

Existing Structure: SN 016-2039, built in 1957 as F.A.I. Rte. 2-Project I-02-2(15) Section 263-010L15-15D over Edens Expressway (F.A.I.-94).  
 Repaired and resurfaced in 1982 as two equal span Reinforced Concrete deck on Precast Prestressed Concrete Beams.  
 The structure measures 39'-0" Out to Out Deck and 128'-5<sup>7</sup>/<sub>8</sub>" End to End of Deck Slab. The substructure consists of Reinforced Concrete closed abutments and a multi-column Pier.  
 Traffic is to be maintained utilizing staged construction. One lane for both directions will be provided by using temporary traffic signals.

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction 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 at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications, 17th Edition.

DESIGN STRESSES

FIELD UNITS  
 f'c = 3,500 psi  
 fy = 60,000 psi

LAST DELAMINATION SURVEY

October 2009

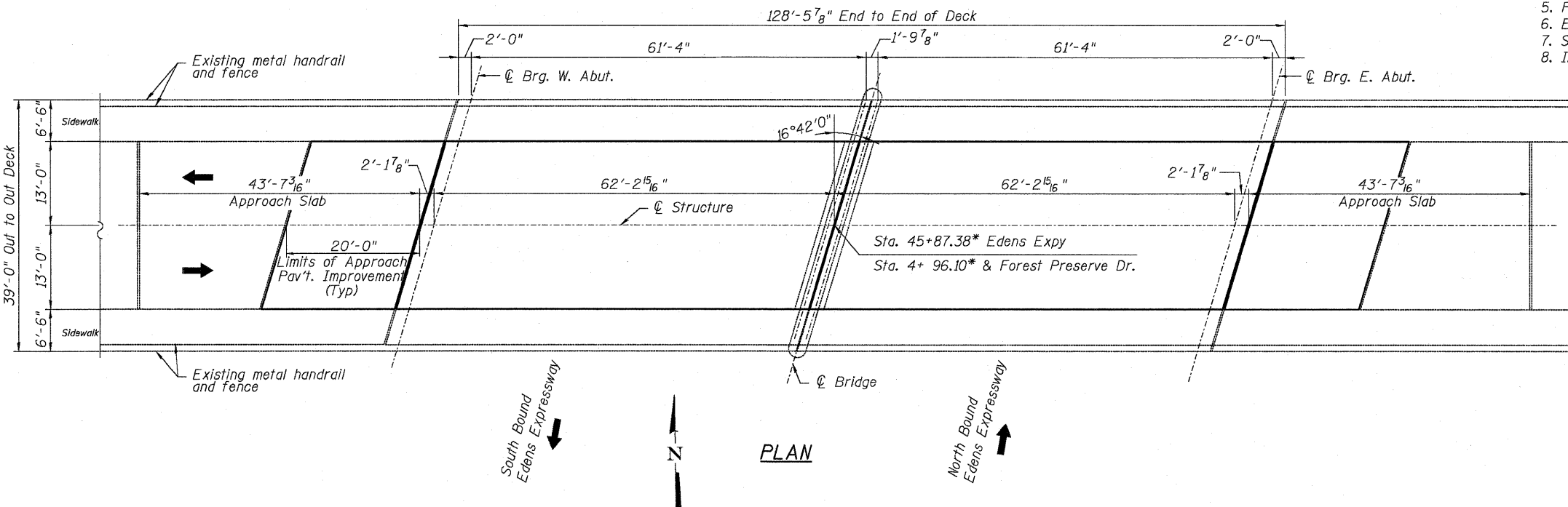
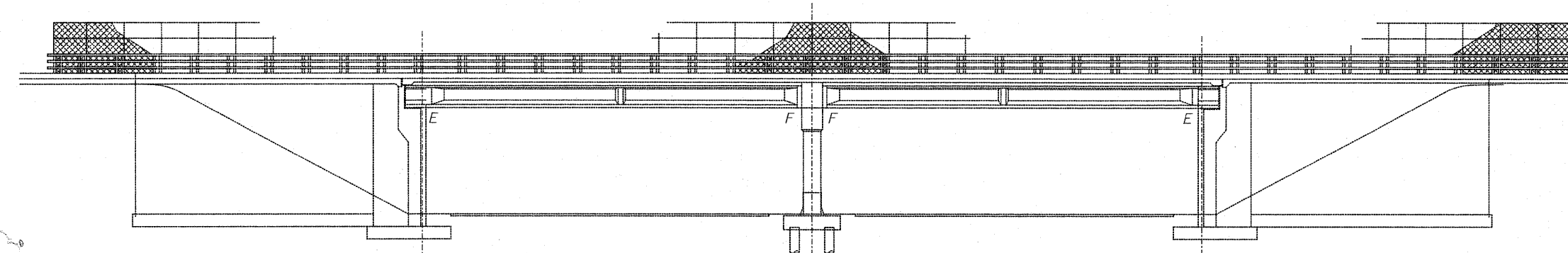
SCOPE OF WORK

1. Remove HMA overlay.
2. Full & Partial Depth Slab repairs.
3. Hydroscarify 1/2 inch deck slab surface.
4. Reconstruction of transverse expansion joints.
5. Place 2 1/2 inch latex concrete overlay.
6. Epoxy Crack Injection on PPC I-Beam.
7. Structural Repairs of Concrete to substructures.
8. Install Permanent Protective Shielding.

INDEX OF SHEETS

- S1 - General Plan & Elevation
- S2 - Stage Construction Details
- S3 - Temporary Concrete Barrier
- S4 - Bridge Deck Patching & Hydro-scarification Plan
- S5 - Protective Shield Plan & PPC-Beam Repair Detail
- S6 - Protective Shield Details
- S7 - Abutments Repair Details
- S8 - Piers Repair Details
- S9 - Transverse Joint Reconstruction Details

SOUTH ELEVATION



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	368	-	368
Hot-Mix Asphalt Surface Removal, 2"	Sq. Yd.	115	-	115
Bridge Deck Hydro-scarification 1/2"	Sq. Yd.	368	-	368
Bridge Deck Grooving	Sq. Yd.	368	-	368
Protective Coat	Sq. Yd.	368	29	397
Bridge Deck Latex Concrete Overlay, 2 1/2"	Sq. Yd.	368	-	368
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	-	259	259
Silicone Joint Sealer, 1 1/2"	Foot	127	-	127
Deck Slab Repair (Full Depth Type II)	Sq. Yd.	5	-	5
Polymer Concrete	Cu. Ft.	7	-	7
Hot-Mix Asphalt Surface Course, Mix "C", N-50, 2"	Tons	14	-	14
Protective Shield (Permanent)	Sq. Yd.	514	-	514
Epoxy Crack Injection	Foot	24	-	24

\* Information taken from 1981 existing plans.



*Theodore P. Georgas* 3-1-10  
 Theodore P. Georgas Date  
 Licensed Structural Engineer  
 State of Illinois 081-4609  
 Expires 11/30/2010

GENERAL PLAN AND ELEVATION  
 FOREST PRESERVE DRIVE  
 OVER F.A.I. 94 (EDENS EXPRESSWAY)  
 COOK COUNTY  
 STA. 4+96.10  
 STRUCTURE NO. 016-2039

DESIGNED JPM
CHECKED TG
DRAWN MPS
CHECKED JPM, TG



SHEET NO. S1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	94	0101.15-1	COOK	20	8
S9 SHEETS	CONTRACT NO. 60J29			ILLINOIS FED. AID PROJECT	