

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 29 SHEETS
FAP 327	(51-23) B-3	LAWRENCE	56	19	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 94967

GENERAL NOTES

Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts.
Bolts $\frac{7}{8}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
Calculated weight of Structural Steel = 788380 lbs. (Grade 50)
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.
Bearing seat surfaces shall be constructed or adjusted to their 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.
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.
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.
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".
Only the structural steel shall be painted. All other surfaces shall be protected from being painted. All such paint and overspray shall be required to be removed at the Contractor's expense.
Removal of existing slope walls included in the cost of Removal of Existing Structures.
Slip forming of the bridge parapets will not be allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		191	191
Stone Riprap, Class A5	Sq. Yd.		3098	3098
Filter Fabric	Sq. Yd.		3098	3098
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		192	192
Cofferdam Excavation	Cu. Yd.		270	270
Rock Excavation for Structures	Cu. Yd.		149	149
Cofferdams	Each		2	2
Floor Drains	Each	24		24
Concrete Structures	Cu. Yd.		583.9	583.9
Concrete Superstructure	Cu. Yd.	610.5	14.2	624.7
Bridge Deck Grooving	Sq. Yd.	1907		1907
Seal Coat Concrete	Cu. Yd.		19.2	19.2
Concrete Encasement	Cu. Yd.		8.8	8.8
Protective Coat	Sq. Yd.	2430		2430
Furnishing and Erecting Structural Steel	L. Sum	1.0		1.0
Stud Shear Connectors	Each	4464		4464
Reinforcement Bars, Epoxy Coated	Pound	166700	87630	254330
Bar Splicers	Each	1607	313	1920
Furnishing Steel Piles HP12x63	Foot		660	660
Driving Piles	Foot		660	660
Test Pile Steel HP12x63	Each		2	2
Pile Shoes	Each		13	13
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	86		86
Elastomeric Bearing Assembly, Type II	Each	12		12
Anchor Bolt 1/4"	Each		72	72
Concrete Sealer	Sq. Ft.		1227	1227
Geocomposite Wall Drain	Sq. Yd.		82	82
Pipe Underdrains for Structures, 4"	Foot		120	120
Mechanical Splice	Each		556	556
Temporary Soil Retention System	Sq. Ft.		1551	1551

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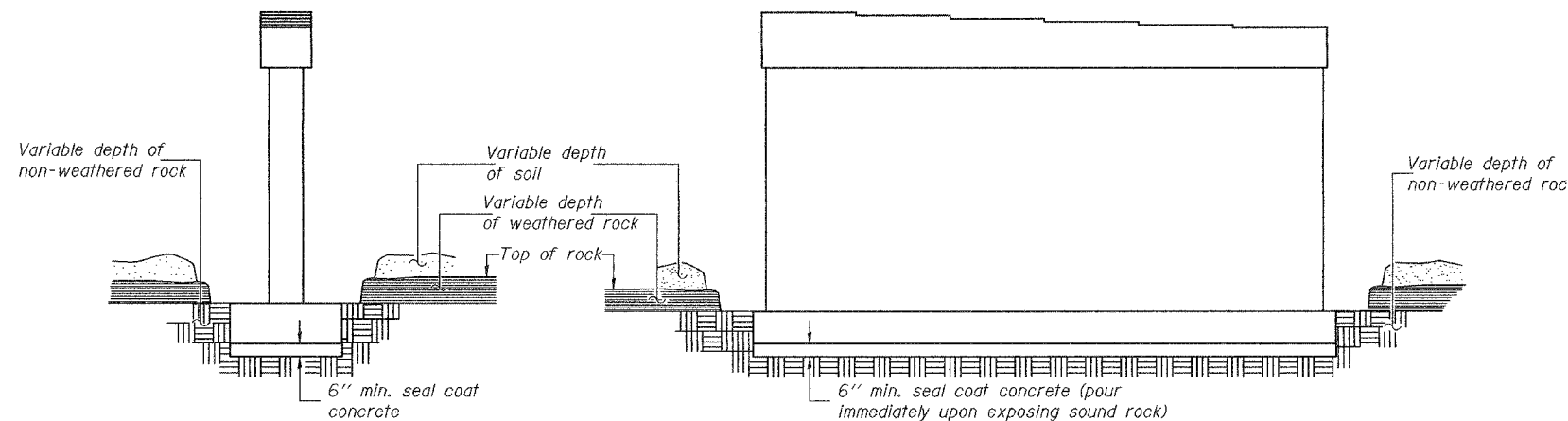
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Notes: The bottom of footing elevations shall be a minimum of 12 inches in non-weathered rock. The rock excavation shall be made with near vertical sides at the plan dimensions to allow the sides and base of the embedded portion of the footing to be cast against undisturbed rock surfaces.

It is anticipated that variable depths of weathered rock will lie on top of the non-weathered rock.

The footing excavations shall be undercut by 6 inches and immediately filled with seal coat concrete to prevent rapid degradation of the exposed foundation material surface. This concrete seal shall extend out to the faces of the rock excavation and shall be struck off level. The spread footing shall then be built on this level concrete platform.

At the proposed Pier 2 footing location, the bottom of the proposed footing shall also satisfy the condition of being a minimum of 6 inches below the as-built footing elevation for the existing Pier 4.



PIER CONSTRUCTION DETAILS

DESIGNED	Chad E. Hodel
CHECKED	Mark D. Shaffer
DRAWN	h.t. duong
CHECKED	CEH/MDS

Oct 2, 2007
EXAMINED *Thomas J. Damgalak*
ENGINEER OF BRIDGE DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

GENERAL DATA
F.A.P. RT. 327 - SEC. (51-23)B-3
LAWRENCE COUNTY
STATION 553+95.50
STRUCTURE NO. 051-0063