CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

1 @ 18 x 14 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	12.50	7	2	12	12.50	73	36	2	2	1.66	1.54	314
3	13	8	19.33	4	1	12	18.83	11	1	12	18.83	4	2	12	12.50	6	4	6	12.50	73	36	2	2	1.66	1.63	338
5	13	9	19.50	4	1	12	19.00	9	2	6	19.00	4	2	12	12.50	8	2	12	12.50	92	0	2	2	1.75	1.72	347
10	14	10	19.67	4	1	12	19.16	9	2	6	19.16	4	2	12	12.50	9	2	12	12.50	92	0	2	2	1.83	1.88	367
20	18	13	20.17	4	1	12	19.50	11	2	6	19.66	4	2	12	12.50	6	4	6	12.50	94	0	2	2	2.08	2.41	438
30	28	15	20.50	4	1	12	20.00	10	2	6	20.00	4	2	12	12.50	9	2	12	12.50	94	0	2	2	2.25	3.23	411
40	35	17	20.83	4	1	12	20.33	10	2	6	20.33	4	2	12	12.50	9	2	12	12.50	94	0	2	2	2.41	3.88	415
50	40	19	21.17	4	1	12	20.66	10	2	6	20.66	4	2	12	12.50	6	4	6	12.50	96	0	2	2	2.58	4.42	409
60	45	21	21.50	4	1	12	21.00	10	2	6	21.00	4	2	12	12.50	8	2	12	12.50	96	0	2	2	2.75	4.96	404

1 @ 18 x 15 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	8	19.33	4	1	12	18.83	8	2	6	18.83	4	2	12	13.50	6	4	6	13.50	77	36	2	2	1.66	1.59	348
3	13	9	19.50	4	1	12	19.00	11	1	12	19.00	4	2	12	13.50	8	2	12	13.50	77	36	2	2	1.75	1.78	339
5	13	9	19.50	4	1	12	19.00	9	2	6	19.00	4	2	12	13.50	7	4	6	13.50	96	0	2	2	1.75	1.78	395
10	14	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	13.50	9	2	12	13.50	96	0	2	2	1.91	2.04	379
20	18	14	20.33	4	1	12	19.83	11	2	6	19.83	4	2	12	13.50	9	2	12	13.50	98	0	2	2	2.16	2.59	460
30	28	16	20.67	4	1	12	20.16	10	2	6	20.16	4	2	12	13.50	9	2	12	13.50	98	0	2	2	2.33	3.43	423
40	35	19	21.17	4	1	12	20.66	10	2	6	20.66	4	2	12	13.50	9	2	12	13.50	100	0	2	2	2.58	4.21	430
50	40	21	21.50	4	1	12	21.00	10	2	6	21.00	4	2	12	13.50	9	2	12	13.50	100	0	2	2	2.75	4.76	434
60	45	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	13.50	6	4	6	13.50	100	0	2	2	2.91	5.32	426

1 @ 18 x 16 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	9	19.50	4	1	12	19.00	8	2	6	19.00	4	2	12	14.50	8	2	12	14.50	81	36	2	2	1.75	1.74	350
3	13	9	19.50	4	1	12	19.00	11	1	12	19.00	4	2	12	14.50	7	4	6	14.50	81	36	2	2	1.75	1.83	390
5	13	10	19.67	4	1	12	19.16	9	2	6	19.16	4	2	12	14.50	7	4	6	14.50	100	0	2	2	1.83	1.94	409
10	14	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	14.50	11	2	12	14.50	100	0	2	2	1.91	2.11	446
20	18	15	20.50	4	1	12	20.00	11	2	6	20.00	4	2	12	14.50	7	4	6	14.50	102	0	2	2	2.25	2.78	493
30	28	18	21.00	4	1	12	20.50	10	2	6	20.50	4	2	12	14.50	7	4	6	14.50	104	0	2	2	2.50	3.75	459
40	35	20	21.33	4	1	12	20.83	10	2	6	20.83	4	2	12	14.50	7	4	6	14.50	104	0	2	2	2.66	4.44	462
50	40	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	14.50	9	2	12	14.50	104	0	2	2	2.91	5.13	447
60	45	25	22.17	4	1	12	21.66	10	2	6	21.66	4	2	12	14.50	9	2	12	14.50	106	0	2	2	3.08	5.71	452

1 @ 18 x 17 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	9	19.50	4	1	12	19.00	8	2	6	19.00	4	2	12	15.50	7	4	6	15.50	85	36	2	2	1.75	1.80	403
3	13	10	19.67	4	1	12	19.16	11	1	12	19.16	4	2	12	15.50	7	4	6	15.50	85	36	2	2	1.83	2.00	404
5	13	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	15.50	7	4	6	15.50	104	0	2	2	1.91	2.11	422
10	14	12	20.00	4	1	12	19.50	9	2	6	19.50	4	2	12	15.50	11	2	12	15.50	106	0	2	2	2.00	2.29	463
20	18	16	20.67	4	1	12	20.16	11	2	6	20.16	4	2	12	15.50	7	4	6	15.50	106	0	2	2	2.33	2.99	508
30	28	19	21.17	4	1	12	20.66	10	2	6	20.66	4	2	12	15.50	7	4	6	15.50	108	0	2	2	2.58	3.98	473
40	35	22	21.67	4	1	12	21.16	10	2	6	21.16	4	2	12	15.50	7	4	6	15.50	108	0	2	2	2.83	4.81	478
50	40	24	22.00	4	1	12	21.50	10	2	6	21.50	4	2	12	15.50	7	4	6	15.50	110	0	2	2	3.00	5.40	482
60	45	26	22.33	4	1	12	21.83	10	2	6	21.83	4	2	12	15.50	7	4	6	15.50	110	0	2	2	3.16	5.99	485

1 @ 18 x 18 REINFORCED CONCRETE SLAB BRIDGE

Fill Height ft.	Dimensions ST in.	WT 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.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
No Fill	11.5	10	19.67	4	1	12	19.17	8	2	6	19.17	4	2	12	16.50	7	4	6	16.50	89	36	2	2	1.83	1.97	416
3	13	11	19.83	4	1	12	19.33	11	1	12	19.33	4	2	12	16.50	7	4	6	16.50	89	36	2	2	1.91	2.18	416
5	13	11	19.83	4	1	12	19.33	9	2	6	19.33	4	2	12	16.50	11	2	12	16.50	108	0	2	2	1.91	2.18	475
10	14	13	20.17	4	1	12	19.67	9	2	6	19.67	4	2	12	16.50	11	2	12	16.50	110	0	2	2	2.08	2.48	478
20	18	17	20.83	4	1	12	20.33	11	2	6	20.33	4	2	12	16.50	11	2	12	16.50	110	0	2	2	2.41	3.21	561
30	28	20	21.33	4	1	12	20.83	10	2	6	20.83	4	2	12	16.50	10	2	12	16.50	112	0	2	2	2.67	4.23	494
40	35	23	21.83	4	1	12	21.33	10	2	6	21.33	4	2	12	16.50	7	4	6	16.50	112	0	2	2	2.91	5.08	492
50	40	26	22.33	4	1	12	21.83	10	2	6	21.83	4	2	12	16.50	10	2	12	16.50	114	0	2	2	3.17	5.81	505
60	45	28	22.67	4	1	12	22.17	10	2	6	22.17	4	2	12	16.50	10	2	12	16.50	114	0	2	2	3.33	6.42	508

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 = 4 Spacing = 6 in.
Bars WS Size = 8 Length = 5.00 ft. Spacing = 12 in.
Bars WF Size = 8 Length = 6.00 ft. Spacing = 12 in.
Bars EWF Size = 4 No. = 2 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 SLAB BRIDGE INTERIOR SECTION SPANS: 1 BARREL AT 18'-0" CLEAR HEIGHTS 14'-0" THRU 18'-0" 0' THRU 60' FILL 2000

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

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-109

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