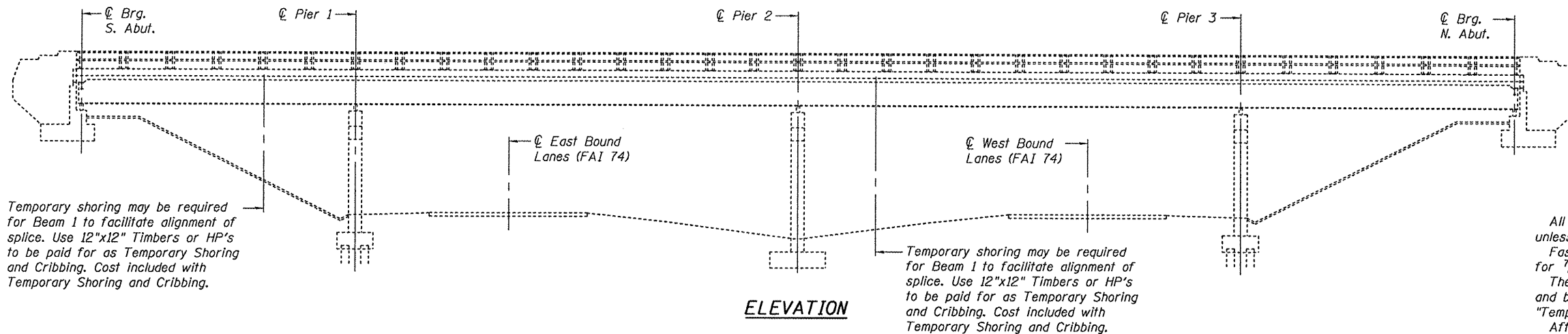


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|-----------------------|---------|----------|---------------------------------------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FAI 74 | ** | Woodford | 11 | 9 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT- | |
| | | | Contract Number: 68854 **K3-17-HB11-2 | |

SHEET NO. 1
3 SHEETS



ELEVATION

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Fasteners shall be high strength bolts. Flange splice holes shall be $1\frac{5}{16}$ " ϕ for $7/8$ " ϕ bolts. Web splice holes shall be $1\frac{3}{16}$ " ϕ for $3/4$ " ϕ bolts.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Furnishing and Erecting Structural Steel.

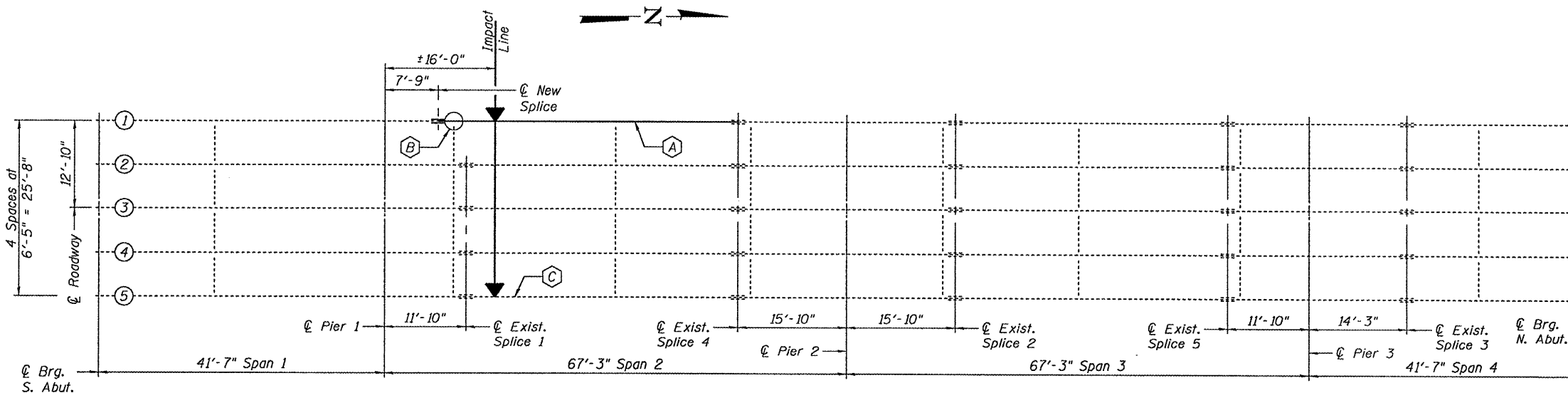
The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Blue, Munsell No. 10B 3/6 See Special Provision "Cleaning and Painting New Metal Structures".

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Diaphragm connection holes shall be $1\frac{5}{16}$ " ϕ for $3/4$ " ϕ bolts. Two hardened washers shall be required at diaphragm connections.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.



PLAN

- (A) Remove and Replace Beam Segment
- (B) Remove and Replace Bottom Clip Angle
- (C) Beam to be Straightened

| | |
|----------|-------------------|
| DESIGNED | Victor H. Vello |
| CHECKED | Ralph E. Anderson |
| DRAWN | VHV |
| CHECKED | VHV |

March 9, 2009
EXAMINED
PASSED
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



Expires: November 30, 2010

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|--|---------|----------|
| Furnishing and Erecting Structural Steel | Pound | 5,120 |
| Structural Steel Removal | Pound | 5,185 |
| Beam Straightening | L.S. | 1 |
| Temporary Slab Support System | L.S. | 1 |
| Concrete Removal | Cu. Yd. | 0.7 |
| Concrete Superstructure | Cu. Yd. | 0.7 |
| Temporary Shoring and Cribbing | L.S. | 1 |

PLAN AND ELEVATION
F.A.I. RT. 74
WOODFORD COUNTY
SN 102-0034