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HICKORY CREEK

VILLAGE OF NEW LENOX F.A.U. RT. 0369 STA. 12+97 STR. NO. 099-6703 LOADING HS20

> NAME PLATE See Std. 515001

BY

BUILT

- S-28 TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
- S-29 CANTILEVER FORMING BRACKETS FOR SUPERSTRUCTURES
  - WITH W27 BEAMS AND SMALLER

| TOTAL | BILL | 0F | MA | ΤE | RI | AL |
|-------|------|----|----|----|----|----|
|       |      |    |    |    |    |    |

| PAY ITEM<br>NO. | DESCRIPTION                                  | UNIT  | SUPER    | SUB    | ΤΟΤΑΙ |
|-----------------|--|-------|----------|--------|-------|
| 20700220        | POROUS GRANULAR EMBANKMENT                   | CU YD |          | 1,468  | 1,468 |
| 28100109        | STONE RIPRAP, CLASS A5                       | SQ YD |          | 145    | 145   |
| 28200200        | FILTER FABRIC                                | SQ YD |          | 145    | 145   |
| 42001400        | BRIDGE APPROACH PAVEMENT (SPECIAL)           | SQ YD | 506      |        | 506   |
| 50100200        | REMOVAL OF EXISTING STRUCTURES               | L SUM |          | 1      | 1     |
| 50200100        | STRUCTURE EXCAVATION                         | CU YD |          | 1,019  | 1,01  |
| 50200300        | COFFERDAM EXCAVATION                         | CU YD |          | 28     | 28    |
| 50200400        | ROCK EXCAVATION FOR STRUCTURES               | CU YD |          | 201    | 20.   |
| 50200500        | COFFERDAMS (SOUTH ABUTMENT, BRIDGE STAGE I)  | EACH  |          | 1      | 1     |
| 50200500        | COFFERDAMS (SOUTH ABUTMENT, BRIDGE STAGE II) | EACH  | · ·      | 1      | 1     |
| 50200500        | COFFERDAMS (NORTH ABUTMENT, BRIDGE STAGE I)  | EACH  |          | 1      | 1     |
| 50200500        | COFFERDAMS (NORTH ABUTMENT, BRIDGE STAGE II) | EACH  |          | 1      | 1     |
| 50200500        | COFFERDAMS (PIER, BRIDGE STAGE I)            | EACH  |          | 1      | 1     |
| 50200500        | COFFERDAMS (PIER, BRIDGE STAGE II)           | EACH  |          | 1      | 1     |
| 50300225        | CONCRETE STRUCTURES                          | CU YD |          | 566.8  | 566   |
| 50300255        | CONCRETE SUPERSTRUCTURE                      | CU YD | 361.0    |        | 361   |
| 50300260        | BRIDGE DECK GROOVING                         | SQ YD | 802      |        | 802   |
| 50300265        | SEAL COAT CONCRETE                           | CU YD |          | 35     | 35    |
| 50300300        | PROTECTIVE COAT                              | SQ YD | 1.124    |        | 1.12  |
| 50300310        | ELASTOMERIC BEARING ASSEMBLY, TYPE I         | EACH  |          | 24     | 24    |
| 50500105        | FURNISHING AND ERECTING STRUCTURAL STEEL     | L SUM | 1        |        | 1     |
| 50500505        | STUD SHEAR CONNECTORS                        | EACH  | 4.752    |        | 4.75  |
| 50800105        | REINFORCEMENT BARS                           | LB    |          | 19,850 | 19.8  |
| 50800205        | REINFORCEMENT BARS, EPOXY COATED             | LB    | 82,590   | 29.850 | 112.4 |
| 50900105        | ALUMINUM RAILING, TYPE L                     | FOOT  | 111      |        | 111   |
| 51500100        | NAME PLATES                                  | EACH  | 1        |        | 1     |
| 59100100        | GEOCOMPOSITE WALL DRAIN                      | SQ YD |          | 446    | 44    |
| X0323988        | TEMPORARY SOIL RETENTION SYSTEM              | SQ FT | <u>,</u> | 1,670  | 1,67  |
| X0323082        | DRAINAGE SCUPPERS, DS-33                     | EACH  | 4        |        | 4     |
| Z0002600        | BAR SPLICERS                                 | EACH  | 174      | 44     | 218   |
|                 |  |       |          |        |       |
|                 | 1  | L     |          |        |       |

## GENERAL NOTES:

- galvanized AASHTO M 164, Type 1 or 2 in painted areas. Bolts<sup>7</sup>8", open hcles<sup>15</sup>16", unless otherwise noted.
- 2. Calculated weight of Structural Steel : AASHTO M 270 Grade 50W = 204148 Lbs. Anchor Bolts = 479 Lbs.
- 3. Field welding of construction accessories will not be permitted to beams or girders.
- 4. Anchor bolts shall be set before placing concrete disphragms at the abutments and before boltina diaphraams over the pier.
- 5. The structural steel bearing plates of the Elastomeric Bearing Assembly stall conform to the requirements of AASHTO M 270 Grade 50W.
- 6. 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 wide flange beams and all splice plate material except fill plates.
- 7. Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.
- 8. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- 9. The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- 10. Backfill shall be placed behind the abutment after the superstructure has been poured and the falsework removed. See Article 502.10 of the Standard Specifications.
- 11. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection.
- 12. 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 for the work.
- 13. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of <sup>1</sup><sub>8</sub> inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $l_{\beta}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two  $l_{a}^{\prime\prime}$  adjusting shims shall be provided for each bearing and placed as detailed.
- 14. AASHTO M 270 Grade 50W structural steel shall only be painted, at the ends of the beams, for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be be required. All structural steel shall be cleaned as specified in the special provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 15. All construction joints shall be bonded.
- 16. Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall saw out the existing abutments of the stage removal line before Stage I removal.
- 17. Existing overhead Commonwealth Edison power lines to be relocated by Commonwealth Edison.
- 18. Existing buried gas main to be relocated by Nicor.

1. Fasteners shall be high strength bolts AASHTO M 164, Type 3 in unpainted areas and mechanically

| <br>F.A.U.<br>RTE. | SECTION      |        | COUN    | TΥ  | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------------|--------------|--------|---------|-----|-----------------|--------------|
| 0369               | 97-00025-00  | )-BR   | WILL    | -   | 156             | 111          |
| STA. TO STA.       |              |        |         |     |                 |              |
| FED. RO            | AD DIST. NO. | ILLINO | IS FED. | AID | PROJECT         |              |

CONTRACT NO: 83757

primed in the shop with an inorganic zinc rich primer per AASHTO M 300, Type I. No field painting shall

| SHT. S-02<br>REVISIONS<br>NAME DATE | VILLAGE OF NEW LENOX<br>F.A.U. (0369) CEDAR ROAD OVER HICKORY CREEK<br>WILL COUNTY |  |  |  |
|-------------------------------------|--|--|--|--|
|                                     | BILL OF MATERIAL &<br>GENERAL NOTES  |  |  |  |
|                                     | SCALE: NTS   | DRAWN BY: FZD  |  |  |
|                                     | DATE: 07/01/05   | CHECKED BY: KPS  |  |  |
|                                     | TENG   | TENG & ASSOCIATES, INC.<br>ENGINARESSARGUITEUTPPLANNERS<br>205 M.MICHIGAN AVR. CORCAGO, IL 60901<br>TELEPHONE, S12816-0030 |  |  |