CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 14 x 5 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	44.66	7	2	6	44.16	6	2	6	44.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	80	44	4	4	1.66	2.27	550
	3	10	8	8	44.66	10	1	12	44.16	7	2	6	44.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	80	44	4	4	1.66	2.20	608
	5	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	124	0	4	4	1.66	2.20	546
	10	13	8	8	44.66	9	1	12	44.16	8	1	12	44.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	124	0	4	4	1.66	2.61	491
Moment Break	20	15	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	124	0	4	4	1.66	2.89	553
	30	22	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	3.50	4	2	12	3.50	5	4	12	3.50	124	0	4	4	1.66	3.86	558
	40	28	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	3.50	4	2	12	3.50	4	8	6	3.50	124	0	4	4	1.66	4.68	562
	50	32	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	3.50	4	2	12	3.50	7	4	12	3.50	124	0	4	4	1.66	5.23	572
	60	36	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	3.50	4	2	12	3.50	7	2	12	3.50	124	0	4	4	1.66	5.79	572

3 @ 14 x 6 REINFORCED CONCRETE SLAB BRIDGE

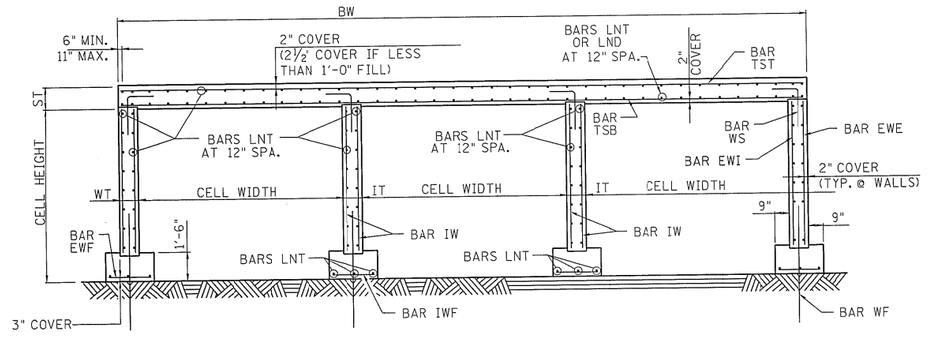
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	10.5	8	8	44.66	7	2	6	44.16	6	2	6	44.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	88	42	4	4	1.66	2.37	562
	3	10	8	8	44.66	10	1	12	44.16	7	2	6	44.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	88	42	4	4	1.66	2.30	619
	5	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	132	0	4	4	1.66	2.30	556
	10	13	8	8	44.66	9	1	12	44.16	8	1	12	44.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	132	0	4	4	1.66	2.71	502
Moment Break	20	15	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	132	0	4	4	1.66	2.99	563
	30	22	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	4.50	4	2	12	4.50	5	4	12	4.50	132	0	4	4	1.66	3.95	570
	40	28	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	4.50	4	2	12	4.50	4	8	6	4.50	132	0	4	4	1.66	4.78	575
	50	32	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	4.50	4	2	12	4.50	7	4	12	4.50	132	0	4	4	1.66	5.33	588
	60	36	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	4.50	4	2	12	4.50	7	2	12	4.50	132	0	4	4	1.75	5.94	589

3 @ 14 x 7 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	44.66	7	2	6	44.16	6	2	6	44.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	96	42	4	4	1.66	2.87	572
	3	10	8	8	44.66	10	1	12	44.16	7	2	6	44.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	96	42	4	4	1.66	2.40	629
	5	10	8	8	44.66	10	1	12	44.16	6	2	6	44.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	140	0	4	4	1.66	2.40	568
	10	13	8	8	44.66	9	1	12	44.16	8	1	12	44.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	140	0	4	4	1.66	2.81	513
Moment Break	20	15	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	5.50	4	2	12	5.50	4	4	12	5.50	140	0	4	4	1.66	3.09	575
	30	22	8	8	44.66	4	3	12	14.66	9	2	6	44.16	4	2	12	5.50	4	2	12	5.50	5	4	12	5.50	140	0	4	4	1.66	4.05	583
	40	28	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	5.50	4	2	12	5.50	4	8	6	5.50	140	0	4	4	1.75	4.94	591
	50	32	9	8	44.83	4	3	12	14.66	9	2	6	44.33	4	2	12	5.50	4	2	12	5.50	7	4	12	5.50	140	0	4	4	1.75	5.49	606
	60	36	10	8	45.00	4	3	12	14.66	9	2	6	44.50	4	2	12	5.50	4	2	12	5.50	7	4	12	5.50	142	0	4	4	1.83	6.11	608

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.



TYPICAL SECTION

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 14'-0"
CLEAR HEIGHTS 5'-0" THRU 7'-0"
0' THRU 60' FILL
2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-142

DESIGNED BY IHAB YOUSSEF DATE 9-99
DRAWN BY KEVIN MARTINKO DATE 3-00
SUPERVISED BY FIELDS & HOLLORAN DATE 3-00
CHECKED BY IHAB YOUSSEF DATE 6-00

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