2 @ 14 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.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	10.50	6	2	12	10.50	4	2	12	10.50	99	56	3	3	1.67	1.67	2.20	496
	3	14	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	10.50	5	4	6	10.50	4	2	12	10.50	99	56	3	3	1.67	1.67	2.44	508
	5	14	8	8	30.00	8	2	6	29.50	6	2	6	29.50	4	2	12	10.50	6	4	6	10.50	4	2	12	10.50	129	0	3	3	1.67	1.67	2.44	515
	10	17	9	8	30.17	8	2	6	29.67	6	2	6	29.67	4	2	12	10.50	7	4	6	10.50	4	2	12	10.50	129	0	3	3	1.75	1.67	2.80	539
Moment Break	20	17	11	8	30.50	4	2	12	14.66	9	2	6	30.00	4	2	12	10.50	7	4	6	10.50	4	2	12	10.50	129	0	3	3	1.92	1.67	2.96	515
	30	23	13	8	30.83	4	2	12	14.66	9	2	6	30.33	4	2	12	10.50	7	4	6	10.50	5	2	12	10.50	129	0	3	3	2.08	1.67	3.70	526
	40	29	15	8	31.17	4	2	12	14.66	9	2	6	30.67	4	2	12	10.50	7	4	6	10.50	6	2	12	10.50	131	0	3	3	2.25	1.67	4.45	539
	50	33	17	8	31.50	4	2	12	14.66	9	2	6	31.00	4	2	12	10.50	7	4	6	10.50	7	2	12	10.50	131	0	3	3	2.42	1.67	5.01	553
	60	37	18	8	31.67	4	2	12	14.66	9	2	6	31.17	4	2	12	10.50	6	4	6	10.50	6	4	6	10.50	131	0	3	3	2.50	1.67	5.50	552

2 @ 14 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.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	11.50	5	4	6	11.50	5	2	12	11.50	105	56	3	3	1.67	1.67	2.28	528
	3	14	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	11.50	6	4	6	11.50	5	2	12	11.50	105	56	3	3	1.67	1.67	2.51	549
	5	14	8	8	30.00	8	2	6	29.50	6	2	6	29.50	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	135	0	3	3	1.67	1.67	2.51	561
	10	17	9	8	30.17	8	2	6	29.67	6	2	6	29.67	4	2	12	11.50	8	4	6	11.50	5	2	12	11.50	135	0	3	3	1.75	1.67	2.88	591
Moment Break	20	17	12	8	30.67	4	2	12	14.66	9	2	6	30.17	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	135	0	3	3	2.00	1.67	3.14	540
	30	23	14	8	31.00	4	2	12	14.66	9	2	6	30.50	4	2	12	11.50	7	4	6	11.50	5	2	12	11.50	137	0	3	3	2.17	1.67	3.90	544
	40	29	16	8	31.33	4	2	12	14.66	9	2	6	30.83	4	2	12	11.50	7	4	6	11.50	6	2	12	11.50	137	0	3	3	2.33	1.67	4.66	557
	50	33	18	9	31.75	4	2	12	14.66	9	2	6	31.25	4	2	12	11.50	7	4	6	11.50	6	2	12	11.50	137	0	3	3	2.50	1.75	5.29	560
	60	37	20	9	32.08	4	2	12	14.66	9	2	6	31.58	4	2	12	11.50	7	4	6	11.50	5	4	6	11.50	139	0	3	3	2.67	1.75	5.88	577

2 @ 14 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.	Bars EWI Size	No.	Spacing in.	Length ft.	Bars IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Bars IWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	11.5	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	111	56	3	3	1.67	1.67	2.35	562
	3	14	8	8	30.00	7	2	6	29.50	7	2	6	29.50	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	111	56	3	3	1.67	1.67	2.58	589
	5	14	9	8	30.17	8	2	6	29.67	6	2	6	29.67	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	141	0	3	3	1.75	1.67	2.68	578
	10	17	10	8	30.33	8	2	6	29.83	6	2	6	29.83	4	2	12	12.50	8	4	6	12.50	5	2	12	12.50	141	0	3	3	1.83	1.67	3.05	611
Moment Break	20	17	13	8	30.83	4	2	12	14.66	9	2	6	30.33	4	2	12	12.50	8	4	6	12.50	5	2	12	12.50	141	0	3	3	2.08	1.67	3.34	588
	30	23	15	8	31.17	4	2	12	14.66	9	2	6	30.67	4	2	12	12.50	8	4	6	12.50	5	2	12	12.50	143	0	3	3	2.25	1.67	4.10	592
	40	29	18	8	31.67	4	2	12	14.66	9	2	6	31.17	4	2	12	12.50	7	4	6	12.50	6	2	12	12.50	143	0	3	3	2.50	1.67	4.99	576
	50	33	20	9	32.08	4	2	12	14.66	9	2	6	31.58	4	2	12	12.50	7	4	6	12.50	6	2	12	12.50	145	0	3	3	2.67	1.75	5.64	581
	60	37	22	9	32.42	4	2	12	14.66	9	2	6	31.92	4	2	12	12.50	7	4	6	12.50	5	4	6	12.50	145	0	3	3	2.83	1.75	6.24	598

CONST. NO. _____

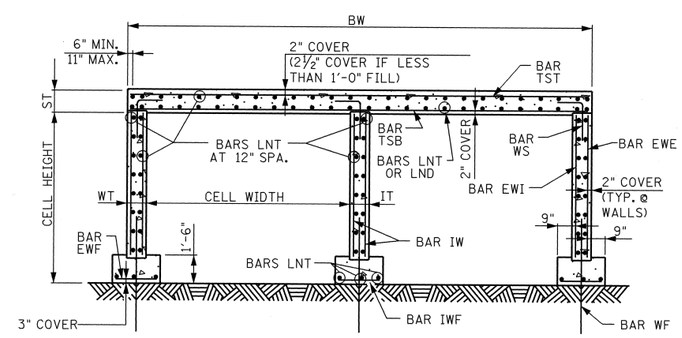
PROJECT NO.	YEAR	SHEET NO.
	2010	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

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 height of fill above the top slab is less than 1 foot, the top mat of reinforcing in the top slab shall be constructed with 2-1/2 inches of concrete cover.

The following bar information applies to all fill cases in the tables above:
Bars LNT Size = 4 Spacing = 12 in.
Bars LND Size = 4 Spacing = 6 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. = 1 Spacing = 12 in.
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-17-5.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STANDARD REINFORCED CONCRETE SLAB BRIDGE
INTERIOR SECTION
SPANS: 2 BARRELS AT 14'-0"
CLEAR HEIGHTS 12'-0" THRU 14'-0"
0' THRU 60' FILL
2010

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

DESIGNED BY	RLL/ALP	DATE	12-09
DRAWN BY	KEVIN MARTINKO	DATE	1-10
SUPERVISED BY	EPW/RLC	DATE	12-09
CHECKED BY	RLL/ALP	DATE	2-10

STD-17-141