CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

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

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	89	36	3	3	1.66	2.26	499
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	89	36	3	3	1.66	2.32	571
	5	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	127	0	3	3	1.66	2.44	519
	10	14	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	7.50	5	2	12	7.50	4	2	12	7.50	127	0	3	3	1.66	2.55	620
Moment Break	20	18	8	8	38.00	4	2	12	18.66	11	2	6	37.50	4	2	12	7.50	4	4	6	7.50	5	2	12	7.50	127	0	3	3	1.66	3.02	645
	30	28	9	8	38.17	4	2	12	18.66	10	2	6	37.66	4	2	12	7.50	4	4	6	7.50	4	4	6	7.50	127	0	3	3	1.75	4.27	575
	40	35	11	8	38.50	4	2	12	18.66	10	2	6	38.00	4	2	12	7.50	4	2	12	7.50	7	2	12	7.50	127	0	3	3	1.91	5.24	579
	50	40	12	8	38.67	4	2	12	18.66	10	2	6	38.16	4	2	12	7.50	4	2	12	7.50	8	2	12	7.50	127	0	3	3	2	5.91	590
	60	45	13	8	38.83	4	2	12	18.66	10	2	6	38.33	4	2	12	7.50	4	2	12	7.50	9	2	12	7.50	127	0	3	3	2.08	6.58	602

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	8.50	4	2	12	8.50	4	2	12	8.50	95	36	3	3	1.66	2.34	507
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	8.50	4	2	12	8.50	4	2	12	8.50	95	36	3	3	1.66	2.39	579
	5	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	4	2	12	8.50	5	2	12	8.50	4	2	12	8.50	133	0	3	3	1.66	2.51	533
	10	14	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	8.50	4	4	6	8.50	4	2	12	8.50	133	0	3	3	1.66	2.63	634
Moment Break	20	18	9	8	38.17	4	2	12	18.66	11	2	6	37.66	4	2	12	8.50	7	2	12	8.50	5	2	12	8.50	133	0	3	3	1.75	3.17	669
	30	28	11	8	38.50	4	2	12	18.66	10	2	6	38.00	4	2	12	8.50	4	4	6	8.50	4	4	6	8.50	133	0	3	3	1.91	4.50	589
	40	35	12	8	38.67	4	2	12	18.66	10	2	6	38.16	4	2	12	8.50	4	4	6	8.50	7	2	12	8.50	133	0	3	3	2	5.41	603
	50	40	13	8	38.83	4	2	12	18.66	10	2	6	38.33	4	2	12	8.50	5	2	12	8.50	8	2	12	8.50	133	0	3	3	2.08	6.09	610
	60	45	15	8	39.17	4	2	12	18.66	10	2	6	38.66	4	2	12	8.50	4	2	12	8.50	9	2	12	8.50	135	0	3	3	2.25	6.86	620

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	9.50	4	2	12	9.50	4	2	12	9.50	101	36	3	3	1.66	2.41	515
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	9.50	5	2	12	9.50	4	2	12	9.50	101	36	3	3	1.66	2.47	594
	5	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	4	2	12	9.50	4	4	6	9.50	4	2	12	9.50	139	0	3	3	1.66	2.58	548
	10	14	8	8	38.00	9	2	6	37.50	7	2	6	37.50	4	2	12	9.50	8	2	12	9.50	4	2	12	9.50	139	0	3	3	1.66	2.70	668
Moment Break	20	18	10	8	38.33	4	2	12	18.66	11	2	6	37.83	4	2	12	9.50	7	2	12	9.50	5	2	12	9.50	139	0	3	3	1.83	3.33	682
	30	28	12	8	38.67	4	2	12	18.66	10	2	6	38.16	4	2	12	9.50	7	2	12	9.50	4	4	6	9.50	139	0	3	3	2.00	4.67	615
	40	35	13	8	38.83	4	2	12	18.66	10	2	6	38.33	4	2	12	9.50	7	2	12	9.50	7	2	12	9.50	139	0	3	3	2.08	5.59	630
	50	40	15	8	39.17	4	2	12	18.66	10	2	6	38.66	4	2	12	9.50	7	2	12	9.50	8	2	12	9.50	141	0	3	3	2.25	6.37	646
	60	45	16	8	39.33	4	2	12	18.66	10	2	6	38.83	4	2	12	9.50	4	4	6	9.50	9	2	12	9.50	141	0	3	3	2.33	7.07	648

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	10.50	5	2	12	10.50	4	2	12	10.50	107	36	3	3	1.66	2.48	531
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	10.50	4	4	6	10.50	4	2	12	10.50	107	36	3	3	1.66	2.54	609
	5	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	4	2	12	10.50	7	2	12	10.50	4	2	12	10.50	145	0	3	3	1.66	2.66	572
	10	14	9	8	38.17	9	2	6	37.66	7	2	6	37.66	4	2	12	10.50	8	2	12	10.50	4	2	12	10.50	145	0	3	3	1.75	2.86	682
Moment Break	20	18	11	8	38.50	4	2	12	18.66	11	2	6	38.00	4	2	12	10.50	8	2	12	10.50	5	2	12	10.50	145	0	3	3	1.91	3.50	709
	30	28	13	8	38.83	4	2	12	18.66	10	2	6	38.33	4	2	12	10.50	8	2	12	10.50	6	2	12	10.50	145	0	3	3	2.08	4.86	645
	40	35	15	8	39.17	4	2	12	18.66	10	2	6	38.66	4	2	12	10.50	5	4	6	10.50	7	2	12	10.50	147	0	3	3	2.25	5.88	648
	50	40	16	8	39.33	4	2	12	18.66	10	2	6	38.83	4	2	12	10.50	7	2	12	10.50	8	2	12	10.50	147	0	3	3	2.33	6.58	662
	60	45	18	8	39.67	4	2	12	18.66	10	2	6	39.16	4	2	12	10.50	6	2	12	10.50	9	2	12	10.50	147	0	3	3	2.50	7.38	669

2 @ 18 x 13 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	11.50	4	4	6	11.50	5	2	12	11.50	113	36	3	3	1.66	2.56	555
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	11.50	7	2	12	11.50	5	2	12	11.50	113	36	3	3	1.66	2.62	643
	5	13	8	8	38.00	8	2	6	37.50	6	2	6	37.50	4	2	12	11.50	6	4	6	11.50	5	2	12	11.50	151	0	3	3	1.66	2.73	613
	10	14	9	8	38.17	9	2	6	37.66	7	2	6	37.66	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	151	0	3	3	1.75	2.94	736
Moment Break	20	18	12	8	38.67	4	2	12	18.66	11	2	6	38.16	4	2	12	11.50	8	2	12	11.50	5	2	12	11.50	151	0	3	3	2.00	3.68	724
	30	28	14	8	39.00	4	2	12	18.66	10	2	6	38.50	4	2	12	11.50	8	2	12	11.50	6	2	12	11.50	153	0	3	3	2.16	5.06	661
	40	35	16	8	39.33	4	2	12	18.66	10	2	6	38.33	4	2	12	11.50	8	2	12	11.50	7	2	12	11.50	153	0	3	3	2.33	6.10	677
	50	40	18	8	39.67	4	2	12	18.66	10	2	6	39.16	4	2	12	11.50	5	4	6	11.50	8	2	12	11.50	153	0	3	3	2.50	6.91	681
	60	45	20	8	40.00	4	2	12	18.66	10	2	6	39.50	4	2	12	11.50	7	2	12	11.50	9	2	12	11.50	155	0	3	3	2.66	7.73	702

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.

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 18'-0"
CLEAR HEIGHTS 9'-0" THRU 13'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-129

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

G:\pw\15-2003