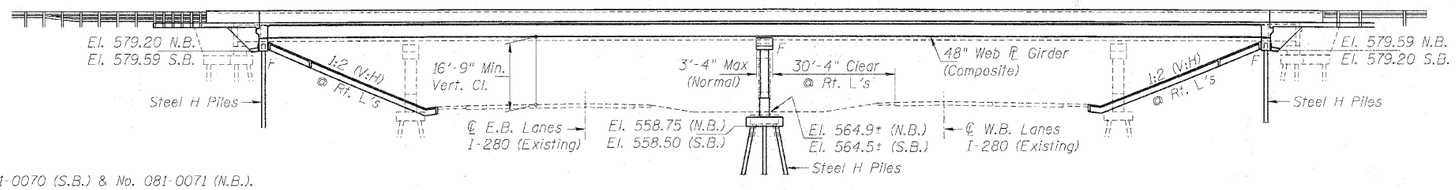
Bench Marks:
District 2 Network Monument, I-280 Sta. 117+51.27, 0.65' Rt., Elev. 565.81
District 2 Network Monument, I-280 Sta. 92+99.54, 0.82' Rt., Elev. 563.05

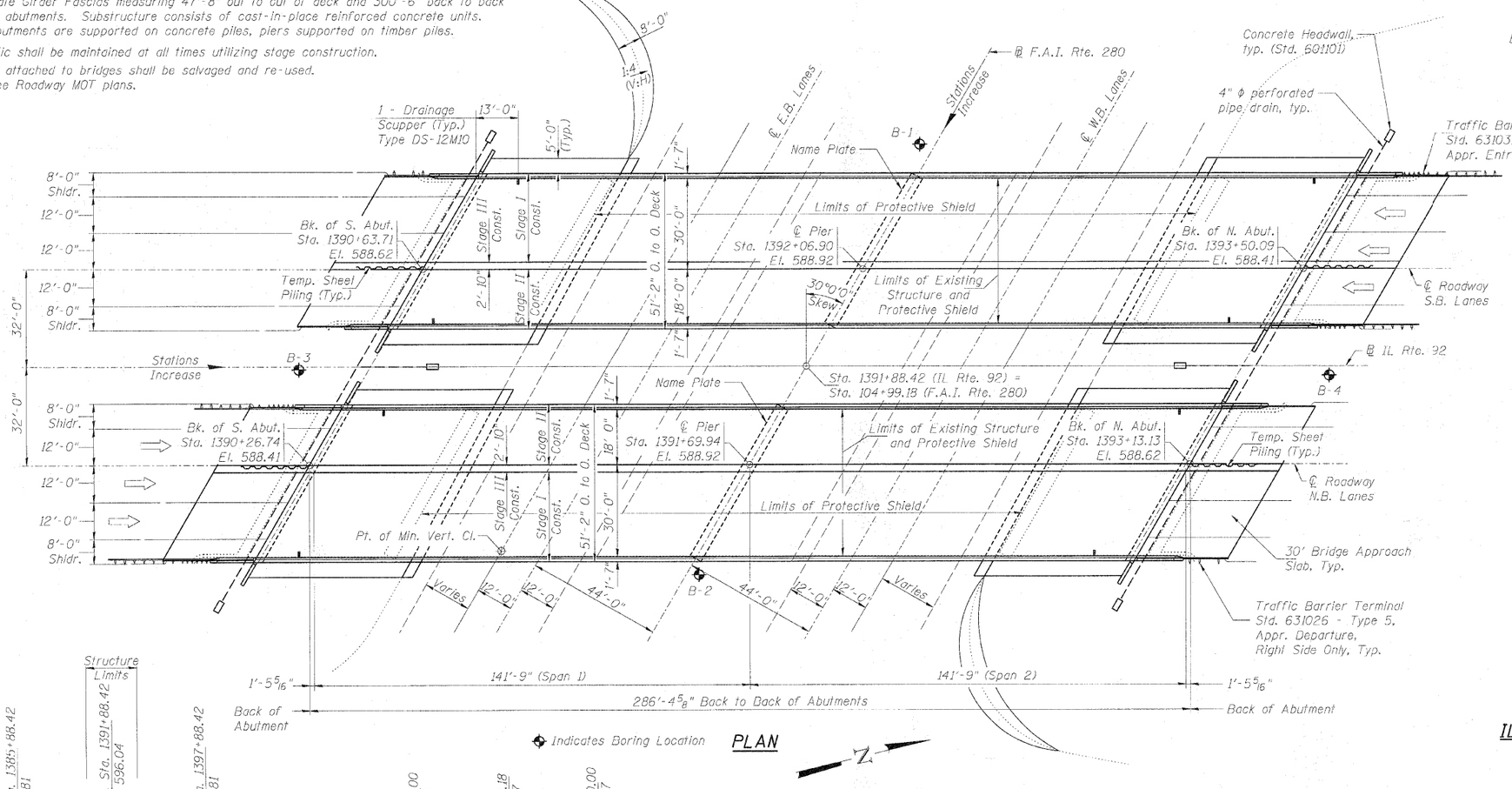


ELEVATION

Existing Structures: No. 081-0070 (S.B.) & No. 081-0071 (N.B.).
Built as F.A.I. 280, Section 81-1-HB at Sta. 105+00.00 in 1963.
R.C. deck replacement and repairs in 1988. Beam repair due to vehicle impact in 2000.
Superstructure consists of a 2 Span Plate Girder and 2 Spans Wide Flange with Plate Girder Fascias measuring 47'-8" out to out of deck and 300'-6" back to back of abutments. Substructure consists of cast-in-place reinforced concrete units. Abutments are supported on concrete piles, piers supported on timber piles.

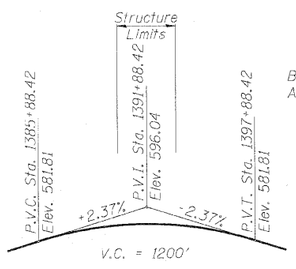
Traffic shall be maintained at all times utilizing stage construction.

Signs attached to bridges shall be salvaged and re-used.
See Roadway MOT plans.



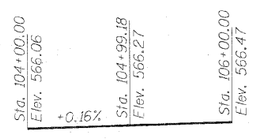
◆ Indicates Boring Location

PLAN



PROFILE GRADE

IL Route 92 - Along ℄ N.B. & S.B. Lanes



PROFILE GRADE

Existing F.A.I. Route 280 - Along ℄ E.B. & W.B. Lanes

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS

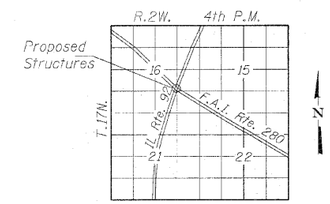
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (Struct. Steel) (M270 Grade 50)
fy = 36,000 psi (Struct. Steel) (M270 Grade 36)

LOADING HS20-44

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

SEISMIC DATA

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



LOCATION SKETCH

FRANCIS L. NAUMAN
081-004900
STATE OF ILLINOIS
LICENSED STRUCTURAL ENGINEER

DATE SIGNED 7/21/2010
LIC. EXP. DATE : 11/30/2010

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

GENERAL PLAN
IL ROUTE 92 OVER F.A.I. ROUTE 280
F.A.I. 280 SECTION 81-1(HB)R
ROCK ISLAND COUNTY
STA. 104+99.18
STRUCTURE NUMBERS 081-0188 (S.B.) & 081-0189 (N.B.)

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 05R1532A
DATE 07/23/10
SHEET NO. 1
50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-1(HB)R	Rock Island	503	134

CONTRACT NO. 64815
ILLINOIS | FED. AID PROJECT

07/22/2010
c:\pwidot_wrk\vda_rsd_deleted\ed3638\P0280-6486-00_GP&E.dgn

LAYOUT	JKS/FLN	06/05/10
DRAWN	MGM/JDM	07/21/10
REVIEWED	JKS/FLN	07/21/10