CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 14 x 12 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	8	8	8	44.67	7	2	6	44.16	6	2	6	44.16	7	1	12	45.16	5	2	6	45.16	4	2	12	12.00	6	2	12	12.00	5	4	12	12.00	228	42	8	3.76	904
	3	10	9	8	8	44.67	10	1	12	44.16	7	2	6	44.16	8	1	12	45.16	6	2	6	45.16	4	2	12	12.00	8	2	12	12.00	5	4	12	12.00	228	42	8	3.83	1059
	5	10	10	9	8	44.83	10	1	12	44.33	6	2	6	44.33	8	1	12	45.33	7	2	6	45.33	4	2	12	12.00	8	2	12	12.00	5	4	12	12.00	272	0	8	4.05	1049
	10	13	14	10	8	45.00	9	1	12	44.50	8	1	12	44.50	8	1	12	45.50	9	1	12	45.50	4	2	12	12.00	9	2	12	12.00	5	4	12	12.00	276	0	8	5.12	984
Moment Break	20	15	17	12	8	45.33	4	3	12	14.66	9	2	6	44.83	9	2	6	45.83	4	3	12	14.66	4	2	12	12.00	9	2	12	12.00	5	4	12	12.00	276	0	8	6.01	1113
	30	22	24	15	8	45.83	4	3	12	14.66	9	2	6	45.33	9	2	6	46.33	4	3	12	14.66	4	2	12	12.00	6	4	6	12.00	5	4	12	12.00	276	0	8	8.28	1111
	40	28	30	17	8	46.17	4	3	12	14.66	9	2	6	45.66	9	2	6	46.66	4	3	12	14.66	4	2	12	12.00	8	2	12	12.00	4	8	6	12.00	280	0	8	10.20	1124
	50	32	34	19	8	46.50	4	3	12	14.66	9	2	6	46.00	9	2	6	47.00	4	3	12	14.66	4	2	12	12.00	8	2	12	12.00	7	4	12	12.00	280	0	8	11.57	1163
	60	36	38	21	8	46.83	4	3	12	14.66	9	2	6	46.33	9	2	6	47.33	4	3	12	14.66	4	2	12	12.00	8	2	12	12.00	7	4	12	12.00	280	0	8	12.96	1167

3 @ 14 x 13 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	8	8	8	44.67	7	2	6	44.16	6	2	6	44.16	7	1	12	45.16	8	1	12	45.16	4	2	12	13.00	8	2	12	13.00	4	8	6	13.00	236	42	8	3.86	990
	3	10	9	8	8	44.67	10	1	12	44.16	7	2	6	44.16	8	1	12	45.16	6	2	6	45.16	4	2	12	13.00	7	4	6	13.00	4	8	6	13.00	236	42	8	3.93	1127
	5	10	10	9	8	44.83	10	1	12	44.33	6	2	6	44.33	6	2	6	45.33	7	2	6	45.33	4	2	12	13.00	9	2	12	13.00	4	8	6	13.00	280	0	8	4.16	1114
	10	13	14	10	8	45.00	9	1	12	44.50	8	1	12	44.50	8	1	12	45.50	9	1	12	45.50	4	2	12	13.00	11	2	12	13.00	4	8	6	13.00	284	0	8	5.23	1068
Moment Break	20	15	18	13	8	45.50	4	3	12	14.66	9	2	6	45.00	9	2	6	46.00	4	3	12	14.66	4	2	12	13.00	7	4	6	13.00	4	8	6	13.00	284	0	8	6.37	1167
	30	22	25	16	8	46.00	4	3	12	14.66	9	2	6	45.50	9	2	6	46.50	4	3	12	14.66	4	2	12	13.00	9	2	12	13.00	4	8	6	13.00	288	0	8	8.67	1158
	40	28	30	18	8	46.33	4	3	12	14.66	9	2	6	45.83	9	2	6	46.83	4	3	12	14.66	4	2	12	13.00	9	2	12	13.00	4	8	6	13.00	288	0	8	10.47	1162
	50	32	34	21	8	46.83	4	3	12	14.66	9	2	6	46.33	9	2	6	47.33	4	3	12	14.66	4	2	12	13.00	6	4	6	13.00	7	4	12	13.00	288	0	8	11.97	1196
	60	36	38	23	8	47.17	4	3	12	14.66	9	2	6	46.66	9	2	6	47.66	4	3	12	14.66	4	2	12	13.00	6	4	6	13.00	7	4	12	13.00	292	0	8	13.37	1203

3 @ 14 x 14 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	8	8	8	44.67	7	2	6	44.16	6	2	6	44.16	7	1	12	45.16	8	1	12	45.16	4	2	12	14.00	9	2	12	14.00	6	4	12	14.00	244	42	8	3.95	1037
	3	10	9	8	8	44.83	10	1	12	44.33	7	2	6	44.33	8	1	12	45.33	6	2	6	45.33	4	2	12	14.00	9	2	12	14.00	6	4	12	14.00	244	42	8	4.12	1140
	5	10	10	10	8	45.00	10	1	12	44.50	6	2	6	44.50	6	2	6	45.50	7	2	6	45.50	4	2	12	14.00	9	2	12	14.00	6	4	12	14.00	292	0	8	4.36	1147
	10	13	14	11	8	45.17	9	1	12	44.65	8	1	12	44.65	8	1	12	45.65	7	2	6	45.65	4	2	12	14.00	11	2	12	14.00	6	4	12	14.00	292	0	8	5.44	1132
Moment Break	20	15	18	14	8	45.67	4	3	12	14.66	9	2	6	45.16	9	2	6	46.16	4	3	12	14.66	4	2	12	14.00	10	2	12	14.00	6	4	12	14.00	292	0	8	6.60	1204
	30	22	25	17	8	46.17	4	3	12	14.66	9	2	6	45.66	9	2	6	46.66	4	3	12	14.66	4	2	12	14.00	7	4	6	14.00	6	4	12	14.00	296	0	8	8.93	1208
	40	28	30	20	8	46.67	4	3	12	14.66	9	2	6	46.16	9	2	6	47.16	4	3	12	14.66	4	2	12	14.00	9	2	12	14.00	6	4	12	14.00	296	0	8	10.86	1196
	50	32	34	22	8	47.00	4	3	12	14.66	9	2	6	46.50	9	2	6	47.50	4	3	12	14.66	4	2	12	14.00	7	4	6	14.00	7	4	12	14.00	300	0	8	12.27	1252
	60	36	38	24	8	47.33	4	3	12	14.66	9	2	6	46.83	9	2	6	47.83	4	3	12	14.66	4	2	12	14.00	7	4	6	14.00	7	4	12	14.00	300	0	8	13.69	1256

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: 3 BARRELS AT 14'-0"
CLEAR HEIGHTS 12'-0" THRU 14'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-84

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

dn\std2000\14\3barrel.bxd14
12-2001
13:21