

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2
FAP 782	114B-2	GALLATIN	62	20	18 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 98887		

**GENERAL NOTES**

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.  
Bolts  $\frac{3}{4}$ "  $\phi$ , holes  $\frac{15}{16}$ "  $\phi$ , unless otherwise noted.  
Calculated weight of Structural Steel = 238630 lbs. AASHTO M 270 (Grade 50)  
11860 lbs. AASHTO M 270 (Grade 36)

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 (IL Modified). See Special Provisions  
Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

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. 7.5G 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 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.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

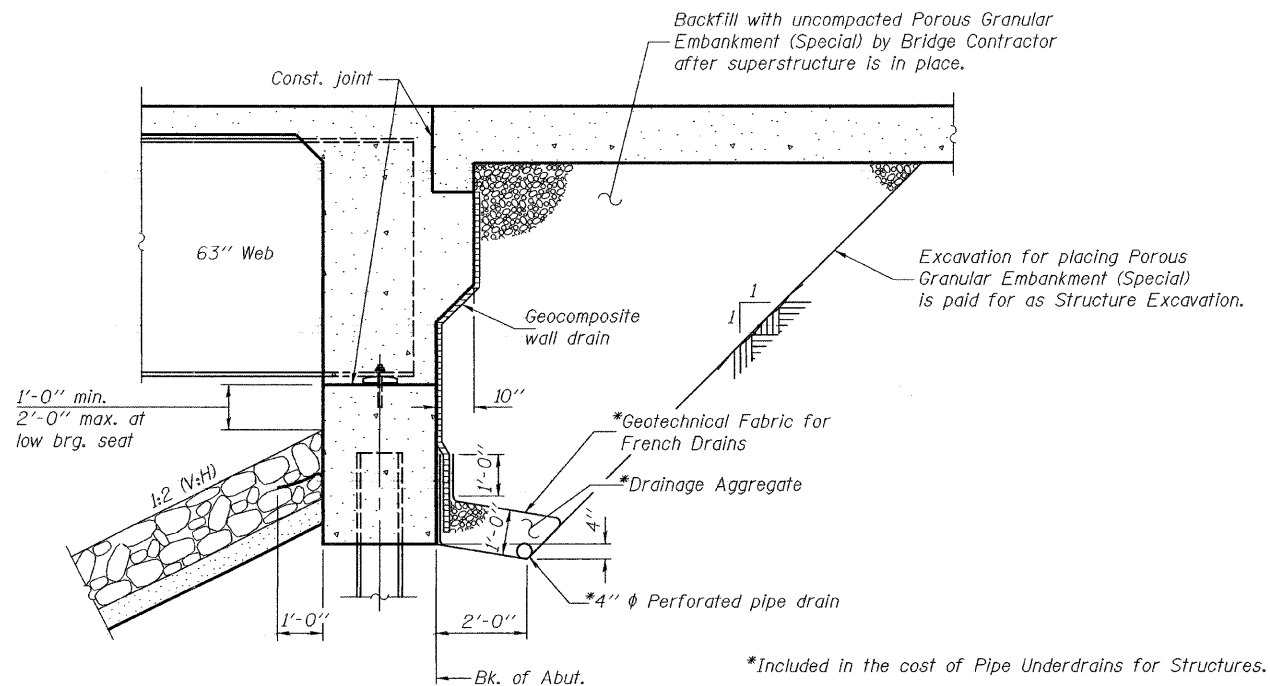
Slipforming of the parapets will not be allowed.

The Contractor is advised that the existing PPC Deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.

If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		258	258
Stone Riprap, Class A5	Sq. Yd.		2196	2196
Filter Fabric	Sq. Yd.		2196	2196
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		240	240
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		44.4	44.4
Concrete Superstructure	Cu. Yd.	187.6		187.6
Bridge Deck Grooving	Sq. Yd.	440		440
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	580		580
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1350		1350
Reinforcement Bars, Epoxy Coated	Pound	37020	7420	44440
Bar Splicers	Each	64		64
Furnishing Steel Piles HP12x74	Foot		674	674
Driving Piles	Foot		674	674
Test Pile Steel HP12x74	Each		1	1
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		24	24
Pipe Underdrains for Structures 4"	Foot		168	168
Geocomposite Wall Drain	Sq. Yd.		108	108



**SECTION THRU INTEGRAL ABUTMENT**

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with each side slopes. The pipes shall drain into concrete headwalls (See Art. 601.05 of the Standard Specifications and Highway Standards 601101).

DESIGNED	C.C. Chau
CHECKED	D.H. Coultas
DRAWN	h.f. duong
CHECKED	CCC/DHC

July 21, 2008  
EXAMINED *Thomas J. Demagala*  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL DATA**  
F.A.P. RTE. 782 - SECTION 114B-2  
GALLATIN COUNTY  
STATION 803+60.00  
STRUCTURE NO. 030-0024