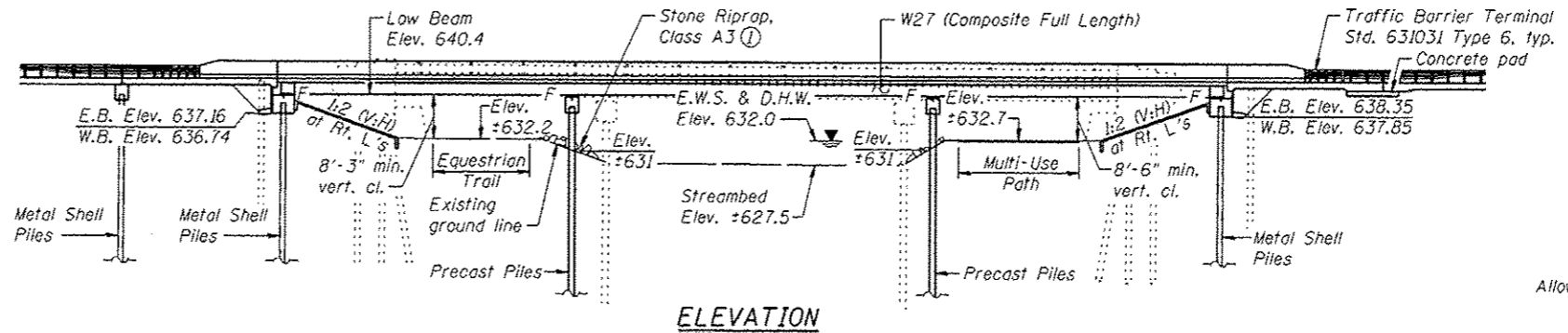


Bench Mark: BM #10-Chiseled square on top of the northeast wingwall of S.N. 006-0011, E.B. Roadway Sta. 427+76.16, 21.36' LT. Elev. 645.82

Existing Structure: S.N. 006-0011 (E.B.) and S.N. 006-0012 (W.B.) were originally built in 1963 as F.A.I. 80, Section (06-2B-1) and reconstructed in 1982 and 2003. The back to back abutment length is 149'-6" and the out to out deck width is 13'-8". Each structure consists of a three span steel W30 superstructure supported by open abutments founded on metal shell piles and concrete piers founded on precast concrete piles. Structures are to be removed and replaced.

Traffic Control: Traffic will be maintained by constructing permanent median crossovers to the east and west of the structures. Stage I will shift eastbound traffic onto the existing westbound structure. Upon completion of the new eastbound structure, westbound traffic will be shifted onto the eastbound structure during Stage II construction.

Salvage: None



ELEVATION

**DESIGN SPECIFICATIONS**  
2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

**LOADING HL-93**

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

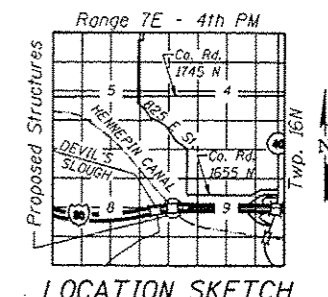
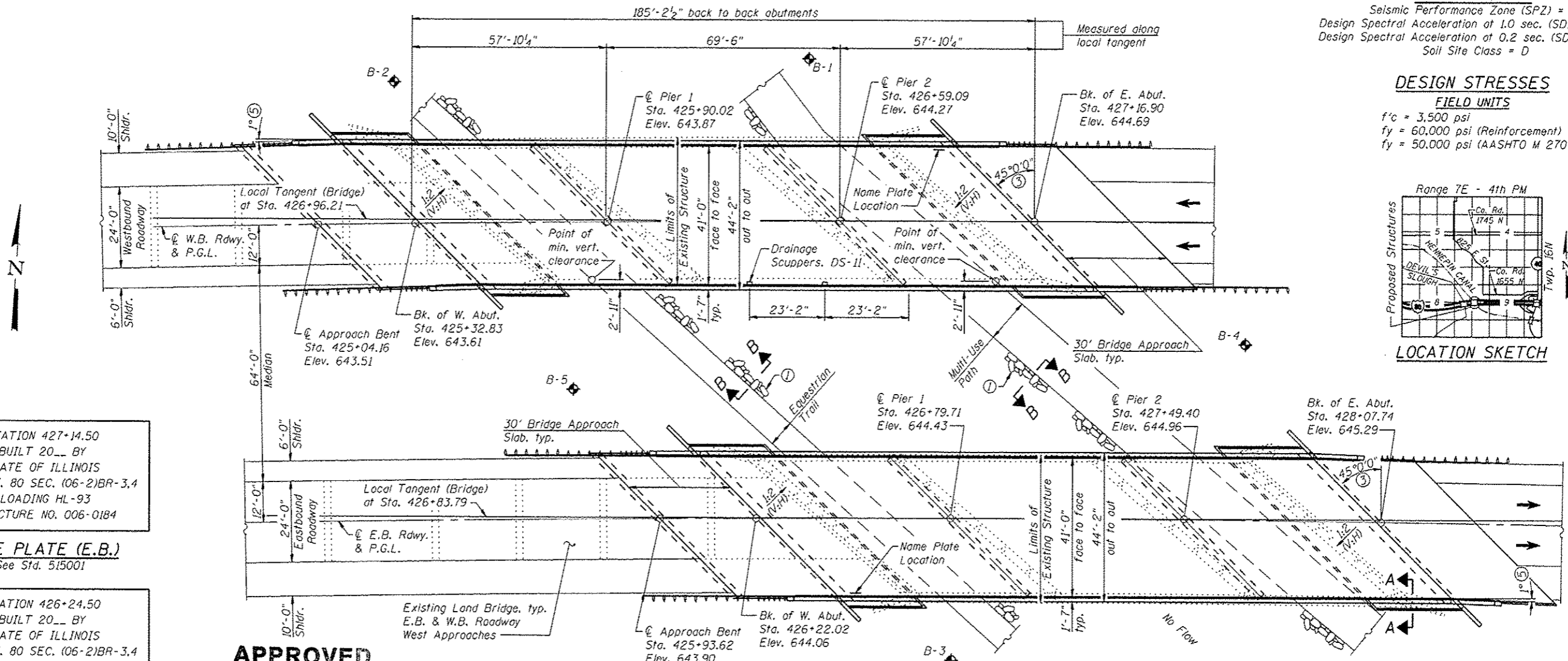
**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.094g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.151g  
Soil Site Class = D

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,900 psi  
fy = 60,000 psi (Reinforcement)  
fy = 50,000 psi (AASHTO M 270 Grade 50W)



STATION 427+14.50  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.I. RT. 80 SEC. (06-2)BR-3,4  
LOADING HL-93  
STRUCTURE NO. 006-0184

**NAME PLATE (E.B.)**  
See Std. 515001

STATION 426+24.50  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.I. RT. 80 SEC. (06-2)BR-3,4  
LOADING HL-93  
STRUCTURE NO. 006-0185

**NAME PLATE (W.B.)**  
See Std. 515001

**APPROVED**  
For Structural Adequacy Only  
*D. Carl Purney, P.E.*  
Engineer of Bridges & Structures

**WATERWAY INFORMATION**

Drainage Area = 1.1 Sq. Mi.      Exist. Low Grade Elev. 643.3 @ Sta. 425+00.00  
Prop. Low Grade Elev. 643.3 @ Sta. 425+00.00

Flood	Freq. Yr.	C.F.S.	O	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
				Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	N/A	N/A		310	310	632.0	0.0	0.0	632.0	632.0	

- Notes:
- Stone Dumped Riprap, Class A3 placed as shown in Section B-B. Extend from ±10' north of W.B. structure to ±10' south of E.B. structure.
  - Due to negligible flow velocities, scour was not considered in design.
  - Angle with respect to Local Tangent (Bridge), typ.
  - For Section A-A and B-B, see sheet 2 of 43.
  - Approach slab parapets and curbs are kinked with respect to bridge parapets, typical W.B. West Approach and E.B. East Approach.

**PLAN**

Plans prepared by  
Oates Associates, Inc.  
Sheets I-10 & 37-43 of 43

*Daniel George Lutz*  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS  
081 006172

DATE: 7/29/2013  
EXPIRATION: 11/30/2014

Plans prepared by  
Quigg Engineering, Inc.  
Sheets 11-36 of 43

*David Boohar*  
LICENSED STRUCTURAL ENGINEER  
STATE OF ILLINOIS  
4776

DATE: 7-23-13  
EXPIRATION: 11-30-14

**GENERAL PLAN & ELEVATION**  
**I-80 OVER HENNEPIN CANAL**  
**F.A.I. RTE. 80 - SECTION (06-2)BR-3,4**  
**BUREAU COUNTY**  
**STATION 427+14.50 (E.B.)**  
**STATION 426+24.50 (W.B.)**  
**STRUCTURE NO. 006-0184 (E.B.)**  
**STRUCTURE NO. 006-0185 (W.B.)**



USER NAME *	DESIGNED - JAD	REVISED -
PLOT SCALE *	CHECKED - SJN	REVISED -
PLOT DATE *	DRAWN - JAD	REVISED -
	CHECKED - SJN	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 43 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	06-2)BR-3,4	BUREAU	133	45
			CONTRACT NO. 66998	
ILLINOIS FED. AID PROJECT				