3 @ 18 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	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	124	54	4	4	1.66	3.06	829
	3	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	124	54	4	4	1.66	3.32	829
	5	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	7.50	4	2	12	7.50	4	4	12	7.50	180	0	4	4	1.66	3.32	810
	10	15	8	8	56.67	11	1	12	56.15	7	2	6	56.15	4	2	12	7.50	5	2	12	7.50	4	4	12	7.50	180	0	4	4	1.66	3.84	815
Moment Break	20	18	8	8	56.67	4	3	12	18.66	11	2	6	56.16	4	2	12	7.50	4	4	6	7.50	5	4	12	7.50	180	0	4	4	1.66	4.37	937
	30	28	9	8	56.83	4	3	12	18.66	10	2	6	56.33	4	2	12	7.50	4	4	6	7.50	4	8	6	7.50	180	0	4	4	1.75	6.18	834
	40	35	11	8	57.17	4	3	12	18.66	10	2	6	56.66	4	2	12	7.50	4	2	12	7.50	7	4	12	7.50	182	0	4	4	1.91	7.56	850
	50	40	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	7.50	4	2	12	7.50	8	4	12	7.50	182	0	4	4	2	8.52	871
	60	45	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	7.50	4	2	12	7.50	6	8	6	7.50	182	0	4	4	2.08	9.48	882

3 @ 18 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	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	132	54	4	4	1.66	3.15	839
	3	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	8.50	4	2	12	8.50	4	4	12	8.50	132	54	4	4	1.66	3.41	839
	5	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	8.50	5	2	12	8.50	4	4	12	8.50	188	0	4	4	1.66	3.41	827
	10	15	8	8	56.67	11	1	12	56.15	7	2	6	56.15	4	2	12	8.50	4	4	6	8.50	4	4	12	8.50	188	0	4	4	1.66	3.94	832
Moment Break	20	18	9	8	56.83	4	3	12	18.66	11	2	6	56.33	4	2	12	8.50	7	2	12	8.50	5	4	12	8.50	188	0	4	4	1.75	4.54	965
	30	28	11	8	57.17	4	3	12	18.66	10	2	6	56.66	4	2	12	8.50	4	4	6	8.50	4	8	6	8.50	190	0	4	4	1.91	6.44	853
	40	35	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	8.50	4	4	6	8.50	7	4	12	8.50	190	0	4	4	2	7.76	879
	50	40	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	8.50	5	2	12	8.50	8	4	12	8.50	190	0	4	4	2.08	8.72	897
	60	45	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	8.50	4	2	12	8.50	6	8	6	8.50	190	0	4	4	2.25	9.78	905

3 @ 18 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	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	9.50	4	2	12	9.50	4	4	12	9.50	140	54	4	4	1.66	3.25	850
	3	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	9.50	5	2	12	9.50	4	4	12	9.50	140	54	4	4	1.66	3.51	857
	5	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	9.50	5	2	12	9.50	4	4	12	9.50	196	0	4	4	1.66	3.51	838
	10	15	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	9.50	5	4	6	9.50	4	4	12	9.50	196	0	4	4	1.66	4.04	858
Moment Break	20	18	10	8	57.00	4	3	12	18.66	11	2	6	56.50	4	2	12	9.50	7	2	12	9.50	5	4	12	9.50	198	0	4	4	1.83	4.72	983
	30	28	12	8	57.33	4	3	12	18.66	10	2	6	56.83	4	2	12	9.50	7	2	12	9.50	4	8	6	9.50	198	0	4	4	2.00	6.64	883
	40	35	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	9.50	7	2	12	9.50	7	4	12	9.50	198	0	4	4	2.08	7.97	911
	50	40	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	9.50	7	2	12	9.50	8	4	12	9.50	198	0	4	4	2.25	9.03	938
	60	45	16	8	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	9.50	4	4	6	9.50	6	8	6	9.50	200	0	4	4	2.33	10.01	941

3 @ 18 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	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	10.50	5	2	12	10.50	4	4	12	10.50	148	54	4	4	1.66	3.35	868
	3	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	10.50	4	4	6	10.50	4	4	12	10.50	148	54	4	4	1.66	3.61	875
	5	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	10.50	7	2	12	10.50	4	4	12	10.50	204	0	4	4	1.66	3.61	870
	10	15	9	8	56.83	11	1	12	56.33	7	2	6	56.33	4	2	12	10.50	8	2	12	10.50	4	4	12	10.50	204	0	4	4	1.75	4.22	885
Moment Break	20	18	11	8	57.17	4	3	12	18.66	11	2	6	56.66	4	2	12	10.50	8	2	12	10.50	5	4	12	10.50	206	0	4	4	1.91	4.91	1013
	30	28	13	8	57.50	4	3	12	18.66	10	2	6	57.00	4	2	12	10.50	8	2	12	10.50	4	8	6	10.50	206	0	4	4	2.08	6.85	914
	40	35	15	8	57.83	4	3	12	18.66	10	2	6	57.33	4	2	12	10.50	5	4	6	10.50	7	4	12	10.50	206	0	4	4	2.25	8.28	935
	50	40	16	8	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	10.50	7	2	12	10.50	8	4	12	10.50	208	0	4	4	2.33	9.27	963
	60	45	18	8	58.33	4	3	12	18.66	10	2	6	57.83	4	2	12	10.50	6	2	12	10.50	6	8	6	10.50	208	0	4	4	2.50	10.36	968

3 @ 18 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	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	11.50	4	4	6	11.50	5	4	12	11.50	156	54	4	4	1.66	3.45	905
	3	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	11.50	7	2	12	11.50	5	4	12	11.50	156	54	4	4	1.66	3.71	921
	5	12	8	8	56.67	11	1	12	56.16	7	2	6	56.16	4	2	12	11.50	6	4	6	11.50	5	4	12	11.50	212	0	4	4	1.66	3.71	924
	10	15	9	8	56.83	11	1	12	56.33	7	2	6	56.33	4	2	12	11.50	7	4	6	11.50	5	4	12	11.50	212	0	4	4	1.75	4.32	951
Moment Break	20	18	12	8	57.33	4	3	12	18.66	11	2	6	56.83	4	2	12	11.50	8	2	12	11.50	5	4	12	11.50	214	0	4	4	2.00	5.12	1031
	30	28	14	8	57.67	4	3	12	18.66	10	2	6	57.16	4	2	12	11.50	8	2	12	11.50	4	8	6	11.50	214	0	4	4	2.16	7.08	933
	40	35	16	8	58.00	4	3	12	18.66	10	2	6	57.50	4	2	12	11.50	8	2	12	11.50	7	4	12	11.50	216	0	4	4	2.33	8.52	969
	50	40	18	8	58.33	4	3	12	18.66	10	2	6	57.83	4	2	12	11.50	5	4	6	11.50	8	4	12	11.50	216	0	4	4	2.50	9.62	988
	60	45	20	8	58.67	4	3	12	18.66	10	2	6	58.16	4	2	12	11.50	7	2	12	11.50	6	8	6	11.50	216	0	4	4	2.66	10.72	1005

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.

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

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	12-7-01	CMH	REVISED TITLE BLOCK

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 18'-0" CLEAR HEIGHTS 9'-0" THRU 13'-0" 0'-0" THRU 60'-0" FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-149