CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

3 @ 10 x 4 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	9.5	8	8	32.67	6	2	6	32.16	8	1	12	32.16	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	60	30	4	4	1.66	1.68	388
	3	9	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	60	30	4	4	1.66	1.63	412
	5	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	92	0	4	4	1.66	1.53	358
	10	10	8	8	32.67	8	1	12	32.15	7	1	12	32.15	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	92	0	4	4	1.66	1.73	347
Moment Break	20	11	8	8	32.67	4	3	12	10.66	11	1	12	32.16	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	92	0	4	4	1.66	1.83	388
	30	17	8	8	32.67	4	3	12	10.66	7	2	6	32.16	4	2	12	2.50	4	2	12	2.50	4	4	12	2.50	92	0	4	4	1.66	2.44	349
	40	21	8	8	32.67	4	3	12	10.66	7	2	6	32.16	4	1	12	2.50	4	2	12	2.50	5	4	12	2.50	92	0	4	4	1.66	2.84	352
	50	24	8	8	32.67	4	3	12	10.66	10	1	12	32.16	4	2	12	2.50	4	2	12	2.50	4	8	6	2.50	92	0	4	4	1.66	3.14	362
	60	26	8	8	32.67	4	3	12	10.66	11	1	12	32.16	4	2	12	2.50	4	2	12	2.50	4	8	6	2.50	92	0	4	4	1.66	3.34	395

3 @ 10 x 5 REINFORCED CONCRETE SLAB BRIDGE

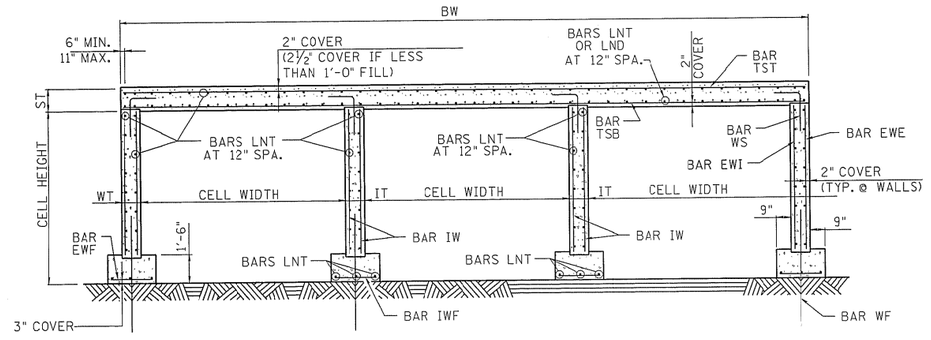
	Fill Height ft.	Dimensions ST in.	WT in.	IT in.	BW ft.	Bars TST Size	No.	Spacing in.	Length ft.	Bars TSB Size	No.	Spacing in.	Length ft.	Bars EWE Size	No.	Spacing in.	Length ft.	Bar EWI Size	No.	Spacing in.	Length ft.	Bar IW Size	No.	Spacing in.	Length ft.	Bars LNT No.	Bars LND No.	Bars WS No.	Bars WF No.	Bars EWF Length ft.	Concrete CY/LF	Reinf. Steel LB/LF
Continuous	No Fill	9.0	8	8	32.67	5	2	6	32.16	8	1	12	32.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	68	30	4	4	1.66	1.73	400
	3	9	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	68	30	4	4	1.66	1.73	423
	5	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	100	0	4	4	1.66	1.63	370
	10	10	8	8	32.67	8	1	12	32.15	7	1	12	32.15	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	100	0	4	4	1.66	1.83	359
Moment Break	20	11	8	8	32.67	4	3	12	10.66	11	1	12	32.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	100	0	4	4	1.66	1.93	399
	30	17	8	8	32.67	4	3	12	10.66	7	2	6	32.16	4	2	12	3.50	4	2	12	3.50	4	4	12	3.50	100	0	4	4	1.66	2.54	360
	40	21	8	8	32.37	4	3	12	10.66	7	2	6	32.16	4	2	12	3.50	4	2	12	3.50	5	4	12	3.50	100	0	4	4	1.66	2.94	365
	50	24	8	8	32.67	4	3	12	10.66	10	1	12	32.16	4	2	12	3.50	4	2	12	3.50	4	8	6	3.50	100	0	4	4	1.66	3.24	376
	60	26	8	8	32.67	4	3	12	10.67	11	1	12	32.16	4	2	12	3.50	4	2	12	3.50	4	8	6	3.50	100	0	4	4	1.66	3.44	409

3 @ 10 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	9.5	8	8	32.67	6	2	6	32.16	8	1	12	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	76	30	4	4	1.66	1.88	410
	3	9	8	8	32.67	9	1	12	32.16	6	2	6	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	76	30	4	4	1.66	1.83	433
	5	8	8	8	32.67	6	2	6	32.16	7	1	12	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	108	0	4	4	1.66	1.73	380
	10	10	8	8	32.67	8	1	12	32.16	7	1	12	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	108	0	4	4	1.66	1.93	369
Moment Break	20	11	8	8	32.67	4	3	12	10.66	11	1	12	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	108	0	4	4	1.66	2.03	410
	30	17	8	8	32.67	4	3	12	10.66	7	2	6	32.16	4	2	12	4.50	4	2	12	4.50	4	4	12	4.50	108	0	4	4	1.66	2.63	370
	40	21	8	8	32.67	4	3	12	10.66	7	2	6	32.16	4	2	12	4.50	4	2	12	4.50	5	4	12	4.50	108	0	4	4	1.66	3.04	377
	50	24	9	8	32.83	4	3	12	10.66	10	1	12	32.33	4	2	12	4.50	4	2	12	4.50	4	8	6	4.50	108	0	4	4	1.75	3.39	390
	60	26	9	8	32.83	4	3	12	10.65	11	1	12	32.33	4	2	12	4.50	4	2	12	4.50	4	8	6	4.50	108	0	4	4	1.75	3.59	423

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 10'-0" CLEAR HEIGHTS 4'-0" THRU 6'-0" 0' THRU 60' FILL 2000

CORRECT Edward P. Wasserman
ENGINEER OF STRUCTURES

STD-15-138

DESIGNED BY	JOSH HARPER	DATE 1-00
DRAWN BY	KEVIN MARTINKO	DATE 3-00
SUPERVISED BY	FIELDS & HOLLORAN	DATE 3-00
CHECKED BY	JOHN CROSSLIN	DATE 6-00

SHEET 2 OF 2
DATE 2001
FILE 10\3barrel.sldpl