

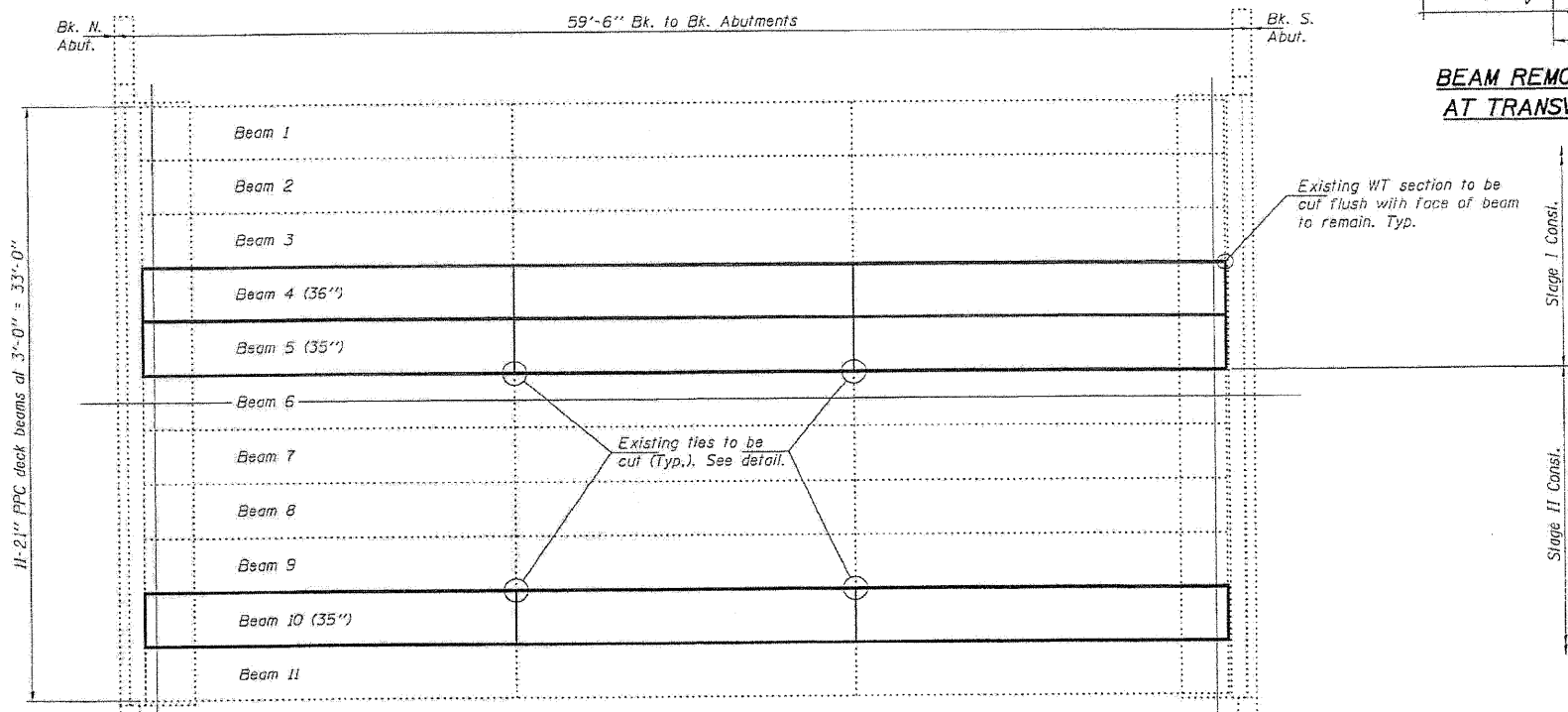
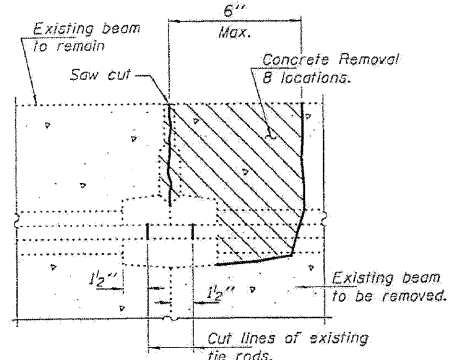
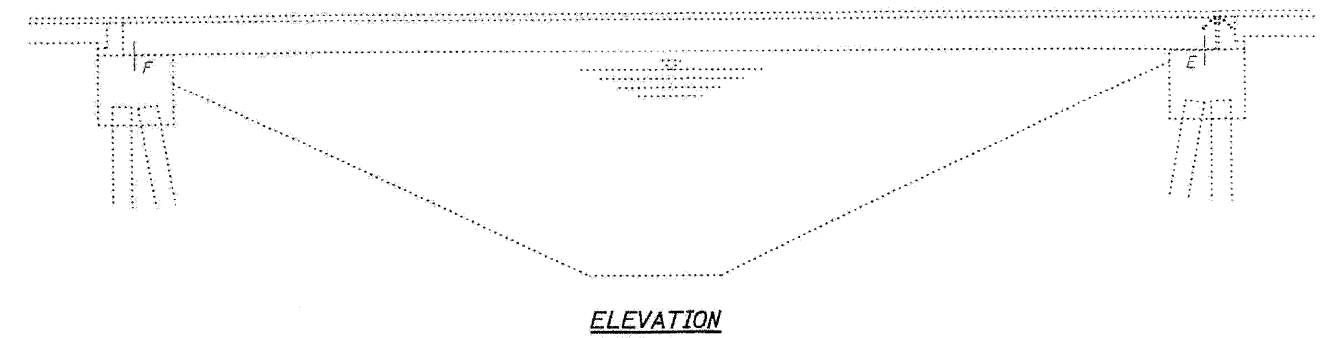
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	DATE	SHEET NO.
FA 796	FORD	12 10	3 SHEETS

Contract Number: 66767

GENERAL NOTES

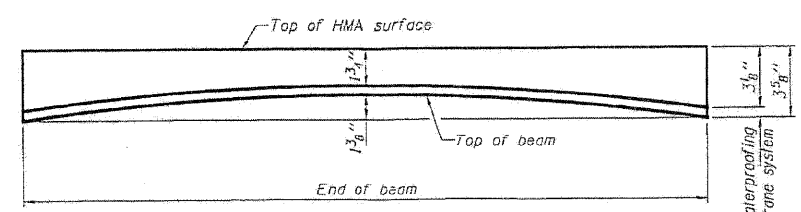
The contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures. If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products. 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. Temporary concrete barrier shall only be anchored into the overlay and not into the PPC deck beams. Any damage done to the bridge during beam removal shall be repaired by the contractor. Cost to be included in the cost of Removal of Existing PPC Deck Beams. All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted. All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).



DESIGNED: *William J. Hallock*
CHECKED: *Victor H. Valera*
DRAWN: *balva*
CHECKED: *VHV ATH*

DECEMBER 28, 2007
EXAMINED: *J. Carl...*
PASSED: *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

Expires: November 30, 2008



DESIGN STRESSES

PRECAST PRESTRESSED UNITS
f'c = 5,000 psi
f'ci = 4,200 psi
f's = 270,000 psi (1/2" low lax strands)
f'si = 201,960 psi (1/2" low lax strands)

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	511
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	501
Hot Mix Asphalt Surface Removal	Sq. Yd.	13.2
HMA Surface Course Mix "D" N50	Tons	9.6
PC Mortar Fairing Course	Foot	283
Asbestos Bearing Pad Removal	Each	3
Waterproofing Membrane System	Sq. Yd.	70

PLAN AND ELEVATION

FA 796 OVER
DRAINAGE DITCH
FORD COUNTY
SN 027-0075

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