

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	DATE	SHEET
F.A.I. 94	2006-043 RS	COOK	135	113
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

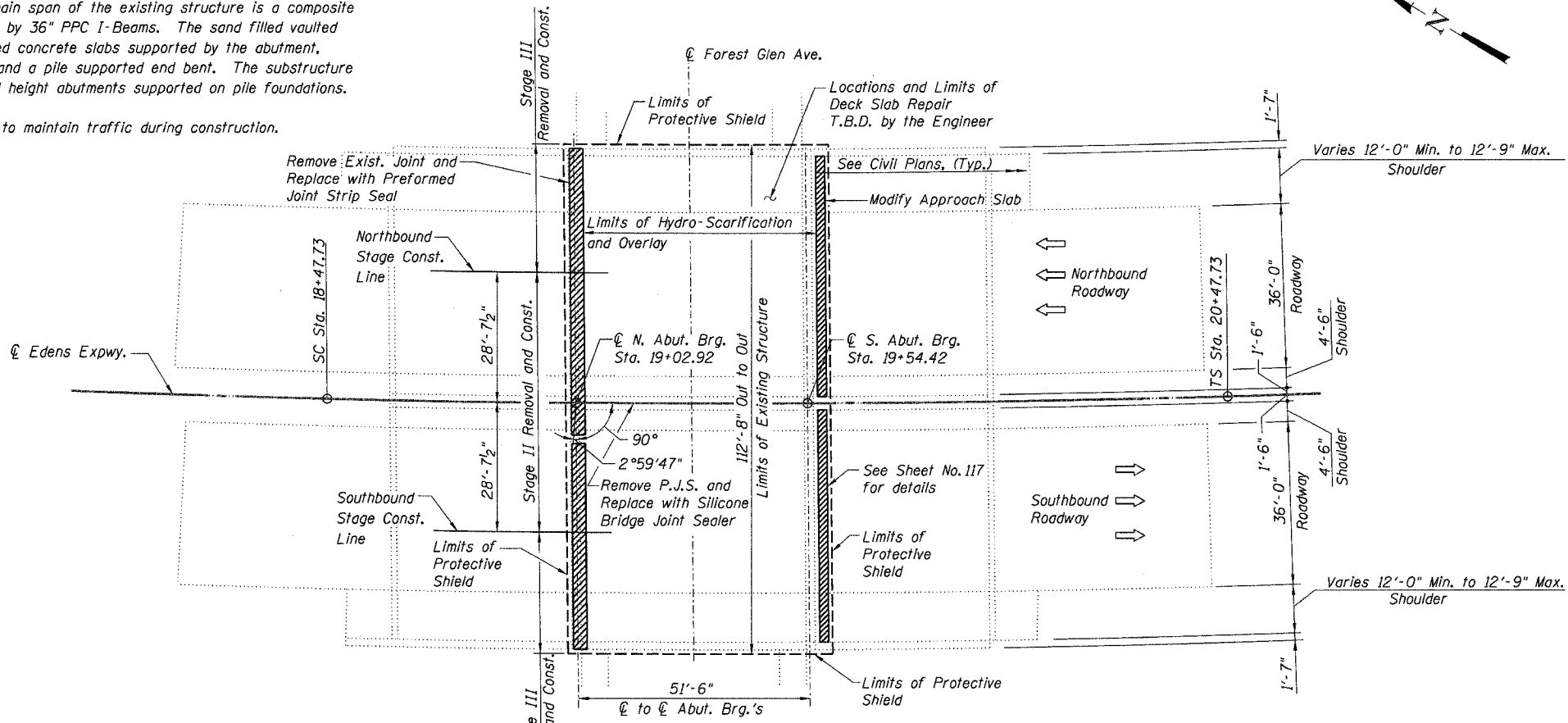
Contract # 62747

B.M. - Engineer to set temporary benchmark in field as necessary.

Existing Structure - Structure No. 016-0106, built as S.A. Edens Superhighway, Section 263-0202.1-15D at Station 19+28.67 in 1949. The structure was rehabilitated and widened in 1979 as FAI Route 94 (Edens Expressway), Section 1975-118-R & BR. The existing structure consists of a simple span with vaulted, sand filled approach spans. The main span of the existing structure is a composite reinforced concrete deck supported by 36" PPC I-Beams. The sand filled vaulted approaches consist of 16" reinforced concrete slabs supported by the abutment, a pile supported intermediate bent and a pile supported end bent. The substructure consists of reinforced concrete full height abutments supported on pile foundations.

Stage construction shall be utilized to maintain traffic during construction.

No Salvage



DESIGN SPECIFICATIONS

2002 AASHTO

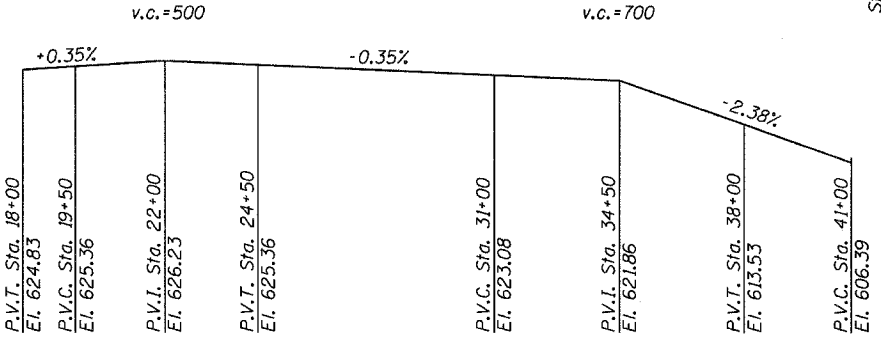
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

SCOPE OF WORK

1. Provide Protective Shield with limits as indicated.
2. Perform substructure repairs (structural repair of concrete and epoxy crack injection).
3. Close Stage II construction areas to traffic.
4. Hydro-Scarify the deck slab.
5. Remove and replace expansion joint and surrounding concrete (including parapets); Remove and replace concrete at fixed joint.
6. Perform deck slab repair.
7. Place Overlay.
8. Place temporary roadway transitions.
9. Open Stage II Removal area to staged traffic.
10. Close Stage III Removal areas to traffic.
11. Repeat steps 4-8 but for Stage III construction.
12. Open bridge to traffic.



**EXISTING PROFILE GRADE
EDENS EXPRESSWAY**

EXISTING CURVE DATA

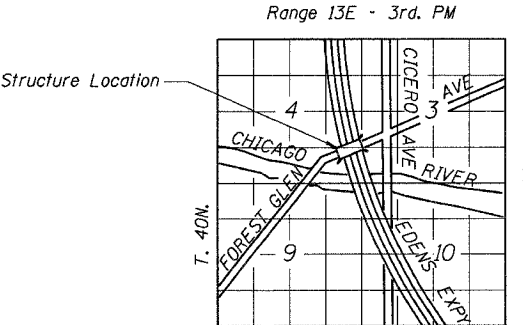
$\Delta = 38^\circ 21'$
 $D = 3^\circ$
 $T = 764.52'$
 $L_s = 200.0'$
 $E_s = 113.12'$
 $R = 1910.08'$
 $L_c = 1078.33'$
 $P.I. = \text{Sta. } 13+33.92$

NOTES

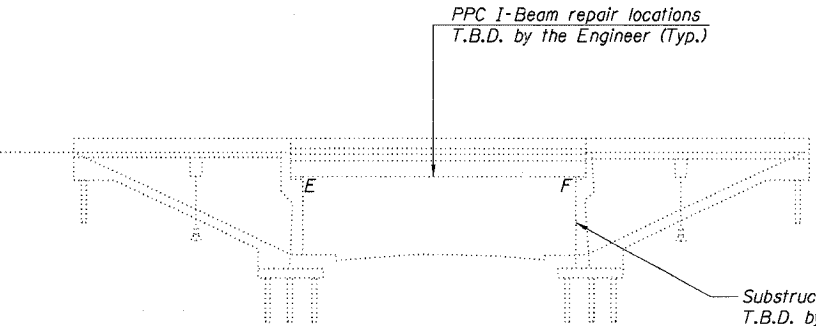
1. For joint removal and replacement plans and details, see Sheet No. 116 thru 117b
2. See Structural Notes on Sheet No. 113a

LEGEND

- Protective Shield Limits
- Concrete Removal / Joint Reconstruction



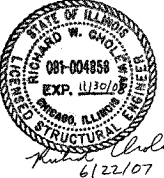
LOCATION SKETCH



**ELEVATION
(Looking East)**

DESIGNED	DWH
CHECKED	JSD
DRAWN	EF
CHECKED	JSD

LOCHNER
H.W. LOCHNER, INC., CHICAGO, ILLINOIS



**GENERAL PLAN & ELEVATION
F.A.I. 94/ (EDENS EXPRESSWAY)
OVER FOREST GLEN
COOK COUNTY
STATION 19+28.67
STRUCTURE NO. 016-0106**

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