CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

2 @ 6 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	14.00	7	1	12	13.50	7	1	12	13.50	4	1	12	14.50	5	1	12	14.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	60	12	6	0.95	225
	3	8	8	8	8	14.00	8	1	12	13.50	7	1	12	13.50	4	1	12	14.50	4	2	6	14.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	60	12	6	0.93	237
	5	8	8	8	8	14.00	4	2	6	13.50	4	1	12	13.50	5	1	12	14.50	4	2	6	14.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	74	0	6	0.93	202
	10	8	8	8	8	14.00	6	1	12	13.50	5	1	12	13.50	5	1	12	14.50	7	1	12	14.50	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	74	0	6	0.93	220
Moment Break	20	8	9	8	8	14.00	4	2	12	6.66	6	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	74	0	6	0.98	243
	30	11	12	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	74	0	6	1.29	233
	40	14	15	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	4	2	12	3.00	4	2	12	3.00	74	0	6	1.52	233
	50	16	17	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	3.00	4	2	12	3.00	5	2	12	3.00	74	0	6	1.70	235
	60	17	18	8	8	14.00	4	2	12	6.66	6	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	3.00	4	2	12	3.00	5	2	12	3.00	74	0	6	1.79	245

2 @ 6 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	14.00	7	1	12	13.50	7	1	12	13.50	4	1	12	14.50	5	1	12	14.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	66	12	6	1.01	233
	3	8	8	8	8	14.00	8	1	12	13.50	7	1	12	13.50	4	1	12	14.50	4	2	6	14.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	66	12	6	1.01	245
	5	8	8	8	8	14.00	4	2	6	13.50	4	1	12	13.50	5	1	12	14.50	6	1	12	14.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.01	213
	10	8	8	8	8	14.00	6	1	12	13.50	5	1	12	13.50	5	1	12	14.50	7	1	12	14.50	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.01	228
Moment Break	20	8	9	8	8	14.00	4	2	12	6.66	6	2	6	13.50	6	2	6	14.50	4	2	12	6.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.05	251
	30	11	13	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.37	241
	40	14	15	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.59	241
	50	15	16	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	4.00	4	2	12	4.00	4	2	12	4.00	80	0	6	1.68	241
	60	16	18	9	8	14.17	4	2	12	6.66	6	2	6	13.66	8	1	12	14.66	4	2	12	6.66	4	2	12	4.00	4	2	12	4.00	5	2	12	4.00	80	0	6	1.86	255

2 @ 6 x 5 REINFORCED CONCRETE BOX BRIDGE

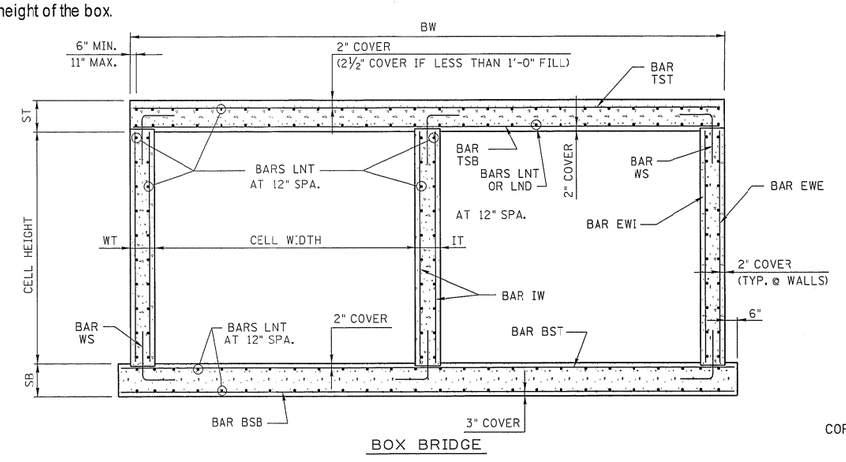
	Maximum Fill Height ft.	Dimensions ST in.	SB in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars BST Size	No.	Spacing in.	Length ft.	Bars BSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	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	8.5	8	8	8	14.00	7	1	12	13.50	7	1	12	13.50	4	1	12	14.50	5	1	12	14.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	72	12	6	1.10	241
	3	8	8	8	8	14.00	8	1	12	13.50	7	1	12	13.50	4	2	6	14.50	4	1	12	14.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	72	12	6	1.08	253
	5	8	8	8	8	14.00	4	2	6	13.50	4	1	12	13.50	5	1	12	14.50	6	1	12	14.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	86	0	6	1.08	221
	10	8	8	8	8	14.00	6	1	12	13.50	5	1	12	13.50	5	1	12	14.50	7	1	12	14.50	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	86	0	6	1.08	236
Moment Break	20	8	10	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	5.00	4	2	12	5.00	4	2	12	5.00	86	0	6	1.17	254
	30	11	13	8	8	14.00	4	2	12	6.66	8	1	12	13.50	8	1	12	14.50	4	2	12	6.66	4	2	12	5.00	4	2	12	5.00	5	2	12	5.00	86	0	6	1.44	253
	40	14	15	9	8	14.17	4	2	12	6.66	8	1	12	13.66	8	1	12	14.66	4	2	12	6.66	4	2	12	5.00	5	2	12	5.00	4	2	12	5.00	86	0	6	1.71	254
	50	16	17	10	8	14.33	4	2	12	6.66	8	1	12	13.83	8	1	12	14.83	4	2	12	6.66	4	2	12	5.00	5	2	12	5.00	5	2	12	5.00	86	0	6	1.94	255
	60	17	18	10	8	14.33	4	2	12	6.66	6	2	6	13.83	6	2	6	14.83	4	2	12	6.66	4	2	12	5.00	5	2	12	5.00	5	2	12	5.00	86	0	6	2.03	268

2 @ 6 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	8.5	8	8	8	14.00	7	1	12	13.50	7	1	12	13.50	4	1	12	14.50	5	1	12	14.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	78	12	6	1.16	249
	3	8	8	8	8	14.00	8	1	12	13.50	7	1	12	13.50	4	1	12	14.50	4	2	6	14.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	78	12	6	1.16	261
	5	8	8	8	8	14.00	4	2	6	13.50	4	1	12	13.50	5	1	12	14.50	6	1	12	14.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	92	0	6	1.16	229
	10	8	9	8	8	14.00	6	1	12	13.50	5	1	12	13.50	5	1	12	14.50	7	1	12	14.50	4	2	12	6.00	4	2	12	6.00	4	2	12	6.00	92	0	6	1.20	244
Moment Break	20	8	10	8	8	14.00	4	2	12	6.66	6	2	6	13.50	8	1	12	14.50	4	2	12	6.66	4	2	6	6.00	4	4	6	6.00	4	2	12	6.00	92	0	6	1.25	270
	30	11	13	9	8	14.17	4	2	12	6.66	8	1	12	13.66	8	1	12	14.66	4	2	12	6.66	4	2	12	6.00	4	4	6	6.00	4	2	12	6.00	92	0	6	1.57	266
	40	14	15	10	8	14.33	4	2	12	6.66	8	1	12	13.83	8	1	12	14.83	4	2	12	6.66	4	2	12	6.00	4	4	12	6.00	4	2	12	6.00	92	0	6	1.84	267
	50	16	17	11	8	14.50	4	2	12	6.66	8	1	12	14.00	8	1	12	15.00	4	2	12	6.66	4	2	12	6.00	4	4	12	6.00	5	2	12	6.00	92	0	6	2.08	272
	60	17	18	12	8	14.67	4	2	12	6.66	6	2	6	14.16	6	2	6	15.16	4	2	12	6.66	4	2	12	6.00	5	2	12	6.00	5	2	12	6.00	92	0	6	2.23	280

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 6'-0" CLEAR HEIGHTS 3'-0" THRU 6'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-55

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

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