

Bench Mark: Chiseled square on S.W. wingwall of I-74 N.B. structure, Sta. ±92+82.0, 76.63 Rt, Elev. 657.69

Existing Structure: S.N. 081-0116, built in 1973 as F.A.I. Route 74, Section 81-1HB. The existing structure is a composite 6 span steel plate girder structure in 3 units connected with pins and links supported by concrete pile bent abutments and steel single column piers on steel piles. The total deck thickness is 9 1/2" including a 2 1/2" micro silica overlay applied in 1991. The structure has an overall length of 455'-2 5/16" back to back of abutments and a width of 26'-0" out to out of deck. Concrete deck to be removed and replaced. Traffic will be rerouted during construction.

Salvage: Existing light poles to be removed, stored and re-erected. Cost included in Light Pole Remove and Re-Erect, see Roadway Plans.

Temporary shoring required to be in the roadway shall be removed as soon as possible after the splice is complete to minimize traffic control. To be paid for as Temporary Shoring and Cribbing.

Traffic Barrier Terminal Std. 631031 Type 6

Traffic Barrier Terminal Std. 631026 Type 5, departing end of bridge

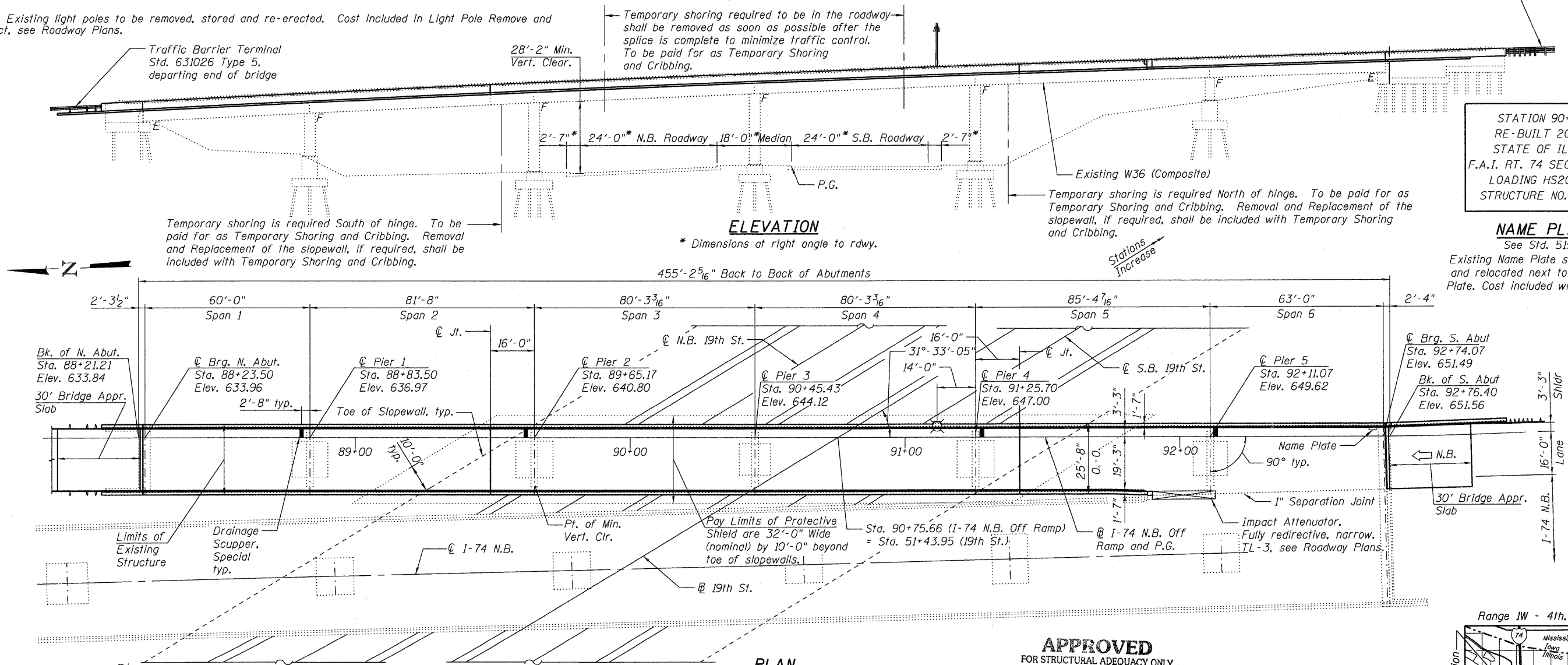
Temporary shoring is required South of hinge. To be paid for as Temporary Shoring and Cribbing. Removal and Replacement of the slopewall, if required, shall be included with Temporary Shoring and Cribbing.

Temporary shoring is required North of hinge. To be paid for as Temporary Shoring and Cribbing. Removal and Replacement of the slopewall, if required, shall be included with Temporary Shoring and Cribbing.

STATION 90+75.66  
RE-BUILT 20XX BY  
STATE OF ILLINOIS  
F.A.I. RT. 74 SEC. (81-1HB)D  
LOADING HS20 & ALT.  
STRUCTURE NO. 081-0116

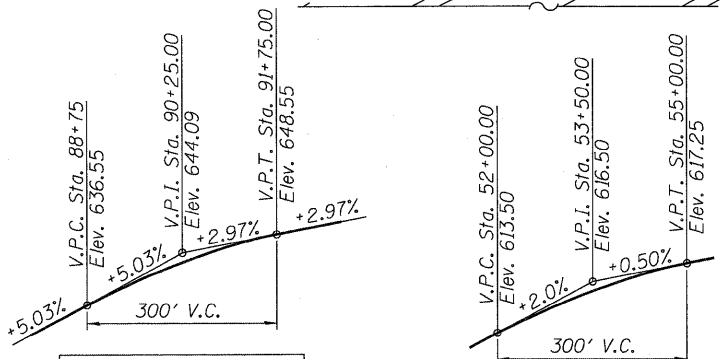
**NAME PLATE**  
See Std. 515001

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



455'-2 5/16" Back to Back of Abutments

**PLAN**



Limits of Structure  
**PROFILE GRADE**  
I-74 NB OFF RAMP  
(Obtained from 2009 survey data)

**PROFILE GRADE**  
19th STREET  
(EXIST. PLANS)  
(© median edge of S.B. pavement)

**LOADING HS20-44 & ALT.**  
**MILITARY LOADING (New Const.)**  
Allow 25#/sq. ft for future wearing surface

**DESIGN SPECIFICATIONS**  
(New Const.)  
2002 AASHTO

**DESIGN STRESSES**  
**FIELD UNITS (NEW CONST.)**

f'c = 3,500 psi  
fy = 60,000 psi (reinforcement)  
fy = 50,000 psi (AASHTO M270 Grade 50)

**FIELD UNITS (EXISTING CONST.)**

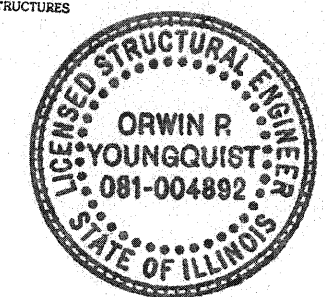
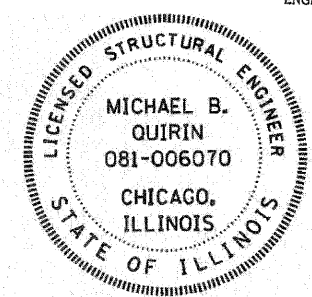
f'c = 3,500 psi  
fy = 40,000 psi (reinforcement)  
fy = 36,000 psi (structural steel)

**SEISMIC DATA**

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

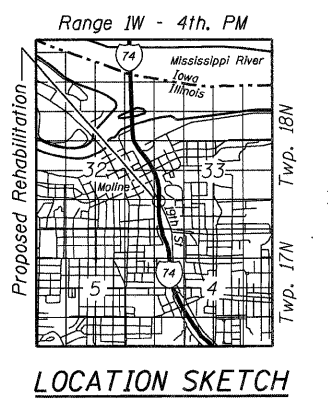
**APPROVED**  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



SIGNED: *Michael B. Quirin*  
DATE: 10-29-10  
EXPIRES: November 30, 2010  
SHEETS: SB1-SB14, SB19-SB23, SB30

SIGNED: *Orwin Youngquist*  
DATE: 29 October 2010  
EXPIRES: November 30, 2010  
SHEETS: SB5-SB18 & SB24-SB29



**GENERAL PLAN & ELEVATION**  
I-74 N.B. OFF RAMP OVER 19TH ST.  
F.A.I. RTE. 74 - SECTION (81-1HB)D  
ROCK ISLAND COUNTY  
STATION 90+75.66  
STRUCTURE NO. 081-0116

FILE NAME = 0810116-64095-SB01-GPE.dgn <b>JACOBS</b>	USER NAME = JACOBS	DESIGNED - LJH	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	F.A.I. RTE. = 74	SECTION = (81-1HB)D	COUNTY = ROCK ISLAND	TOTAL SHEETS = 78	SHEET NO. = 47
	PLOT SCALE =	CHECKED - MBO	REVISD -		SHEET NO. SB1 OF SB30 SHEETS	CONTRACT NO. 64095	ILLINOIS FED. AID PROJECT		