



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 | CL-CL ABUTMENT BEARING | 222'-0 | 232'-0 | 242'-0 | 252'-0 | 262'-0 |
| | BEAM SERIES | BTD110 | BTD115 | BTD120 | BTD125 | BTD130 |
| SECTION 1 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B) | | 136.9 | 141.7 | 146.4 | 151.2 | 155.9 |
| SECTION 2 SLAB, WINGWALLS, ABUTMENT DIAPHRAGM, AND MASKWALL (B) | | 136.9 | 141.7 | 146.4 | 151.2 | 155.9 |
| SECTION 3 SLAB AND PIER DIAPHRAGM (B) | | 46.6 | 46.8 | 48.3 | 49.5 | 51.0 |
| ABUTMENT WINGS | | 7.3 | 7.3 | 7.3 | 7.3 | 7.3 |
| ABUTMENT FOOTINGS | | 43.5 | 43.5 | 43.5 | 43.5 | 43.5 |
| TOTAL | | 370.2 | 381.0 | 391.9 | 402.7 | 413.6 |

| ESTIMATED QUANTITIES - SUPERSTRUCTURE | | (SUPERSTRUCTURE PLUS TWO INTEGRAL ABUTMENTS) | | | | |
|---|------------------------|--|--------|--------|---------|---------|
| LOCATION | CL-CL ABUTMENT BEARING | 222'-0 | 232'-0 | 242'-0 | 252'-0 | 262'-0 |
| | BEAM SERIES | BTD110 | BTD115 | BTD120 | BTD125 | BTD130 |
| EXCAVATION, CLASS 20 | CY | 128 | 128 | 128 | 128 | 128 |
| STRUCTURAL CONCRETE (BRIDGE) | CY (B) | 370.2 | 381.0 | 391.9 | 402.7 | 413.6 |
| REINFORCING STEEL | LB | 7,016 | 7,016 | 7,016 | 7,034 | 7,034 |
| REINFORCING STEEL, EPOXY COATED | LB | 89,173 | 92,856 | 98,053 | 101,800 | 105,473 |
| 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 | 4,501 | 4,501 | 4,501 | 13,499 | 13,499 |
| 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 | CL-CL ABUTMENT BEARING | 222'-0 | 232'-0 | 242'-0 | 252'-0 | 262'-0 |
| | BEAM SERIES | BTD110 | BTD115 | BTD120 | BTD125 | BTD130 |
| END DISTANCE ON 6a1 BARS (TOP) | "A" | 5 3/4 | 4 1/2 | 7 1/2 | 5 3/4 | 3 3/4 |
| NO. OF SPACES FOR 6a1 BARS (TOP) | "B" | 283 | 296 | 308 | 321 | 334 |
| NO. OF SPACES FOR 6a1 BARS (BOTTOM) AND 5J1 BARS (TOP) | "C" | 282 | 295 | 307 | 320 | 333 |
| 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 |
| SLAB TRANSVERSE CONSTR. JT. DISTANCE FROM CL 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-SA6-04 FOR SUPERSTRUCTURE BAR LISTS.
SEE "SITUATION PLAN" FOR NORTH ARROW.

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| LATEST REVISION DATE APPROVED BY BRIDGE ENGINEER <i>Thomas E. McQuinn</i> | | |
| | STANDARD DESIGN - 40' ROADWAY, 2 SPAN BRIDGES | |
| | PRETENSIONED PRESTRESSED BULB TEE CONCRETE BEAM BRIDGES | |
| | ALL SPANS | JULY, 2004 |
| SUPERSTRUCTURE DETAILS 5° SKEW | | BT40-SA2-04 |