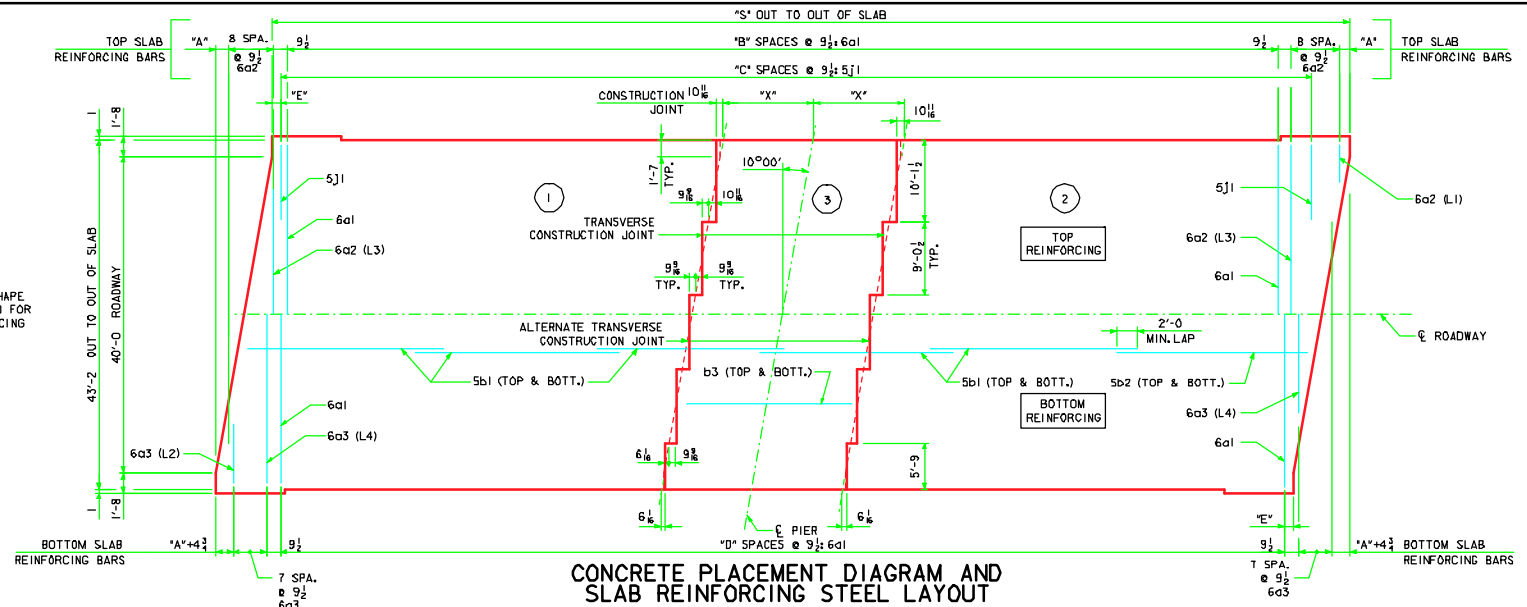
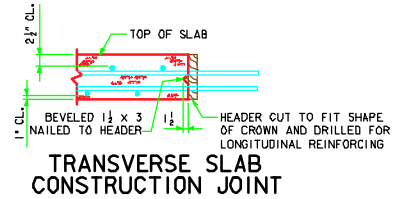




ROADWAY SLAB SHALL BE PLACED IN SECTIONS AND IN SEQUENCE INDICATED. ALTERNATE PROCEDURES FOR PLACING SLAB CONCRETE MAY BE SUBMITTED FOR APPROVAL TOGETHER WITH A STATEMENT OF THE PROPOSED METHOD AND EVIDENCE THAT THE CONTRACTOR POSSESSES THE NECESSARY EQUIPMENT AND FACILITIES TO ACCOMPLISH THE REQUIRED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

CONCRETE PLACEMENT QUANTITIES - C.Y.		(SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS)				
LOCATION	E-CL ABUTMENT BEARING	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
	BEAM SERIES	BTDI10	BTDI15	BTDI20	BTDI25	BTDI30
SECTION 1 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B)		137.2	142.0	146.7	151.5	156.2
SECTION 2 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B)		137.2	142.0	146.7	151.5	156.2
SECTION 3 SLAB AND PIER DIAPHRAGM (B)		47.1	48.4	49.8	51.1	52.5
ABUTMENT WINGS		7.3	7.3	7.3	7.3	7.3
ABUTMENT FOOTINGS		43.8	43.8	43.8	43.8	43.8
TOTAL		372.6	383.5	394.3	405.2	416.0

ESTIMATED QUANTITIES - SUPERSTRUCTURE		(SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS)				
ITEM	E-CL ABUTMENT BEARING	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
	BEAM SERIES	BTDI10	BTDI15	BTDI20	BTDI25	BTDI30
EXCAVATION, CLASS 20	CY	129	129	129	129	129
STRUCTURAL CONCRETE (BRIDGE)	CY (B)	372.6	383.5	394.3	405.2	416.0
REINFORCING STEEL	LB	7,069	7,069	7,069	7,069	7,069
REINFORCING STEEL, EPOXY COATED	LB	89,063	92,685	97,915	101,646	106,269
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D110	EACH	10				
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D115	EACH		10			
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D120	EACH			10		
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D125	EACH				10	
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D130	EACH					10
STRUCTURAL STEEL	LB	4,618	4,618	4,618	13,854	13,854
NUMBER OF PILES, DRIVE STEEL BEARING, HP 10 X 57 (A)		24	24	24	26	26
NUMBER OF PILES, FURNISH STEEL BEARING, HP 10 X 57 (A)		24	24	24	26	26
PREBORED HOLES	LF	240.0	240.0	240.0	260.0	260.0

GENERAL DATA - SUPERSTRUCTURE						
LOCATION	E-CL ABUTMENT BEARING	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
	BEAM SERIES	BTDI10	BTDI15	BTDI20	BTDI25	BTDI30
END DISTANCE ON 6a2 BARS (TOP)	*A*	4 1/2	7 1/2	6 1/2	9 1/2	7 1/2
NO. OF SPACES FOR 6a1 BARS (TOP)	*B*	274	286	299	311	324
NO. OF SPACES FOR 5J1 BARS (TOP)	*C*	282	294	307	319	332
NO. OF SPACES FOR 6a1 BARS (BOTTOM)	*D*	275	287	300	312	325
END DISTANCE ON 6a1 BARS (BOTTOM) AND 5J1 BARS (TOP)	*E*	2 1/2	5 1/2	3 1/2	6 1/2	4 1/2
OUT TO OUT OF SLAB	*S*	225'-0 1/2	235'-0 1/2	245'-0 1/2	255'-0 1/2	265'-0 1/2
LENGTH OF SHORT 6a2 BAR (TOP)	*L1*	2'-9	4'-2	3'-4	4'-9	3'-11
LENGTH OF SHORT 6a3 BAR (BOTTOM)	*L2*	5'-0	6'-5	5'-7	7'-0	6'-2
LENGTH OF LONG 6a2 BAR (TOP)	*L3*	38'-8	40'-1	39'-3	40'-8	39'-10
LENGTH OF LONG 6a3 BAR (BOTTOM)	*L4*	36'-5	37'-10	37'-0	38'-5	37'-5
SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM C.L. PIER	*X*	13'-11	14'-6	15'-2	15'-9	16'-5

(A) THIS QUANTITY REPRESENTS THE NUMBER OF PILES. PILE LENGTH SHALL BE DETERMINED BASED ON SOIL INFORMATION AND TO BE INCLUDED ON THE "ESTIMATED PROJECT QUANTITIES" SHEET.

(B) DOES NOT INCLUDE HAUNCH QUANTITIES. SEE "GENERAL ELEVATION DATA" SHEET FOR HAUNCH QUANTITIES.

NOTES:

SEE BT40-SAT-04 FOR SUPERSTRUCTURE BAR LISTS.

SEE "SITUATION PLAN" FOR NORTH ARROW.

LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER H. M. M. M. M.	Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 40' ROADWAY, 2 SPAN BRIDGES	
	PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES	
	ALL SPANS	JULY, 2004
SUPERSTRUCTURE DETAILS 10° SKEW		BT40-SA3-04