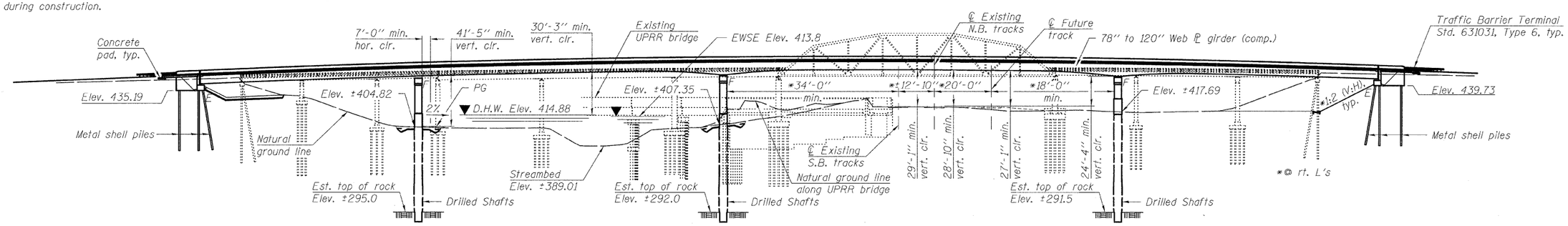
Benchmark: NAVD 88 - Steel rod in casing located 0.1 miles Northeast of the intersection of IL Rte. 3 and the UPRR on top of the North levee at the East end of the Northeast headwall for the canal floodgate, Elev. 430.35.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

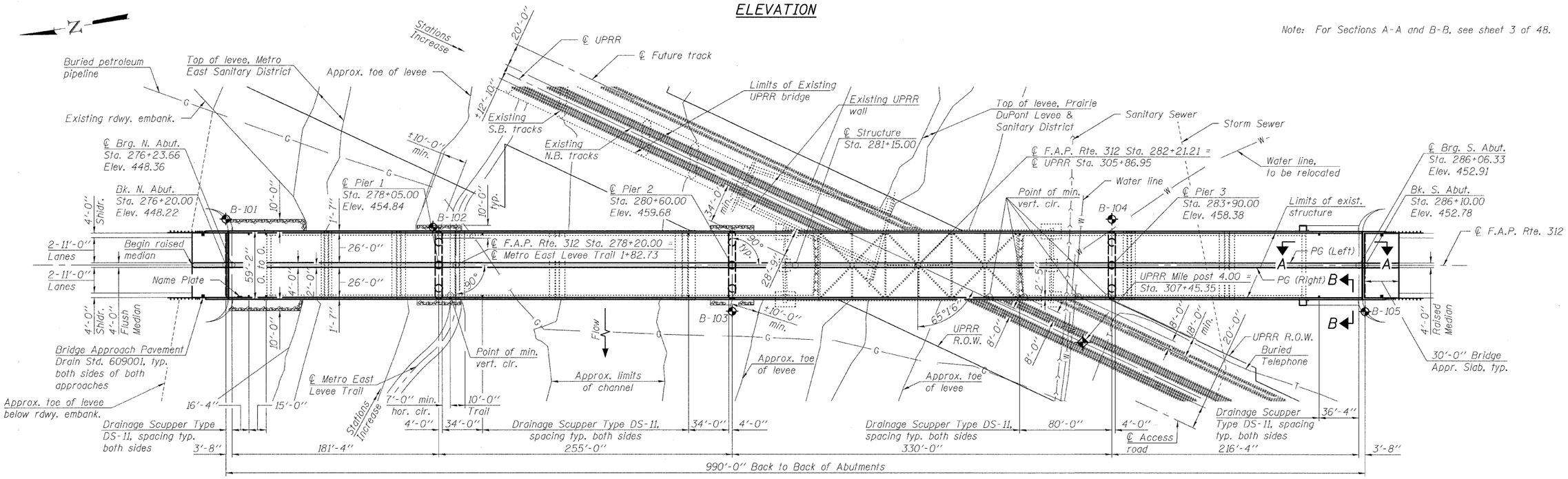
Existing Structure: S.N. 082-0030 was built in 1954 as F.A. Rte. 4 Sec. 64-1-VB, D, E & F at Sta. 281+07.13. In 1987, under Sec. 64-IVB1, the deck on the truss span was replaced with patching done on the remaining deck. The expansion joints were replaced and a new retrofit steel rail was installed. The top 1½" of the deck was scarified and replaced with a 3" plasticized high density concrete overlay. The existing structure consists of one 3 span continuous WF beam unit, one 3 span continuous ℄ girder unit, one through truss and one 3 span continuous WF beam unit. The substructure consists of pile bent stub abutments with pile supported piers. The bk. to bk. abutments dimension is 902'-9½" while the O.-O. width measures 56'-4". The road will be closed during construction.

No Salvage.



ELEVATION

Note: For Sections A-A and B-B, see sheet 3 of 48.



PLAN

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

STATE OF ILLINOIS
ERIC M. LAGEMANN
LICENSE NO. 081-006124
LICENSED STRUCTURAL ENGINEER

Eric Lagemann 8/5/2010
License Expires 11/30/2010

LOADING HL-93

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

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 and 2009 Interims

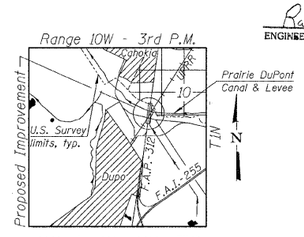
DESIGN STRESSES

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) = 2
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.24g
Design Spectral Acceleration at 0.2 sec (S_{DS}) = 0.53g
Soil Site Class = D



LOCATION SKETCH

DESIGNED	EML
CHECKED	KAK
DRAWN	EML
CHECKED	JJD

HORNER & SHIFRIN, INC.
ENGINEERS

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 3 OVER UPRR AND PRAIRIE DUPONT DRAINAGE CANAL
F.A.P. RTE. 312 - SEC. 64-IVBR
ST. CLAIR COUNTY
STATION 281+15.00
STRUCTURE NO. 082-0038

SHEET NO. 1
48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	64-1VBR	ST. CLAIR	259	53
		CONTRACT NO. 76882		
	ILLINOIS	FED. AID PROJECT		