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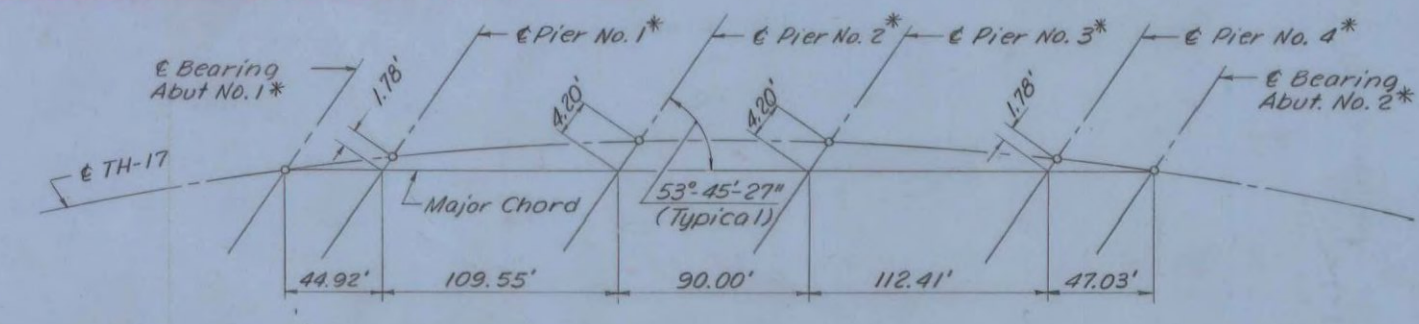
CONTRACTOR E.T. O'NEIL & SON CONTRACT DATED **AUG. 19, 1970**
 RESIDENT ENGINEER **N.W. BITTNER** INSPECTOR **AUG. 25, 1970**
 RECORD PLANS **R.L. WEICHERT** COMPLETED **AUG. 31, 1971**
 ACCEPTED **SEPT. 15, 1971**

MATERIALS
 CONCRETE (AA & B) **CARRARA**
 REINFORCING STEEL: **BETHLEHEM STEEL**
 STRUCTURAL STEEL: **VT. STRUCT. STEEL**
 BRIDGE RAILING: **S.T. GRISWOLD**

STANDARD DRAWINGS

- SCB-DI-67 BENCH MARK DETAILS & GENERAL NOTES APRIL 20, 1970 R.
- SCB-DE-67 CURB DETAILS, PILE SPICE DETAILS, & CONSTRUCTION JOINT DETAILS APRIL 20, 1970 R.
- SB-E2-65 STEEL RAILING DETAILS Nov. 8, 1964 R.
- SB-EI-64 (SHEETS 1 & 2) ALUMINUM RAILING DETAILS APRIL 28, 1970 R.
- SCB-DD-67 BEAM HAUNCH Jan. 24, 1968
- SCB-D7-67 DIAPHRAGM DETAILS Jan. 24, 1968

DESIGN STRESSES
 CONCRETE: $f_c = 3,000$ p.s.i.
 $f_c = 1,200$ p.s.i.
 STRUCTURAL STEEL: $f_s = 20,000$ p.s.i. (A36, other steels as per AASHTO Specifications)
 REINFORCING STEEL: $f_s = 20,000$ p.s.i. (Tensile)
 $f_s = 16,000$ p.s.i. (Compression) (intermediate grade)



No Scale
 * WORKING POINTS ARE LOCATED AT TOP OF STEEL FRAME AS SHOWN ON BR. 1106. FOR SUBSTRUCTURE LAYOUT SEE BR. 1113

GENERAL NOTES

SPECIFICATIONS:
 All materials and construction shall conform to the State of Vermont, Department of Highways, Standard Specifications for Highway and Bridge Construction, dated April, 1964 and the AASHTO Standard Specifications dated 1963, as modified by current Interim Specifications.

LIVE LOAD:
 Structure designed for HS-20-44 loading modified for National System of Interstate Highways applied in accordance with the provisions of the AASHTO Standard Specifications Article 1.2.8.

CONCRETE:
 All exposed edges of concrete shall be chamfered 1"x1" unless otherwise noted. All construction joints to be made as shown on SCB-DE-67 details B and C unless otherwise noted.

REINFORCEMENT:
 All reinforcement to have a clear cover of 2", unless otherwise noted.

DIMENSIONS:
 All dimensions given are measured horizontally or vertically unless otherwise noted. Dimensions given are for 68% unless otherwise noted. Elevation datum sea level based on nearest U.S. Government vertical control.

STRUCTURAL STEEL:
 Item 404-A shall include all structural steel, copper, wrought iron, and any other materials indicated or required in the completed structure which are not otherwise classified. Structural steel shall be structural carbon steel conforming to the requirements of the specifications for steel bridges and buildings ASTM Designations as noted on the project plans. The contractor shall submit complete details of the structural steel to the State of Vermont, Department of Highways, and receive their written approval prior to start of fabrication. The steel details shall include provisions for cambering of beams for dead load deflection as well as erection diagrams and falsework details. The final coat of field paint shall be green.

WATER REPELLENT:
 The top surfaces of safety walks, fascia, bottom of deck slab back to the exterior frame and the exposed areas of the Piers and abutments not otherwise treated shall be covered with Water Repellent (Item 440).

FIELD BOLTING:
 Field bolted connections shall be made with 3/8" x A325 High Strength bolts. A490 bolts are not allowed.

ABUTMENTS AND PIERS:
 The top surfaces of all abutments shall be sloped 1/4" ft. from the front edge of abutment and curtainwalls except for bearing pads, which shall be level. Elevation of bridge seats given are for centerline of bearings. The entire exposed top surface of abutments shall be coated with Asphaltic-Asbestos coating 1/8" thick as per Item 407 of the specifications. The application of this item shall be after all painting and incidental items are completed.

STEEL PILES:
 Steel bearing piles shall be driven to ledge rock unless otherwise approved by the engineer. When piles are driven in fill the material shall be such as to have no stones large enough to interfere with the driving of the piles. All pile points shall be reinforced with steel plates as specified in Article 503.03, Subarticle C, Part 1 of the Special Provisions for Item 503-C, Steel Piling.

GENERAL:
 All expansion material shall be premeled cork containing no bitumen or asphalt. Paints for waterproofing sealers and all labor necessary to install same shall be included in the unit price bid for Concrete Class B, Item 401-B.

BITUMINOUS CONCRETE PAVEMENT
 Bituminous Concrete Pavement, Item 361 (Modified) Type II mix shall be applied in two courses.

**FAIRHAVEN-RUTLAND
 BHP BPNT (10)
 PROJECT BRIDGE #D11
 SHEET 25 OF 28
 FOR INFORMATION ONLY**

NOTE: ANY REQUEST FOR CLARIFICATION CONCERNING FINAL QUANTITIES, AMOUNTS OR OTHER DETAILS RELATIVE TO THIS PROJECT MAY BE FOUND IN EITHER THE FIELD BOOK OR THE ESTIMATE FILE.

VERMONT
 STATE HIGHWAY DEPARTMENT
 TOWN OF CASTLETON
 U.S. ROUTE 4
 TH-17 RELOC. OVER U.S. RTE 4 RELOC.
 PLAN AND ELEVATION

MEFARLAND-JOHNSON
 CONSULTING ENGINEERS
 BINGHAMTON, NEW YORK

DESIGNED **BRK** CHECKED **BFC** DATE **7-12-68**
 DRAWN **RMG** IN CHARGE **HGC** SCALE **AS SHOWN**

PROJECT NO. **F020-1(7) SH 43 OF 204**

CONTRACT NO. **BR 1101**