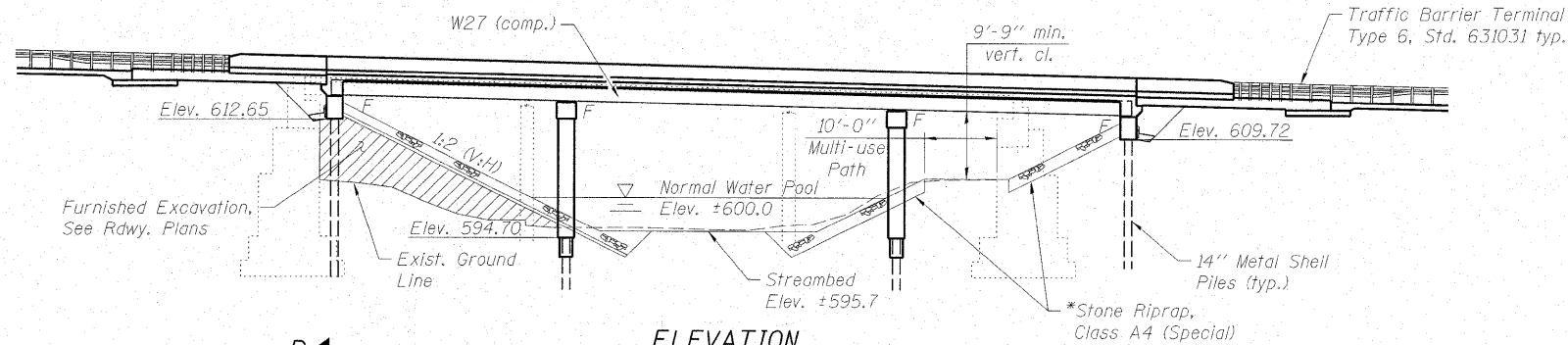


Benchmark: Chiseled "x" on the NW headwall. Elev. 615.11.

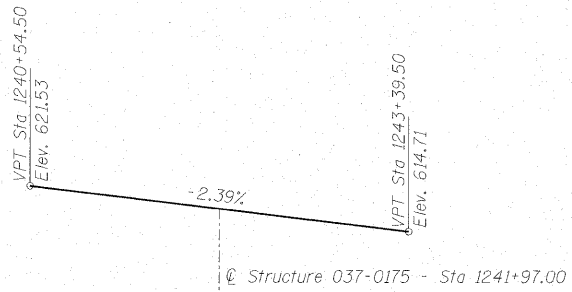
Existing Structure: S.M. 037-0124; Built 1932 as S.B.I. 82, Section 129B,C at Station 1285+25. Original structure was a single span truss on closed concrete abutments. The structure was reconstructed in 1973 as S.B.I. 82, Section 129B-1 at Station 1285+20.76. The substructure was partially removed and the superstructure was replaced using continuous W.F. beams on two new pile bent piers, 114'-4" bk. to bk. abutments, 32'-6" out to out of deck. The structure is to be removed and replaced with a 3-span W27 beam bridge on integral abutments. One lane traffic is to be maintained using stage construction.

No salvage.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



ELEVATION



PROFILE GRADE

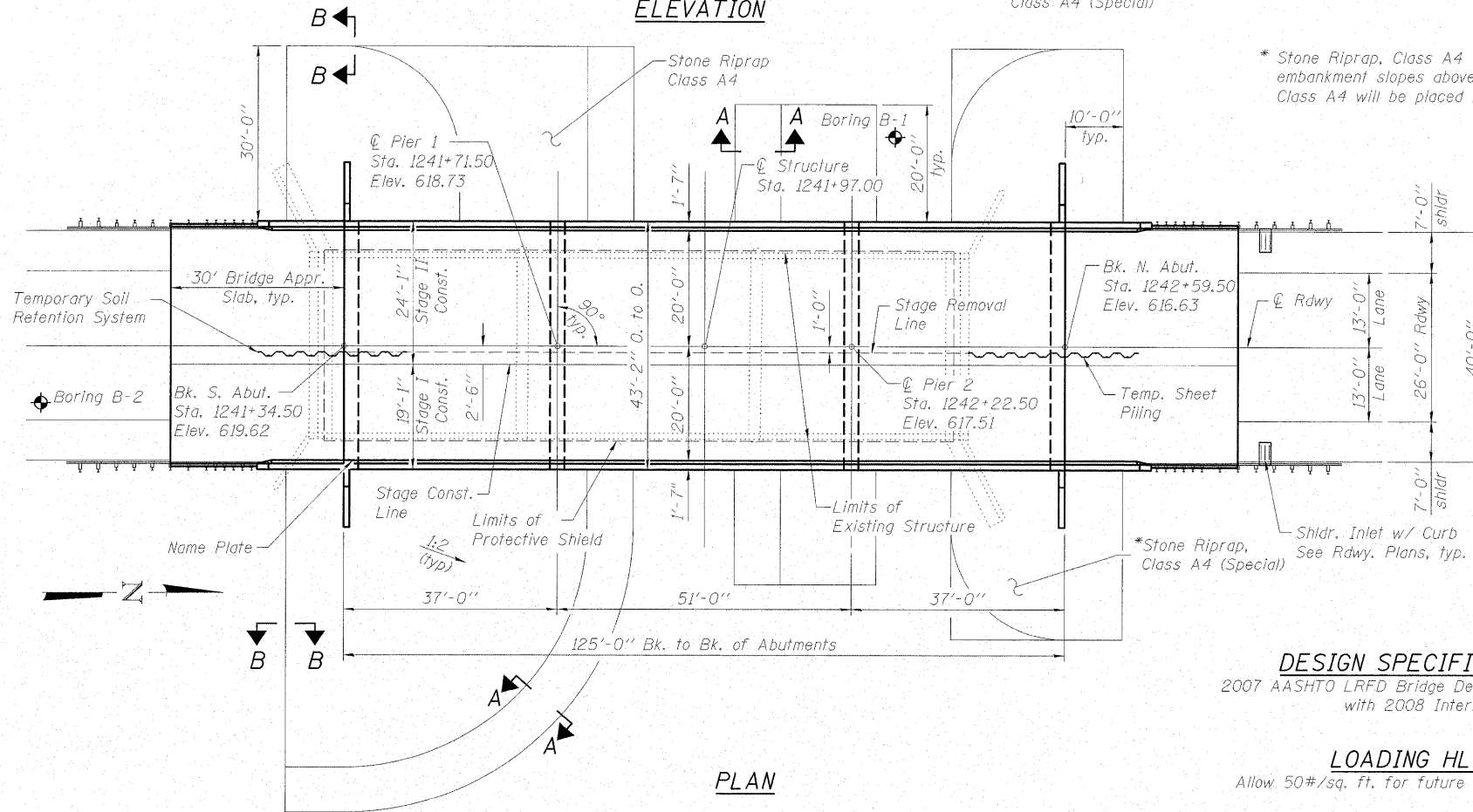
FAP 638 - IL Route 82  
(along centerline roadway)

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	Pier 1	Pier 2	N. Abut.
	612.7	591.7	591.7	609.7

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data
- 3 Staging Details
- 4 Temporary Concrete Barrier
- 5-6 Top of Slab Elevations
- 7-8 Top of Approach Slab Elevations
- 9 Superstructure
- 10 Superstructure Details
- 11 Integral Abutment Diaphragm Details
- 12-13 Bridge Approach Slab Details
- 14 Framing Plan & Details
- 15 Structural Steel Details
- 16 South Abutment
- 17 North Abutment
- 18 Pier 1
- 19 Pier 2
- 20 Metal Shell Pile Details
- 21 Bar Splicer Assembly Details
- 22 Cantilever Forming Brackets
- 23-24 Soil Borings



PLAN

\* Stone Riprap, Class A4 (Special) shall be placed on north embankment slopes above water line. Stone Riprap, Class A4 will be placed below normal water pool elevation.

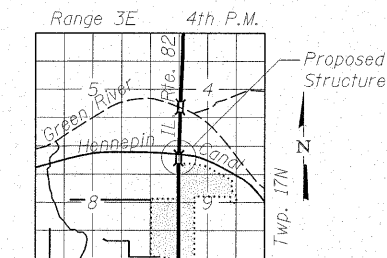
STATION 1241+97  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. RT. 638 SEC. 129 BR-3  
LOADING HL-93  
STRUCTURE NO. 037-0175

NAME PLATE

See Std. 515001

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson (TSP)*  
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH



*Kristen E. Fields*  
Date Signed: 0-10-09  
Exp. Date: 11-30-10

DESIGN SPECIFICATIONS  
2007 AASHTO LRFD Bridge Design Specifications  
with 2008 Interims

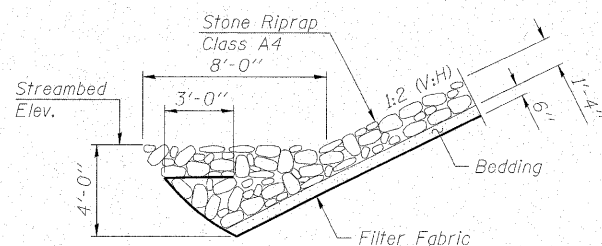
LOADING HL-93  
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

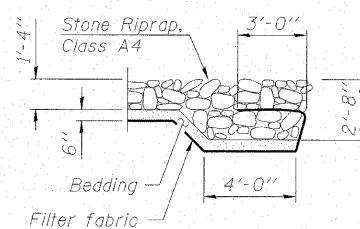
FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (M270 Grade 50)  
fy = 36,000 psi (M270 Grade 36)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.089g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.137g  
Soil Site Class = D



SECTION A-A



SECTION B-B



DESIGNED - BAS
CHECKED - KEF
DRAWN - SGM
CHECKED - RJA/KEF

GENERAL PLAN & ELEVATION  
IL. RTE. 82 OVER HENNEPIN CANAL  
(PUBLIC WATER)  
F.A.P. RTE. 638 SEC. 129 BR-3  
HENRY COUNTY  
STATION 1241+97.00  
STRUCTURE NO. 037-0175

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	638	129 BR-3	HENRY	73	18
24 SHEETS					
CONTRACT NO. 64B08					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					