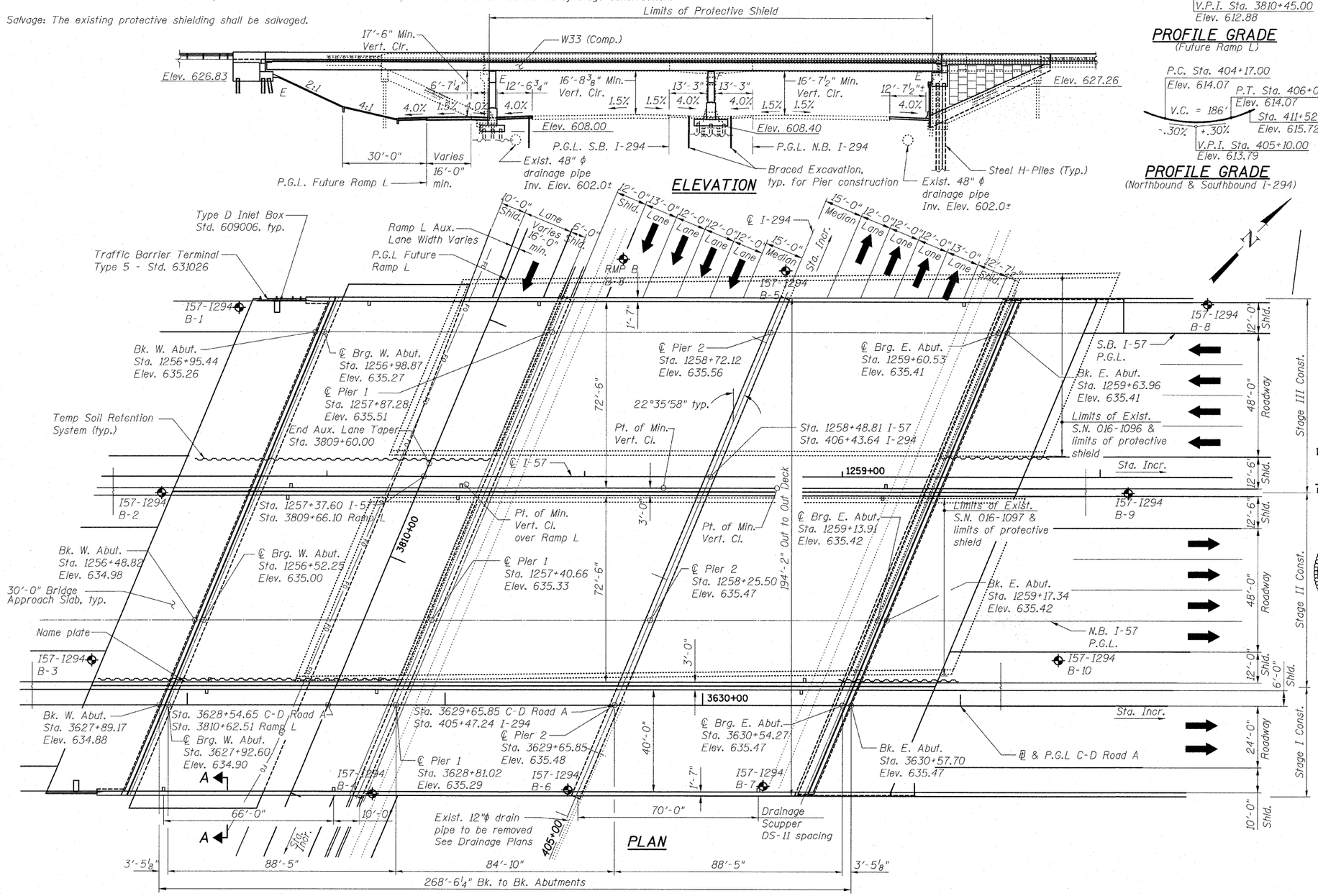
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: Iron rod with yellow cap set 7'± off west side of N.B. shoulder at Sta. 400+00. Elev. 610.79

Existing Structures: S.N. 016-1096 S.B. and 016-1097 N.B. built in 1968 as F.A.I. Rte. Section 068-1414.2-C.F. at Sta. 252+48.70. Each structure consists of a reinforced concrete deck supported by two span continuous steel welded plate girders, with an overall length of 254'-10 3/8" and width varying from 68'-9 5/16" to 70'-9 3/8". The spans are supported by a reinforced concrete pier and vaulted abutments on steel piles. Traffic to be maintained by stage construction.

Salvage: The existing protective shielding shall be salvaged.



P.T. Sta. 3809+52.00
Elev. 613.22
V.C. = 186'
P.T. Sta. 3811+38.00
Elev. 613.16
-0.37% +0.30%
V.P.I. Sta. 3810+45.00
Elev. 612.88

PROFILE GRADE
(Future Ramp L)

P.C. Sta. 404+17.00
Elev. 614.07
P.T. Sta. 406+03.00
Elev. 614.07
V.C. = 186'
Sta. 411+52.00
Elev. 615.72
-.30% +.30%
V.P.I. Sta. 405+10.00
Elev. 613.79

PROFILE GRADE
(Northbound & Southbound I-294)

P.T. Sta. 3633+50.00
Elev. 634.00
P.C. Sta. 3618+50.00
Elev. 618.18
V.C. = 1500'
+2.99% -0.88%
V.P.I. Sta. 3626+00.00
Elev. 640.60

PROFILE GRADE
(C-D Road A)

P.T. Sta. 1262+60.00
Elev. 633.50
P.C. Sta. 1246+60.00
Elev. 617.98
V.C. = 1600'
+2.95% -1.01%
V.P.I. Sta. 1254+60.00
Elev. 641.58

PROFILE GRADE
(Southbound I-57)

P.T. Sta. 1262+05.00
Elev. 633.91
P.C. Sta. 1247+05.00
Elev. 619.29
V.C. = 1500'
+2.83% -0.88%
V.P.I. Sta. 1254+55.00
Elev. 640.51

PROFILE GRADE
(Northbound I-57)

DESIGN SPECIFICATIONS
2007 AASHTO LRFD Bridge Design Specifications, 4th Edition with 2008 & 2009 Interims

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)

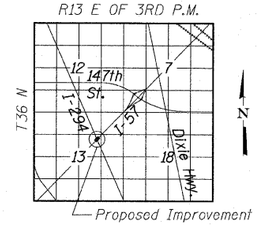
SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.091
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.155
Soil Site Class = D

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TJD)
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
SPIROS PANTAZIS
081-006448
CHICAGO, ILLINOIS
LICENSED STRUCTURAL ENGINEER

Signed
Spiros Pantazis, S.E. Il. Lic. No. 081-006448
Expires 11-30-2010.
Date 3/18/10

R13 E OF 3RD P.M.



Proposed Improvement

GENERAL PLAN & ELEVATION
I-57 OVER I-294
F.A.I. RTE. 57 SEC. 1414.2B
COOK COUNTY
STATION 1258+48.81
STRUCTURE NO. 016-1251

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3/17/2010

TY·LIN INTERNATIONAL

DESIGNED -	SP
CHECKED -	SP, PDF
DRAWN -	PK
CHECKED -	SP, PDF
DATE -	03/18/10

REVISIONS	
NAME	DATE

SHEET NO. 1
68 SHEETS

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	1414.2B	COOK	516	246
		CONTRACT NO. 60J27		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		