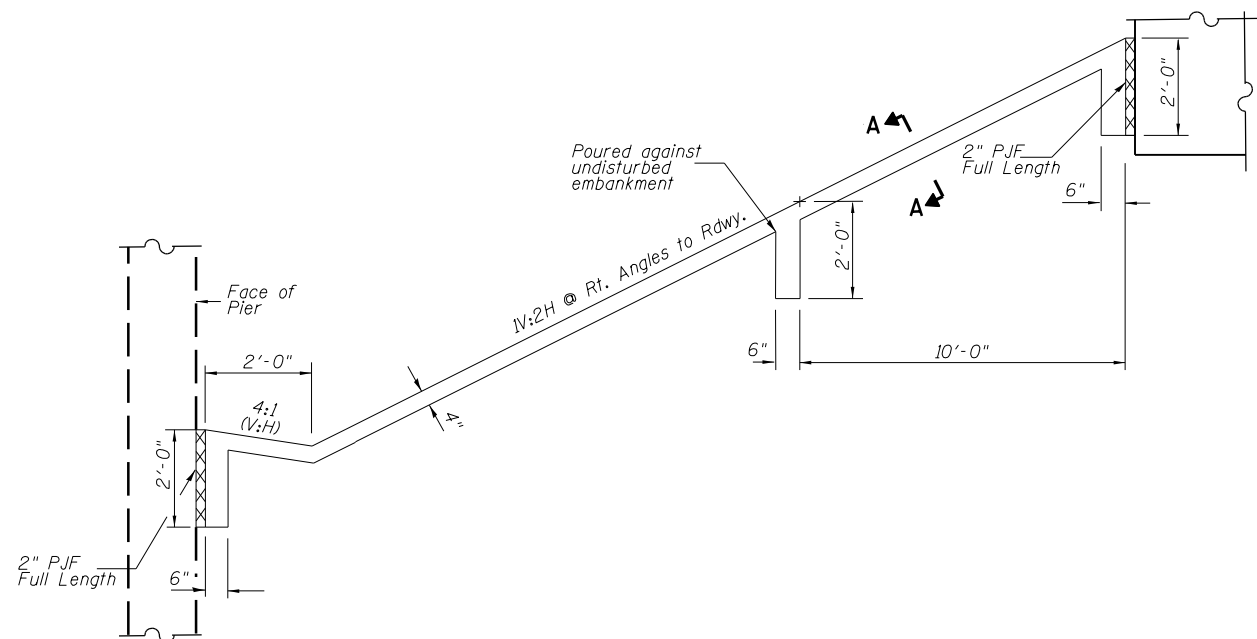
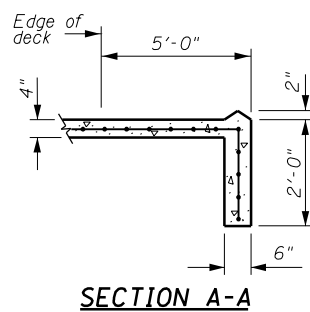


GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts 7/8" ϕ , open holes 15/16" ϕ , unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO, M270 Grade 50.
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations, at substructures specified or approved by the Engineer before ordering the remainder of piles.
- Calculated weight of structural steel = 5,900 lb (AASHTO M270 Grade 36)
99,830 lb (AASHTO M270 Grade 50)
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft). Adjusting shall be made either by grinding the surface or by shimming the bearing.
- Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. -W4.0 x W4.0, weighing 58 lbs. per 100 sq.ft.
- Concrete Sealer shall be applied to the designated areas of the Piers.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. 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 Interstate Green, Munsell No. 7.5 G 4/8. See Special Provisions for "Cleaning and Painting New Metal Structures".
- All cross frames or diaphragms between beams or girders shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- Earth excavation and shaping of end slopes shall be included with Slope Wall Removal.
- Slipforming of the parapets is not allowed.

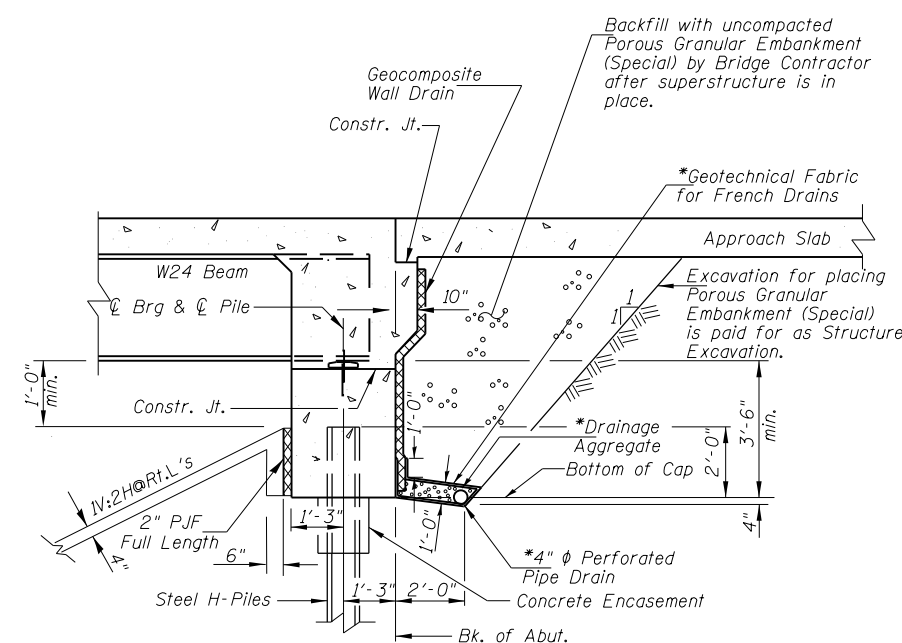
TOTAL BILL OF MATERIAL

| ITEM | UNIT | SUPER | SUB | TOTAL |
|--|---------|--------|--------|--------|
| Porous Granular Embankment, (Special) | Cu. Yd. | - | 95 | 95 |
| Removal of Existing Structures | Each | - | - | 1 |
| Slope Wall Removal | Sq. Yd. | - | - | 400 |
| Structure Excavation | Cu. Yd. | - | 158 | 158 |
| Concrete Structures | Cu. Yd. | - | 171.2 | 171.2 |
| Concrete Superstructure | Cu. Yd. | 341.9 | - | 341.9 |
| Bridge Deck Grooving | Sq. Yd. | 688 | - | 688 |
| Protective Coat | Sq. Yd. | 988 | - | 988 |
| Furnishing and Erecting Structural Steel | L. Sum | 1 | - | 1 |
| Stud Shear Connectors | Each | 2,880 | - | 2,880 |
| Reinforcement Bars, Epoxy Coated | Pound | 73,840 | 12,320 | 86,160 |
| Slope Wall, 4 Inch | Sq. Yd. | - | - | 460 |
| Name Plates | Each | - | - | 1 |
| Protective Shield | Sq. Yd. | 177 | - | 177 |
| Bar Splitters | Each | 76 | - | 76 |
| Aluminum Railing, Type L | Foot | 139 | - | 139 |
| Floor Drains | Each | 6 | - | 6 |
| Furnishing Steel Piles HP10x42 | Foot | - | 465 | 465 |
| Furnishing Steel Piles HP12x53 | Foot | - | 936 | 936 |
| Driving Piles | Foot | - | 1,401 | 1,401 |
| Test Pile Steel HP10x42 | Each | - | 2 | 2 |
| Test Pile Steel HP12x53 | Each | - | 2 | 2 |
| Pipe Underdrains for Structures, 4 Inch | Foot | - | - | 138 |
| Geocomposite Wall Drain | Sq. Yd. | - | - | 59 |
| Anchor Bolts, 1" | Each | - | 48 | 48 |
| Concrete Encasement | Cu. Yd. | - | 9.0 | 9.0 |
| Concrete Sealer | Sq. Ft. | - | 3,080 | 3,080 |



SECTION THRU SLOPE WALL

Note: All horizontal dimensions are at right angles to the roadway



*Included in the cost of Pipe Underdrains for Structures. All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

SECTION THRU INTEGRAL ABUTMENT

(Horizontal Dimensions @ Right Angles)

| | |
|----------|-----|
| DESIGNED | JOH |
| CHECKED | BAN |
| DRAWN | TC |
| CHECKED | BAN |

**GENERAL NOTES AND
BILL OF MATERIALS
MOUND ROAD (FAU ROUTE 8173)
OVER ILLINOIS ROUTE 104
SECTION (69-HB)BR
MORGAN COUNTY
STATION 100+00.00
STRUCTURE NO. 069-0521**

HU CHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS

Date: 101810