

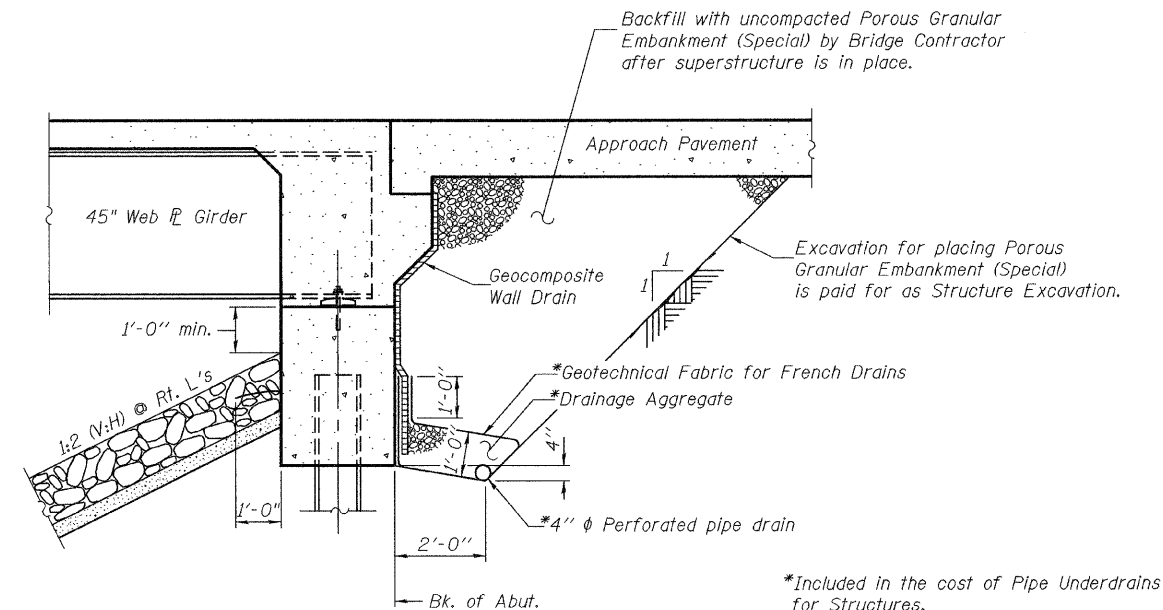
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts.
Bolts $\frac{3}{4}$ " ϕ , holes $\frac{5}{16}$ " ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 100760 lbs. (AASHTO M 270 Gr. 50)
= 12340 lbs. (AASHTO M 270 Gr. 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. See Special Provisions.
Reinforcement bars designated (E) shall be epoxy coated.
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Excavate behind the existing abutment if necessary in order to construct new abutment behind the existing abutment. The Contractor shall saw cut 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.
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 Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		190	190
Concrete Superstructure	Cu. Yd.	286.4		286.4
Concrete Structures	Cu. Yd.		62.6	62.6
Protective Coat	Sq. Yd.	807		807
Stone Riprap Class A5	Sq. Yd.		1290	1290
Filter Fabric	Sq. Yd.		1290	1290
Reinforcement Bars, Epoxy Coated	Pound	65890	6040	71930
Furnishing Steel Piles HP10x57	Foot		585	585
Driving Piles	Foot		585	585
Test Pile Steel HP10x57	Each		2	2
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.	660		660
Bar Splicers	Each	658	.18	676
Temporary Sheet Piling	Sq. Ft.		1168	1168
Floor Drains	Each	10		10
Stud Shear Connectors	Each	1206		1206
Furnishing & Erecting Structural Steel	L. Sum	1		1
Porous Granular Embankment (Special)	Cu. Yd.		189	189
Geocomposite Wall Drain	Sq. Yd.		94	94
Pipe Underdrains for Structures, 4"	Foot		153	153
Anchor Bolts, 1" ϕ	Each		24	24
Concrete Encasement	Cu. Yd.		4.2	4.2



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 the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

**GENERAL DATA
STRUCTURE NO. 079-0050**

DESIGNED J.E. KRAMER
CHECKED P.E. COPPERNOLL
DRAWN AMBER SEIBER htd
CHECKED GRA

EXAMINED <i>Thomas J. Demagalaki</i> ENGINEER OF BRIDGE DESIGN	March 2, 2010
PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES	

SHEET NO. 2 21 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	682	21BR, 21-I-1	RANDOLPH	77	41
CONTRACT NO. 76126					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					