RAISINGHANI

BOJE

BIL

PROJECT

LEADER: ANAND ENGINEER:

SQUAD

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

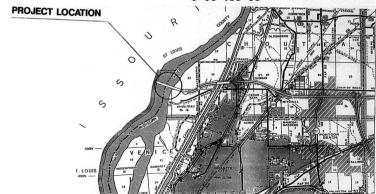
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAI ROUTE 270

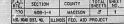
SECTION 60B-I-4 **MADISON COUNTY**

PINS & LINK PLATES FABRICATION OF MISSISSIPPI RIVER BRIDGE

C-98-135-95







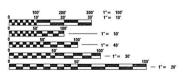


D-98-096-95



AWARDED RESIDENT ENGINEER AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS

MICROFILMED



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 96916

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

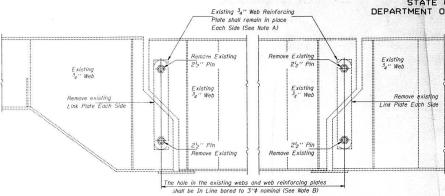
CONSTRUCTION TYPE CODE SUMMARY OF QUANTITIES 100% STATE TOTAL QUANTITIES CODE NO X071-2A EACH x0321736 FURNISH PINS AND LINK PLATES

| ME. | SECTION | COUNTY | PETA SHEETS | Det! |
|------|---------|---------|----------------|------|
| 270 | 60B-1-1 | MUNROE | 3 | 2 |
| ITA. | | TO STA. | | |

EXISTING CONDITIONS:

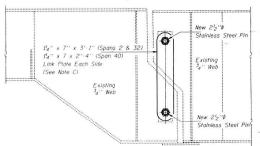
03/95 4 av 11226,06 1005

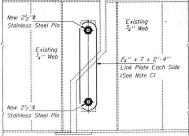
Post



FOR SPANS 2. 32 & 40

FOR SPAN 35





ELEVATION AT NEW PIN ASSEMBLY FOR SPANS 2, 32 & 40 ELEVATION AT NEW PIN ASSEMBLY FOR SPAN 35



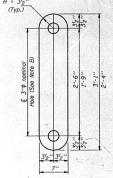
| 25. | 19 95 |
|----------------|------------------|
| red 5 | Abum |
| ENGINEER OF ST | RUCTURAL SERVICE |
| | |

MAXIMUM REACTIONS AT PIN

| R₽ | (K) | 24.0 |
|-----------|-----|------|
| RŁ | (K) | 37.8 |
| Imp. | (K) | 11.3 |
| R (Total) | (K) | 73.1 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION





LINK PLATE DETAIL (44 Required 3'-1") (40 Required 2'-4")

NOTES

All details and notes relative to removal and erection are for information only, which work will be done by others.

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

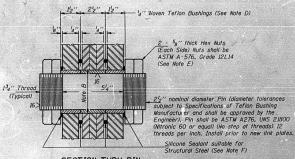
The inorganic zinc-silicate/acrylic/acrylic paint system shall be used for shop and field pointing of new structural steel except where otherwise noted. The color of the acrylic finish coal shall be Light Grey, Munsell No. 10Y 7/I. See Special Provisions "Cleaning and Plainting Metal Structures". Plan dimensions and details relative to existing structure have been taken

Plan dimensions and defails relative to existing structure have been token 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 filed 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 Pins and Link Plates shall conform to the minimum Charpy V-Notch Toughness of 25 ft.-lbs. at 40 $^{\circ}$ F.

The pins, link plates, bushings and nuts are the items included in "Furnish Pins and Link Plates".





SECTION THRU PIN

(84 Required)
Note A:

Existing welds shall be inspected fri cracks using liquid the penetrant or magnetic particle testing. Any cracks that gr found shall be identified and reported to the Bureau of Bridges and Structures for Further disposition. Clean and point before installing new link plates.

Note B:

Bore diameter for bushing in link plate, existing webs and web reinforcement plates shall correspond to bushing manufacturer's allowable tolerances for proper functioning. Hole diameter may be adjusted to allow use of stock bushings.

Note C:

Inside face of new link plates shall receive first field coat in shop. The primer shall pass the M.E.K. Rub Test before the first field coat is applied.

Note D:

Actual bushing thickness per manufacturer's specifications, 'a'' is approximate. Bushings shall be a self lubricating filament wound epoxy matrix backed Duration Bearing, metal backed Fiber Glide Bearing or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20,000 psi.

ote E:

Tighten inside nuts to bring all bushings into firm contact, then back off ¹4 turn and tighten outer nuts.

Note F:

Apply 3," bead to face of the web reinforcing plates approximately 2" from bushing immediately before Installing new link plates. Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to bepartment's acceptance based on documented testing or other evidence.

BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|------------------------------|------|----------|
| Furnish Pins and Link Plates | Each | 42 |
| | | |

FURNISH PINS AND LINK PLATES
F.A.I. ROUTE 270 SEC. 60R-I-4

MADISON COUNTY

STA. 780+00.25

STR. No. 060-0035