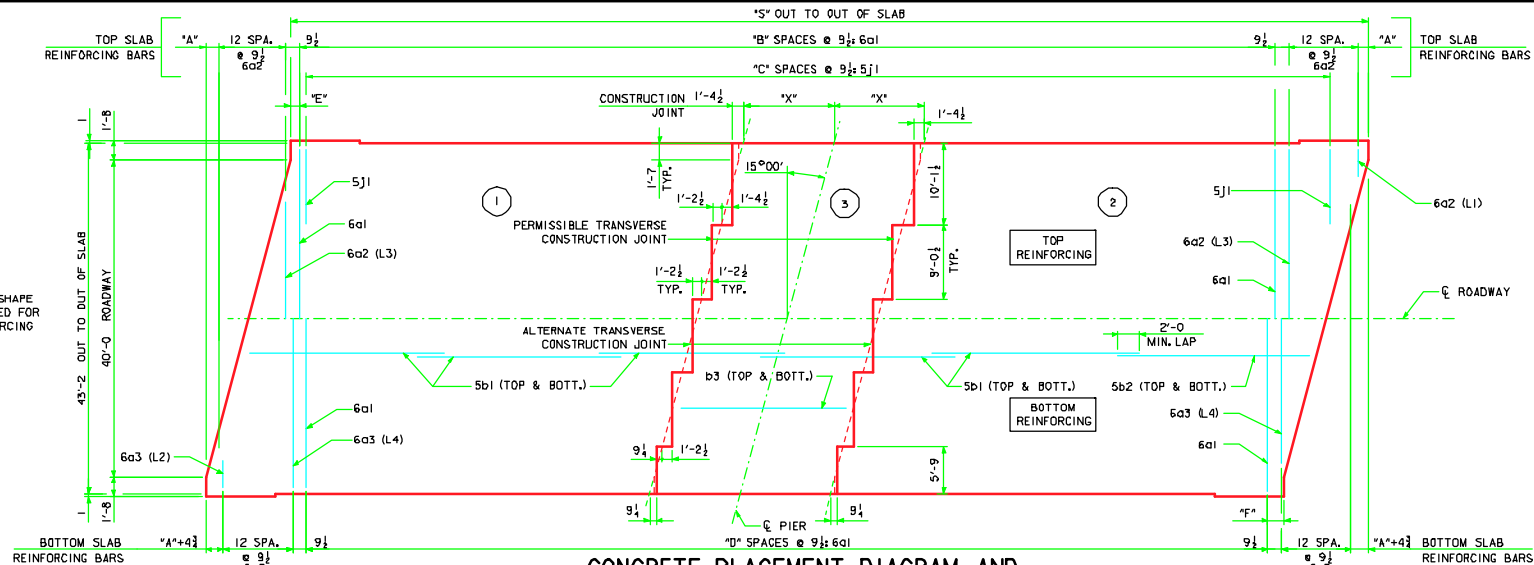
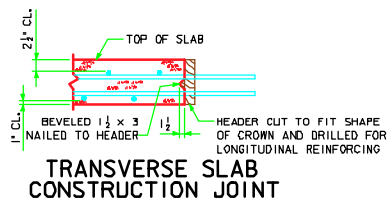




CONCRETE PLACEMENT DIAGRAM AND SLAB REINFORCING STEEL LAYOUT

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	BEAM SERIES	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
SECTION 1 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B)	BTDI10	137.8	142.5	147.2	152.0	156.7
SECTION 2 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B)	BTDI15	137.8	142.5	147.2	152.0	156.7
SECTION 3 SLAB AND PIER DIAPHRAGM (B)	BTDI20	48.8	50.1	51.5	52.8	54.2
ABUTMENT WINGS	BTDI25	7.3	7.3	7.3	7.3	7.3
ABUTMENT FOOTINGS	BTDI30	44.5	44.5	44.5	44.5	44.5
TOTAL		376.2	386.9	397.7	408.6	419.4

ESTIMATED QUANTITIES - SUPERSTRUCTURE

(SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS)

ITEM	BEAM SERIES	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
EXCAVATION, CLASS 20	BTDI10	130	130	130	130	130
STRUCTURAL CONCRETE (BRIDGE)	BTDI15	376.2	386.9	397.7	408.6	419.4
REINFORCING STEEL	BTDI20	7,114	7,114	7,114	7,132	7,132
REINFORCING STEEL, EPOXY COATED	BTDI25	83,062	92,694	97,360	101,658	105,282
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D110	BTDI30	10	10	10	10	10
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D115	BTDI35	10	10	10	10	10
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D120	BTDI40	10	10	10	10	10
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D125	BTDI45	10	10	10	10	10
BEAMS, BULB TEE PRETENSIONED PRESTRESSED CONCRETE, D130	BTDI50	10	10	10	10	10
STRUCTURAL STEEL	BTDI55	4,618	4,618	4,618	13,854	13,854
NUMBER OF PILES, DRIVE STEEL BEARING, HP 10 X 57 (A)	BTDI60	24	24	24	26	26
NUMBER OF PILES, FURNISH STEEL BEARING, HP 10 X 57 (A)	BTDI65	24	24	24	26	26
PREBORED HOLES	BTDI70	240.0	240.0	240.0	260.0	260.0

GENERAL DATA - SUPERSTRUCTURE

LOCATION	BEAM SERIES	222'-0"	232'-0"	242'-0"	252'-0"	262'-0"
END DISTANCE ON 6a2 BARS (TOP)	"A"	6 1/2	5	8	6 1/2	4 1/2
NO. OF SPACES FOR 6a1 BARS (TOP)	"B"	270	283	295	308	321
NO. OF SPACES FOR 5j1 BARS (TOP)	"C"	281	294	306	319	332
NO. OF SPACES FOR 6a1 BARS (BOTTOM)	"D"	269	282	294	307	320
END DISTANCE ON 6a1 BARS (TOP)	"E"	6	4 1/2	7 1/2	5 1/2	3 1/2
END DISTANCE ON 6a1 BARS (BOTTOM)	"F"	10 1/2	9	12	10 1/2	8 1/2
OUT TO OUT OF SLAB	"G"	225'-1 1/2	235'-1 1/2	245'-1 1/2	255'-1 1/2	265'-1 1/2
LENGTH OF SHORT 6a2 BAR (TOP)	"L1"	2'-10	2'-4	3'-3	2'-8	2'-2
LENGTH OF SHORT 6a3 BAR (BOTTOM)	"L2"	4'-4	3'-9	4'-9	4'-2	3'-8
LENGTH OF LONG 6a2 BAR (TOP)	"L3"	38'-4	37'-9	38'-8	38'-2	37'-7
LENGTH OF LONG 6a3 BAR (BOTTOM)	"L4"	39'-9	39'-2	40'-2	39'-7	39'-1
SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM C.L. PIER	"X"	13'-11	39'-3	15'-2	15'-9	16'-6

① 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.

② DOES NOT INCLUDE HAUNCH QUANTITIES. SEE "GENERAL ELEVATION DATA" SHEET FOR HAUNCH QUANTITIES.

NOTES:

SEE BT40-SAB-04 FOR SUPERSTRUCTURE BAR LISTS.
SEE "SITUATION PLAN" FOR NORTH ARROW.



STANDARD DESIGN - 40' ROADWAY, 2 SPAN BRIDGES

PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES

ALL SPANS

JULY, 2004

SUPERSTRUCTURE DETAILS
15° SKEW

BT40-SA4-04