2	12	6.00	4	2	12	6.00	4	4	6	6.00	140	0	6	4.51	517
	50	28	29	10	8	26.33	4	2	12	12.67	11	1	12	25.83	11	1	12	26.83	4	2	12	12.67	4	2	12	6.00	4	2	12	6.00	7	2	12	6.00	140	0	6	5.24	528
	60	31	32	11	8	26.50	4	2	12	12.67	9	2	6	26.00	9	2	6	27.00	4	2	12	12.67	4	2	12	6.00	4	2	12	6.00	7	2	12	6.00	140	0	6	5.80	608

2 @ 12 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	26.00	7	2	6	25.50	9	1	12	25.50	4	2	6	26.50	8	1	12	26.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	120	24	6	1.94	510
	3	10	9	8	8	26.00	7	2	6	25.50	6	2	6	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	120	24	6	2.07	538
	5	10	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	7	1	12	26.50	9	1	12	26.50	4	2	12	7.00	4	2	12	7.00	4	2	12	7.00	146	0	6	2.15	506
	10	10	12	8	8	26.00	11	1	12	25.50	8	1	12	25.50	8	1	12	26.50	7	2	6	26.50	4	2	12	7.00	5	2	12	7.00	4	2	12	7.00	146	0	6	2.32	594
Moment Break	20	13	15	8	8	26.00	4	2	12	12.67	9	2	6	25.50	11	1	12	26.50	4	2	12	12.67	4	2	12	7.00	4	4	6	7.00	4	2	12	7.00	146	0	6	2.81	563
	30	19	21	9	8	26.17	4	2	12	12.67	11	1	12	25.67	11	1	12	26.67	4	2	12	12.67	4	2	12	7.00	4	4	6	7.00	5	2	12	7.00	146	0	6	3.85	532
	40	24	25	11	8	26.50	4	2	12	12.67	11	1	12	26.00	11	1	12	27.00	4	2	12	12.67	4	2	12	7.00	5	2	12	7.00	4	4	6	7.00	146	0	6	4.73	536
	50	28	29	12	8	26.67	4	2	12	12.67	11	1	12	26.17	11	1	12	27.17	4	2	12	12.67	4	2	12	7.00	5	2	12	7.00	7	2	12	7.00	146	0	6	5.47	547
	60	31	32	13	8	26.83	4	2	12	12.67	9	2	6	26.33	9	2	6	27.33	4	2	12	12.67	4	2	12	7.00	4	2	12	7.00	7	2	12	7.00	146	0	6	6.05	624

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 12'-0" CLEAR HEIGHTS 4'-0" THRU 7'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-60

DESIGNED BY ROBERT LEFEVRE DATE 1-00
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY ROBERT LEFEVRE DATE 6-00

RELEASED FOR PLOTTING 12/28/2001 11:28 \12\2burrell_box12