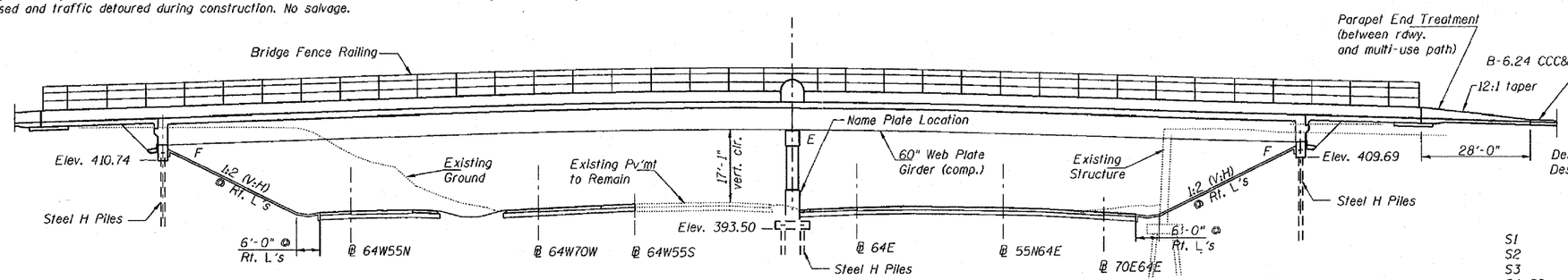
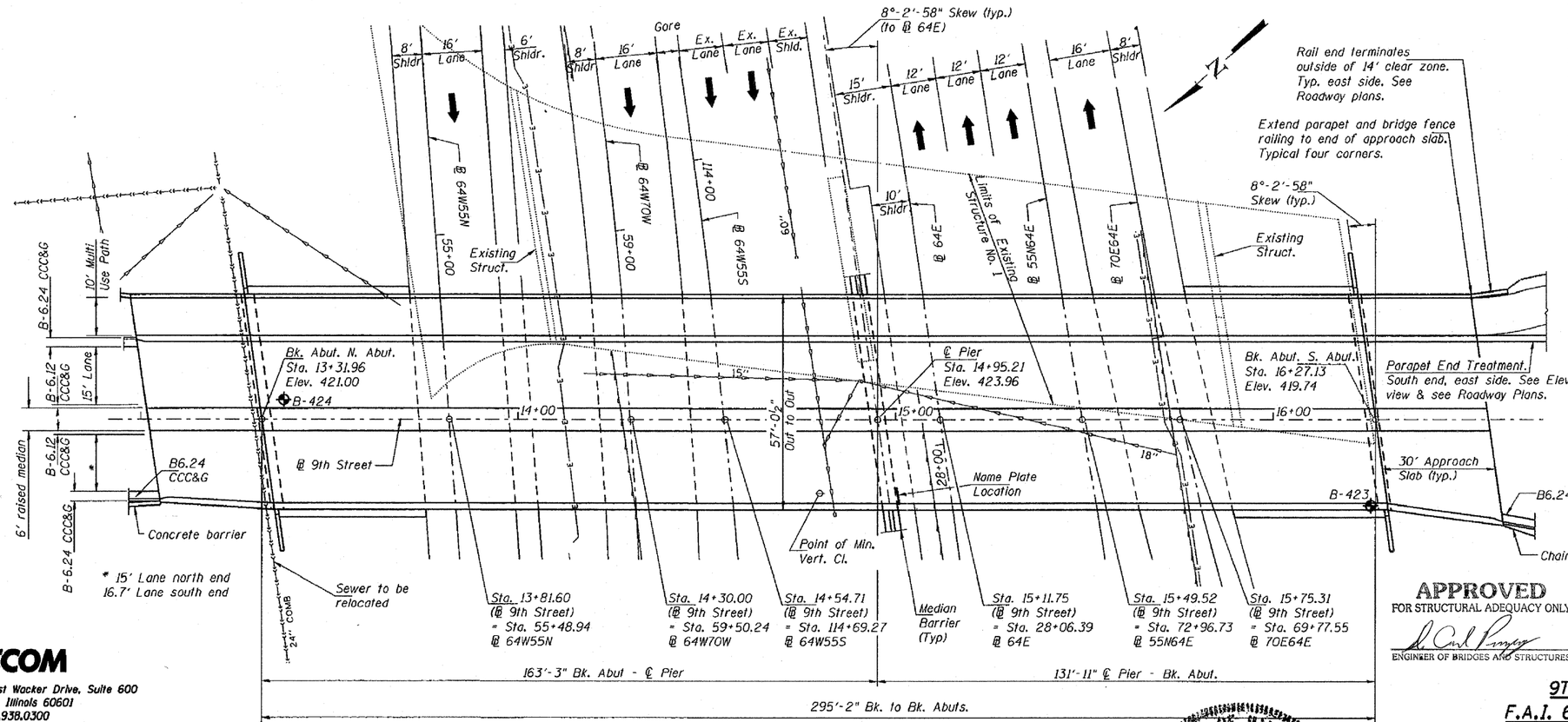
BENCHMARK: RFSS: Chiselled "X" in rim of manhole at St. Clair Ave. and Katherine Dunham Place
St. Clair Sta. 54+02 13' Rt. Elev. - 413.21

EXISTING STRUCTURE:
S.N. 082-0149, built in 1972, is a two span continuous, composite, welded plate steel girder bridge with an 8" concrete deck. The girders are 182' -4" long from centerline bearings at the abutments, the bridge is 256'-0¼" long back to back of approach bents. The beams are supported by concrete, vaulted abutments and by a concrete framed pier. The abutments and pier are founded on creosoted timber piles, the existing approach bents are supported on concrete piles. The deck is 59'-6" minimum wide and flares to approximately 115' wide at the end of the north vaulted abutment to meet the adjacent roadway intersection. 9th Street will be closed and traffic detoured during construction. No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION



EXISTING UNDERGROUND UTILITY LEGEND

- Pipe Underdrain
- Combined Sewer
- Storm Sewer
- Electric Cable

PLAN

Philip J. Lane, Illinois Structural Engineer
No. 081.004084, Expires 11/30/12 — 6/13/11 Date

STATE OF ILLINOIS · PHILIP J. LANE · 4084 · PEORIA, IL · LICENSED STRUCTURAL ENGINEER

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Ph: 312.938.0300
Fax: 312.373.6806
www.aecom.com

DESIGNED	PJL
CHECKED	DDB
DRAWN	BRD
CHECKED	DDB

03/31/2011

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 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)

LOADING HL-93

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

SEISMIC DATA

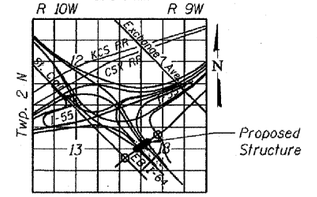
Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.24g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.54g
Soil Site Class = D

INDEX OF SHEETS

STATION 28+06.39
BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 64, F.A.U. 9166 & F.A.U. 9180
SEC. 82-1-3HB, 82-2N, 82-1-12RS
LOADING HL-93
STRUCTURE NO. 082-0326

NAME PLATE

See Std. 515001



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN & ELEVATION
9TH STREET OVER I-64 AND RAMPS
F.A.I. 64 - SEC. 82-1-3HB, 82-2N, 85-1-12RS
ST. CLAIR COUNTY
STATION 28+06.39
STRUCTURE NO. 082-0326

SHEET NO. S1 S36 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	64	82-1-3HB, 82-2N, 82-1-12RS	ST. CLAIR	352	203
	F.A.U. 9166 / F.A.U. 9180		CONTRACT NO. 76C51		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

$FILE$
$DATE$