CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

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

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	12.50	7	2	12	12.50	5	2	12	12.50	119	36	3	3	1.66	2.63	583
	3	12	8	8	38.00	11	1	12	37.50	7	2	6	37.50	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	119	36	3	3	1.66	2.69	678
	5	13	9	8	38.17	8	2	6	37.66	6	2	6	37.66	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	157	0	3	3	1.75	2.90	628
	10	14	10	8	38.33	9	2	6	37.83	7	2	6	37.83	4	2	12	12.50	7	4	6	12.50	5	2	12	12.50	157	0	3	3	1.83	3.11	753
Moment Break	20	18	13	8	38.83	4	2	12	18.66	11	2	6	38.33	4	2	12	12.50	6	4	6	12.50	5	2	12	12.50	157	0	3	3	2.08	3.87	747
	30	28	15	8	39.17	4	2	12	18.66	10	2	6	38.66	4	2	12	12.50	9	2	12	12.50	6	2	12	12.50	159	0	3	3	2.25	5.27	695
	40	35	17	8	39.50	4	2	12	18.66	10	2	6	39.00	4	2	12	12.50	9	2	12	12.50	7	2	12	12.50	159	0	3	3	2.41	6.33	711
	50	40	19	8	39.83	4	2	12	18.66	10	2	6	39.33	4	2	12	12.50	6	4	6	12.50	8	2	12	12.50	159	0	3	3	2.58	7.15	720
	60	45	21	8	40.17	4	2	12	18.66	10	2	6	39.66	4	2	12	12.50	8	2	12	12.50	9	2	12	12.50	161	0	3	3	2.75	7.98	735

2 @ 18 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	11.5	8	8	38.00	7	2	6	37.50	9	1	12	37.50	4	2	12	13.50	6	4	6	13.50	4	4	6	13.50	125	36	3	3	1.66	2.71	628
	3	12	9	8	38.17	11	1	12	37.66	7	2	6	37.66	4	2	12	13.50	6	4	6	13.50	4	4	6	13.50	125	36	3	3	1.75	2.86	701
	5	13	9	8	38.17	8	2	6	37.66	6	2	6	37.66	4	2	12	13.50	7	4	6	13.50	4	4	6	13.50	163	0	3	3	1.75	2.98	679
	10	14	11	8	38.50	9	2	6	38.00	7	2	6	38.00	4	2	12	13.50	7	4	6	13.50	4	4	6	13.50	163	0	3	3	1.91	3.30	779
Moment Break	20	18	14	8	39.00	4	2	12	18.66	11	2	6	38.50	4	2	12	13.50	9	2	12	13.50	4	4	6	13.50	165	0	3	3	2.16	4.08	782
	30	28	16	8	39.33	4	2	12	18.66	10	2	6	38.83	4	2	12	13.50	9	2	12	13.50	6	2	12	13.50	165	0	3	3	2.33	5.50	711
	40	35	19	8	39.83	4	2	12	18.66	10	2	6	39.33	4	2	12	13.50	9	2	12	13.50	7	2	12	13.50	165	0	3	3	2.58	6.68	731
	50	40	21	8	40.17	4	2	12	18.66	10	2	6	39.66	4	2	12	13.50	9	2	12	13.50	8	2	12	13.50	167	0	3	3	2.75	7.52	753
	60	45	23	8	40.50	4	2	12	18.66	10	2	6	40.00	4	2	12	13.50	6	4	6	13.50	9	2	12	13.50	167	0	3	3	2.91	8.37	765

2 @ 18 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	11.5	9	8	38.17	7	2	6	37.66	9	1	12	37.66	4	2	12	14.50	6	4	6	14.50	7	2	12	14.50	131	36	3	3	1.75	2.88	664
	3	12	9	8	38.17	11	1	12	37.66	7	2	6	37.66	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	131	36	3	3	1.75	2.94	767
	5	13	10	8	38.33	8	2	6	37.83	6	2	6	37.83	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	169	0	3	3	1.83	3.17	717
	10	14	11	8	38.50	9	2	6	38.00	7	2	6	38.00	4	2	12	14.50	11	2	12	14.50	7	2	12	14.50	169	0	3	3	1.91	3.39	851
Moment Break	20	18	15	8	39.17	4	2	12	18.66	11	2	6	38.66	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	171	0	3	3	2.25	4.30	839
	30	28	18	8	39.67	4	2	12	18.66	10	2	6	39.16	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	171	0	3	3	2.50	5.85	765
	40	35	20	8	40.00	4	2	12	18.66	10	2	6	39.50	4	2	12	14.50	7	4	6	14.50	7	2	12	14.50	173	0	3	3	2.66	6.94	770
	50	40	23	8	40.50	4	2	12	18.66	10	2	6	40.00	4	2	12	14.50	9	2	12	14.50	8	2	12	14.50	173	0	3	3	2.91	7.91	773
	60	45	25	8	40.83	4	2	12	18.66	10	2	6	40.33	4	2	12	14.50	9	2	12	14.50	9	2	12	14.50	173	0	3	3	3.08	8.78	798

2 @ 18 x 17 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	9	8	38.17	7	2	6	37.66	9	1	12	37.66	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	137	36	3	3	1.75	2.96	714
	3	12	10	8	38.33	11	1	12	37.83	7	2	6	37.83	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	137	36	3	3	1.83	3.13	788
	5	13	11	8	38.50	8	2	6	38.00	6	2	6	38.00	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	175	0	3	3	1.91	3.36	738
	10	14	12	8	38.67	9	2	6	38.16	7	2	6	38.16	4	2	12	15.50	11	2	12	15.50	5	4	6	15.50	175	0	3	3	2.00	3.59	874
Moment Break	20	18	16	8	39.33	4	2	12	18.66	11	2	6	38.83	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	177	0	3	3	2.33	4.53	860
	30	28	19	8	39.83	4	2	12	18.66	10	2	6	39.33	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	177	0	3	3	2.58	6.10	786
	40	35	22	8	40.33	4	2	12	18.66	10	2	6	39.83	4	2	12	15.50	7	4	6	15.50	5	4	6	15.50	179	0	3	3	2.83	7.33	792
	50	40	24	8	40.67	4	2	12	18.66	10	2	6	40.16	4	2	12	15.50	7	4	6	15.50	8	2	12	15.50	179	0	3	3	3.00	8.20	814
	60	45	26	8	41.00	4	2	12	18.66	10	2	6	40.50	4	2	12	15.50	7	4	6	15.50	9	2	12	15.50	181	0	3	3	3.16	9.09	840

2 @ 18 x 18 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	10	8	38.33	7	2	6	37.83	9	1	12	37.83	4	2	12	16.50	7	4	6	16.50	8	2	12	16.50	143	36	3	3	1.83	3.16	753
	3	12	11	8	38.50	11	1	12	38.00	7	2	6	38.00	4	2	12	16.50	7	4	6	16.50	8	2	12	16.50	143	36	3	3	1.91	3.34	827
	5	13	11	8	38.50	8	2	6	38.00	6	2	6	38.00	4	2	12	16.50	11	2	12	16.50	8	2	12	16.50	181	0	3	3	1.91	3.46	815
	10	14	13	8	38.83	9	2	6	38.33	7	2	6	38.33	4	2	12	16.50	11	2	12	16.50	8	2	12	16.50	181	0	3	3	2.08	3.81	915
Moment Break	20	18	17	8	39.50	4	2	12	18.66	11	2	6	39.00	4	2	12	16.50	11	2	12	16.50	8	2	12	16.50	183	0	3	3	2.41	4.77	939
	30	28	20	8	40.00	4	2	12	18.66	10	2	6	39.50	4	2	12	16.50	10	2	12	16.50	8	2	12	16.50	185	0	3	3	2.66	6.37	833
	40	35	23	8	40.50	4	2	12	18.66	10	2	6	40.00	4	2	12	16.50	7	4	6	16.50	8	2	12	16.50	185	0	3	3	2.91	7.62	831
	50	40	26	8	41.00	4	2	12	18.66	10	2	6	40.50	4	2	12	16.50	10	2	12	16.50	8	2	12	16.50	187	0	3	3	3.16	8.64	844
	60	45	28	8	41.33	4	2	12	18.66	10	2	6	40.83	4	2	12	16.50	10	2	12	16.50	9	2	12	16.50	187	0	3	3	3.33	9.54	871

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 14'-0" THRU 18'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-130

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

DWG-DRF-2003
13-Dec-00