CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

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

2 @ 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	34.00	10	1	12	33.50	9	1	12	33.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	85	32	3	3	1.66	2.01	469
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	85	32	3	3	1.66	2.17	462
	5	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	4	2	12	7.50	4	2	12	7.50	4	2	12	7.50	119	0	3	3	1.66	2.17	467
	10	13	8	8	34.00	9	2	6	33.50	6	2	6	33.50	4	2	12	7.50	5	2	12	7.50	4	2	12	7.50	119	0	3	3	1.66	2.28	534
Moment Break	20	16	8	8	34.00	4	2	12	16.66	10	2	6	33.50	4	2	12	7.50	6	2	12	7.50	5	2	12	7.50	119	0	3	3	1.66	2.59	529
	30	25	10	8	34.33	4	2	12	16.66	9	2	6	33.83	4	2	12	7.50	5	2	12	7.50	4	4	6	7.50	119	0	3	3	1.83	3.67	468
	40	31	11	8	34.50	4	2	12	16.66	9	2	6	34.00	4	2	12	7.50	5	2	12	7.50	7	2	12	7.50	119	0	3	3	1.91	4.38	480
	50	36	12	8	34.67	4	2	12	16.66	10	2	6	34.16	4	2	12	7.50	4	2	12	7.50	8	2	12	7.50	119	0	3	3	2	4.99	547
	60	40	13	8	34.83	4	2	12	16.66	10	2	6	34.33	4	2	12	7.50	4	2	12	7.50	6	2	6	7.50	119	0	3	3	2.08	5.49	553

2 @ 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	34.00	10	1	12	33.50	9	1	12	33.50	4	2	12	8.50	4	2	12	8.50	4	2	12	8.50	91	32	3	3	1.66	2.09	477
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	8.50	4	2	12	8.50	4	2	12	8.50	91	32	3	3	1.66	2.25	470
	5	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	4	2	12	8.50	5	2	12	8.50	4	2	12	8.50	125	0	3	3	1.66	2.25	482
	10	13	8	8	34.00	9	2	6	33.50	6	2	6	33.50	4	2	12	8.50	4	4	6	8.50	4	2	12	8.50	125	0	3	3	1.66	2.35	548
Moment Break	20	16	9	8	34.17	4	2	12	16.66	10	2	6	33.66	4	2	12	8.50	7	2	12	8.50	5	2	12	8.50	125	0	3	3	1.75	2.73	550
	30	25	11	8	34.50	4	2	12	16.66	9	2	6	34.00	4	2	12	8.50	6	2	12	8.50	4	4	6	8.50	125	0	3	3	1.91	3.83	487
	40	31	12	8	34.67	4	2	12	16.66	9	2	6	34.16	4	2	12	8.50	4	4	6	8.50	7	2	12	8.50	125	0	3	3	2	4.55	498
	50	36	14	8	35.00	4	2	12	16.66	10	2	6	34.50	4	2	12	8.50	5	2	12	8.50	8	2	12	8.50	127	0	3	3	2.16	5.24	570
	60	40	15	8	35.17	4	2	12	16.66	10	2	6	34.66	4	2	12	8.50	5	2	12	8.50	6	4	6	8.50	127	0	3	3	2.25	5.76	577

2 @ 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	34.00	10	1	12	33.50	9	1	12	33.50	4	2	12	9.50	4	2	12	9.50	4	2	12	9.50	97	32	3	3	1.66	2.16	485
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	9.50	5	2	12	9.50	4	2	12	9.50	97	32	3	3	1.66	2.32	485
	5	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	4	2	12	9.50	4	4	6	9.50	4	2	12	9.50	131	0	3	3	1.66	2.32	497
	10	13	8	8	34.00	9	2	6	33.50	6	2	6	33.50	4	2	12	9.50	8	2	12	9.50	4	2	12	9.50	131	0	3	3	1.66	2.42	584
Moment Break	20	16	10	8	34.33	4	2	12	16.66	10	2	6	33.83	4	2	12	9.50	8	2	12	9.50	5	2	12	9.50	131	0	3	3	1.83	2.89	576
	30	25	12	8	34.67	4	2	12	16.66	9	2	6	34.16	4	2	12	9.50	7	2	12	9.50	4	4	6	9.50	131	0	3	3	2	4.01	511
	40	31	13	8	34.83	4	2	12	16.66	9	2	6	34.33	4	2	12	9.50	7	2	12	9.50	7	2	12	9.50	131	0	3	3	2.08	4.73	526
	50	36	15	8	35.17	4	2	12	16.66	10	2	6	34.66	4	2	12	9.50	7	2	12	9.50	8	2	12	9.50	133	0	3	3	2.25	5.44	604
	60	40	16	8	35.33	4	2	12	16.66	10	2	6	34.83	4	2	12	9.50	7	2	12	9.50	6	4	6	9.50	133	0	3	3	2.33	5.97	612

2 @ 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	34.00	10	1	12	33.50	9	1	12	33.50	4	2	12	10.50	5	2	12	10.50	4	2	12	10.50	103	32	3	3	1.66	2.23	501
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	10.50	4	4	6	10.50	4	2	12	10.50	103	32	3	3	1.66	2.39	500
	5	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	4	2	12	10.50	7	2	12	10.50	4	2	12	10.50	137	0	3	3	1.66	2.39	521
	10	13	9	8	34.17	9	2	6	33.66	6	2	6	33.66	4	2	12	10.50	8	2	12	10.50	4	2	12	10.50	137	0	3	3	1.75	2.58	597
Moment Break	20	16	11	8	34.50	4	2	12	16.66	10	2	6	34.00	4	2	12	10.50	8	2	12	10.50	5	2	12	10.50	137	0	3	3	1.91	3.06	590
	30	25	13	8	34.83	4	2	12	16.66	9	2	6	34.33	4	2	12	10.50	8	2	12	10.50	4	4	6	10.50	137	0	3	3	2.08	4.19	537
	40	31	15	8	35.17	4	2	12	16.66	9	2	6	34.66	4	2	12	10.50	5	4	6	10.50	7	2	12	10.50	139	0	3	3	2.25	5.02	544
	50	36	17	8	35.50	4	2	12	16.66	10	2	6	35.00	4	2	12	10.50	7	2	12	10.50	8	2	12	10.50	139	0	3	3	2.41	5.74	622
	60	40	18	8	35.67	4	2	12	16.66	10	2	6	35.16	4	2	12	10.50	7	2	12	10.50	6	4	6	10.50	139	0	3	3	2.5	6.28	630

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

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

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

FH:\JAK-2003
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STD-15-126