



SLAB LAYOUT

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.	6-A50	6-A55	6-B59	6-B63	6-B67	6-C71	6-C75	6-C80	6-C80	
PRETENSIONED PRESTRESSED CONCRETE BEAM, END SPAN	NO.	12-A42	12-A46	12-B50	12-B55	12-B59	12-C63	12-C67	12-C71	12-C80	
CONCRETE RAIL (BARRIER OR OPEN)	L.F.	311.7	336.7	361.7	386.7	411.7	456.7	481.7	506.7	540.0	
NO. OF WOOD PILES, TREATED FOR TWO ABUTMENTS	NO.	28	30	32	32	34	-----	-----	-----	-----	
NO. OF STEEL H-PILES FOR TWO ABUTMENTS (HP 10 x 57)	NO.	12	14	14	14	16	20	20	20	22	
PREFORED HOLES (w/ WOOD PILES)	L.F.	280	300	320	320	340	-----	-----	-----	-----	
PREFORED HOLES (w/ STEEL H-PILES)	L.F.	120	140	140	140	160	200	200	200	220	
WING ARMORING	S.Y.	3.5	3.5	3.5	3.5	3.5	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 CURVE	TOP OF SLAB TO ABUT. CONSTR. JT. AT C.L. ABUT. BRG.	"U"	3'-8"	3'-7 ¹¹ / ₁₆ "	4'-2 ¹ / ₈ "	4'-2 ¹ / ₈ "	4'-2 ¹ / ₈ "	4'-8 ¹¹ / ₁₆ "	4'-8 ¹¹ / ₁₆ "	4'-9 ¹ / ₂ "	4'-9 ¹ / ₂ "
STRAIGHT 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'-1 ¹ / ₈ "	4'-7 ¹ / ₈ "	4'-7 ¹ / ₈ "	4'-7 ¹ / ₂ "	4'-7 ¹ / ₂ "
D.L. PIER REACTION (D.L. + F.W.S.) SERVICE LOADS		KIPS	430.0	464.6	530.0	566.5	603.2	722.1	763.1	804.5	844.8
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)	"B"		169	184	199	214	229	244	259	274	294
NO. OF SPACES FOR 6a1 BARS (BOTTOM) AND 5j1 BARS (TOP)	"D"		168	183	198	213	228	243	258	273	293
OUT TO OUT OF SLAB	"S"		141'-10"	154'-4"	166'-10"	179'-4"	191'-10"	204'-4"	216'-10"	229'-4"	246'-0"
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.

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

▲ 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.	118.2	126.2	139.6	147.8	155.8	173.2	181.6	190.2	209.2
	WITH OPEN RAIL	C.Y.	119.5	127.6	141.2	149.5	157.7	175.1	183.6	192.4	211.6
SLAB INCLUDING HAUNCH, SECTION 2	WITH BARRIER RAIL	C.Y.	43.5	47.0	50.5	54.0	57.3	61.1	64.6	68.1	68.1
	WITH OPEN RAIL	C.Y.	44.2	47.8	51.3	54.9	58.3	62.1	65.6	69.2	69.2
SLAB INCLUDING HAUNCH & PIER DIAPHRAGM, SECTIONS 4 & 5	WITH BARRIER RAIL	C.Y.	44.8	47.2	52.4	54.8	57.6	61.8	64.0	66.4	66.4
	WITH OPEN RAIL	C.Y.	45.3	47.7	53.0	55.4	58.2	62.4	64.7	67.1	67.1
ABUTMENT WINGS	C.Y.	7.2	7.2	7.6	7.6	7.6	8.4	8.4	8.4	8.4	8.4
ABUTMENT FOOTINGS (w/ WOOD PILES)	C.Y.	33.4	33.3	33.1	33.1	33.0	-----	-----	-----	-----	-----
ABUTMENT FOOTINGS (w/ STEEL H PILES)	C.Y.	35.0	35.0	35.0	35.0	35.0	43.0	43.0	43.0	43.0	43.0

* 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 3/16 INCHES TO "U" VALUES SHOWN.

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

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014	
		SUPERSTRUCTURE DETAILS 0° SKEW	H40-09-14