



SLAB LAYOUT

(LEFT AHEAD SKEW SHOWN, RIGHT AHEAD SKEW SIMILAR)

NOTE: CONCRETE DECK SLAB SHALL BE PLACED IN SECTIONS AND SEQUENCES INDICATED. ALTERNATE PROCEDURES FOR PLACING SLAB CONCRETE MAY BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF THE PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED RESULTS.

ESTIMATED QUANTITIES (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
PRETENSIONED PRESTRESSED CONCRETE BEAM, CENTER SPAN	NO.	7-A50	7-A55	7-B59	7-B63	7-B67	7-C71	7-C75	7-C80	7-C80	7-C80
PRETENSIONED PRESTRESSED CONCRETE BEAM, END SPAN	NO.	14-A42	14-A46	14-B50	14-B55	14-B59	14-C63	14-C67	14-C71	14-C80	14-C80
CONCRETE RAIL (BARRIER OR OPEN)	L.F.	311.9	336.9	361.9	386.9	411.9	456.7	481.7	506.7	540.0	540.0
NO. OF WOOD PILES, TREATED FOR TWO ABUTMENTS	NO.	30	32	34	34	36	-----	-----	-----	-----	-----
NO. OF STEEL H-PILES FOR TWO ABUTMENTS (HP 10 x 57)	NO.	14	14	14	16	16	20	22	22	22	22
PREBORED HOLES (W/WOOD PILES)	L.F.	300	320	340	340	360	-----	-----	-----	-----	-----
PREBORED HOLES (W/STEEL H-PILES)	L.F.	140	140	140	160	160	200	220	220	220	220
WING ARMORING	S.Y.	3.5	3.5	3.5	3.5	3.5	5.7	5.7	5.7	5.7	5.7

GENERAL DATA		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
VERTICAL	TOP OF SLAB TO ABUT. CONSTR. JT. AT C.L. ABUT. BRG.	"U"	3'-8 1/8	3'-7 1/8	4'-2 1/8	4'-2 1/8	4'-2 1/8	4'-8 1/8	4'-8 1/8	4'-9 1/8	4'-9 1/8
CURVE	TOP OF SLAB TO PIER TOP AT C.L. PIER*	"U"	3'-6 1/8	3'-6 1/8	4'-1 1/8	4'-1 1/8	4'-1 1/8	4'-7 1/8	4'-7 1/8	4'-7 1/8	4'-7 1/8
STRAIGHT	TOP OF SLAB TO ABUT. CONSTR. JT. AT C.L. ABUT. BRG.	"U"	3'-8 1/8	3'-7 1/8	4'-2 1/8	4'-2 1/8	4'-3 1/8	4'-8 1/8	4'-8 1/8	4'-9 1/8	4'-10
GRADE	TOP OF SLAB TO PIER TOP AT C.L. PIER*	"U"	3'-6 1/8	3'-6 1/8	4'-1 1/8	4'-1 1/8	4'-2 1/8	4'-7 1/8	4'-7 1/8	4'-8 1/8	4'-8 1/8
D.L. PIER REACTION (D.L. + F.W.S.) SERVICE LOADS	KIPS		481.4	519.5	594.8	635.1	675.5	812.5	858.0	903.9	948.7
L.L. PIER REACTION (HL93) NO IMPACT SERVICE LOADS	KIPS		264.7	274.5	283.9	293.1	302.2	311.0	322.9	341.9	362.6
NO. OF SPACES FOR 6a1 BARS (TOP)	"E"		155	170	185	200	215	230	245	260	280
NO. OF SPACES FOR 6a1 BARS (BOTTOM)	"H"		154	169	184	199	214	229	244	259	279
NO. OF SPACES FOR 5J1 BARS (TOP)	"J"		167	182	197	212	227	242	257	272	292
OUT TO OUT OF SLAB	"S"		141'-11 1/4	154'-5 1/4	166'-11 1/4	179'-5 1/4	191'-11 1/4	204'-5 1/4	216'-11 1/4	229'-5 1/4	246'-1 1/4
SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM C.L. PIER	"X"		6'-7	7'-1	7'-7	8'-1	8'-8	9'-2	9'-8	10'-2	10'-2

NOTE:
FOR QUANTITIES OF STRUCTURAL CONCRETE, REINFORCING STEEL AND STRUCTURAL STEEL, REFER TO THE SUMMARY QUANTITIES SHEET IN THE BRIDGE PLANS.

Δ NOTE:
CONCRETE QUANTITIES SHALL BE LISTED ON THE SUMMARY QUANTITIES SHEET.

Δ CONCRETE PLACEMENT QUANT.		℄-℄ ABUT. BRG.	138'-10	151'-4	163'-10	176'-4	188'-10	201'-4	213'-10	226'-4	243'-0
SLAB INCLUDING HAUNCH, ABUT. DIAPHRAGM, & WINGWALLS** , SECTIONS 1 & 3	WITH BARRIER RAIL C.Y.		130.2	138.8	153.6	162.4	171.2	189.8	198.8	208.2	229.0
	WITH OPEN RAIL C.Y.		131.5	140.2	155.2	164.1	173.1	191.7	200.8	210.4	231.4
SLAB INCLUDING HAUNCH, SECTION 2	WITH BARRIER RAIL C.Y.		47.3	51.1	54.9	58.7	62.3	66.4	70.2	74.1	74.1
	WITH OPEN RAIL C.Y.		48.0	51.9	55.7	59.6	63.3	67.4	71.2	75.2	75.2
SLAB INCLUDING HAUNCH & PIER DIAPHRAGM, SECTIONS 4 & 5	WITH BARRIER RAIL C.Y.		53.6	56.2	62.8	65.4	68.6	73.6	76.0	78.6	78.6
	WITH OPEN RAIL C.Y.		54.1	56.7	63.4	66.0	69.2	74.2	76.7	79.3	79.3
ABUTMENT WINGS	C.Y.		7.2	7.2	7.6	7.6	7.6	8.4	8.4	8.4	8.4
ABUTMENT FOOTINGS (w/ WOOD PILES) ***	C.Y.		38.3	38.1	38.0	38.0	37.9	-----	-----	-----	-----
ABUTMENT FOOTINGS (w/ STEEL H PILES) ***	C.Y.		40.0	40.0	40.0	40.0	40.0	47.8	47.8	47.8	47.8

* VALUES SHOWN ARE FOR FIXED PIERS ONLY AND ALLOW FOR 1/8 INCH DEFLECTION OF THE 1 INCH NEOPRENE BEARING PAD. AT EXPANSION PIER LOCATIONS ADD 3/8 INCHES TO "U" VALUES SHOWN.

** WINGWALLS APPLY ONLY TO BRIDGES USING "C" BEAMS.

LATEST REVISION DATE

Thomas E. M. Dwyer
APPROVED BY BRIDGE ENGINEER

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

SEPTEMBER, 2014

SUPERSTRUCTURE DETAILS

15° SKEW

H44-15-14