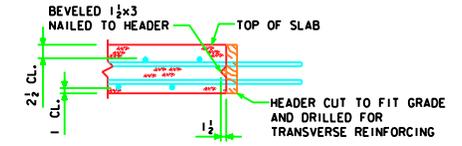


SPAN LENGTHS			
BRIDGE LENGTH	SPAN 1	SPAN 2	SPAN 3
160'-0	48'-0	64'-0	48'-0
180'-0	54'-0	72'-0	54'-0
200'-0	60'-0	80'-0	60'-0
220'-0	66'-0	88'-0	66'-0
240'-0	72'-0	96'-0	72'-0
260'-0	78'-0	104'-0	78'-0
280'-0	84'-0	112'-0	84'-0
300'-0	90'-0	120'-0	90'-0



TRANSVERSE SLAB CONSTRUCTION JOINT

- NOTES:
- ROADWAY 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.
 - WEIGHT OF STRUCTURAL STEEL SHOWN ON THIS SHEET INCLUDES: BEAMS, DIAPHRAGMS, SPLICES, SHEAR STUDS, BEARINGS, WELDS AND BOLT HARDWARE.
 - QUANTITY OF STRUCTURAL STEEL SHOWN ON THIS SHEET IS TABULATED FOR BENT PLATE DIAPHRAGM OPTION. PAYMENT FOR STRUCTURAL STEEL WILL BE BASED ON THE QUANTITIES SHOWN. THE CONTRACTOR MAY CHOOSE TO PROVIDE ROLLED CHANNEL DIAPHRAGMS AT NO ADDITIONAL COST.
 - QUANTITY OF STRUCTURAL STEEL SHOWN ON THIS SHEET IS BASED ON THE USE OF 5" HIGH SHEAR STUDS. CONTRACTOR WILL BE PAID ON AMOUNT SHOWN, BUT IS REQUIRED TO ADJUST HEIGHT OF STUDS AS REQUIRED PER "BEAM PLAN AND ELEVATION" SHEET.

REINFORCEMENT DIMENSIONS	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
ABUTMENT BEARINGS	163'-0	183'-0	203'-0	223'-0	243'-0	263'-0	283'-0	303'-0
X (FT-IN)	3	3	3	3	3	3	3	3
Y (IN)	195	219	243	267	291	315	339	363

CONCRETE PLACEMENT DIAGRAM SHOWING SLAB REINFORCING

CONCRETE PLACEMENT QUANTITIES (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
SLAB, AND ABUT DIAPHRAGM, SECTION 1 & 3	CY 113.7	123.7	135.9	145.7	157.5	169.6	179.3	189.3
SLAB, SECTION 2	CY 42.1	47.4	52.7	57.9	63.2	68.5	74.0	79.2
SLAB, SECTION 4 & 5	CY 56.1	63.2	70.2	77.3	84.3	91.3	98.6	105.7
ABUTMENT WINGS	CY 6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
ABUTMENT FOOTINGS	CY 35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0
TOTAL	CY 253.8	276.2	300.7	322.8	346.9	371.3	393.8	416.1

ESTIMATED QUANTITIES (SUPERSTRUCTURE PLUS INTEGRAL ABUTMENTS)	160'-0	180'-0	200'-0	220'-0	240'-0	260'-0	280'-0	300'-0
NO. OF STEEL H-PILES FOR TWO ABUTMENTS (HP 10 X 42)	NO. 14	14	16	16	16	16	18	18
STRUCTURAL CONCRETE, (BRIDGE)	CY 253.8	276.2	300.7	322.8	346.9	371.3	393.8	416.1
REINFORCING STEEL EPOXY COATED	LB 73,471	80,694	88,322	95,701	103,241	110,528	117,952	125,183
REINFORCING STEEL	LB 127	127	146	146	146	146	163	163
BARRIER RAIL (2)	LF 354.0	394.0	434.0	474.0	514.0	554.0	594.0	634.0
STRUCTURAL STEEL	LB 112,779	146,259	177,931	212,275	256,080	307,664	358,395	411,310

07-06
LATEST REVISION DATE

STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES
ROLLED STEEL BEAM BRIDGES
FEBRUARY, 2004

APPROVED BY BRIDGE ENGINEER
Mark E. McDaniel

SUPERSTRUCTURE QUANTITIES 0° SKEW

RS40-30-04

REVISION - 07-06 - UPDATED QUANTITIES FOR REINFORCING AND EPOXY COATED REINFORCING STEEL. APPR. ROWLY. REMOVED.