CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	2-28-03	JHW	CHANGED NOTE

2 @ 12 x 4 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	12	2.50	4	2	12	2.50	4	2	12	2.50	47	24	3	3	1.67	1.30	348
	3	10	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	2.50	4	2	12	2.50	4	2	12	2.50	47	24	3	3	1.67	1.34	338
	5	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	4	2	12	2.50	4	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.34	306
	10	10	8	8	26.00	11	1	12	25.50	8	1	12	25.50	4	2	12	2.50	4	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.34	354
Moment Break	20	13	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	2.50	4	2	12	2.50	4	2	12	2.50	73	0	3	3	1.67	1.58	340
	30	19	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	2.50	4	2	12	2.50	5	2	12	2.50	73	0	3	3	1.67	2.07	304
	40	24	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	2.50	4	2	12	2.50	4	4	6	2.50	73	0	3	3	1.67	2.47	306
	50	28	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	2.50	4	2	12	2.50	7	2	12	2.50	73	0	3	3	1.67	2.79	309
	60	31	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	2.50	4	2	12	2.50	7	2	12	2.50	73	0	3	3	1.67	3.03	347

2 @ 12 x 5 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	12	3.50	4	2	12	3.50	4	2	12	3.50	53	24	3	3	1.67	1.38	356
	3	10	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	3.50	4	2	12	3.50	4	2	12	3.50	53	24	3	3	1.67	1.42	346
	5	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	4	2	12	3.50	4	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.42	314
	10	10	8	8	26.00	11	1	12	25.50	8	1	12	25.50	4	2	12	3.50	4	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.42	362
Moment Break	20	13	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	3.50	4	2	12	3.50	4	2	12	3.50	79	0	3	3	1.67	1.66	348
	30	19	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	3.50	4	2	12	3.50	5	2	12	3.50	79	0	3	3	1.67	2.14	313
	40	24	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	3.50	4	2	12	3.50	4	4	6	3.50	79	0	3	3	1.67	2.54	315
	50	28	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	3.50	4	2	12	3.50	7	2	12	3.50	79	0	3	3	1.67	2.86	320
	60	31	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	3.50	4	2	12	3.50	7	2	12	3.50	79	0	3	3	1.67	3.10	358

2 @ 12 x 6 REINFORCED CONCRETE SLAB BRIDGE

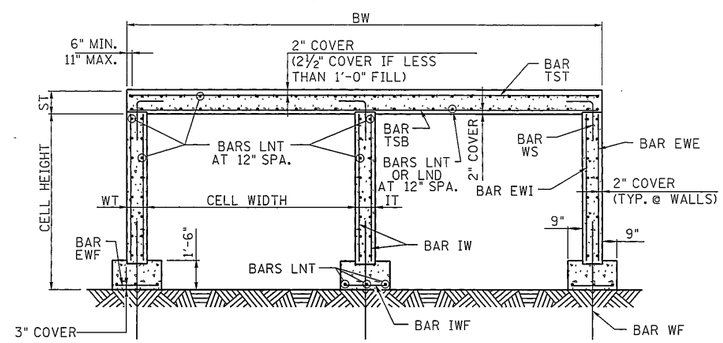
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	12	4.50	4	2	12	4.50	4	2	12	4.50	59	24	3	3	1.67	1.45	364
	3	10	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	4.50	4	2	12	4.50	4	2	12	4.50	59	24	3	3	1.67	1.49	354
	5	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	4	2	12	4.50	4	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.49	322
	10	10	8	8	26.00	11	1	12	25.50	8	1	12	25.50	4	2	12	4.50	4	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.49	370
Moment Break	20	13	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	4.50	4	2	12	4.50	4	2	12	4.50	85	0	3	3	1.67	1.73	356
	30	19	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	4.50	4	2	12	4.50	5	2	12	4.50	85	0	3	3	1.67	2.21	322
	40	24	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	4.50	4	2	12	4.50	4	4	6	4.50	85	0	3	3	1.67	2.62	324
	50	28	3	3	23.00	4	2	12	12.67	11	1	12	25.50	4	2	12	4.50	4	2	12	4.50	7	2	12	4.50	85	0	3	3	1.67	2.94	331
	60	31	9	8	26.17	4	2	12	12.67	9	2	6	25.67	4	2	12	4.50	4	2	12	4.50	7	2	12	4.50	85	0	3	3	1.75	3.23	370

2 @ 12 x 7 REINFORCED CONCRETE SLAB BRIDGE

	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB 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.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	26.00	7	2	6	25.50	9	1	12	25.50	4	2	12	5.50	4	2	12	5.50	4	2	12	5.50	65	24	3	3	1.67	1.53	372
	3	10	8	8	26.00	7	2	6	25.50	6	2	6	25.50	4	2	12	5.50	4	2	12	5.50	4	2	12	5.50	65	24	3	3	1.67	1.57	362
	5	10	8	8	26.00	7	2	6	25.50	7	1	12	25.50	4	2	12	5.50	4	2	12	5.50	4	2	12	5.50	91	0	3	3	1.67	1.57	330
	10	10	8	8	26.00	11	1	12	25.50	8	1	12	25.50	4	2	12	5.50	4	2	12	5.50	4	2	12	5.50	91	0	3	3	1.67	1.57	378
Moment Break	20	13	8	8	26.00	4	2	12	12.67	9	2	6	25.50	4	2	12	5.50	4	2	12	5.50	4	2	12	5.50	91	0	3	3	1.67	1.81	364
	30	19	8	8	26.00	4	2	12	12.67	11	1	12	25.50	4	2	12	5.50	4	2	12	5.50	5	2	12	5.50	91	0	3	3	1.67	2.29	331
	40	24	9	8	26.17	4	2	12	12.67	11	1	12	25.67	4	2	12	5.50	4	2	12	5.50	4	4	6	5.50	91	0	3	3	1.75	2.75	335
	50	28	10	8	26.33	4	2	12	12.67	11	1	12	25.83	4	2	12	5.50	4	2	12	5.50	7	2	12	5.50	91	0	3	3	1.83	3.13	344
	60	31	10	8	26.33	4	2	12	12.67	9	2	6	25.83	4	2	12	5.50	4	2	12	5.50	7	2	12	5.50	91	0	3	3	1.83	3.37	382

Note: Maximum fill height 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.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
⚠1 Bars IWF Size = 4 No. = 1 Space = 12 in. Length = 1.66 ft.
Bars EWF Size = 4 No. = 2 Spacing = 12 in.



TYPICAL SECTION

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 SLAB BRIDGE INTERIOR SECTION SPANS: 2 BARREL AT 12'-0" CLEAR HEIGHTS 4'-0" THRU 7'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-120

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

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