GENERAL NOTES

- 1. Fasteners shall be high strength bolts (AASHTO M164 type 3). Bolts M22 ¢, open holes 24 mm ¢, unless otherwise noted.
- 2. Calculated mass of Structural Steel (M 270M, Grade 345W) = 334,090 kg
- 3. All structural steel shall be AASHTO M 270M Grade 345W.
- * 4. Field welding of construction accessories will not be permitted to the girders.
- 5. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges and webs of plate girders.
- * 6. Reinforcement bars shall conform to the requirements of AASHTO M 31M or M 322M Grade 400.
- * 7. Slope wall shall be reinforced with welded wire fabric, 152 x 152 MW25.8 x MW25.8, with a mass of 2.91 kg/sq m.
- * 8. The contractor shall drive 2-356 \$\phi\$ Metal Shell test piles in a permanent location. One each at the East and West Abutments, as directed by the Engineer before ordering the remainder of piles.
- 9. All dimensions are in millimeters (mm) except as noted.
- * 10. The existing structural steel coating contains lead. The Contractor should take appropriate precautions to deal with the presence of lead on this project. No additional compensation will be made to properly dispose of the existing structure containing lead.
- AASHTO M 270M Grade 345W structural steel shall only be painted, at the ends of the beams, for a distance equal to 675 mm. Those areas shall be primed in the shop with an inorganic zinc rich primer per AASHTO M 300, Type I. No field painting shall be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel". The top of the top flanges shall not be
- * 12. All construction joints shall be bonded.

INDEX OF SHEETS

S-1 General Plan

General Notes, Index of Sheets and Total Bill of Material

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Temporary Concrete Barrier for Stage Construction

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Top of Deck Elevations (3 of 4)

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* S-13 Parapet Elevations * S-14 Superstructure Details

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* S-24 Concrete Pile Details * S-25 Boring Logs (1 of 4)

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S-XX Bearing Seat Elevations (For Information Only)

| OUTE NO. | SECTION | COUNTY | | TOTAL SHEETS | SHEET NO. | SHEET NO. 5-2 |
|-------------------|-----------|----------------------|-------------------|-----------------|--------------|---------------|
| F, A. I. 60/94 | 2884-133F | LAKE COUNTY, INDIANA | | 90 | 80 | 28 SHEETS |
| | | ILLINO31 | FED. AID PROJECT- | | | |

CONTRACT NO. 62898 INDOT DES. NO. 9910630

TOTAL BILL OF MATERIAL

| | ITEM | UNIT | SUPER | SUB | TOTAL |
|--------|--|----------------|-------|-----|-------|
| * (IN) | Present Structure, Str. No. I-80-1-8461, Remove Portions | L. Sum | | | |
| * (IN) | Field Welded Stud Shear Connector | Each | | | |
| * (IN) | Test Pile, 356 mm | Each | | | |
| * (IN) | Structure Backfill | m ³ | | | |
| * (IN) | Excavation, Foundation, Unclassified | m ³ | | | |
| * (IN) | Concrete, A, Substructure | m ³ | | | |
| * (IN) | Concrete, C, Superstructure | m ³ | | | |
| * (IN) | Surface Seal | L. Sum | | | |
| * (IN) | Reinforcing Bars, Epoxy Coated | kg | | | |
| * (IN) | Pile, Concrete, Steel Shell Encased, 6.35 mm, 356 mm | m | | | |
| * (IN) | Threaded Tie Bar Assembly, Epoxy Coated | Each | | | |
| * (IN) | Anchor Bolt | Each | | | |
| * | Noise Abatement Wall Anchor Rod Assembly | Each | | | |
| | Furnishing Structural Steel | L. Sum | 0.16 | | |
| * | Erecting Structural Steel | L. Sum | | | |
| | Storage of Structural Steel | ** | 501 | | |
| * (IN) | Masonry Coat | L. Sum | | | |
| | | | | | |
| | | | | | |
| | | | | | |

** For Storage of Structural Steel one unit shall be equal to 5 metric tons. The quantity was calculated based on the assumption that 25% of the steel mass has to be stored for 30 calendar days.

(IN) Indiana Pay Items, denoted by "(Indiana)" in Special Provisions and Summary of Quantities.

DESIGNED BHS CHECKED DRAWN BHS CHECKED

* NOT INCLUDED IN CONTRACT

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 80/94 (BORMAN EXPRESSWAY)
OVER HARRISON AVENUE
GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIAL SECTION 2004–133F LAKE COUNTY, INDIANA STATION 8 + 754.874 STRUCTURE NO. I-80-1-8461 (EB & WB) DATE 05/05 (016-1005 & 016-1006)

