CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 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	38.67	7	2	6	38.17	9	1	12	38.17	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	66	36	4	4	1.67	1.86	503
	3	10	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	66	36	4	4	1.67	1.92	461
	5	9	8	8	38.67	7	2	6	38.17	8	1	12	38.17	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	1.80	462
	10	11	8	8	38.67	9	1	12	38.17	8	1	12	38.17	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	2.04	435
Moment Break	20	13	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	104	0	4	4	1.67	2.27	489
	30	19	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	2.50	4	2	12	2.50	5	4	12	2.50	104	0	4	4	1.67	2.99	436
	40	24	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	2.50	4	2	12	2.50	5	4	12	2.50	104	0	4	4	1.67	3.59	436
	50	28	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	2.50	4	2	12	2.50	4	8	6	2.50	104	0	4	4	1.67	4.06	439
	60	31	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	2.50	4	2	12	2.50	7	4	12	2.50	104	0	4	4	1.67	4.42	502

3 @ 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	Rainf. Steel LB/LF
Continuous	No Fill	9.5	8	8	38.67	7	2	6	38.17	9	1	12	38.17	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	74	36	4	4	1.67	1.96	513
	3	10	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	74	36	4	4	1.67	2.02	472
	5	9	8	8	38.67	7	2	6	38.17	8	1	12	38.17	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	1.90	473
	10	11	8	8	38.67	9	1	12	38.17	8	1	12	38.17	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	2.13	447
Moment Break	20	13	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	112	0	4	4	1.67	2.37	500
	30	19	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	3.50	4	2	12	3.50	5	4	12	3.50	112	0	4	4	1.67	3.09	449
	40	24	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	3.50	4	2	12	3.50	5	4	12	3.50	112	0	4	4	1.67	3.69	449
	50	28	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	3.50	4	2	12	3.50	4	8	6	3.50	112	0	4	4	1.67	4.16	453
	60	31	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	3.50	4	2	12	3.50	7	4	12	3.50	112	0	4	4	1.67	4.52	519

3 @ 12 x 6 REINFORCED CONCRETE SLAB BRIDGE

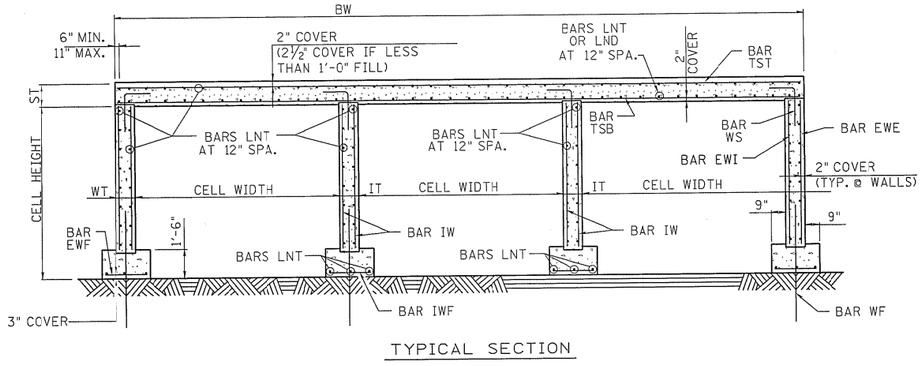
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.5	8	8	38.67	7	2	6	38.17	9	1	12	38.17	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	82	36	4	4	1.67	2.06	523
	3	10	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	82	36	4	4	1.67	2.11	482
	5	9	8	8	38.67	7	2	6	38.17	8	1	12	38.17	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	2.00	483
	10	11	8	8	38.67	9	1	12	38.17	8	1	12	38.17	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	2.23	457
Moment Break	20	13	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	120	0	4	4	1.67	2.47	510
	30	19	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	4.50	4	2	12	4.50	5	4	12	4.50	120	0	4	4	1.67	3.19	460
	40	24	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	4.50	4	2	12	4.50	5	4	12	4.50	120	0	4	4	1.67	3.79	460
	50	28	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	4.50	4	2	12	4.50	4	8	6	4.50	120	0	4	4	1.67	4.26	466
	60	31	9	8	38.83	4	3	12	12.67	9	2	6	38.33	4	2	12	4.50	4	2	12	4.50	7	4	12	4.50	120	0	4	4	1.75	4.67	536

3 @ 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	38.67	7	2	6	38.17	9	1	12	38.17	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	90	36	4	4	1.67	2.15	535
	3	10	8	8	38.67	9	1	12	38.17	6	2	6	38.17	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	90	36	4	4	1.67	2.21	493
	5	9	8	8	38.67	7	2	6	38.17	8	1	12	38.17	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	128	0	4	4	1.67	2.09	495
	10	11	8	8	38.67	9	1	12	38.17	8	1	12	38.17	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	128	0	4	4	1.67	2.33	468
Moment Break	20	13	8	8	38.67	4	3	12	12.67	9	2	6	38.17	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	128	0	4	4	1.67	2.57	522
	30	19	8	8	38.67	4	3	12	12.67	11	1	12	38.17	4	2	12	5.50	4	2	12	5.50	5	4	12	5.50	128	0	4	4	1.67	3.29	473
	40	24	9	8	38.83	4	3	12	12.67	11	1	12	38.33	4	2	12	5.50	4	2	12	5.50	5	4	12	5.50	128	0	4	4	1.75	3.94	474
	50	28	10	8	39.00	4	3	12	12.67	11	1	12	38.50	4	2	12	5.50	4	2	12	5.50	4	8	6	5.50	130	0	4	4	1.83	4.48	483
	60	31	10	8	39.00	4	3	12	12.67	9	2	6	38.50	4	2	12	5.50	4	2	12	5.50	7	4	12	5.50	130	0	4	4	1.83	4.84	556

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.
Bars IWF Size = 4 No. = 2 Spacing = 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: 3 BARREL AT 12'-0" CLEAR HEIGHTS 4'-0" THRU 10'-0" 0'-0" THRU 60'-0" FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-140

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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