CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 16 x 9 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	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	118	48	4	4	1.66	2.86	701
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	118	48	4	4	1.66	2.94	711
	5	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	138	0	4	4	1.66	2.94	711
	10	14	8	8	50.67	7	2	6	50.15	6	2	6	50.15	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	138	0	4	4	1.66	3.41	635
Moment Break	20	16	8	8	50.67	4	3	12	16.66	10	2	6	50.16	4	2	12	7.50	6	2	12	7.50	5	4	12	7.50	138	0	4	4	1.66	3.72	762
	30	25	10	8	51.00	4	3	12	16.66	9	2	6	50.50	4	2	12	7.50	5	2	12	7.50	5	4	12	7.50	170	0	4	4	1.83	5.26	669
	40	31	11	8	51.17	4	3	12	16.66	9	2	6	50.66	4	2	12	7.50	5	2	12	7.50	6	4	12	7.50	170	0	4	4	1.91	6.28	684
	50	36	12	8	51.33	4	3	12	16.66	10	2	6	50.83	4	2	12	7.50	4	2	12	7.50	7	4	12	7.50	170	0	4	4	2	7.14	788
	60	40	13	8	51.50	4	3	12	16.66	10	2	6	51.00	4	2	12	7.50	4	2	12	7.50	8	4	12	7.50	170	0	4	4	2.08	7.85	808

3 @ 16 x 10 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	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	126	48	4	4	1.66	2.96	711
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	126	48	4	4	1.66	3.04	722
	5	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	176	0	4	4	1.66	3.04	728
	10	14	8	8	50.67	7	2	6	50.15	6	2	6	50.15	4	2	12	8.50	4	4	6	8.50	4	4	12	8.50	176	0	4	4	1.66	3.51	652
Moment Break	20	16	9	8	50.83	4	3	12	16.66	10	2	6	50.33	4	2	12	8.50	7	2	12	8.50	5	4	12	8.50	176	0	4	4	1.75	3.89	788
	30	25	11	8	51.17	4	3	12	16.66	9	2	6	50.66	4	2	12	8.50	6	2	12	8.50	5	4	12	8.50	178	0	4	4	1.91	5.45	691
	40	31	12	8	51.33	4	3	12	16.66	9	2	6	50.83	4	2	12	8.50	4	4	6	8.50	6	4	12	8.50	178	0	4	4	2	6.47	705
	50	36	14	8	51.67	4	3	12	16.66	10	2	6	51.16	4	2	12	8.50	5	2	12	8.50	7	4	12	8.50	178	0	4	4	2.16	7.43	813
	60	40	15	8	51.83	4	3	12	16.66	10	2	6	51.33	4	2	12	8.50	5	2	12	8.50	8	4	12	8.50	178	0	4	4	2.25	8.15	836

3 @ 16 x 11 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	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	9.50	4	2	12	9.50	4	4	12	9.50	134	48	4	4	1.66	3.06	722
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	9.50	5	2	12	9.50	4	4	12	9.50	134	48	4	4	1.66	3.13	740
	5	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	4	2	12	9.50	4	4	6	9.50	4	4	12	9.50	184	0	4	4	1.66	3.13	745
	10	14	8	8	50.67	7	2	6	50.15	6	2	6	50.15	4	2	12	9.50	8	2	12	9.50	4	4	12	9.50	184	0	4	4	1.66	3.60	689
Moment Break	20	16	10	8	51.00	4	3	12	16.66	10	2	6	50.50	4	2	12	9.50	8	2	12	9.50	5	4	12	9.50	186	0	4	4	1.83	4.07	817
	30	25	12	8	51.33	4	3	12	16.66	9	2	6	50.83	4	2	12	9.50	7	2	12	9.50	5	4	12	9.50	186	0	4	4	2	5.65	716
	40	31	13	8	51.50	4	3	12	16.66	9	2	6	51.00	4	2	12	9.50	7	2	12	9.50	6	4	12	9.50	186	0	4	4	2.08	6.68	735
	50	36	15	8	51.83	4	3	12	16.66	10	2	6	51.33	4	2	12	9.50	7	2	12	9.50	7	4	12	9.50	186	0	4	4	2.25	7.65	851
	60	40	16	8	52.00	4	3	12	16.66	10	2	6	51.50	4	2	12	9.50	7	2	12	9.50	8	4	12	9.50	188	0	4	4	2.33	8.38	878

3 @ 16 x 12 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	10.5	8	8	50.67	7	2	6	50.16	7	2	6	50.16	4	2	12	10.50	5	2	12	10.50	4	4	12	10.50	142	48	4	4	1.66	3.16	741
	3	11	8	8	50.67	10	1	12	50.16	7	2	6	50.16	4	2	12	10.50	4	4	6	10.50	4	4	12	10.50	142	48	4	4	1.66	3.23	758
	5	11	8	8	50.67	11	1	12	50.16	9	1	12	50.16	4	2	12	10.50	7	2	12	10.50	4	4	12	10.50	192	0	4	4	1.66	3.23	772
	10	14	9	8	50.83	7	2	6	50.33	6	2	6	50.33	4	2	12	10.50	8	2	12	10.50	4	4	12	10.50	192	0	4	4	1.75	3.78	705
Moment Break	20	16	11	8	51.17	4	3	12	16.66	10	2	6	50.66	4	2	12	10.50	8	2	12	10.50	5	4	12	10.50	194	0	4	4	1.91	4.26	835
	30	25	13	8	51.50	4	3	12	16.66	9	2	6	51.00	4	2	12	10.50	8	2	12	10.50	5	4	12	10.50	194	0	4	4	2.08	5.86	746
	40	31	15	8	51.83	4	3	12	16.66	9	2	6	51.33	4	2	12	10.50	7	2	12	10.50	6	4	12	10.50	194	0	4	4	2.25	6.99	755
	50	36	17	8	52.17	4	3	12	16.66	10	2	6	51.67	4	2	12	10.50	7	2	12	10.50	7	4	12	10.50	196	0	4	4	2.41	7.98	874
	60	40	18	8	52.33	4	3	12	16.66	10	2	6	51.83	4	2	12	10.50	7	2	12	10.50	8	4	12	10.50	196	0	4	4	2.5	8.72	902

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.

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 16'-0" CLEAR HEIGHTS 9'-0" THRU 12'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-146

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

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