

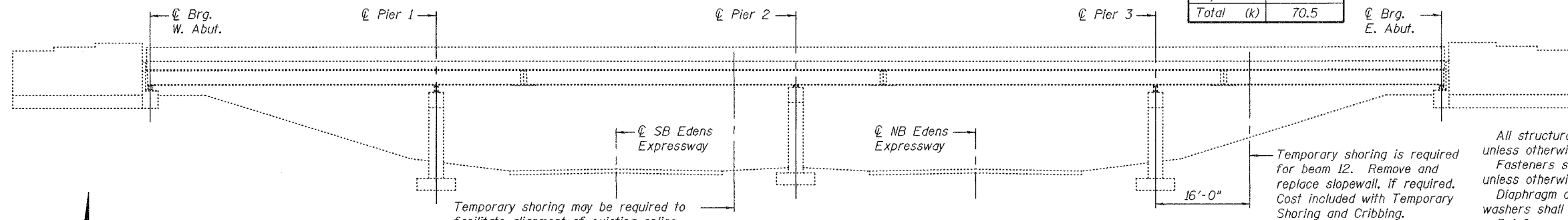
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REACTION TABLE AT TEMPORARY SHORING		
Q	(k)	27.9
L	(k)	32.8
Imp.	(k)	9.8
Total	(k)	70.5

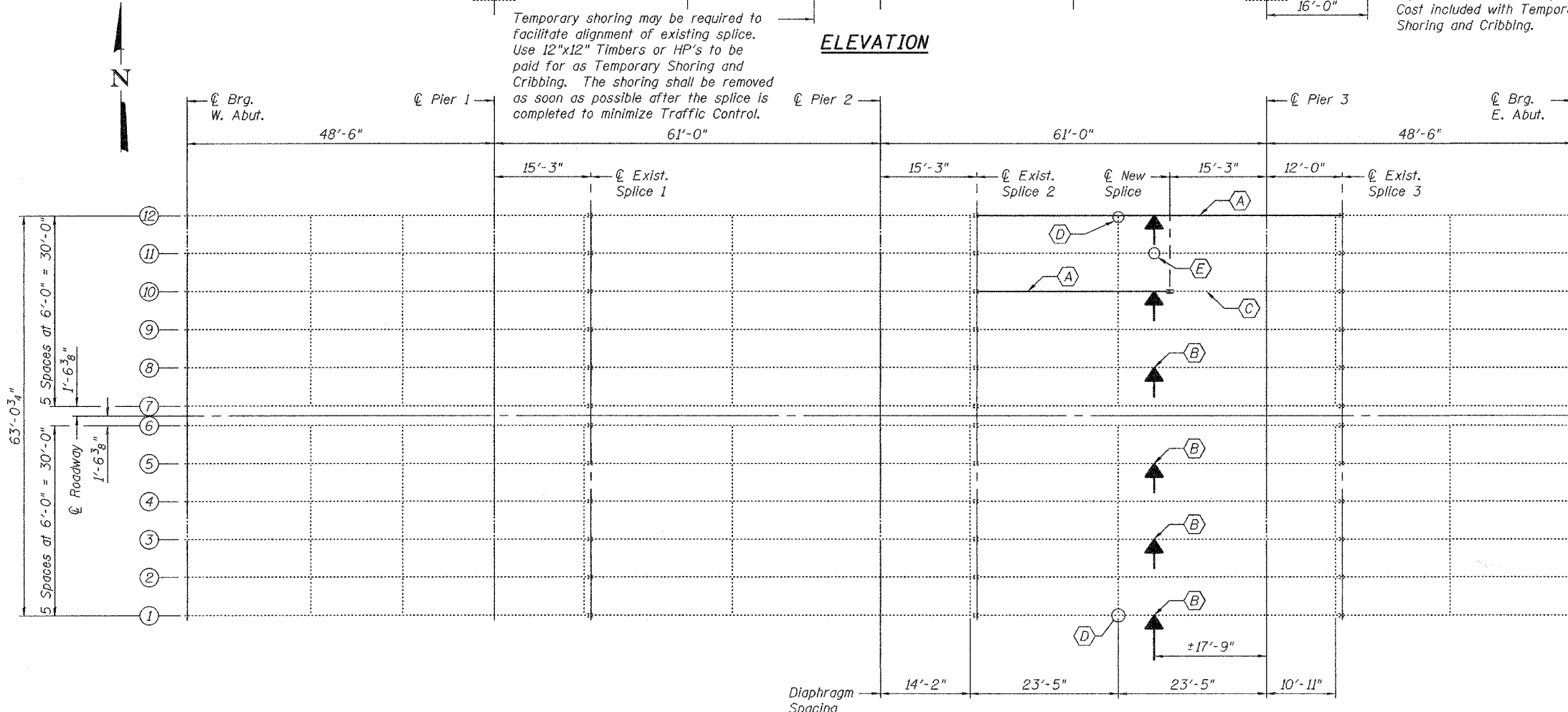
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Cook	10	5

5 SHEETS

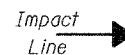
Contract Number: 62957



ELEVATION



PLAN



- (A) Remove and replace beam section.
- (B) Beam straightening and strengthening.
- (C) Beam straightening only.
- (D) Remove and replace lower clip angle.
- (E) Replace sheared off splice bolts.

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.
Fasteners shall be high strength bolts. Bolts 7/8"φ, open holes 15/16"φ, unless otherwise noted.
Diaphragm connection holes shall be 15/16"φ for 3/4"φ bolts. Two hardened washers shall be required at diaphragm connections.
Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
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 structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field 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 the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Cost of removal and/or 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 in the cost of 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 acrylic finish coat for the exterior and bottom flange of the fascia beam shall be Reddish Brown, Munsell No. 2.5 YR 3/4. The color of the acrylic finish coat for interior surfaces shall be Gray, Munsell No. 5B 7/1. See Special Provision "Cleaning and Painting New Metal Structures".
The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project.
Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".
All construction joints shall be bonded.
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams, cover PL's, strengthening PL's and all splice plate material except fill plates.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	3.1
Concrete Superstructure	Cu. Yd.	3.1
Furnishing and Erecting Structural Steel	Pound	11,290
Structural Steel Removal	Pound	11,290
Structural Steel Repair	Pound	2,550
Reinforcement Bars, Epoxy Coated	Pound	120
Temporary Slab Support System	L.S.	1
Beam Straightening	L.S.	1
Temporary Shoring and Cribbing	L.S.	1

DESIGNED *Paul H. Johnson*
CHECKED *Adrian I. Holloway*
DRAWN *[Signature]*
CHECKED *PBJ A-T-H*

November 10, 2005
EXAMINED *John A. Morris*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



Expires: November 30, 2006

PLAN AND ELEVATION
CHURCH STREET / I-94
COOK COUNTY
SN 016-0825