

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Existing Structure:  
Structure No. 001-0044, constructed in 1976 as FAP 407, Section 1-5HB, is a two span continuous composite 48" plate girder superstructure with a 7/2" reinforced concrete deck. The approach spans rest on sand filled vaulted abutments. The structure is 269'-10" of bk. to bk. approach bents, 64'-0" out to out and has a left ahead skew angle of 5°41'31". In 2001, overlay was placed and joints were replaced under Section 1-5RS(B,HB)I. Traffic is to be maintained during rehabilitation.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

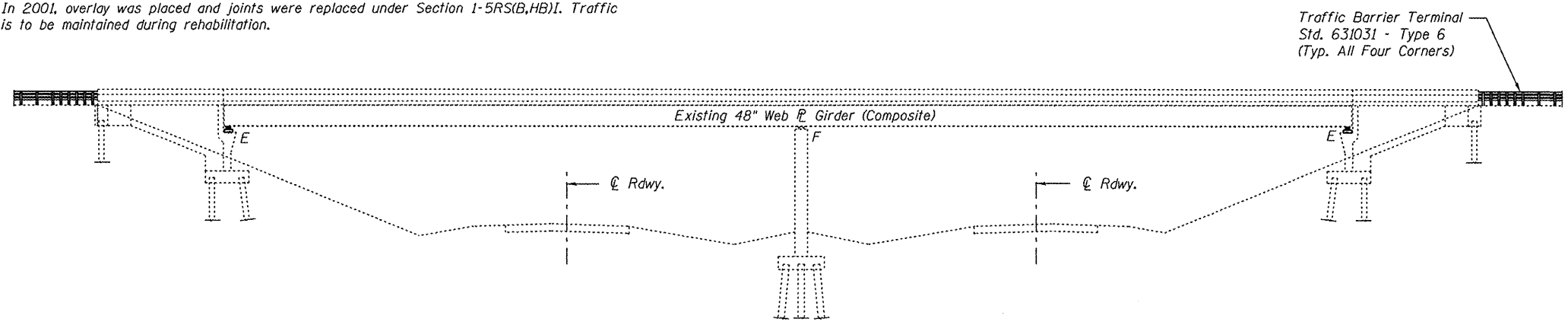
Fasteners shall be high strength bolts. Bolts 3/4" φ, open holes 13/16" φ, unless otherwise noted.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

All structural steel shall be shop painted with the inorganic zinc rich primer per AASHTO M300, Type 1. Cost included with Furnishing and Erecting Structural Steel.

If the analysis submitted to the Contractor for the jacking/temporary support system to be used shows temporary stiffeners are required to prevent web crippling or buckling, the stiffeners shall be steel and bolted to the web. If stiffeners are not required, hardwood timbers shall be installed tightly between the top and bottom flange to prevent flange rotation.



ELEVATION

TOTAL BILL OF MATERIAL

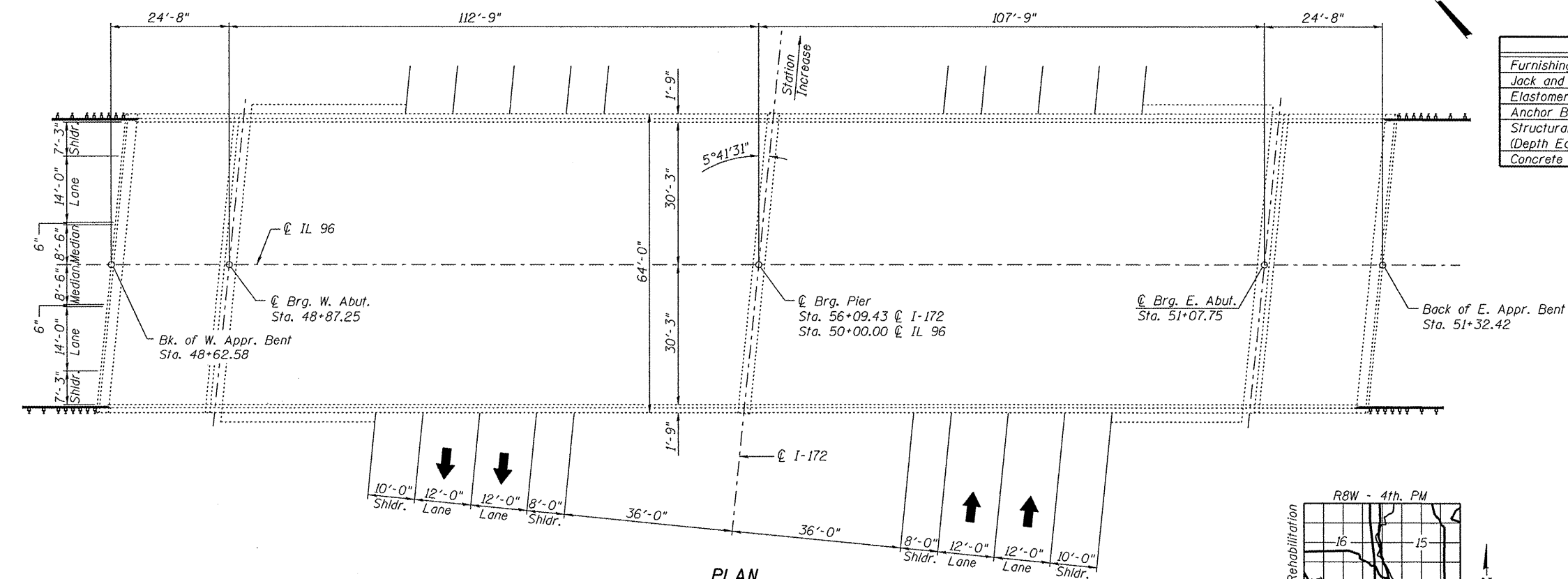
ITEM	UNIT	SUPER	SUB	TOTAL
Furnishing and Erecting Structural Steel	Pound	-	3610	3610
Jack and Remove Existing Bearings	Each	-	18	18
Elastomeric Bearing Assembly, Type I	Each	-	18	18
Anchor Bolts, 1"	Each	-	72	72
Structural Repair of Concrete (Depth Equal To or Less Than 5 in)	Sq. Ft.	-	215	215
Concrete Sealer	Sq. Ft.	13771	-	13771

INDEX OF SHEETS

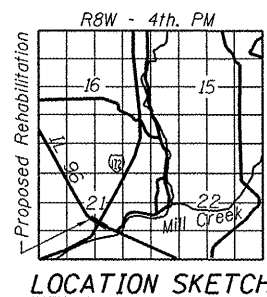
1. General Plan and Elevation
2. Bearings at Abutments
3. Bearing Details
4. Abutment Repair



Michael J. Haley 2/11/10  
Date  
Michael T. Haley  
Licensed Structural Engineer  
State of Illinois No. 81-5991  
Expires 11/30/2010



PLAN



LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS

Existing Construction  
f<sub>c</sub> = 1,200 psi (Deck Slab)  
f<sub>c</sub> = 1,400 psi (Curb, Parapet, Approach Slab & Substructure)  
f<sub>s</sub> = 20,000 psi (Reinforcement)  
f<sub>s</sub> = 20,000 psi (M183) (Structural Steel)  
f<sub>s</sub> = 27,000 psi (M222) (Structural Steel)

New Construction

f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (Reinforcement)  
f<sub>y</sub> = 36,000 psi (Structural Steel) (M270 Gr. 36)

DESIGN SPECIFICATIONS

(New Construction)  
2002 AASHTO "Standard Specifications for Highway Bridges"

LOADING HS 20-44

SCOPE OF WORK

1. Remove steel rocker bearings at abutments and replace with elastomeric bearings.
2. Repair deteriorated concrete on abutments.
3. Apply Concrete Sealer to top of deck surface and top and inside face of parapets.

GENERAL PLAN AND ELEVATION

IL RTE 96 OVER I-172  
FAI RTE 172 - SECTION 1-4HB-1  
ADAMS COUNTY  
STATION 56+09.43  
STRUCTURE NO. 001-0044

	SHEET NO. 1	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	4 SHEETS	172	1-4HB-1	ADAMS	165	158
Designed By: ESH Checked By: MTH Date: 11/2009		Drawn By: ESH File: 001-0044.dgn		CONTRACT NO. 72A09		
		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				