# 11-04-2016 LETTING ITEM 037

FOR INDEX OF SHEETS, SEE SHEET NO. 2

### THIS IMPROVEMENT IS LOCATED IN THE CITY OF JOLIET

# STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

# PROPOSED **HIGHWAY PLANS**

FAP ROUTE 112: IL 53 (RUBY STREET) **OVER DES PLAINES RIVER** SECTION M-BDR(BR) **BRIDGE REPAIR** WILL COUNTY

C-91-138-16





Expires 11-30-2017 taur



Slapen Dr. Moussa A. Issa, S.E II. Lic, No. 081-005738 Expires 11-30-2016 Date



GROSS LENGTH = 394.53 FT. = 0.075 MILE NET LENGTH = 394.53 FT. = 0.075 MILE

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 08 811

PROJECT MANAGER: ISSAM RAYYAN, P.E. (847) 705-4178 PROJECT ENGINEER: RAGHAD ADEIS-DAHHAN, P.E., S.E. (847) 705-5183

**CONTRACT NO. 62B79** 

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### **INDEX OF SHEETS**

### SHEET NO. DESCRIPTION

|   | 1    | TITLE SHEET  |
|---|------|--|
|   | 2    | INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES                                 |
|   | 3    | SUMMARY OF QUANTITIES  |
| ¥ | 4-27 | STRUCTURAL PLANS   |
|   | 28   | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10) |
|   | 29   | ARTERIAL ROAD INFORMATION SIGN (TC-22)   |
|   |      |  |

\* INCLUDES SHEET IA.

### **LIST OF HIGHWAY STANDARDS**

### STANDARD NO. DESCRIPTION

| 101502-06 | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE  |
|-----------|--|
| 701606-10 | URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE                          |
| 701901-05 | TRAFFIC CONTROL DEVICES  |

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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 MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR WORK.

WORK ON THE STRUCTURE SHALL BE DONE IN SUCH A MANNER THAT THE CLOSURE OF THE BRIDGE TO RIVER TRAFFIC (PERIODS WHERE THE BRIDGE IS RESTRICTED TO THE DOWN POSITION) IS PROHIBITED, RIVER TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.

ANY TRAFFIC CONTROL DEVICES ON THE BASCULE BRIDGE SHALL BE EITHER SECURED TO THE GRID DECK OR REMOVED AND RESET EACH TIME THE BRIDGE IS RAISED FOR RIVER TRAFFIC.

THE CONTRACTOR IS NOT ALLOWED TO CLOSE BOTH SIDEWALKS AT THE SAME TIME. IF A SIDEWALK IS CLOSED, PEDESTRIANS SHALL BE DETOURED TO THE ADJACENT SIDEWALK AT THE NEAREST CROSSWALK TO THE WORK ZONE ACCORDING TO STANDARD TOISOL.

WITH CONSTRUCTION.

REPAIR.

NOTIFICATION IS REQUIRED.

THE CITY OF JOLIET.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 & MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE CONTRACTOR SHALL OBTAIN COAST CUARD APPROVAL FOR ANY WORK THAT MAY INTERFERE WITH NAVIGATIONAL OPERATIONS OF THE NAVIGABLE WATERS. A WORK PLAN SHALL BE PREPARED BY THE CONTRACTOR, REVIEWED AND APPROVED BY THE ENGINEER AND BE SUBMITTED BY THE ENCINEER TO THE COAST CUARD AT THE ADDRESS LISTED BELOW FOR APPROVAL:

BRIDGE ADMINISTRATOR US COAST GUARD EIGHTH COAST GUARD DISTRICT 1222 SPRUCE ST ST. LOUIS, MO 63103-2832

SHOWN IN THE STANDARD.

| HEANTHAN CONVENTS SUITE 21  | DESIGNED - RTB     | REVISED - |                              | INDEX A  | C QUEETO | STATE STAT | MDADDC AND  | GENERAL NOTES | F.A.P. | SECTION       | COUNTY TOTAL SH  | HEET |
|---|--------------------|-----------|------------------------------|----------|----------|------------|-------------|---------------|--------|---------------|------------------|------|
|   | DRAWN - KJD, AL    | REVISED - | STATE OF ILLINOIS            | INDEX OF |          |            |             |               | 112    | M-RDR (BR)    | wiii) 99         | 2    |
| CONSULTONE & DESIGN OF LEADER IT BUILD IN AUTOR 236-0900 PLOT SCALE = 210.0265 'C / In. | CHECKED - RTB. MAI | REVISED - | DEPARTMENT OF TRANSPORTATION |          | RUBY ST  | REEL OVER  | DES PLAINES | RIVER         |        |               | CONTRACT NO. 628 | 874  |
| PLOT DATE = 9/8/2016  | DATE - 6/3/2016    | REVISED - |                              | SCALE:   | SHEET    | OF SI      | HEETS STA.  | TO STA.       |        | ILLINDIS FED. | ALD PROJECT      |      |

### **GENERAL NOTES**

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. AS REQUIRED, PRIOR TO COMMENCING

THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THAT NO DEBRIS FALL IN THE DES PLAINES RIVER. THE COST OF THIS WORK SHALL BE INCLUDED WITH STRUCTURAL STEEL

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND CAS UTILITIES. 48 HOUR

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND

WESTBOUND LANE CLOSURES SHALL BE PER STANDARD TO1606. EASTBOUND LANE CLOSURES SHALL BE PER STANDARD TO1502 USING THE STRIPED MEDIAN AS A BIDIRECTIONAL LEFT TURN LANE AS

|          |  |        | .                   | CONST                                 |           |  |
|----------|--|--------|---------------------|---------------------------------------|-----------|--|
|          | <u>.</u>   |        |                     | 100% STATE                            |           |  |
| CODE     |  |        | TOTAL               | URBAN                                 | <u></u>   |  |
| NO,      | ITEM   | UNIT   | QUANTITY            | 0014                                  |           |  |
|          | ·  |        |                     | ·····                                 | · · · · · |  |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A                          | CAL MO | 6                   | 6                                     |           |  |
|          |  |        |                     |                                       |           |  |
| ·        | MOBILIZATION<br>TRAFFIC CONTROL AND PROTECTION, STANDARD | LSUM   | 1                   | 1                                     |           |  |
| 70102622 | 701502<br>TRAFFIC CONTROL AND PROTECTION, STANDARD       | L SUM  | <b>*</b>            | 1                                     |           |  |
| 70102625 | 701606   | LSUM   | 1                   | 1                                     |           |  |
|          | TRAFFIC CONTROL AND PROTECTION, STANDARD                 |        |                     |                                       |           |  |
| 70102640 | 701801   | LSUM   | 1                   | 4                                     |           |  |
| ¥5030530 | FLOOR DRAIN EXTENSION                                    | EACH   | 2                   | 2                                     |           |  |
|          |  | EACH   | 4                   | 2                                     |           |  |
| Z0001905 | STRUCTURAL STEEL REPAIR                                  | POUND  | 25,770              | 25,770                                |           |  |
|          |  |        |                     | 2011                                  | <u></u>   |  |
| Z0030850 | TEMPORARY INFORMATION SIGNING                            | SQ FT  | 77                  | 77                                    |           |  |
|          |  |        |                     | ·····                                 |           |  |
| X0900033 | BRIDGE BALANCING   | LSUM   | 1                   | 1                                     |           |  |
|          |  |        |                     |                                       |           |  |
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| ·····    |  | ····   | variable determined | ,                                     |           |  |
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| HBM 4415 WEST HARRISON ST  | USER NAME 3 shmodilaso          | DESIGNED - | RTB<br>KID AL | REVISED -<br>REVISED - | STATE OF ILLINOIS            |                         | SU    | MMARY | OF QU  | ANTITI |
|--|---------------------------------|------------|---------------|------------------------|------------------------------|-------------------------|-------|-------|--------|--------|
| ENGLACEANO ORODA, LC. MILLSISE, R. 60162<br>CONSECTION & RATING PHONE: 1708) 235-0900<br>RESEARCH & TESTING FAX: 17081 235-090 | PLOT SCALE + 2:0.0000 ':" / 10. | CHECKED -  | RTB. MAL      | REVISED -              | DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PL |       |       |        | PLAIN  |
|  | PLOT DATE + 8/8/2016            | DATE -     | 6/3/2016      | REVISED -              |                              | SCALE:                  | SHEET | 0F    | SHEETS | STA.   |

| F.A.P.<br>RTE.<br>112 | SECTION<br>M-BDR (BR) | COUNTY | TOTAL SHEET<br>SHEETS NO.<br>29 3<br>T NO. 62879 |
|-----------------------|-----------------------|--------|--|
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### GENERAL NOTES:

- 1. Fasteners shall be high strength bolts. Bolts  ${}^7_8$ " diameter, open holes  ${}^{15}_{16}$ " diameter, unless otherwise noted.
- 2. Calculated weight of Structural Steel AASHTO M270. Grade 36 = 22,790 lb. Calculated weight of Structural Steel ASTM A500, Grade B = 2,980 lb. Estimated Structural Steel Removal is 20,800 lb.
- 3. 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 materials. Such variations shall not be cause for additional compensation for a change in the scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for work.
- 4. All new and repair structural steel shall be AASHTO M270, Grade 36; all structural steel for bridge railing posts shall be ASTM A500. Grade B.
- 5. Field welding of construction accessories will not be permitted to the tension flange or web of beams or girders. Field welding in other areas will be permitted only when approved by the Engineer.
- 6. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
- 7. The Contractor shall submit a detailed plan of proposed construction procedures and sequences for the proposed work on the bascule span to the Engineer for review and approval prior to commencing this work. Approval shall not relieve the Contractor of any responsibility for the stability of the bridge during the removal and replacement operations.
- 8. All work shall be performed with the bascule leafs in the lowered position; however, work on the structure shall be done in such a manner that the closure of the bridge to river traffic (periods where the bridge is restricted to the down position) is prohibited. River traffic is to be maintained at all times.
- 9. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 10. 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".
- 11. All new structural steel shall be shop painted according to the requirements of paint System 1-0Z/E/U. The color of the final finish coat shall match the existing paint color, see Paint Detail. The color for all steel truss surfaces, including handrails, shall be Blue Munsell No. 10B 3/6. The color for the remaining steel floor system, including catwalk, cross frames and lateral bracing, shall be Gray, Munsell No. 5B 7/1.
- 12. The Contractor shall take all necessary measures to ensure that no debris falls in the Des Plaines River or endangers or interferes with river traffic beneath the bridge. The cost of this work shall be included with Structural Steel Repair.
- 13. Elements of this structure may require removal and re-installation due to the proposed repairs. Such removal and re-installation shall not be paid separately and shall be included in the cost of Structural Steel Renair
- 14. Field reaming of bolt holes in plates shall only be allowed with the approval of the Engineer.

### INDEX OF SHEETS

- S-01 General Plan and Elevation
- S-02 General Notes, Index of Sheets and Total Bill of Material
- S-03 Framing Plan Structural Steel Repairs
- S-04 Floorbeam 1 Repair Details
- S-05 Floorbeam 2 Repair Details
- S-06 Floorbeam 6 Repair Details
- S-07 Bottom Diagonal Lateral Bracing Removal and Replacement
- S-08 Strut Removal and Replacement
- S-08A Strut End Plate Details
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- S-10 Floorbeam and Bottom Lateral Bracing Gusset Plates Removal and Replacement (Sheet 2 of 4)
- Floorbeam and Bottom Lateral Bracing Gusset Plates Removal and S-11 Replacement (Sheet 3 of 4)
- S-12 Floorbeam and Bottom Lateral Bracing Gusset Plates Removal and Replacement (Sheet 4 of 4)
- S-13 Strut and Floorbeam Connection Anales Removal and Replacement (Sheet 1 of 2)
- S-14 Strut and Floorbeam Connection Angles Removal and Replacement (Sheet 2 of 2)
- S-15 Bottom Counterweight Bracing Removal and Replacement
- S-16 Member MO -L1 Repairs East Leaf (Sheet 1 of 2)
- S-17 Member MO -L1 Repairs East Leaf (Sheet 2 of 2)
- S-18 Member MO -L1 Repairs West Leaf (Sheet 1 of 2)
- S-19 Member MO -L1 Repairs West Leaf (Sheet 2 of 2)
- S-20 Sidewalk Post and Floorbeam Brackets Repairs
- S-21 Existing Catwalk Removal and Replacement
- S-22 Framing Plan Miscellaneous Repairs
- S-23 Miscellaneous Repairs Details (Sheet 1 of 2)
- S-24 Miscellaneous Repairs Details (Sheet 2 of 2)



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WILL

TULINOIS FED ALD BROJECT

29 5

CONTRACT NO. 62B79

### REFERENCE DRAWINGS:

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| HBM                    | USER NAME =<br>PLOT SCALE = | DESIGNED - JJS<br>CHECKED - RTB, MI<br>DRAWN - FA | REVISED -<br>REVISED -<br>REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATER<br>RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 |
|------------------------|-----------------------------|---|-------------------------------------|---|--|
| ENGINEERING GROUP, LLC | PLOT DATE =                 | CHECKED - JJS, MI                                 | REVISED -                           |   | SHEET S-02 OF S-24 SHEETS  |



TOTAL BILL OF MATERIAL

| Pay Item | Unit  | Super. | Sub. | Total  |
|----------|-------|--------|------|--------|
| tension  | Each  | 2      | -    | 2      |
| ' Repair | Pound | 25,770 | -    | 25,770 |
| g        | L.Sum | 1      | -    | 1      |

### REFERENCE DRAWINGS KEY

| x                | Original Design Plans |
|------------------|-----------------------|
| κ <i>x</i>       | Shop Drawings         |
| XX               | Rehabilitation Plans  |
| - 4 - I(82) - xx | Rehabilitation Plans  |
| XX               | Rehabilitation Plans  |
| XX               | Rehabilitation Plans  |
|                  |                       |



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|                        | USER NAME =                 | DESIGNED - LAB, JJS              | REVISED -              |                              | FRAMING PLAN - STRUCTURAL STEEL REPAIRS          | F.A.P.<br>RTE. | SECTION       | COUNTY      | TOTAL SHEET<br>SHEETS NO. |
|------------------------|-----------------------------|----------------------------------|------------------------|------------------------------|--|----------------|---------------|-------------|---------------------------|
| HBM                    |                             | CHECKED - MI, MAI                | REVISED -              |                              | RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 | 112            | M-BDR (BR)    | WILL        | 29 6                      |
| ENGINEERING GROUP, LLC | PLOT SCALE =<br>PLOT DATE = | DRAWN - MAA<br>CHECKED - JJS, MI | REVISED -<br>REVISED - | DEPARTMENT OF TRANSPORTATION | SHEET S-03 OF S-24 SHEETS                        |                | ILLINOIS FED. | AID PROJECT | CT NO. 62B79              |

|             | Existing member to remain   |
|-------------|---|
|             | Member to be removed and replaced   |
|             | Gusset ₽ to be repaired   |
|             | Gusset I <sup>o</sup> to be removed and replaced                              |
| $\boxtimes$ | Sidewalk Post to be removed and replaced                                      |
| •           | Connection angle from lateral bracing to floorbeam to be removed and replaced |
| Т           | Top gusset 伦 to be repaired or removed<br>and replaced                        |
| В           | Bottom gusset f to be repaired or removed and replaced                        |



SHEET S-04 OF S-2

| ES RIVER - SN 099-9901 | CONTRACT NO. 62B79        |
|------------------------|---------------------------|
| 24 SHEETS              | ILLINOIS FED. AID PROJECT |
|                        |                           |



## NOTES:

- 1. Portions of this drawing are extracted from the original drawing for this bridge. Details shown are provided to illustrate the work to be performed.
- 2. Repairs and replacement shown are based on field inspection. Conditions in field may have changed. Contractor to verify all components for repair or replacement as directed by the Engineer.
- 3. When required to completely remove and replace members, remove rivets (and/or existing bolts) and replace with  $\frac{7}{8}$ " diameter high strength bolts, unless noted otherwise.
- 4. "Replace" indicates: remove existing members, furnish and install new member as shown.
- 5. The erection sequence of fill plates and repair plates presented in the "Construction Sequence for Floorbeam 2 Repair" is a suggested option. The Contractor may, at his discretion, and upon the approval of the Engineer, elect to substitute an alternative assembly and/or construction sequence for Floorbeam 2 repair. In either option, it shall be the Contractor's responsibility to ensure the integrity of the structure during construction. Engineer approval of alternative assembly and/or construction sequence shall in no way relieve the Contractor of responsibility for the integrity of the structure, fit up of materials or adequacy of repair.

### 6. No field welding shall be permitted.

| 0      |                   |              |                     |           |                              |  |     |               |                    |
|--------|-------------------|--------------|---------------------|-----------|------------------------------|--|-----|---------------|--------------------|
|        |                   | USER NAME =  | DESIGNED - LAB, JJS | REVISED - |                              | FLOORBEAM 2 REPAIR DETAILS                                     | RTF | SECTION       | COUNTY SHEETS NO.  |
| 63(    |                   |              | CHECKED - MI, MAI   | REVISED - | STATE OF ILLINOIS            |  | 112 | M-BDR (BR)    | WILL 29 8          |
| 501    |                   | PLOT SCALE = | DRAWN - SK          | REVISED - | DEPARTMENT OF TRANSPORTATION | RANSPORTATION RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 |     |               | CONTRACT NO. 62B79 |
| ENGINE | EERING GROUP, LLC | PLOT DATE =  | CHECKED - JJS, MI   | REVISED - |                              | SHEET S-05 OF S-24 SHEETS                                      |     | ILLINOIS FED. | AID PROJECT        |

REFERENCE DRAWINGS:

Floor Beams F2 (East & West Leaf)

<u>Drawing</u>

2. Clean exterior faces of existing steel (angles, plates and gusset plates) according to the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

3. Construct template for location of existing rivets/ bolts and fabrication of fill and repair plates.

6. Place repair  $\mathcal{P}$  with holes centered with centerline of existing rivers/ bolts and erection pins/

8. Start at one end, remove one rivet/ bolt/ erection pin / rod at a time and replace with a  $7_{B}$ "  $\phi$ H.S. bolt, proceed until all rivets/ bolts/ erection pins (or rods) are replaced.

Sheet No.

5075-36

New Member

o or • Exist. bolt or rivet to remain

New bolt in existing or new steel. Remove existing river or bolt and replace with new  ${}^{7}_{8}$ " diameter H.S. bolt, unless noted otherwise

### BILL OF MATERIAL

| Pay Item                | Unit  | Quantity |
|-------------------------|-------|----------|
| Structural Steel Repair | Pound | 970      |



- bolt. Proceed until all rivets/bolts/erection pins (or rods) are replaced.

Structural Steel Renair

Pound

500

| T PTI | 6.No field welding is peri | mitted.      |                     |           |                              |  |                | ,          | r ound          | 330                       |
|-------|----------------------------|--------------|---------------------|-----------|------------------------------|--|----------------|------------|-----------------|---------------------------|
|       |                            | USER NAME =  | DESIGNED - JJS, LAB | REVISED - |                              | FLOORBEAM 6 REPAIR DETAILS                       | F.A.P.<br>RTF. | SECTION    | COUNTY          | TOTAL SHEET<br>SHEETS NO. |
| -63(  | HBM                        |              | CHECKED - MI, MAI   | REVISED - | STATE OF ILLINOIS            |  | 112            | M-BDR (BR) | WILL            | 29 9                      |
| 501   |                            | PLOT SCALE = | DRAWN - SK, LAB     | REVISED - | DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER - SN 099-9901 |                |            | CONTRAC         | CT NO. 62879              |
| P.1   |                            | PLOT DATE =  | CHECKED - JJS, MI   | REVISED - |                              | SHEET S-06 OF S-24 SHEETS                        | ILLINO         |            | ED. AID PROJECT |                           |



| LATERAL BRACING         |                           | SECTION    | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------------------|---------------------------|------------|---------|-----------------|--------------|--|
|                         | 112                       | M-BDR (BR) | WILL    | 29              | 10           |  |
| NES RIVER – SN 099–9901 |                           |            | CONTRAC | T NO. 6         | 52B79        |  |
| 24 SHEETS               | ILLINOIS FED. AID PROJECT |            |         |                 |              |  |



- 1. Portions of this drawing are extracted from the original drawing for this bridge. Details shown are provided to illustrate the work to
- on field inspection. Conditions in field may have changed. Contractor to verify all components for repair or replacement as
- 3. When required to completely remove and replace members, remove rivets (and/or existing bolts) and replace with  $7_8$ " diameter high strength bolts, unless noted
- 4. "Replace" indicates: remove existing members, furnish and install new member as shown.
- 5. New strut angles, associated plates and lacing bars to match existing angles, plates and bars in shape, size and hole locations. Existing dimensions are shown for information only. The Contractor shall verify all dimensions in field prior to ordering materials. The number and spacing for proposed <sup>7</sup>8" diameter H.S. bolts shall match existing holes. Contractor shall use
- 6. For Strut tie/end plate dimensions and details,

| ) | I | 7 | ł | L |  |
|---|---|---|---|---|--|
|   |   |   |   |   |  |

| Unit  | Quantity |
|-------|----------|
| Pound | 3,500    |

### REFERENCE DRAWINGS:

Sheet No. 5075-39

| ) REPLACEMENT<br>IES RIVER – SN 099–9901 |                           | SECTION           | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|--|---------------------------|-------------------|--------|-----------------|--------------|--|
|  |                           | M-BDR (BR)        | WILL   | 29              | 11           |  |
|  |                           | CONTRACT NO. 6287 |        |                 |              |  |
| 24 SHEETS                                | ILLINOIS FED. AID PROJECT |                   |        |                 |              |  |
|  |                           |                   |        |                 |              |  |





<u>STRUT F39 - UPPER END PLATE</u> (1 required)



### REFERENCE DRAWINGS:

| <u>Drawing</u> | <u>Sheet No.</u> |
|----------------|------------------|
| Struts         | 5075-39          |

| VISED - |   | STRUT END PLATE DETAILS                          | F.A.P.<br>RTE. | SECTION          | COUNTY            | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------|---|--|----------------|------------------|-------------------|-----------------|--------------|
| VISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 | 112            | M-BDR (BR)       | WILL              | 29<br>T NO (    | 11           |
| VISED - |   | SHEETS-08A OF S-24 SHEETS                        |                | ILLINOIS FED. AI | CONTRACT NO. 62B7 |                 | 2019         |









| RAL BRACING GUSSET PLATES | F.A.P. SECTION |                 | COUNTY     | TOTAL<br>SHEETS | SHEET<br>NO. |
|---------------------------|----------------|-----------------|------------|-----------------|--------------|
| EMENT (SHEET 1 OF 4)      | 112            | M-BDR (BR)      | WILL       | 29              | 12           |
| NES RIVER – SN 099–9901   |                |                 | CONTRAC    | T NO.           | 62B79        |
| 24 SHEETS                 |                | ILLINOIS FED. A | ID PROJECT |                 |              |



SHEET S-10 OF S-24

<u>Sheet No.</u> 5075-56 5075-84

| AL BRACING GUSSET PLATES | F.A.P.<br>RTE | SECTION          | COUNTY    | TOTAL<br>SHEETS |       |
|--------------------------|---------------|------------------|-----------|-----------------|-------|
| IENT (SHEET 2 OF 4)      | 112           | M-BDR (BR)       | WILL      | 29              | 13    |
| ES RIVER – SN 099–9901   |               |                  | CONTRACT  | Γ NO. 6         | 52B79 |
| 24 SHEETS                |               | ILLINOIS FED. AI | D PROJECT |                 |       |



|     | 0                      |              |                     |           |                              |                                |
|-----|------------------------|--------------|---------------------|-----------|------------------------------|--------------------------------|
| ĕ   |                        | USER NAME =  | DESIGNED - LAB, JJS | REVISED - |                              | FLOORBEAM AND BOTTOM LATERAL E |
| 630 |                        |              | CHECKED - MI, MAI   | REVISED - | STATE OF ILLINOIS            | REMOVAL AND REPLACEME          |
| 501 |                        | PLOT SCALE = | DRAWN - LAB, MAA    | REVISED - | DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES   |
| Ā   | ENGINEERING GROUP, LLC | PLOT DATE =  | CHECKED - JJS, MI   | REVISED - |                              | SHEET S-11 OF S-24 SH          |

| AL BRACING GUSSET PLATES<br>Ment (Sheet 3 of 4)<br>Es River – SN 099–9901 |  | SECTION         | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|---|--|-----------------|-----------|-----------------|--------------|
|   |  | M-BDR (BR)      | WILL      | 29              | 14           |
|   |  |                 | CONTRAC   | T NO. (         | 52B79        |
| 24 SHEETS   |  | ILLINOIS FED. A | D PROJECT |                 |              |



PLOT DATE =

CHECKED

JJS. MI

REVISED

**RUBY STREET OVER DES PLAINE** 

| 30TTOM LATERAL BRACING GUSSET PLATES<br>AND REPLACEMENT (SHEET 4 OF 4)<br>VER DES PLAINES RIVER – SN 099–9901 |                           | SECTION    | COUNTY   | TOTAL<br>SHEETS | SHEET<br>NO. |
|---|---------------------------|------------|----------|-----------------|--------------|
|   |                           | M-BDR (BR) | WILL     | 29              | 15           |
|   |                           |            | CONTRACT | Γ NO. 6         | 52B79        |
| SHEET S-12 OF S-24 SHEETS   | ILLINOIS FED. AID PROJECT |            |          |                 |              |



PLOT DATE =

CHECKED - JJS. MI

|   | TY SHEFTS NO.  |
|---|----------------|
| REVISED - STATE OF ILLINOIS REMOVAL AND REPLACEMENT (SHEET 1 OF 2) THE M-BDR (BR) WILL  | L 29 16        |
| REVISED - DEPARTMENT OF TRANSPORTATION RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 | RACT NO. 62B79 |
| REVISED - SHEET S-13 OF S-24 SHEETS ILLINOIS FED. AID PROJECT                           | í              |

- original drawing for this bridge. Details shown are
- replace with <sup>7</sup><sub>8</sub>" diameter high strength bolts, unless
- dimensions in field prior to ordering materials. The



SHEET S-14 OF S-24

| ONNECTION ANGLES                             | F.A.P.<br>RTE.            | SECTION    | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|--|---------------------------|------------|---------|-----------------|--------------|--|
| ENT (SHEET 2 OF 2)<br>Es river – SN 099–9901 | 112                       | M-BDR (BR) | WILL    | 29              | 17           |  |
| 13 NIVEN - 314 099-9901                      |                           |            | CONTRAC | T NO. 6         | 52B79        |  |
| 4 SHEETS                                     | ILLINOIS FED. AID PROJECT |            |         |                 |              |  |



|     | Drawing  | <u>Sheet No.</u> |
|-----|--|------------------|
| on. | Counterweight Supports                         | 1343-36          |
| all | Detail of CtWt. Truss "A" For West & East Side | 5075-29          |
|     | Bottom Chords Of Floor Beam "F1"               | 5075-33          |
|     | Struts   | 5075-39          |

| New bolt in existing or new steel.                            |    |
|---|----|
| Remove existing rivet or bolt and replace with                |    |
| new <sup>7</sup> 8" diameter H.S. bolt, unless noted otherwis | se |

| Pay Item                | Unit  | Quantity |
|-------------------------|-------|----------|
| Structural Steel Repair | Pound | 4,190    |

| REMOVAL AND REPLACEMENT |          | F.A.P.<br>RTE | SECTION    |          | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|-------------------------|----------|---------------|------------|----------|-----------|-----------------|--------------|
|                         | 000 0004 | 112           | M-BDR (BR) |          | WILL      | 29              | 18           |
| IES RIVER – SN 099–9901 |          |               |            |          | CONTRAC   | Γ NO. 6         | 52B79        |
| 24 SHEETS               |          |               | ILLINOI    | S FED. A | D PROJECT |                 |              |



Σd

| AST LEAF (SHEET 1 OF 2) | F.A.P.<br>RTE  | SECTION    |         | COUNTY    | TOTAL<br>SHEETS | SHEET<br>NO. |
|-------------------------|--|------------|---------|-----------|-----------------|--------------|
|                         | 112  | M-BDR (BR) |         | WILL      | 29              | 19           |
| ES RIVER – SN 099–9901  | Itel 1 UF 2) RTE. SECTION COUNTY SHEETS N   112 M-BDR (BR) WILL 29 1 | 62B79      |         |           |                 |              |
| 4 SHEETS                |  | ILLINOIS F | FED. AI | D PROJECT |                 |              |
|                         |  |            |         |           |                 |              |





- - components as templates.
  - steel template in shop.
- 7. For Bill of Material, see Sheet S-18.
- fastener hole.

- repair as shown in Detail 1 on Sheet S-04.

### CONSTRUCTION SEQUENCE FOR P STIFFENING:

- Areas of Existing Steel Structures."
- tightened as shown in Detail 1 on Sheet S-04.
- field reaming of fill or repair plates is required.
- second washer and nut and fully tighten.

| Various)\W                 |                        | <u>DETAIL 1</u>             |  |                                     | DETAIL 3  |  |                                 | New Member   |   |
|----------------------------|------------------------|-----------------------------|--|-------------------------------------|---|--|---------------------------------|--|---|
| PM<br>10 (Various-         |                        | EAST LEAF<br>(1 required)   |  |                                     | EAST LEAF<br>(1 required)                         | <u>REFERENCE DRAWINGS:</u><br>Drawing                                  | <b>o</b> or<br><u>Sheet No.</u> | r • Exist. bolt or rivet to ren  | nain.   |
| 1:32:27<br>B 172 Item 1    |                        |                             |  |                                     |   | Horizontal Girder and Bracing MO-L1<br>Bracing at MO-L1 (East Leaf)    |                                 | New bolt in existing or new s<br>Remove existing rivet or bolt                 | and replace with  |
| 0/2016<br>1501-630 IDOT PT | HBM                    | USER NAME =<br>PLOT SCALE = | DESIGNED - JJS, LAB<br>CHECKED - MI, MAI<br>DRAWN - FA | REVISED -<br>REVISED -<br>REVISED - | STATE OF ILLINOIS<br>DEPARTMENT OF TRANSPORTATION | MEMBER MO-L1 REPAIRS - EAST LEAF<br>RUBY STREET OVER DES PLAINES RIVER | (SHEET 2 OF 2)                  | new <sup>7</sup> 8" diameter H.S. bolt, un<br>F.A.P. SECTION<br>II2 M-BDR (BR) | COUNTY     TOTAL<br>SHEETS     SHEET<br>NO.       WILL     29     20       CONTRACT     NO.     62B79 |
| 9/3<br>P:\                 | ENGINEERING GROUP, LLC | PLOT DATE =                 | CHECKED - JJS, MI                                      | REVISED -                           |   | SHEET S-17 OF S-24 SHEETS  |                                 | ILLINOIS FED. AID  | D PROJECT   |

134'

•

|-♦-

4

.

DETAIL 2

EAST LEAF

(1 required)

0

- A

D97 —

2-L-3<sup>1</sup>2"x3<sup>1</sup>2"x<sup>3</sup>8"x4'-2<sup>3</sup>4"

134"

R.T.

2<sup>3</sup>6 "

5 d

2-L-312"x312"x38"x4'-1"-

8

8 at 2'

=1'-4"

1- P 231/4"x 3/8"x2'-71/4" N.S. (B.S.) (NTR)

-2-Æs 9"x<sup>3</sup>8"x2'-1" (NTR)

 $\mathcal{O}$ 

C97



-1-1 22x 3<sub>8</sub>x2'-0" Bent (NTR)

1. Portions of this drawing are extracted from the original drawing for this bridge. Details shown are

2. Repairs and replacement shown are based on field inspection. Conditions in field may have changed. Contractor to verify all components for repair or replacement as directed by the Engineer.

3. When required to completely remove and replace members, remove rivets (and/or existing bolts) and replace with  $7_8$ " diameter high strength bolts, unless noted otherwise.

4. "Replace" indicates: remove existing members, furnish and install new member as shown.

5. New plates, angles and other components of Member MO-L1 shall match existing plates, angles and components in shape, size and hole locations. Existing dimensions are shown for information only. The Contractor shall verify all dimensions in field prior to ordering materials. The number and spacing for proposed  $7_{R}$   $\phi$  H.S. bolts shall match existing holes. Contractor shall use existing plates, angles and

6. Punch all holes for field connections full size except holes marked "RT" which are to be reamed to a

8. For details of plate stiffening, see Detail 1 on Sheet S-04.

9. Existing gusset plate rivets/bolts shall be replaced with  $7_8$ "  $\phi$  H.S. bolts according to the "Construction" Sequence for  $\mathcal{P}$  Stiffening" presented on this sheet. At no time shall there be more than one empty

10. Contractor shall field verify the required bolt length and length of thread necessary to install all bolts in accordance with the Standard Specifications and Section 8.2.1 of the 2004 RCSC "Specification for Structural Joints using ASTM A325 or A490 Bolts."

11. For tightening of the double-nut H.S. bolts for the gusset plate repair, as shown in Detail 1 on Sheet S-04, using Turn-of-the-Nut Method in accordance with Section 505.04(f)(2)d of the Standard Specifications and Section 8.2.1 of the 2004 RCSC "Specification for Structural Joints using ASTM A325 or A490 Bolts," the bolt length used to determine the amount of nut rotation from the snug-tight condition shall be taken as the following. For tightening of the first nut, the length shall be from the underside of the head to the to the far side of the first nut; for tightening of the second nut, the length shall be from the inside face of the proposed gusset plate to the far side of the second nut.

12. Twist-off type fastener systems will not be permitted for the double-nut H.S. bolt for the gusset plate

13. The Contractor shall take care to avoid exposing the threads, nuts and washers of the double-nut H.S. bolts for the gusset plate repair, as shown in Detail 1 on Sheet S-04, to paint, dirt, moisture or other foreign material that may alter their as-recieved condition. Fastener components that accumulate rust, dirt or debris shall not be incorporated in the work unless they are requalified as specified in Section 7 of the 2004 RCSC "Specification for Structural Joints using ASTM A325 or A490 Bolts."

1. Clean exterior faces of existing steel (angles, plates and gusset plates) according to the special provision "Cleaning and Painting Contact Surface

2. Remove existing gusset plate rivet/bolt and replace with proposed H.S. bolts. Existing bolts/rivets shall be replaced one at a time. As each rivet/bolt is replaced with a H.S. bolt, the first washer and nut shall be installed and fully

3. Construct template for location for newly installed H.S. bolts to determine if

4. Install additional washer as shown in Detail 1 on Sheet S-04.

5. Place repair plate with holes centered with centerline of new H.S. bolt. Install

### LEGEND:



41501-630 IDOT PTB 172 Item 10 (Various-Various)/WO#6A(StructuralS-18 - Bracing MOL1 Repairs - West Lea



# <u>NOTE</u>:

1. For Notes and "Construction Sequence for P Stiffening", see Sheet S-17.

\* See Note 5 on Sheet S-17

— New Member

o or • Exist. bolt or rivet to remain.



New bolt in existing or new steel. Remove existing rivet or bolt and replace with new <sup>7</sup>8" diameter H.S. bolt, unless noted otherwise

| EST LEAF (SHEET 2 OF 2) | F.A.P.<br>RTE             | SECTION    | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |  |
|-------------------------|---------------------------|------------|---------|-----------------|--------------|--|
| IES RIVER – SN 099–9901 |                           | M-BDR (BR) | WILL    | 29              | 22           |  |
|                         |                           |            | CONTRAC | T NO. 6         | 52B79        |  |
| 24 SHEETS               | ILLINOIS FED. AID PROJECT |            |         |                 |              |  |
|                         |                           |            |         |                 |              |  |



DESIGNED - JJS, LAB REVISED USER NAME = SIDEWALK POST AND FLOORBE STATE OF ILLINOIS CHECKED -MI. MAI REVISED **RUBY STREET OVER DES PLAINE** LOT SCALE = DRAWN F۸ REVISED **DEPARTMENT OF TRANSPORTATION** SHEET S-20 OF S-24 PLOT DATE = CHECKED -REVISED JJS. MI

| <u>BILL OF MATERIAL</u> |
|-------------------------|
|-------------------------|

| Pay Item                | Unit  | Quantity |
|-------------------------|-------|----------|
| Structural Steel Repair | Pound | 2,980    |

### NOTES:

- 1. For locations of sidewalk railing posts to be replaced, see Sheet S-03.
- 2. Portions of this drawing are extracted from the original drawing for this bridge. Details shown are provided to illustrate the work to be performed.
- 3. Repairs and replacement shown are based on field inspection. Conditions in field may have changed. Contractor to verify all components for repair or replacement as directed by the Engineer.
- 4. When required to completely remove and replace members, remove rivers (and/ or existing bolts) and replace with <sup>7</sup><sub>8</sub>" diameter high strength bolts, unless noted otherwise.
- 5. "Replace" indicates: remove existing members, furnish and install new member as shown.
- 6. Replacement posts shall be ASTM A500, Grade B.
- 7. New repair railing posts and other components shall match existing repaired railing posts and components in shape, size and hole locations. Existing dimensions are shown for information only. The Contractor shall verify all dimensions in field prior to ordering materials. The number and spacing for proposed  $7_8'' \phi$  H.S. bolts shall match existing holes. Contractor shall use existing plates, angles and components as templates.

### REFERENCE DRAWINGS:

### Drawing

Sheet No.

Ornamental Railing Repairs-Bascule Span M-BDR-4-I(82) S-10 Ornamental Railing Repairs - Approaches

M-BDR-4-I(82) S-11

### LEGEND:

– New Member

Exist. bolt or rivet to remain. o or •

New bolt in existing or new steel. Remove existing rivet or bolt and replace with new <sup>7</sup><sub>8</sub>" diameter H.S. bolt, unless noted otherwise

LEGEND



Existing railing post to be removed

| EAM BRACKETS REPAIRS    |                           | SECTION            | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|-------------------------|---------------------------|--------------------|--------|-----------------|--------------|
| IES RIVER – SN 099–9901 |                           | M-BDR (BR)         | WILL   | 29              | 23           |
|                         |                           | CONTRACT NO. 62B79 |        |                 |              |
| 24 SHEETS               | ILLINOIS FED. AID PROJECT |                    |        |                 |              |



2/12016 4:34:21 PM 450.1530 IDOT PTR 172 Hem 10 Varianes/Varianes/WMO#6A\ShtrichiraN.S.21 - Catwalk Removal Renharem

### BILL OF MATERIAL

| Pay Item                | Unit  | Quantity |
|-------------------------|-------|----------|
| Structural Steel Repair | Pound | 2,320    |

### NOTES:

- 1. Portions of this drawing are extracted from the original drawing for this bridge. Details shown are provided to illustrate the work to be performed.
- 2. Repairs and replacement shown are based on field inspection. Conditions in field may have changed. Contractor to verify all components for repair or replacement as directed by the Engineer.
- 3. When required to completely remove and replace members, remove rivets (and/or existing bolts) and replace with  $7_8$ " diameter high strength bolts, unless noted otherwise.
- 4. "Replace" indicates: remove existing members, furnish and install new member as shown.
- 5. New plates, angles and other components of the proposed catwalk to match existing plates, angles and components in shape, size and hole locations. Existing dimensions are shown for information only. The contractor shall verify all dimensions in field prior to ordering materials. The number and spacing for proposed  $_{B}^{-} \phi$  H.S. bolts shall match existing holes. Contractor shall use existing plates, angles and components as templates.

### REFERENCE DRAWINGS:

| <u>Drawing</u>                        | <u>Sheet No.</u> |
|---------------------------------------|------------------|
| Laterals and Walkway<br>at L7-L8 East | 5075-106         |

# LEGEND:

– New Member

o or • Exist. bolt or rivet to remain.

New bolt in existing or new steel. Remove existing rivet or bolt and replace with new  ${}^7_{\rm g}{}^{\rm m}$  diameter H.S. bolt, unless noted otherwise



Steel Removal

| AL AND REPLACEMENT     | F.A.P.<br>RTE             | SECTION            | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|------------------------|---------------------------|--------------------|--------|-----------------|--------------|
| ES RIVER – SN 099–9901 |                           | M-BDR (BR)         | WILL   | 29              | 24           |
|                        |                           | CONTRACT NO. 62B79 |        |                 |              |
| 24 SHEETS              | ILLINOIS FED. AID PROJECT |                    |        |                 |              |



6. For Photos 10 thru 16, see Sheet S-24.

| Q            | TTDA | USER NAME =                 | DESIGNED - LAB                   | REVISED -              |                              | FRAMING PLAN - MISCELLANEOUS REPAIRS  | F.A.P.<br>RTF. | SECTION        | COUNTY TOTAL SHEET |
|--------------|------|-----------------------------|----------------------------------|------------------------|------------------------------|---|----------------|----------------|--------------------|
| 016<br>1-63( | НКМ  |                             | CHECKED - MI, MAI                | REVISED -              | STATE OF ILLINOIS            |   | 112            | M-BDR (BR)     | WILL 29 25         |
| 9/27/2       |      | PLOT SCALE =<br>PLOT DATE = | DRAWN - MAA<br>CHECKED - JJS, MI | REVISED -<br>REVISED - | DEPARTMENT OF TRANSPORTATION | RUBY STREET OVER DES PLAINES RIVER – SN 099–9901<br>SHEET S-22 OF S-24 SHEETS |                | ILL INOIS FED. | CONTRACT NO. 62B79 |

| Pay Item                 | Unit  | Quantity |
|--------------------------|-------|----------|
| Floor Drain Extension    | Each  | 2        |
| Structural Steel Repairs | Pound | 310      |

### LEGEND:

Existing Member to Remain

Rivets for connection plate to be replaced, provide repair connection plate as needed



PHOTO 1: NORTH TRUSS CONNECTION PLATE (NW corner shown, SW corner and NE corner similar)

- Deteriorated nut to be replaced



PHOTO 4: FLOORBEAM 7 NORTH BRACKET (North Truss - WEST LEAF)



Extend drainage pipe with a pipe of the

PHOTO 2: NW BRIDGE DRAINAGE PIPE (Between Floorbeams 1 and 2 - WEST LEAF)

- Missing bolt to be replaced



PHOTO 5: NORTH SIDEWALK STRINGER (Between Floorbeams 7 and 8 - EAST LEAF)





Extend drainage pipe with a pipe of the same material and diameter to 6" minimum below the bottom of the bottom chord



PHOTO 8: SW BRIDGE DRAINAGE PIPE (Near Floorbeam 1 - WEST LEAF)









PHOTO 7: TRUNNION GIRDER BEARING DETERIORATED NUTS (Northeast Bearing - EAST LEAF)

Missing bolts to be replaced

PHOTO 3: NORTH MECHANICAL PLATFORM (Near Floorbeam 8 - EAST LEAF)

# PHOTO 6: STRINGER 1 CONNECTION AT FLOORBEAM 7

(East Face of Floorbeam 7 - EAST LEAF)

PHOTO 9: FLOORBEAM 2 BRACING CONNECTION

(East Face of Floorbeam 2 - WEST LEAF)

NOTES:

1. For notes, see Sheet S-22.

| DETAILS (SHEET 1 OF 2)  | F.A.P.<br>RTE             | SECTION    | COUNTY   | TOTAL<br>SHEETS | SHEET<br>NO. |
|-------------------------|---------------------------|------------|----------|-----------------|--------------|
| IES RIVER – SN 099–9901 |                           | M-BDR (BR) | WILL     | 29              | 26           |
|                         |                           |            | CONTRACT | T NO. (         | 52B79        |
| 24 SHEETS               | ILLINOIS FED. AID PROJECT |            |          |                 |              |

- Missing bolt to be replaced



PHOTO 11: STRINGER 17 CONNECTION AT FLOORBEAM 7 (South Truss - WEST LEAF)



PHOTO 14: SW SIDEWALK STRINGER (Between Floorbeams 7 and 8 - WEST LEAF)





|                  |     | USER NAME = | DESIGNED - LAB    | REVISED -              |                              | MISCELLANEOUS REPAIRS DETAILS (SHEET 2 OF 2)     | F.A.P.<br>RTE. | SECTION         | COUNTY  | TOTAL SHEET<br>SHEETS NO. |
|------------------|-----|-------------|-------------------|------------------------|------------------------------|--|----------------|-----------------|---------|---------------------------|
| 2016<br>01-63(   | HKM |             | CHECKED - MI, MAI | REVISED -<br>REVISED - | STATE OF ILLINOIS            | RUBY STREET OVER DES PLAINES RIVER – SN 099–9901 | 112            | M-BDR (BR)      | WILL    | 29 27                     |
| 9/27/2<br>P:\15( |     | PLOT DATE = | CHECKED - JJS, MI | REVISED -              | DEPARTMENT OF TRANSPORTATION | SHEET S-24 OF S-24 SHEETS                        |                | ILLINOIS FED. A | CONTRAC | CT NO. 62B79              |





Missing rivet to be replaced  $\neg$ 







PHOTO 12: STRINGER 6 TOP FLANGE (Between Floorbeams 7 and 8 - WEST LEAF)

Missing bolt to be replaced -



PHOTO 15: SW SIDEWALK STRINGER (At Floorbeam 8 - WEST LEAF)

NOTES:

1. For notes, see Sheet S-22.

| COLLECTOR<br>SPEED LIMIT> 40 MPH (60 Km/h)<br>HEAD<br>AHEAD   |
|---|
| TRAFFIC CONTROL AND PROTECTION FOR  |
| <section-header><section-header><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></section-header></section-header> |

| FILE NAME =               | USER NAME = gaglianobt      | DESIGNED - RTB     | REVISED - J. OBERLE 10-18-95   | •                            |  | TRAFFIC CONTROL AND PROTECTION FOR   | F.A.P.      | SECTION                   |              | AL SHEET |
|---------------------------|-----------------------------|--------------------|--------------------------------|------------------------------|--|--------------------------------------|-------------|---------------------------|--------------|----------|
| W:\diststd\22x34\tc10.dgn |                             | DRAWN - KJD        | REVISED - A. HOUSEH 03-06-96   | STATE OF ILLINOIS            |  |                                      | 112         | M-BDR (BR)                | WILL 29      | 28       |
|                           | PLOT SCALE = 50.000 ' / IN. | CHECKED - RTB, MAI | REVISED - A. HOUSEH 10-15-96   | DEPARTMENT OF TRANSPORTATION | SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |                                      |             | TC-10                     | CONTRACT NO. | 62B79    |
|                           | PLOT DATE = 1/4/2008        | DATE - 6/3/2016    | REVISED -T. RAMMACHER 01-06-00 |                              | SCALE: NONE                              | SHEET NO. 1 OF 1 SHEETS STA. TO STA. | FED. ROAD D | DIST. NO. 1 ILLINOIS FED. | AID PROJECT  |          |



### SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

| B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:                                      |
|--|
|  |
| CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW                          |
| SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE. |

- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown,



FILE NAME =

PLOT DATE = 1/4/2008

DATE

6/3/2016

REVISED

C. JUCIUS 01-31-07

SCALE: NONE

SHEET NO. 1 OF 1 SHEETS

| ROAD   |      | F.A.P.<br>RTE | SECTION    | COUNTY  | TOTAL<br>SHEETS | SHEET<br>NO. |  |  |
|--------|------|---------------|------------|---|-----------------|--------------|--|--|
| N SIGN |      | 112           | M-BDR (BR) | WILL  | 29              | 29           |  |  |
|        |      |               | TC-22      | CONTRACT  | NO. 6           | 2B79         |  |  |
|        | STA. | TO STA.       | FED. R     | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                 |              |  |  |