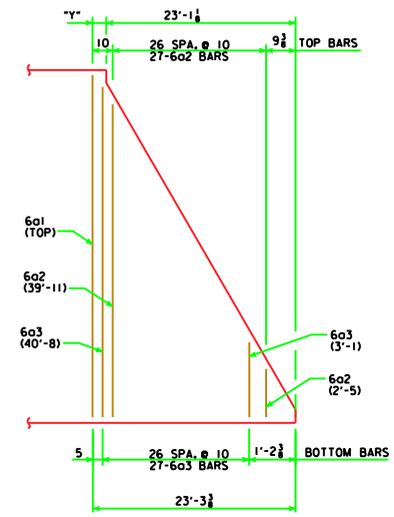
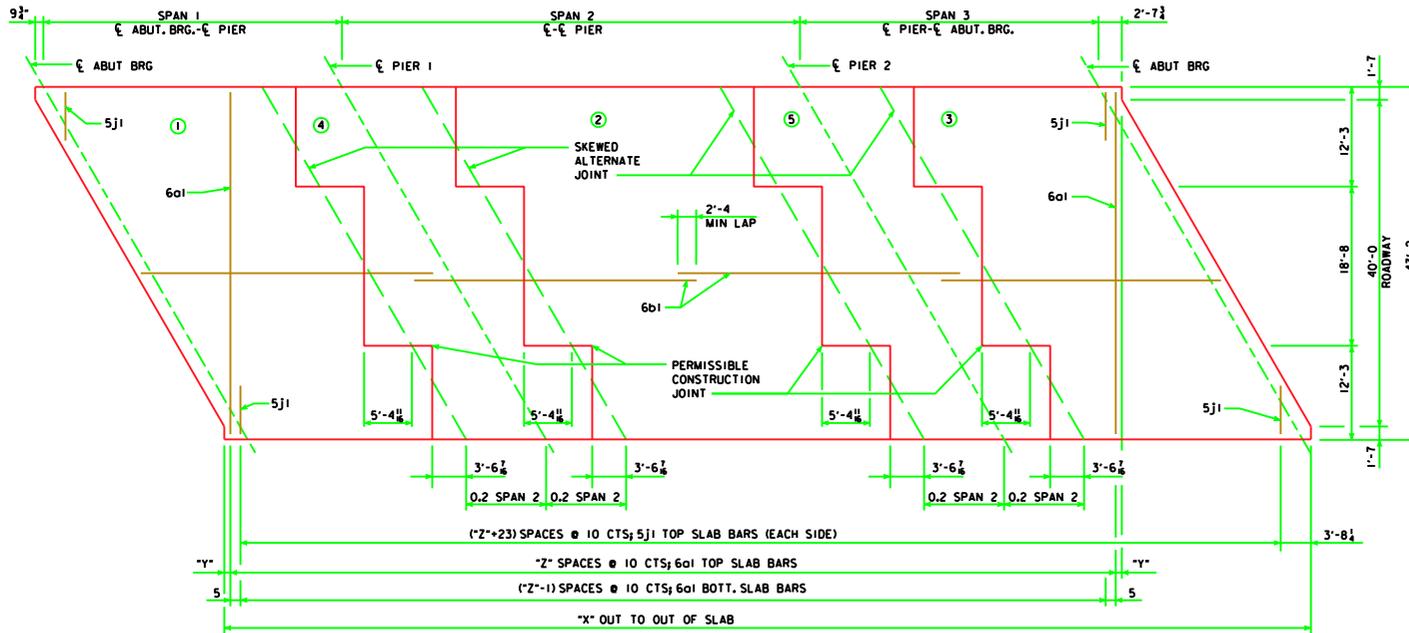
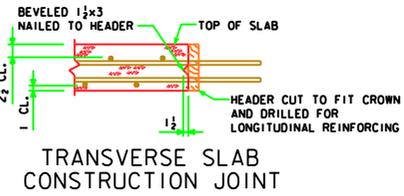
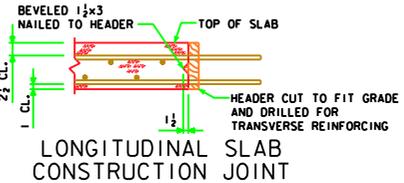


REVISION - 03-07 - UPDATED QUANTITIES FOR REINFORCING AND EPOXY COATED REINFORCING STEEL. - APPR. ROWDY, REMOVED.



REINFORCEMENT DIMENSIONS	160'-0"	180'-0"	200'-0"	220'-0"	240'-0"	260'-0"	280'-0"	300'-0"
ABUTMENT BEARINGS	163'-5 1/2"	183'-5 1/2"	203'-5 1/2"	223'-5 1/2"	243'-5 1/2"	263'-5 1/2"	283'-5 1/2"	303'-5 1/2"
X (FT-IN)	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Y (IN)	168	192	216	240	264	288	312	336
Z (SPACES)								

CONCRETE PLACEMENT DIAGRAM  
SHOWING SLAB REINFORCING  
(RIGHT AHEAD SKEW SHOWN, LEFT AHEAD SKEW SIMILAR)



- 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.

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	119.3	129.3	141.8	151.7	163.9	176.3	186.0	196.0
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	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4
<b>TOTAL</b>	<b>CY</b>	<b>264.8</b>	<b>287.2</b>	<b>312.0</b>	<b>334.2</b>	<b>358.7</b>	<b>383.4</b>	<b>405.9</b>	<b>428.2</b>

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	16	16	16	16	18	18	18
STRUCTURAL CONCRETE, (BRIDGE)	CY	264.8	287.2	312.0	334.2	358.7	383.4	405.9	428.2
REINFORCING STEEL EPOXY COATED	LB	73,898	81,117	88,760	96,139	103,702	110,887	118,414	125,645
REINFORCING STEEL	LB	127	146	146	146	146	163	163	163
BARRIER RAIL (2)	LF	354.9	394.9	434.9	474.9	514.9	554.9	594.9	634.9
STRUCTURAL STEEL	LB	113,359	146,839	178,511	212,855	256,702	308,286	359,017	411,932

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"

03-07  
LATEST REVISION DATE

*Thomas E. McQuinn*  
APPROVED BY BRIDGE ENGINEER

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

**SUPERSTRUCTURE QUANTITIES 30° SKEW**

RS40-33-04