## GENERAL NOTES

Except as otherwise specified, fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts  $7_8$ "  $\phi$ , holes  $^{15}_{16}$ "  $\phi$ , unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

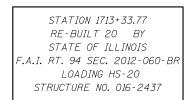
As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding 4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $l_{B}$  inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to all the exposed surfaces of new abutment backwalls and concrete extensions, and to all exposed surfaces of the new pier caps at Pier 3 and Pier 6.

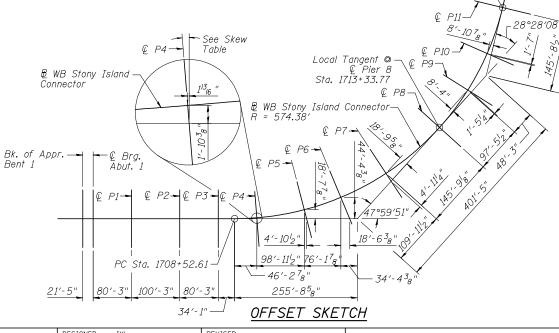
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.





### SKEW TABLE

| SALW                               | TADLL              |
|------------------------------------|--------------------|
| Bk. Appr. Bent 1                   | 90°                |
| ⊈ Brg. Abut. 1                     | 90°                |
|                                    | 90°                |
| © Pier 1<br>© Pier 2               | 90°                |
| © Pier 3                           | 90°                |
| © Pier 4<br>© Pier 5               | 4°37′00" Rt. Fwd.  |
| € Pier 5                           | 14°38′30" Rt. Fwd. |
| € Pier 6                           | 22°40′00" Rt. Fwd. |
| © Pier 7<br>© Pier 8               | 14°42′03" Lt. Fwd. |
|                                    | 90°                |
| ⊈ Pier 9                           | 9°46′08" Rt. Fwd.  |
| © Pier 9<br>© Pier 10<br>© Pier 11 | 10°06′00" Lt. Fwd. |
| © Pier 11                          | 90°                |
| € Pier 12                          | 13°30′01" Rt. Fwd. |
| © Pier 13<br>© Brg. Abut. 2        | 14°44′57" Lt. Fwd. |
| © Brg. Abut. 2                     | 3°32′57" Lt. Fwd.  |
| Bk. Appr. Bent 2                   | 3°32′57" Lt. Fwd.  |
|                                    |                    |
| BOWMAN, BARRETT & ASSOCIAT         | ES INC.            |
| CONSULTING ENGL                    |                    |



€ Brg. Abut, 2

See Skew

Connector

₿ WB Stony Island

Table

The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the masked off connection surfaces, field installed fasteners and damaged areas, which shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Cleaning and painting of the existing structural steel, including the bearings at Pier 10, shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning - SSPC-SP 10. All existing steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final finish coat for all interior surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4.

Removal of all existing expansion joints shall be included with Removal of Existing Concrete Deck.

Slipforming of the parapets is not allowed.

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

Prior to construction or ordering of materials, the Contractor shall field-measure all existing bottom of beam and bearing seat elevations at each bearing to verify the concrete extension heights shown herein. Any discrepancies shall be accounted for in the concrete extensions. After the bearings are replaced, the resultant bottom of beam elevations shall match existing conditions.

PT Sta. 1720+44.71

Rent 2

Bk. of Appr.

Brg.

Local Tangent @

Sta. 1716+19.16

Abut.

11/8

C P13\_

See Skew Table, typ.

€ P12—/

Pier 11

42°26′56"

7

F لان

15'-103

5-2

S-3

S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13

S-14

S-15 S-16

S-17

S-18

S-19 S-20 S-21

S-21 S-22 S-23 S-24 S-25 S-26 S-27 S-28

S-29

S-30

S-31 S-32

S-33

Ò,

#### Concrete Removal Removal of Existing Concr Protective Shield Structure Excavation Concrete Structures Concrete Superstructure Bridge Deck Grooving Protective Coat Furnishing and Erecting S Stud Shear Connectors Reinforcement Bars, Epox Bar Splicers Mechanical Splicers Name Plates Preformed Joint Strip Seal Elastomeric Bearing Assen Elastomeric Bearing Assem Anchor Bolts 1" Anchor Bolts 14 Concrete Sealer Epoxy Crack Injection Geocomposite Wall Drain Pipe Drain Removal Expanded Polystyrene Fill High Load Multi-Rotational Granular Backfill for Struc Jack and Remove Existing Structural Steel Repair Approach Slab Removal Containment and Disposal Cleaning Bridge Seats Cleaning and Painting Stee Structural Repair of Conc. Structural Repair of Conc. Drainage Scuppers, DS-11 Drainage System Jacking and Cribbing Modular Expansion Joint-S Pipe Underdrains for Stru Temporary Shoring and Cr

|   | GENERAL DATA  |              | F.A.I. SECTION COUNTY TOTAL SHEET NO.                            |
|---|---|--------------|--|
|   | · · · ·   |              |  |
| 3 | Drainage Scupper Details                                      |              | -  |
| 2 | Modular Expansion Joint Seal                                  | S-83         | Existing Plans (For Information Only)                            |
|   | Performed Joint Strip Seal                                    | S-64 thru    | · - · ·  |
| ) | Bridge Approach Slab 2 Details                                | S-63         | Bar Splicer Assembly and Mechanical Splicer Detail               |
| 9 | Bridge Approach Slab 2 Plan                                   | S-62         | Pier Modification Details  |
| 3 | Bridge Approach Slab 1 Details                                | S-61         | Pier 13 Repair Details   |
| 7 | Bridge Approach Slab 1 Plan                                   | S-60         | Pier 12 Repair Details   |
| 5 | Abutment 2 Approach Span                                      | S-59         | Pier 11 Repair Details   |
| 5 | Abutment 1 Approach Span                                      | S-58         | Pier 10 Repair Details   |
| 1 | Superstructure Details IV                                     | S-57         | Pier 9 Repair Details  |
| 3 | Superstructure Details III                                    | S-56         | Pier 8 Repair Details  |
| 2 | Superstructure Details II                                     | S-55         | Pier 7 Repair Details  |
|   | Superstructure Details I                                      | S-54         | Pier 6 Cap Reconstruction Details                                |
| ) | Superstructure Plan IV  | S-53         | Pier 6 Removal and Repair Details                                |
|   | Superstructure Plan III                                       | S-52         | Pier 5 Repair Details  |
|   | Superstructure Plan II  | S-51         | Pier 4 Repair Details  |
|   | Superstructure Plan I & Cross Section                         | S-50         | Pier 3 Cap Reconstruction Details                                |
|   | Top of Slab Elevations - Approach Slabs and Spans             | S-49         | Pier 3 Removal and Repair Details                                |
|   | Top of Slab Elevations VIII - Unit 4                          | S-48         | Pier 1 and 2 Repair Details                                      |
|   | Top of Slab Elevations VII - Unit 4                           | S-47         | Abutment 2 Removal and Repair Details IV                         |
|   | Top of Slab Elevations VI - Unit 3                            | S-46         | Abutment 2 Removal and Repair Details III                        |
|   | Top of Slab Elevations V - Unit 3                             | S-45         | Abutment 2 Removal and Repair Details II                         |
|   | Top of Slab Elevations IV - Unit 2                            | S-44         | Abutment 2 Removal and Repair Details I                          |
|   | Top of Slab Elevations III - Unit 2                           | S-43         | Abutment 1 Removal and Repair Details II                         |
|   | Top of Slab Elevations II - Unit 1                            | S-42         | Abutment 1 Removal and Repair Details I                          |
|   | Top of Slab Elevations I - Unit 1                             | S-41         | Fixed Bearing Details  |
|   | Top of Slab Elevations Layout III                             | S-40         | HLMR Bearing Details   |
|   | Top of Slab Elevations Layout II                              | S-39         | Type II Elastomeric Bearing Details                              |
|   | Top of Slab Elevations Layout I                               |              | Type I Elastomeric Bearing Details                               |
|   | General Data<br>Tan of Slob Flourtiene Lavout I               | S-37<br>S-38 | Girder Moment and Reaction Tables                                |
|   | General Plan & Elevation III<br>Conoral Pata                  | S-37         | Structural Steel Details II<br>Sirder Nament and Poantien Tables |
|   | General Plan & Elevation II<br>Concerned Plan & Elevation III | S-35<br>S-36 | Structural Steel Details I                                       |
|   | General Plan & Elevation I                                    | S-34         | Drainage System Details  |
|   |   | C 74         |  |
|   |   |              |  |

| 202  | BOWMAN, BARRETT & ASSOCIATES INC.  | USER NAME =            | DESIGNED - IYL | REVISED - |                              | GENERAL DA           |
|------|--|------------------------|----------------|-----------|------------------------------|----------------------|
| 1072 | CONSULTING ENGINEERS<br>Chicago, Illinois<br>312.228.0100<br>www.bbandainc.com | CHECKED - BAK          |                | REVISED - | STATE OF ILLINOIS            |                      |
| ŝ    |  | PLOT SCALE =           | DRAWN - MTR    | REVISED - | DEPARTMENT OF TRANSPORTATION | STRUCTURE NO. 01     |
|      |  | PLOT DATE = 02/11/2013 | CHECKED - IYL  | REVISED - |                              | SHEET NO. S-4 OF S-8 |

| <u>total Bill of Materi</u>                  | <u>AL</u> |         |        |         |
|--|-----------|---------|--------|---------|
| ITEM   | UNIT      | SUPER   | SUB    | TOTAL   |
|  | Cu Yd     | -       | 131.6  | 131.6   |
| rete Deck                                    | Each      | 1       | -      | 1       |
|  | Sa Yd     | 2.146   | -      | 2,146   |
|  | Cu Yd     | -       | 17     | 17      |
|  | Cu Yd     | 18.0    | 77.7   | 95.7    |
|  | Cu Yd     | 1,786.3 | -      | 1,786.3 |
|  | Sq Yd     | 3,937   | -      | 3,937   |
|  | Sq Yd     | 5,789   | -      | 5,789   |
| Structural Steel                             | Pound     | 6,540   | -      | 6,540   |
|  | Each      | 8,097   | -      | 8,097   |
| xy Coated                                    | Pound     | 389,860 | 13,850 | 403,710 |
| •  | Each      | 40      | -      | 40      |
|  | Each      | -       | 32     | 32      |
|  | Each      | 1       | -      | 1       |
| al   | Foot      | 81      | -      | 81      |
| mbly, Type I                                 | Each      | 20      | -      | 20      |
| mbly, Type II                                | Each      | 16      | -      | 16      |
|  | Each      | 152     | -      | 152     |
|  | Each      | 32      | -      | 32      |
|  | Sq Ft     | 1,460   | -      | 1,460   |
|  | Foot      | -       | 221    | 221     |
|  | Sq Yd     | -       | 43     | 43      |
|  | Foot      | 485     | -      | 485     |
|  | Cu Yd     | -       | 145    | 145     |
| l Bearings, Guided Expansion, 400K           | Each      | 12      | -      | 12      |
| ictures                                      | Cu Yd     | -       | 107    | 107     |
| g Bearings                                   | Each      | 48      | -      | 48      |
|  | Pound     | 5,950   | -      | 5,950   |
|  | Sq Yd     | 250     | -      | 250     |
| of Lead Paint Cleaning Residues, No. 1       | L Sum     | 1       | -      | 1       |
|  | Sq Ft     | -       | 92     | 92      |
| el Bridge No. 1                              | L Sum     | 1       | -      | 1       |
| crete (Depth Equal to or Less Than 5 Inches) | Sq Ft     | -       | 1,102  | 1,102   |
| crete (Depth Greater Than 5 Inches)          | Sq Ft     | -       | 116    | 116     |
| 1  | Each      | 5       | -      | 5       |
|  | L Sum     | 1       | -      | 1       |
|  | Each      | 16      | -      | 16      |
| Swivel 6"                                    | Foot      | 50      | -      | 50      |
| uctures 4"                                   | Foot      | -       | 25     | 25      |
| ribbing                                      | Each      | 40      | -      | 40      |

# TOTAL DIVE OF MATERIA

## INDEX OF SHEETS

| DATA        | F.A.I.<br>RTE             | SECTION     | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO, |
|-------------|---------------------------|-------------|--------|-----------------|--------------|
| . 016–2437  |                           | 2012-060-BR | COOK   | 285             | 167          |
| . 010-2437  | CONTRACT NO. 60V61        |             |        |                 | 60V61        |
| S-83 SHEETS | ILLINOIS FED. AID PROJECT |             |        |                 |              |
|             |                           |             |        |                 |              |