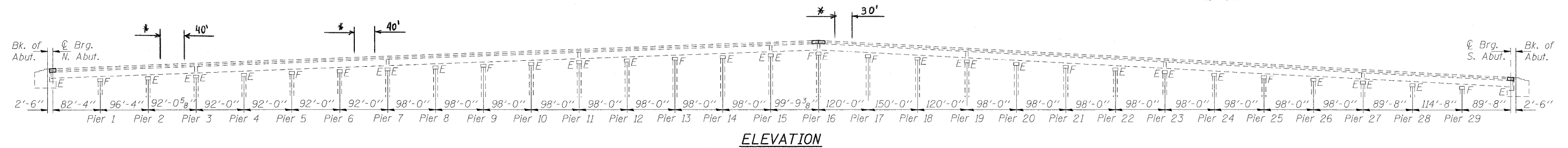
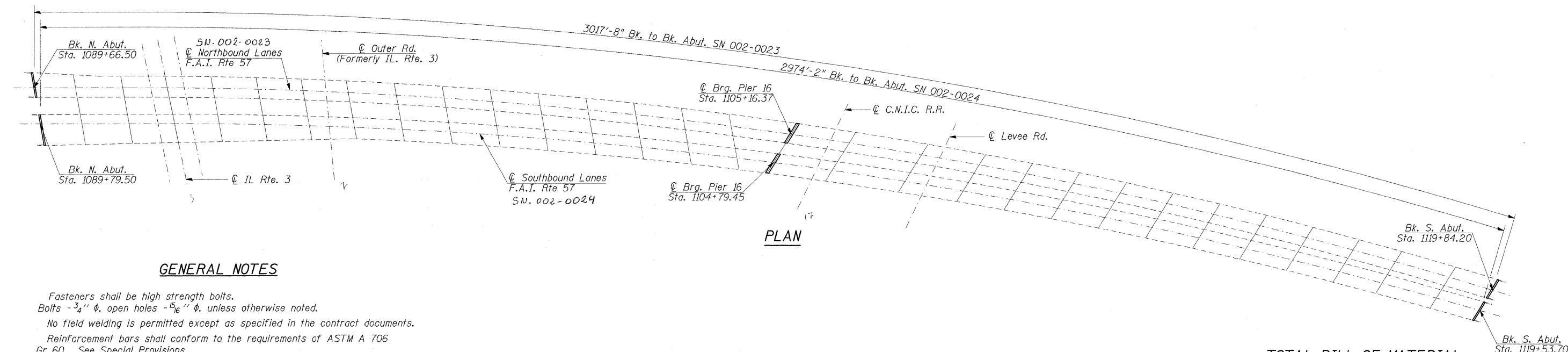


* PROTECTIVE SHIELD LIMITS



ELEVATION



PLAN

GENERAL NOTES

Fasteners shall be high strength bolts.
 Bolts - $\frac{3}{4}$ " ϕ , open holes - $\frac{15}{16}$ " ϕ , unless otherwise noted.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Reinforcement bars designated (E) shall be epoxy coated.
 Prior to pouring the new concrete deck section, 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 $\frac{1}{4}$ 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.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 Existing structural steel shall only be cleaned and painted as required by the Special Provision "Cleaning and Painting Adjacent Areas of Existing Steel Structures".
 Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|---|----------------|------------|
| Concrete Removal | Cu. Yd. | 44.3 |
| Concrete Superstructures | Cu. Yd. | 48.8 |
| Bridge Deck Grooving | Sq. Yd. | 25,060 |
| Bar Splicers | Each | 76 |
| Structural Repair of Concrete (Depth \leq 5") | Sq. Ft. | 166 |
| Reinforcement Bars, Epoxy Coated | Pound | 5020 |
| Plug Existing Floor Drains | Each | 152 |
| Prefomed Joint Strip Seal | Foot | 278 |
| Floor Drain Extension | Each | 758 |
| Bridge Deck Microsilica Concrete Overlay 2 1/2" | Sq. Yd. | 26,322 |
| Bridge Deck Hydro-Scarification 1/2" | Sq. Yd. | 26,322 |
| Deck Slab Repair (Full Depth, Type I) | Sq. Yd. | 26 |
| Protective Coat | Sq. Yd. | 26,400 |
| HMA Surface Removal (Deck) | Sq. Yd. | 26,322 |
| PROTECTIVE SHIELD | Sq. Yd. | 892 |

Design Stresses

FIELD UNITS (New Construction)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

FIELD UNITS (Existing Construction)
 $f'_c = 3,500$ psi
 $f_c = 1,200$ psi (Deck Slab)
 $f_c = 1,400$ psi (Substructure, Curb & Parapet)
 $f_s = 20,000$ psi (reinforcement)
 $n = 10$



Expires Nov. 30, 2010

BRIDGE REPAIRS
FAI RT 57 OVER IL RT 3,
OUTER RD, C.N.I.C. R.R., & LEVEE RD
SECTION D9 BSMART FY09-2
ALEXANDER COUNTY
SN 002-0023 & 002-0024

| | | | | | | | | | | | | |
|--|------------------------|------------|-----------|---|--|--|--|---------------------|------------------|------------------|--------------|-----------|
| FILE NAME = | USER NAME = halsteadtw | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PLAN AND ELEVATION SN 002-0023 & 002-0024 | | | F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| c:\pwwork\PIWIDOT\HALSTEADTW\d0113592\002-0023.dgn | | DRAWN - | REVISED - | | | | | 57 | D9 BSMART FY09-2 | ALEXANDER | 45 | 13 |
| PLDT SCALE = 16.0000' / IN. | | CHECKED - | REVISED - | | | | | CONTRACT NO. 78111 | | | | |
| PLDT DATE = 4/3/2009 | | DATE - | REVISED - | | | | | FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |