

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Fasteners shall be AASHTO M 164 Type 1, mechanically galvanized bolts.
Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{5}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = AASHTO M 270 Grade 50 = 423,430 pounds
AASHTO M 270 Grade 36 = 35,350 pounds

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 the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the designated areas of the abutments.

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 gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".

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

In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.

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 and replacement of the superstructure.

Portions of Pier 6 from the original 1921 structure are buried and require removal for construction of proposed Pier 2. Cost of removal shall be included in Removal of Existing Structures.

The steel WF beams supporting deficient PPC deck beams shall be salvaged in accordance with Section 501.02 of the Standard Specifications for reuse by IDOT. The beams shall be removed, delivered to the IDOT Vandalia Maintenance Yard, and unloaded at the yard by the Contractor. Cost shall be included in Removal of Existing Structures.

Slipforming of the parapets is not allowed.

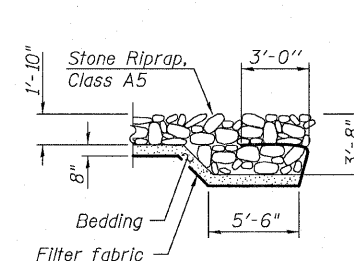
The SSPC QP1 Painting Contractor Certification is required for this contract.

TOTAL BILL OF MATERIAL

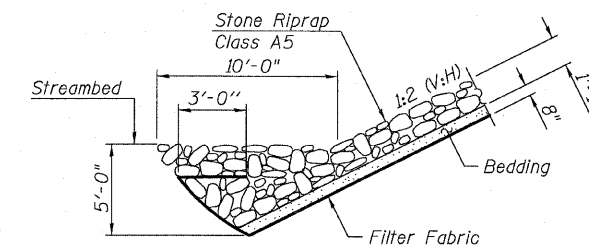
ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	134	134
Stone Riprap, Class A5	Sq. Yd.	-	2,329	2,329
Filter Fabric	Sq. Yd.	-	2,329	2,329
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	791	791
Concrete Structures	Cu. Yd.	23.4	408.3	431.7
Concrete Superstructure	Cu. Yd.	551.1	-	551.1
Bridge Deck Grooving	Sq. Yd.	1,698	-	1,698
Concrete Encasement	Cu. Yd.	-	15.8	15.8
Protective Coat	Sq. Yd.	2,031	-	2,031
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	5,232	-	5,232
Reinforcement Bars, Epoxy Coated	Pound	148,700	58,740	207,440
Bar Splicers	Each	1,421	300	1,721
Furnishing Steel Piles HP12X63	Foot	-	1,593	1,593
Furnishing Steel Piles HP14X89	Foot	-	3,399	3,399
Driving Piles	Foot	-	4,992	4,992
Test Pile Steel HP12X63	Each	-	2	2
Test Pile Steel HP14X89	Each	-	3	3
Temporary Sheet Piling	Sq. Ft.	-	1,735	1,735
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	76.0	-	76.0
Elastomeric Bearing Assembly, Type I	Each	12	-	12
Elastomeric Bearing Assembly, Type II	Each	12	-	12
Anchor Bolts, 1"	Each	12	-	12
Anchor Bolts, 1 1/4"	Each	24	-	24
Anchor Bolts, 1 1/2"	Each	24	-	24
Concrete Sealer	Sq. Ft.	-	532	532
Geocomposite Wall Drain	Sq. Yd.	-	83	83
Pipe Underdrains for Structures 4"	Foot	-	180	180
Drainage Scuppers, DS-II	Each	4	-	4
Underwater Structure Excavation Protection-Location 1	Each	-	1	1
Asbestos Bearing Pad Removal	Each	-	-	52
Mechanical Splicers	Each	-	370	370

INDEX OF SHEETS

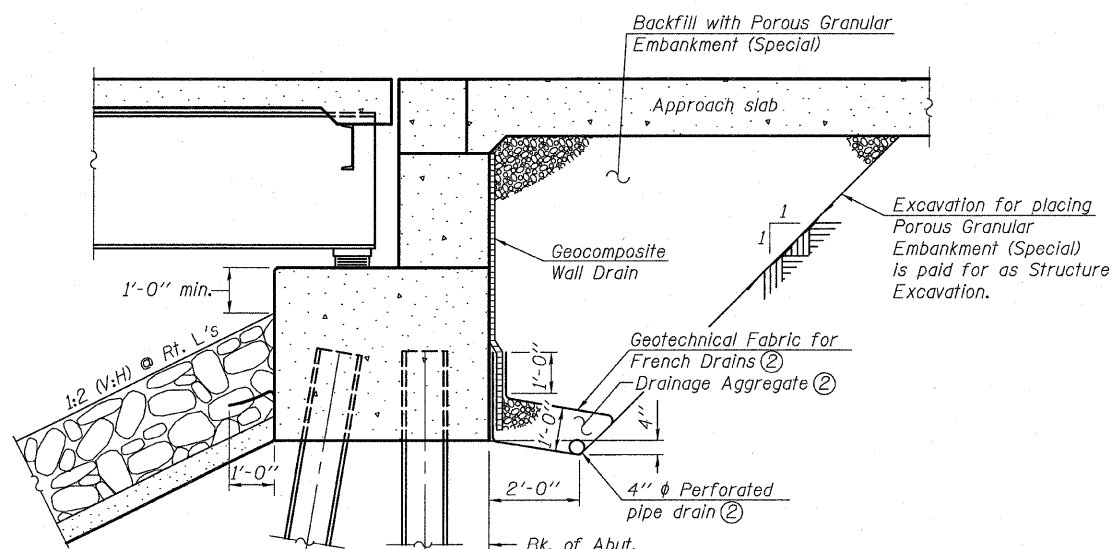
Sheet No.	Description
1	General Plan
2	General Data
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17	Drainage Scuppers, DS-11
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29	HP Pile Details
30	Bar Splicer Assembly Details
31-38	Boring Logs



SECTION A-A



SECTION B-B



SECTION THRU PILE SUPPORTED STUB ABUTMENT ①

- Notes:
- All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. See roadway General Notes for additional requirements. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).
 - Included in the cost of Pipe Underdrains for Structures 4".

**GENERAL DATA
STRUCTURE NO. 026-0105**

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2	752	(U-2BR)B-1	FAYETTE	71	24
38 SHEETS			CONTRACT NO. 74235		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT		



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DESIGNED MAG
CHECKED DGL
DRAWN DGL
CHECKED NEL