

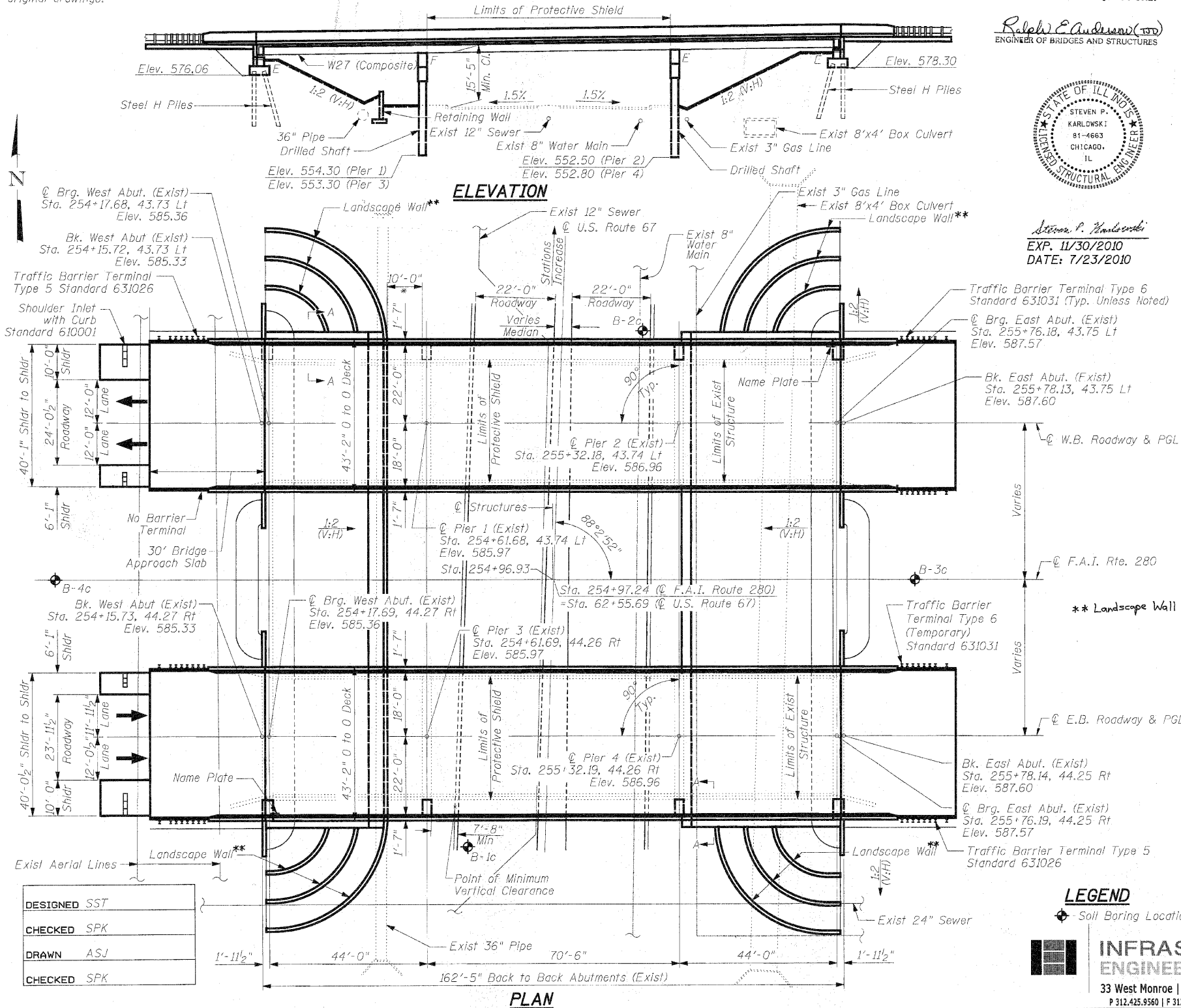
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bench Mark: IDOT District Network Monument 65723070, 131.5 Feet South of I-280 Centerline at Sta.283+31.91. Elev. 579.52.

Existing Structures: S.N. 081-0022 (E.B.) and S.N. 081-0023 (W.B.) built as F.A.I. Route 280, Section 81-1HB-2 at Station 254+98.87 in 1964. Deck wearing surface, expansion joints and barriers were replaced in 1989. Each structure consists of a 3 span continuous, variable depth, cast-in-place reinforced concrete tee beam superstructure. Each substructure consists of concrete abutments supported on piles and hammerhead piers bearing on rock. Each structure is 162'-5" long back to back of abutments and the deck is 35'-8" out-to-out. Existing superstructure to be removed and replaced with widened superstructure. Traffic is to be routed to one side of the interstate roadway during construction of the structure on the other side.

No salvage.

Note: All existing elevations shown on these drawings are 0.20 feet lower than the corresponding elevations shown on the original drawings.

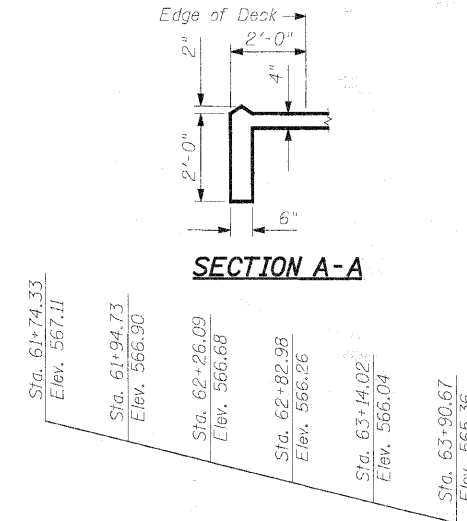


APPROVED
FOR STRUCTURAL ADEQUACY ONLY

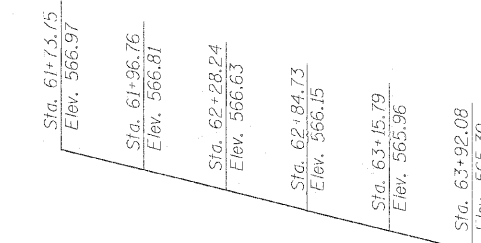
Robert E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES



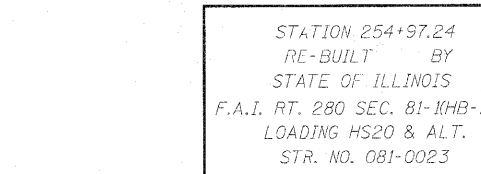
Steven P. Karlewski
EXP. 11/30/2010
DATE: 7/23/2010



PROFILE GRADE
U.S. ROUTE 67 (S.B. LANES)
(Along West Edge of Roadway)



PROFILE GRADE
U.S. ROUTE 67 (N.B. LANES)
(Along East Edge of Roadway)

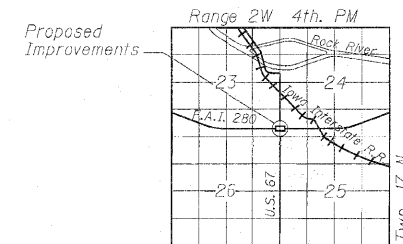


WESTBOUND LANES

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



LOCATION SKETCH

DESIGN SPECIFICATIONS

AASHTO 2002 Standard Specifications
for Highway Bridges

LOADING HS20-44 & ALT

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS (New Construction)

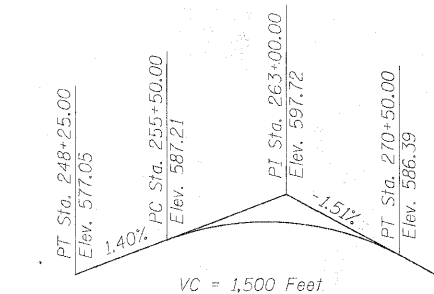
f'_c = 3,500 psi (Concrete)
 f_y = 60,000 psi (Reinforcement)
 f_y = 50,000 psi (Structural Steel) (AASHTO M270 Grade 50)
 f_y = 36,000 psi (Structural Steel) (AASHTO M270 Grade 36)

FIELD UNITS (Existing Construction)

f'_c = 1,000 psi (Concrete)
 f_s = 20,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.034
Site Coefficient (S) = 1.0



PROFILE GRADE F.A.I. ROUTE 280
(Along E. Roadway)

* Multiuse Path

STATION 254+97.24
RE-BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 280 SEC. 81-1(HB-2)R
LOADING HS20 & ALT.
STR. NO. 081-0022

EASTBOUND LANES

NAME PLATE

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

GENERAL PLAN & ELEVATION
I-280 OVER U.S. ROUTE 67
F.A.I. ROUTE 280 - SEC. 81-1(HB-2)R
ROCK ISLAND COUNTY
STATION 254+97.24
STRUCTURE NO. 081-0022 (E.B.)
STRUCTURE NO. 081-0023 (W.B.)

LEGEND

Soil Boring Location



INFRASTRUCTURE
ENGINEERING | INCORPORATED

33 West Monroe | Suite 1540 | Chicago, IL 60603
P 312.425.9560 | F 312.425.9564 | www.infrastructure-eng.com

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
54 SHEETS	280	81-1(HB-2)R	ROCK ISLAND	503	283
CONTRACT NO. 64815					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					