

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
318	(06-2HB-5)M	BUREAU	--3--	1

INDEX OF SHEETS

1. Cover Sheet, Summary of Quantities
2. Plan and Elevation Structure No. 006-0085
3. Repair Details Structure No. 006-0085

STANDARDS

- 701101 Off-Road Operations, Multilane, Less Than 4.5 m (15') Away, For Speeds > or = 45 MPH
 701400 Approach to Lane Closure, Freeway/Expressway
 701406-03 Lane Closure, Freeway/Expressway, Day Operations Only
 702001-04 Traffic Control Devices

SUMMARY OF QUANTITIES

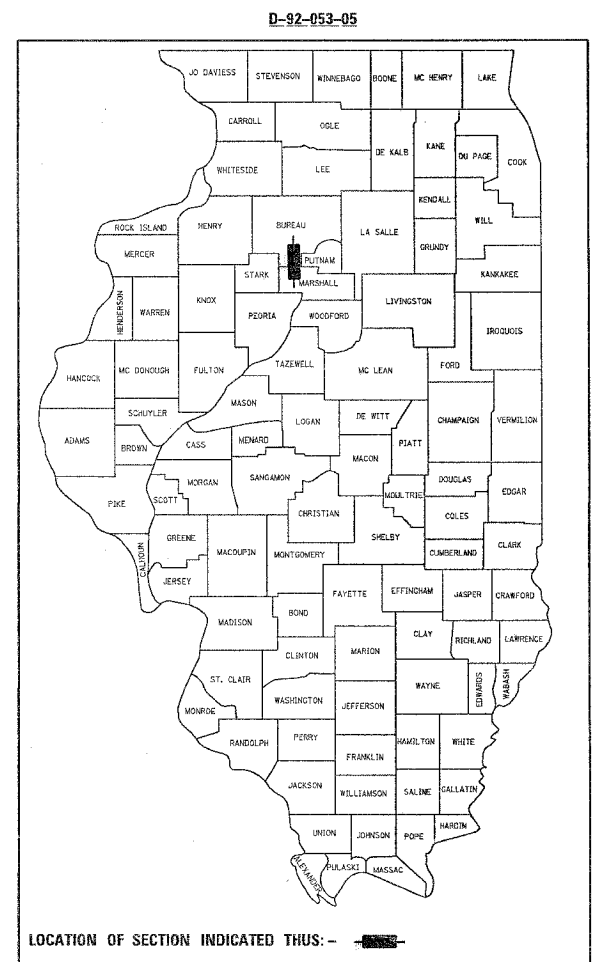
Code Number	Pay Item	Unit	Quantity
			SFTY-2A
50501130	STRUCTURAL STEEL REPAIR	POUND	500
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1
67100100	MOBILIZATION	L SUM	1
70100305	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400	L SUM	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS**

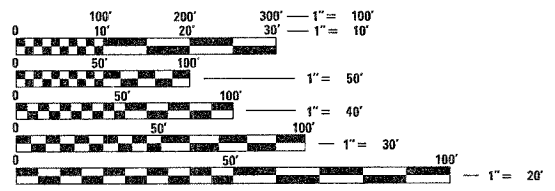
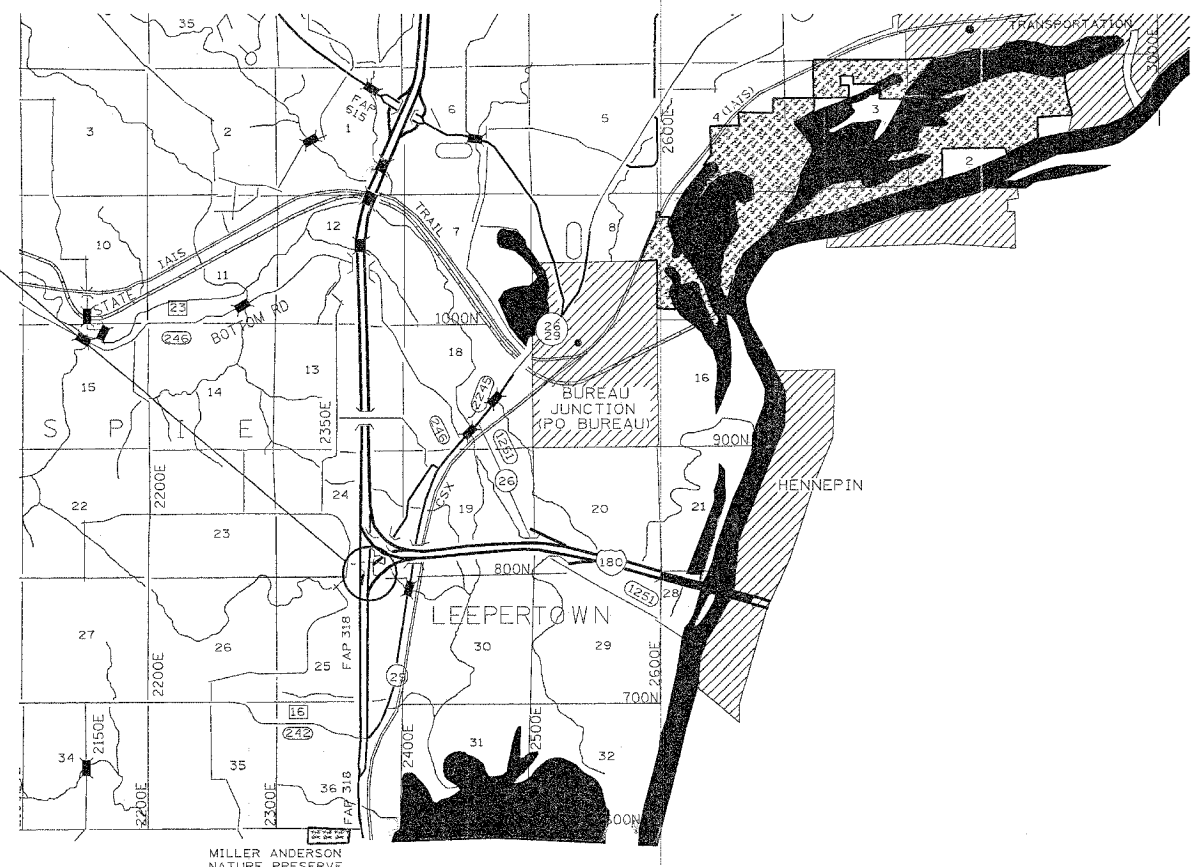
**PROPOSED
 HIGHWAY PLANS**

**FAP ROUTE 318 (ILLINOIS ROUTE 29 [NB])
 SECTION (06-2HB-5)M
 BUREAU COUNTY**

C-92-055-05



PROJECT LOCATION
 STRUCTURE NO 006-0085



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123

CONTRACT NO. 64A92

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED Jan 26 2005

Gregory L. Mounts
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 25, 20 05
Mike Hine
 ENGINEER OF DESIGN AND ENVIRONMENT

March 25, 20 05
Victor Maden
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		BUREAU	3	2
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 64A92	

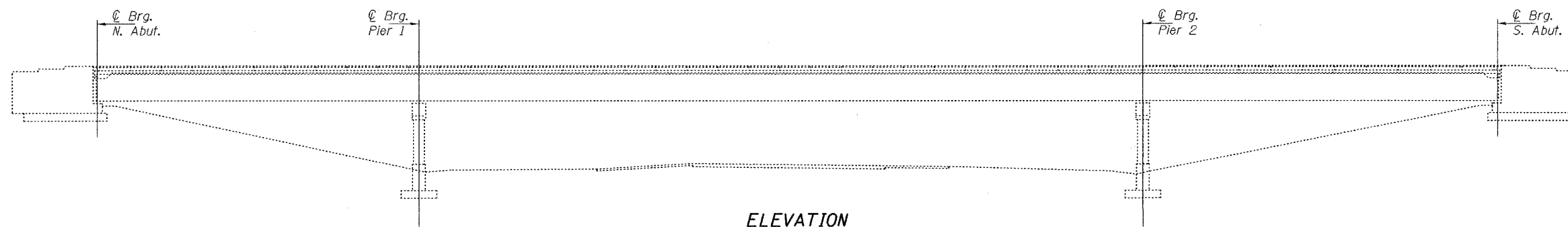
SHEET NO. 1
2 SHEETS

GENERAL NOTES

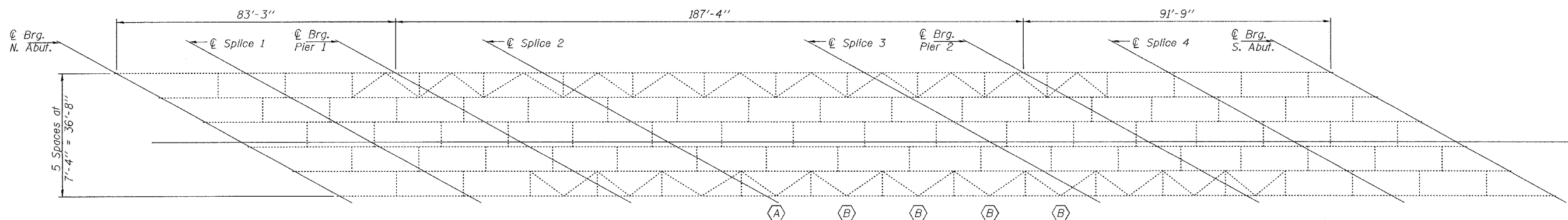
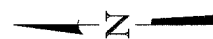
Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

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

Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included in the cost of Structural Steel Repair.



ELEVATION



FRAMING PLAN

A-B - See sheet 2 of 2.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Steel Repair	Pound	500

DESIGNED	Victor H. Veisz
CHECKED	Rui A. Baliva
DRAWN	baliva
CHECKED	VHV

MARCH 7, 2005
EXAMINED *John A. Morris*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES



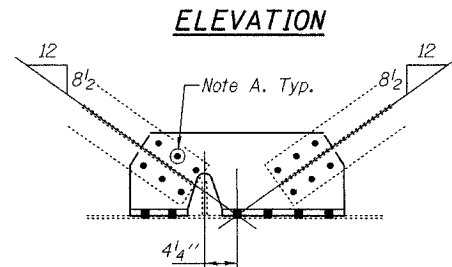
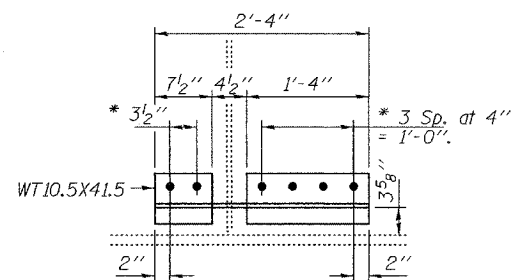
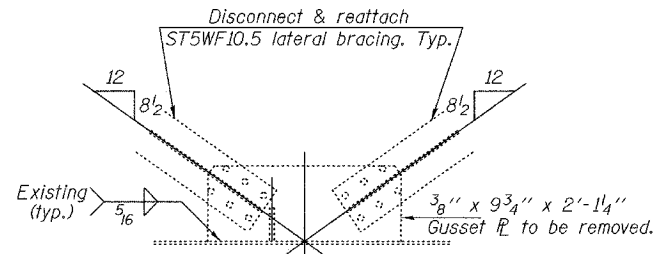
EXPIRES 11-30-06

REPAIR DETAILS
FAI RT. 180
BUREAU COUNTY
SN 006-0085

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
		BUREAU	3	3
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 64A92	

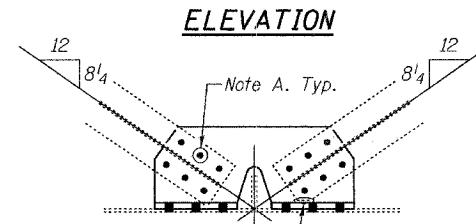
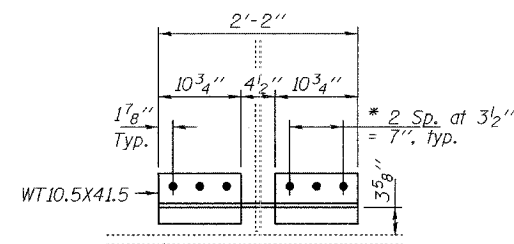
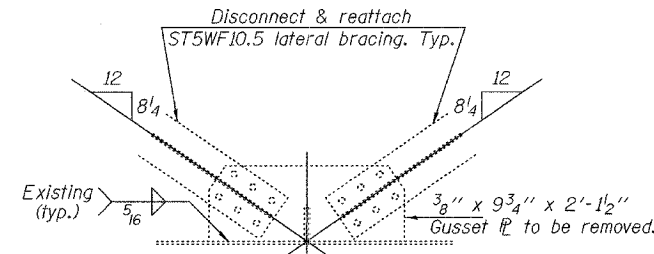
SHEET NO. 2
2 SHEETS



PLAN
REPAIR DETAIL A
(1 Location)

* Use holes in WT section as a template for drilling holes in web.

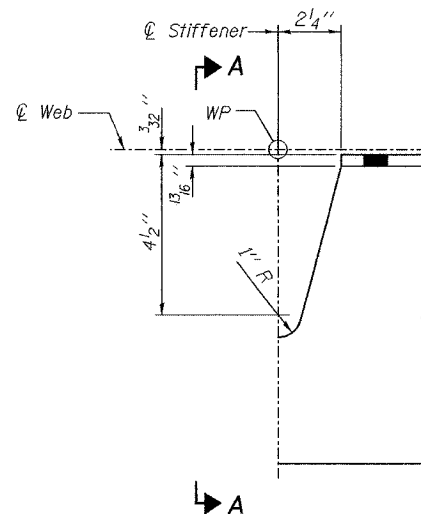
Note A:
Use holes in exist. ST5WF10.5 as a template for drilling holes in WT section.



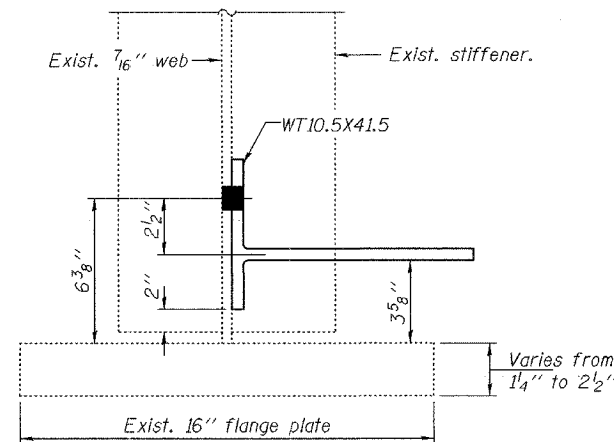
PLAN
REPAIR DETAIL B
(4 Locations)

Procedure for Repair Detail

1. Remove existing horizontal gusset plates as shown. The minimum distance from cut to face of web shall be the larger of 1/4" or web to gusset R weld size, with removal of remaining material by grinding as described below. The cut shall be made vertically through the gusset without angling the cut towards the web. Equipment and method of cutting shall be approved by the Engineer. Any method of removal to be used shall ensure that no damage is done to the existing web, vertical stiffener or welds connecting these elements. Cutting shall be done in a manner such that the paint on the opposite face of the web is not damaged. If damage occurs, the damaged area shall be repainted at the contractor's expense and procedures shall be modified to prevent damage at subsequent removal locations.
2. Remove material between cut and web by grinding and grind smooth at web surface. Web plate surfaces shall have a roughness average (Ra) of 250 μ in. or less. Grinding equipment shall be approved by the Engineer. The grinding operation should not gouge the girder web R.
3. The web surface at the modification shall be inspected using dye penetrant or magnetic particle methods. Any cracks found shall be identified and reported to the Bureau of Bridges and Structures for further disposition.
4. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".



TYPICAL CONNECTION BRACKET DIMENSIONS



SECTION A-A

Notes:
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 5/16" φ, unless otherwise noted.

DESIGNED	VHV
CHECKED	DAB
DRAWN	ballva
CHECKED	VHV DAB

MARCH 7, 2005
EXAMINED *John A. Morris*
ENGINEER OF STRUCTURAL SERVICES
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

REPAIR DETAILS
FAI RT. 180
BUREAU COUNTY
SN 006-0085