2 @ 16 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	10.5	8	8	34.00	10	1	12	33.50	9	1	12	33.50	4	2	12	11.50	4	4	6	11.50	5	2	12	11.50	109	32	3	3	1.66	2.31	525
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	11.50	7	2	12	11.50	5	2	12	11.50	109	32	3	3	1.66	2.47	534
	5	12	8	8	34.00	11	1	12	33.50	8	1	12	33.50	4	2	12	11.50	6	4	6	11.50	5	2	12	11.50	143	0	3	3	1.66	2.47	563
	10	13	9	8	34.17	9	2	6	33.66	6	2	6	33.66	4	2	12	11.50	7	2	6	11.50	5	2	12	11.50	143	0	3	3	1.75	2.66	650
Moment Break	20	16	12	8	34.67	4	2	12	16.66	10	2	6	34.16	4	2	12	11.50	8	2	12	11.50	5	2	12	11.50	143	0	3	3	2	3.24	604
	30	25	14	8	35.00	4	2	12	16.66	9	2	6	34.50	4	2	12	11.50	6	4	6	11.50	4	4	6	11.50	145	0	3	3	2.16	4.39	561
	40	31	16	8	35.33	4	2	12	16.66	9	2	6	34.83	4	2	12	11.50	8	2	12	11.50	7	2	12	11.50	145	0	3	3	2.33	5.23	572
	50	36	18	8	35.67	4	2	12	16.66	10	2	6	35.16	4	2	12	11.50	8	2	12	11.50	8	2	12	11.50	145	0	3	3	2.5	5.97	652
	60	40	20	8	36.00	4	2	12	16.66	10	2	6	35.50	4	2	12	11.50	8	2	12	11.50	6	4	6	11.50	147	0	3	3	2.66	6.62	664

2 @ 16 x 14 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	12.50	7	2	12	12.50	5	2	12	12.50	115	32	3	3	1.66	2.38	553
	3	12	8	8	34.00	7	2	6	33.50	9	1	12	33.50	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	115	32	3	3	1.66	2.54	570
	5	12	9	8	34.17	11	1	12	33.66	8	1	12	33.66	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	149	0	3	3	1.75	2.63	578
	10	13	10	8	34.33	9	2	6	33.83	6	2	6	33.83	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	149	0	3	3	1.83	2.83	668
Moment Break	20	16	13	8	34.83	4	2	12	16.66	10	2	6	34.33	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	149	0	3	3	2.08	3.43	627
	30	25	15	8	35.17	4	2	12	16.66	9	2	6	34.66	4	2	12	12.50	6	4	6	12.50	4	4	6	12.50	151	0	3	3	2.25	4.60	576
	40	31	18	8	35.67	4	2	12	16.66	9	2	6	35.16	4	2	12	12.50	6	4	6	12.50	7	2	12	12.50	151	0	3	3	2.5	5.56	597
	50	36	20	8	36.00	4	2	12	16.66	10	2	6	35.50	4	2	12	12.50	8	2	12	12.50	8	2	12	12.50	153	0	3	3	2.66	6.32	672
	60	40	21	8	36.17	4	2	12	16.66	10	2	6	35.66	4	2	12	12.50	6	4	6	12.50	6	4	6	12.50	153	0	3	3	2.75	6.87	691

2 @ 16 x 15 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	13.50	6	4	6	13.50	4	4	6	13.50	121	32	3	3	1.66	2.46	598
	3	12	9	8	34.17	7	2	6	33.66	9	1	12	33.66	4	2	12	13.50	6	4	6	13.50	4	4	6	13.50	121	32	3	3	1.75	2.71	592
	5	12	9	8	34.17	11	1	12	33.66	8	1	12	33.66	4	2	12	13.50	7	4	6	13.50	4	4	6	13.50	155	0	3	3	1.75	2.71	628
	10	13	11	8	34.50	9	2	6	34.00	6	2	6	34.00	4	2	12	13.50	7	4	6	13.50	4	4	6	13.50	155	0	3	3	1.91	3.02	693
Moment Break	20	16	14	8	35.00	4	2	12	16.66	10	2	6	34.50	4	2	12	13.50	9	2	12	13.50	4	4	6	13.50	157	0	3	3	2.16	3.64	662
	30	25	16	8	35.33	4	2	12	16.66	9	2	6	34.83	4	2	12	13.50	7	4	6	13.50	4	4	6	13.50	157	0	3	3	2.33	4.82	620
	40	31	19	8	35.83	4	2	12	16.66	9	2	6	35.33	4	2	12	13.50	9	2	12	13.50	7	2	12	13.50	157	0	3	3	2.58	5.80	625
	50	36	21	8	36.17	4	2	12	16.66	10	2	6	35.66	4	2	12	13.50	9	2	12	13.50	8	2	12	13.50	159	0	3	3	2.75	6.58	710
	60	40	23	8	36.50	4	2	12	16.66	10	2	6	36.00	4	2	12	13.50	6	4	6	13.50	6	4	6	13.50	159	0	3	3	2.91	7.25	711

2 @ 16 x 16 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	9	8	34.17	10	1	12	33.66	9	1	12	33.66	4	2	12	14.50	8	2	12	14.50	7	2	12	14.50	127	32	3	3	1.75	2.58	624
	3	12	9	8	34.17	7	2	6	33.66	9	1	12	33.66	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	127	32	3	3	1.75	2.79	658
	5	12	10	8	34.33	11	1	12	33.83	8	1	12	33.83	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	161	0	3	3	1.83	2.90	666
	10	13	12	8	34.67	9	2	6	34.16	6	2	6	34.16	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	161	0	3	3	2	3.22	732
Moment Break	20	16	15	8	35.17	4	2	12	16.66	10	2	6	34.66	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	163	0	3	3	2.25	3.86	719
	30	25	18	8	35.67	4	2	12	16.66	9	2	6	35.16	4	2	12	14.50	9	2	12	14.50	7	2	12	14.50	163	0	3	3	2.5	5.17	640
	40	31	20	8	36.00	4	2	12	16.66	9	2	6	35.50	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	165	0	3	3	2.66	6.06	663
	50	36	23	8	36.50	4	2	12	16.66	10	2	6	36.00	4	2	12	14.50	9	2	12	14.50	8	2	12	14.50	165	0	3	3	2.91	6.97	730
	60	40	25	8	36.83	4	2	12	16.66	10	2	6	36.33	4	2	12	14.50	9	2	12	14.50	6	4	6	14.50	165	0	3	3	3.08	7.66	743

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.

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

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

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 13'-0" THRU 16'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-127

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

FL-GeAR-2003
3-1-06