

Bench Mark: Iron rod with yellow cap set 7'± off west side of N.B. I-294 shoulder at Sta. 400+00. Elev. 610.79

Existing Structures: None. Structure to be constructed in 3 stages utilizing stage construction.

Salvage: None

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HORIZONTAL RAMP B CURVE DATA
 PI STA. = 3042+99.82
 $\Delta = 128^\circ 46' 46''$ (LT)
 $D = 6^\circ 45' 52''$
 $R = 847.00'$
 $T = 1,767.01'$
 $L = 1,903.74'$
 $E = 1,112.52'$
 $e = 5.9\%$
 $S.E. RUN = 196.5'$
 P.C. STA. = 3025+32.81
 P.T. STA. = 3044+36.55

STATION 1261+04.11
 BUILT 20 BY
 STATE OF ILLINOIS
 F.A.I. RTE. 57 SEC. 1414.2B
 LOADING HL-93
 STRUCTURE NO. 016-1252

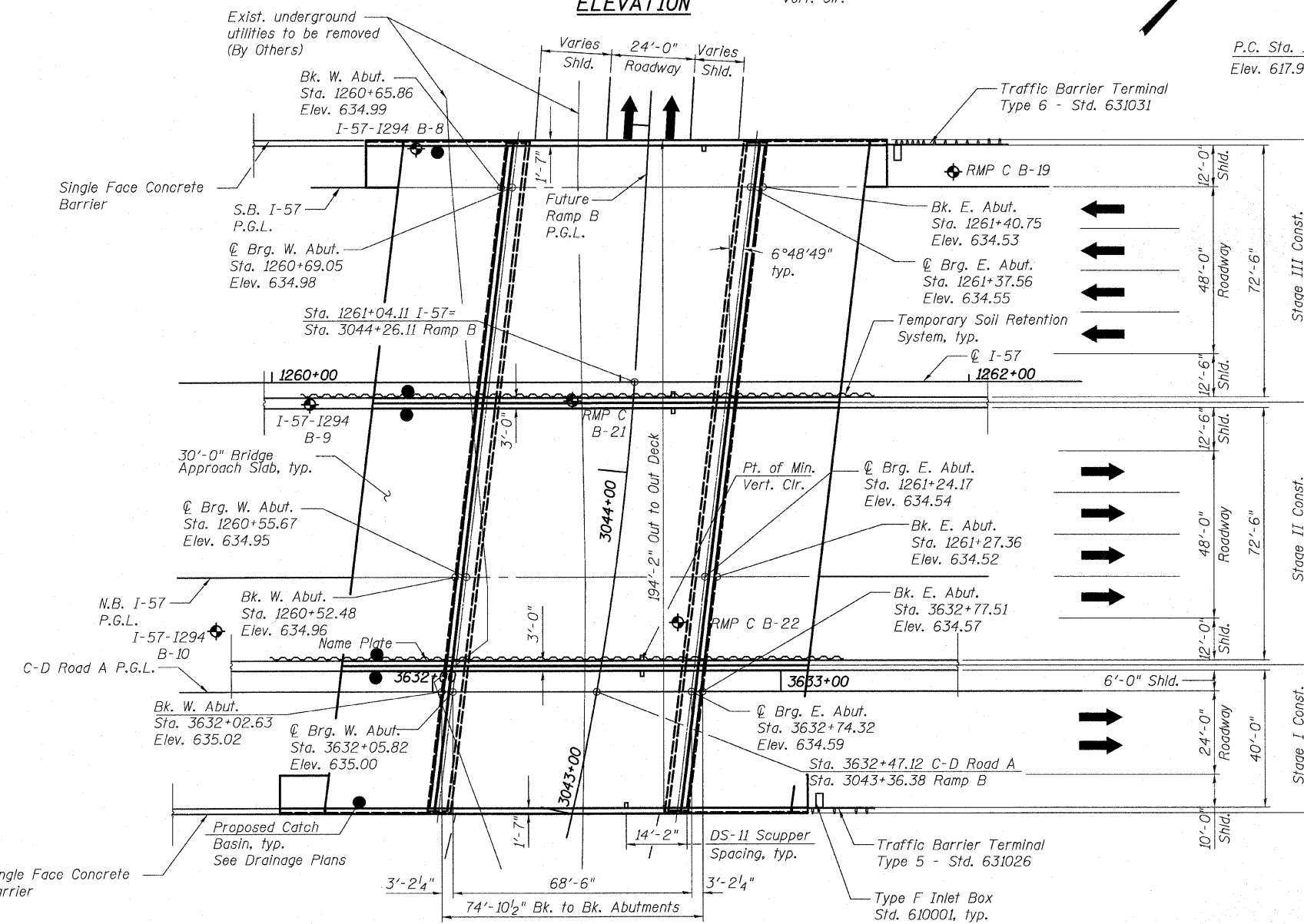
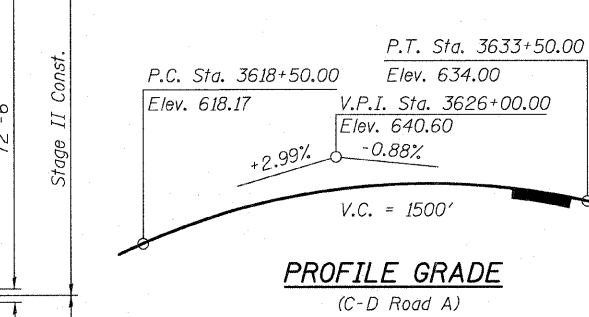
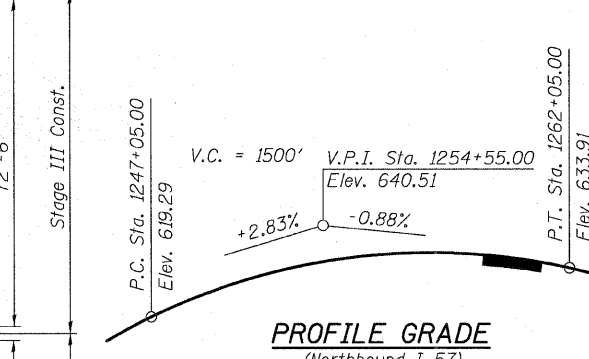
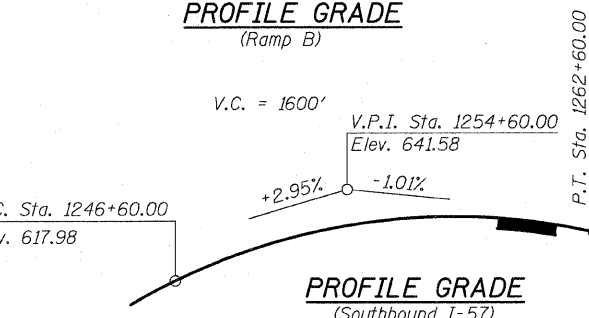
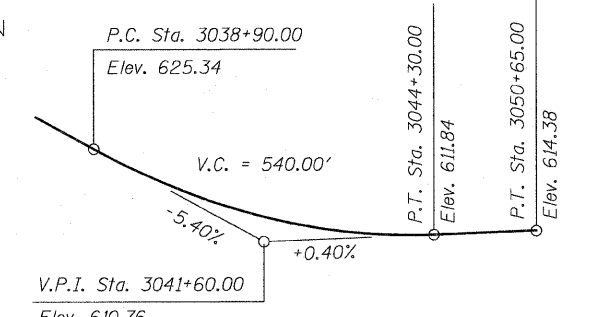
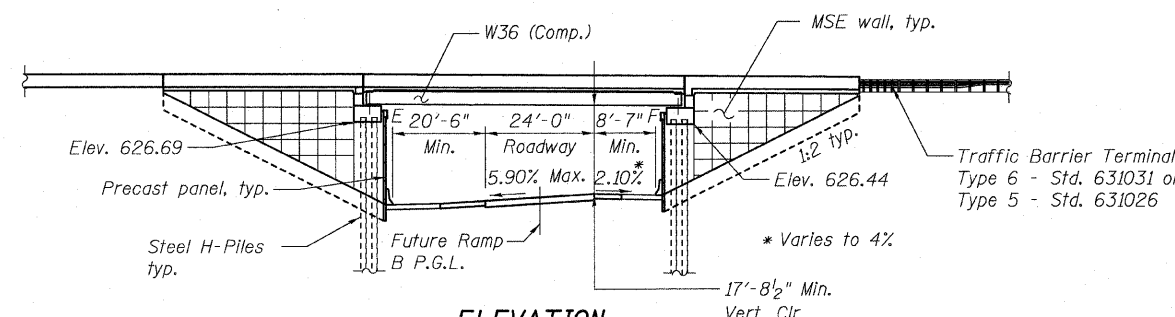
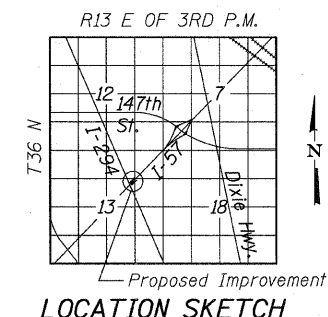
NAME PLATE
 See Std. 515001

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

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

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50)

SEISMIC DATA
 Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.065g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.116g
 Soil Site Class = C



TYLIN INTERNATIONAL

DESIGNED	DY	REVISIONS	
CHECKED	AD,LS	NAME	DATE
DRAWN	DY,EI		
CHECKED	LS,SP,PDF		
DATE	03/18/10		

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TSB)
 ENGINEER OF BRIDGES AND STRUCTURES
 Signed *J.P.O.*
 Spiros Pantazis, S.E. Il. Lic. No. 081-006448
 Expires 11-30-2010.
 Date 3-18-10



GENERAL PLAN & ELEVATION
I-57 OVER RAMP B
 F.A.I. RTE. 57 SEC. 1414.2B
 COOK COUNTY
 STATION 1261+04.11
 STRUCTURE NO. 016-1252

SHEET NO. 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
62 SHEETS	57	1414.2B	COOK	516	314
CONTRACT NO. 60J27					
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

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