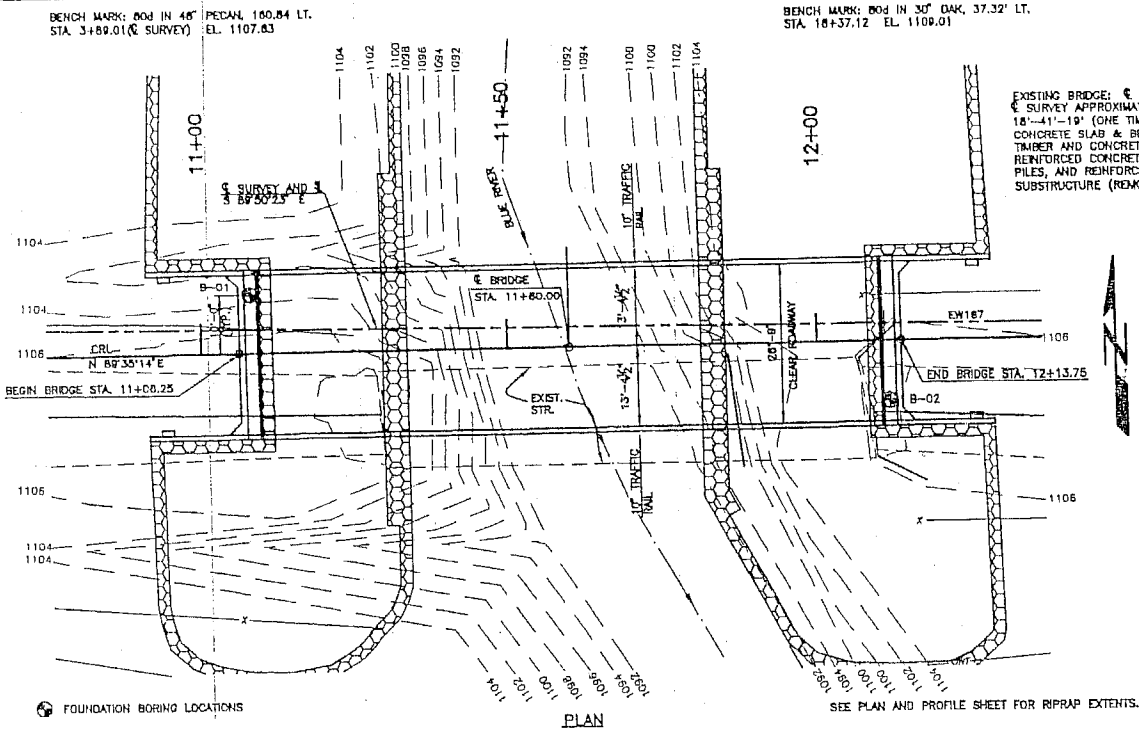
OKR2013230
PONTOTOC COUNTY COMMISSIONER, DISTRICT 3
BLUE RIVER
BRIDGE REPLACEMENT
ENCLOSURE 5 OF 5




EXISTING BRIDGE: ℄ SURVEY STA. 11+87.70, 14.83' RT. OF ℄ SURVEY APPROXIMATELY 78' LONG X 17' WIDE, 18'-41'-19' (ONE TIMBER BEAM SPAN, & TWO REINFORCED CONCRETE SLAB & BEAM SPANS) THREE SPAN BRIDGE WITH TIMBER AND CONCRETE FLOOR FOR SUPERSTRUCTURE AND REINFORCED CONCRETE AND TIMBER ABUTMENTS, TIMBER PILES, AND REINFORCED CONCRETE AND TIMBER CAPS FOR SUBSTRUCTURE (REMOVE).

## HYDRAULIC DATA

| | |
|---|---|
| D.A. = | 44.43 SQ. MI. |
| Q2 = | 2500 CFS |
| V2 = | 3.10 FPS |
| CHW2 = | 1102.94 |
| Q5 = | 5020 CFS |
| V5 = | 5.02 FPS |
| CHW5 = | 1105.15 |
| QOT = Q0.7 = | 7000 CFS |
| VOT = | 5.71 FPS |
| CHWOT = | 1106.24 |
| Q10 = | 7120 CFS |
| V10 = | 6.50 FPS |
| CHW10 = | 1106.30 |
| Q25 = | 10370 CFS |
| V25 = | 6.45 FPS |
| CHW25 = | 1107.76 |
| Q50 = | 13240 CFS |
| V50 = | 6.75 FPS |
| CHW50 = | 1108.43 |
| Q100 = | 18410 CFS |
| V100 = | 6.99 FPS |
| CHW100 = | 1109.01 |

## DESIGN DATA

MATERIALS: CLASS A CONCRETE, f'c = 3,000 PSI
CLASS AA CONCRETE, f'c = 4,000 PSI
REINFORCING STEEL, fy = 60,000 PSI
STRUCTURAL STEEL, fy = 36,000 PSI

LOADING: HS 20-44

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 16TH EDITION WITH INTERIMS

ANSI/AASHTO/AWS D1.5 BRIDGE WELDING CODE

OPERATING RATING: HS 60

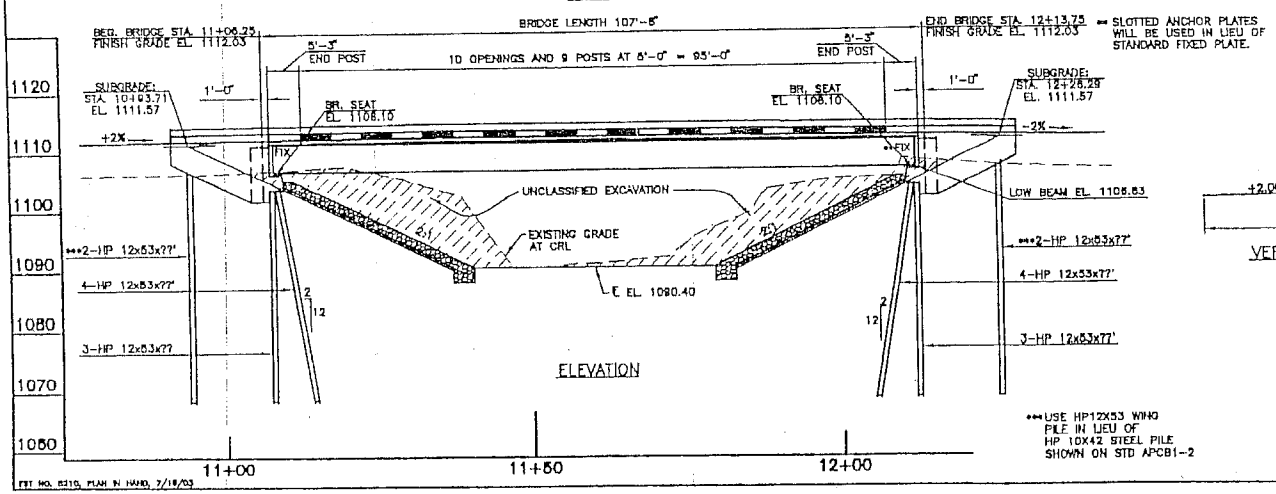
## FOUNDATION DATA

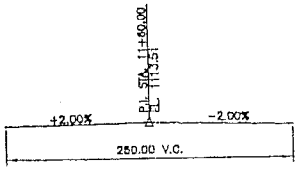
AVERAGE PILE LOAD = 42.0 TONS/PILE

## ITEMIZED QUANTITIES

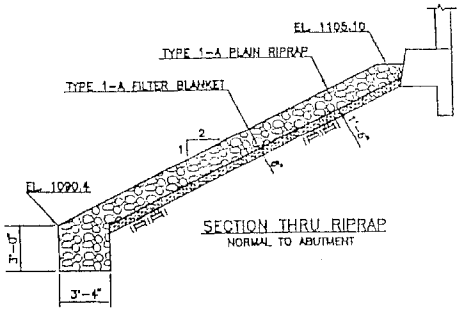
| DESCRIPTION | UNIT | ABUTMENTS | SUPERSTRUCTURE | TOTAL |
|---|---|---|---|---|
| SUBSTRUCTURE EXCAVATION COMMON | CY | - | - | - |
| UNCLASSIFIED BACKFILL | CY | - | - | - |
| PRESTRESSED CONCRETE BEAMS (TYPE IV) | LF | - | - | - |
| CONCRETE RAIL (TR1) | LF | - | - | - |
| STRUCTURAL STEEL | LB | - | - | - |
| CLASS AA CONCRETE | CY | - | - | - |
| CLASS A CONCRETE | CY | - | - | - |
| * REINFORCING STEEL | LB | - | - | - |
| PILES, FURNISHED (HP 12x53) | LF | - | - | - |
| PILES, DRIVEN (HP 12x53) | LF | - | - | - |
| TYPE I-A PLAIN RIPRAP | TON | - | - | - |
| TYPE I-A FILTER BLANKET | TON | - | - | - |

* QUANTITY INCLUDES - LBS FOR B2 BARS IN BRIDGE SEAT, - LBS FOR S8 BARS IN CONCRETE RAIL ON WINGS AND - LBS FOR S8 BARS IN CONCRETE RAIL ON SUPERSTRUCTURE.




VERTICAL CURVE DATA




SECTION THRU RIPRAP
NORMAL TO ABUTMENT

| | | |
|---|---|---|
| DESIGN | BRP | 7/03 |
| DRAWN | JRC | 7/03 |
| CHECKED | PGP | 7/03 |
| APPROVED | | |
| REVISED | | |

EW187 OVER BLUE RIVER — PONTOTOC COUNTY
BRIDGE 'A'
GENERAL PLAN AND ELEVATION
1-105.0' TYPE IV P.C. BEAM SPAN,
26'-9" CL. RDY. WITH CONCRETE
TRAFFIC RAILS ℄ STA. 11+60.00

STATE JOB PIECE NO. 13318(04) — SHEET NO. 7

FST NO. 8210, PLAN IN HAND, 7/18/03