

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 7/8 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel (M223, Grade 36) = 11862 lbs.  
 Calculated weight of Structural Steel (M223, Grade 50) = 211697 lbs.

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.

Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

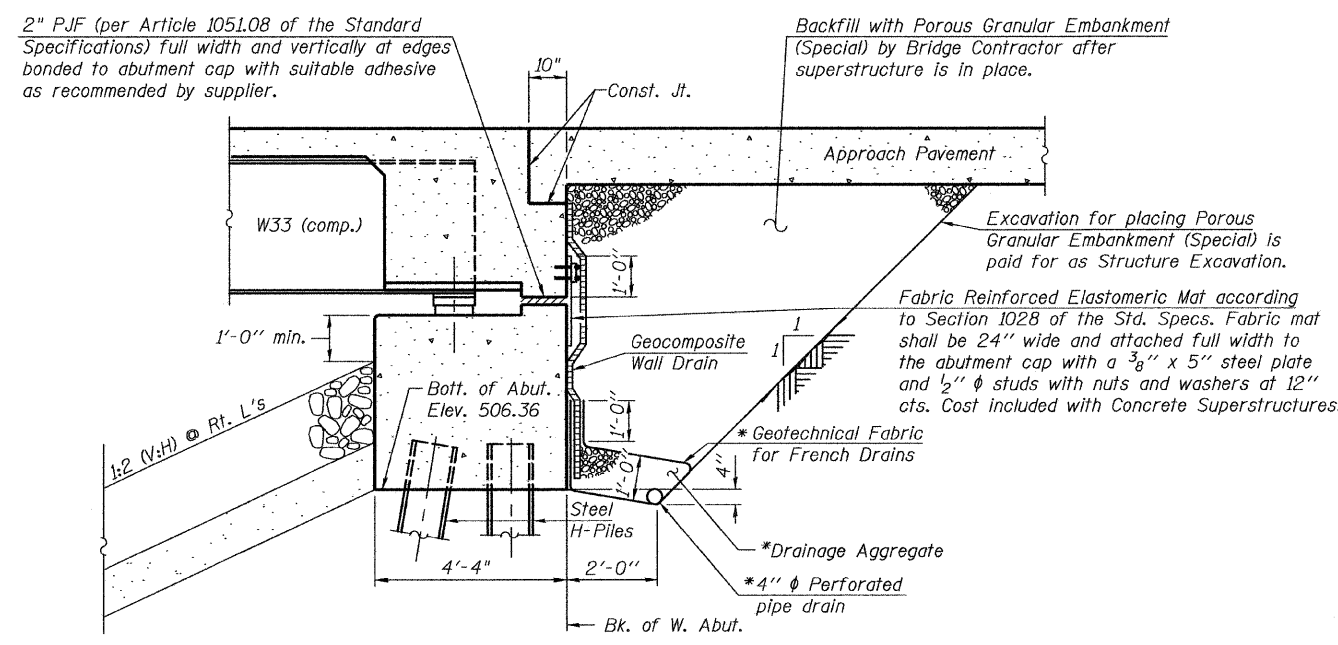
The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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 Reddish Brown, Munsell No. 7.5 G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Layout of the paved flume may be varied in the field to conform and connect to existing paved ditch to drain as directed by the Engineer.



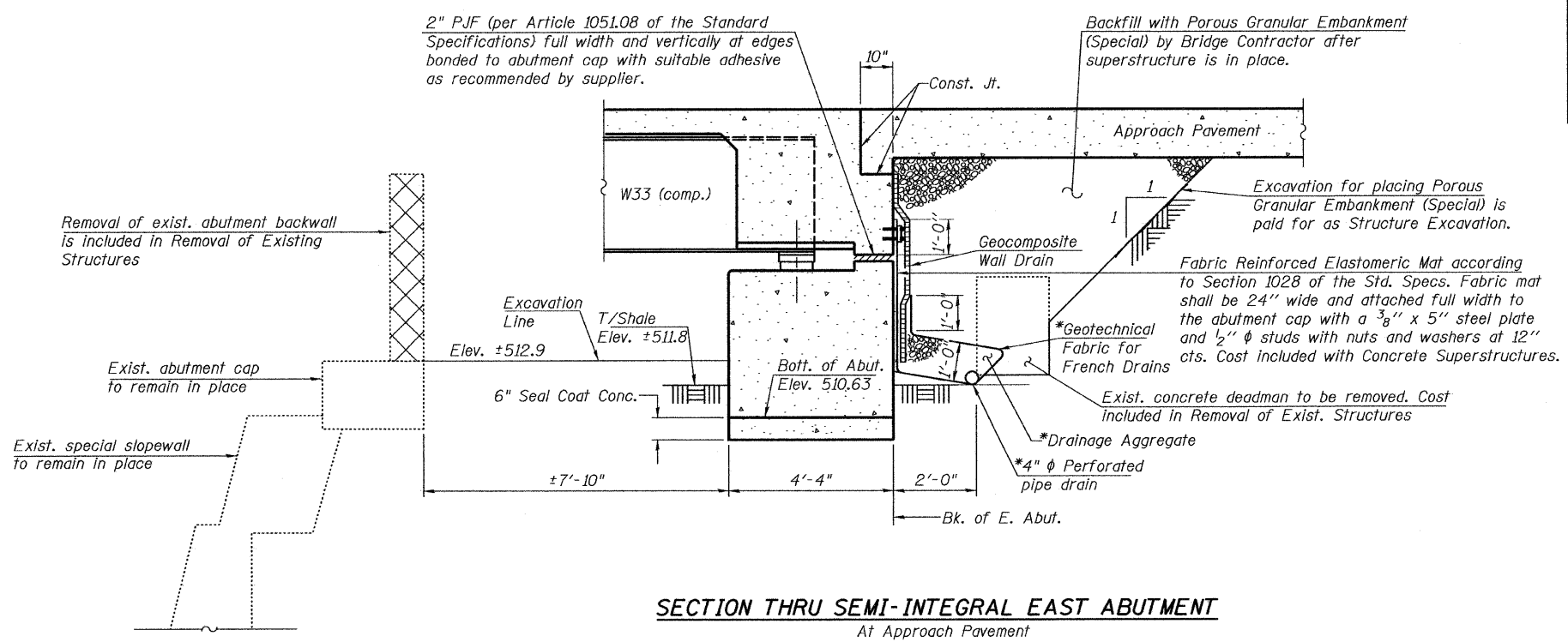
**SECTION THRU SEMI-INTEGRAL WEST ABUTMENT**  
At Approach Pavement

\* Included in the cost of Pipe Underdrains for Structures.

Notes:  
 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).  
 See Diaphragm Elevation on Sheet 13 of 25 for limits of Fabric Reinforced Elastomeric Mat.

**TOTAL BILL OF MATERIAL**

| ITEM  | UNIT    | SUPER | SUB   | TOTAL |
|---|---------|-------|-------|-------|
| Porous Granular Embankment, Special                   | Cu. Yd. |       | 116   | 116   |
| Stone Riprap Class A5                                 | Sq. Yd. |       |       | 425   |
| Filter Fabric   | Sq. Yd. |       |       | 425   |
| Removal of Existing Structures                        | Each    |       |       | 1     |
| Slope Wall Removal                                    | Sq. Yd. |       |       | 260   |
| Structure Excavation                                  | Cu. Yd. |       | 139   | 139   |
| Rock Excavation for Structures                        | Cu. Yd. |       | 10.2  | 10.2  |
| Underwater Structure Excavation Protection-Location 1 | Each    |       | 1     | 1     |
| Underwater Structure Excavation Protection-Location 2 | Each    |       | 1     | 1     |
| Concrete Structures                                   | Cu. Yd. |       | 237.9 | 237.9 |
| Concrete Superstructure                               | Cu. Yd. | 238.1 |       | 238.1 |
| Bridge Deck Grooving                                  | Sq. Yd. | 889   |       | 889   |
| Seal Coat Concrete                                    | Cu. Yd. |       | 2.9   | 2.9   |
| Concrete Encasement                                   | Cu. Yd. |       | 2.5   | 2.5   |
| Protective Coat                                       | Sq. Yd. | 923   |       | 923   |
| Furnishing and Erecting Structural Steel              | L. Sum  |       | 1     | 1     |
| Stud Shear Connectors                                 | Each    | 4716  | 68    | 4784  |
| Reinforcement Bars, Epoxy Coated                      | Pound   | 58880 | 15970 | 74850 |
| Bar Splicers  | Each    | 808   | 160   | 968   |
| Steel Bridge Rail, Type SM                            | Foot    | 445   |       | 445   |
| Furnishing Steel Piles HP 12x53                       | Foot    |       | 210   | 210   |
| Furnishing Steel Piles HP 12x84                       | Foot    |       | 468   | 468   |
| Driving Piles   | Foot    |       | 210   | 210   |
| Temporary Sheet Piling                                | Sq. Ft. |       |       | 126   |
| Temporary Soil Retention System                       | Sq. Ft. |       |       | 154   |
| Name Plates   | Each    |       | 1     | 1     |
| Elastomeric Bearing Assembly, Type 1                  | Each    | 12    |       | 12    |
| Anchor Bolts 1/4"                                     | Each    |       | 48    | 48    |
| Geocomposite Wall Drain                               | Sq. Yd. |       |       | 77    |
| Pipe Underdrains for Structures 4"                    | Foot    |       |       | 136   |
| Setting and Driving Piles in Rock                     | Each    |       | 12    | 12    |



**SECTION THRU SEMI-INTEGRAL EAST ABUTMENT**  
At Approach Pavement

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: GENERAL NOTES AND TOTAL BILL OF MATERIAL

PROJECT: F.A.S. RT. 287 (C.H. 29)  
 SECTION 05-00039-03-BR  
 GRUNDY COUNTY  
 STATION 126+42.00  
 STRUCTURE NO. 032-3101

PROJECT NO. 05042  
 SCALE: 1/4" = 1'-0"  
 DATE: 10/21/09  
 DRAWN BY: TFG  
 CHECKED BY: CME/MCB  
 DRAWING NO. 2

COOMBE-BLOXDORF P.C.  
 Engineers / Land Surveyors  
 Springfield, Illinois  
 Design Firm License No. 184-002703

OF 25 SHTS

PLOT DATE = 10/22/2009  
 FILE NAME = \\sibridge\bridge-plans\giant-02.dgn  
 PLOT SCALE = 0.01000 1" = 1'  
 USER NAME = CFC