ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
533	119R-1-B	McHenry	77	24
FED. ROAD DIST. XXXX	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 2 OF 27 SHEETS

Contract #62340

GENERAL NOTES

Fasteners shall be AASHTO M164 Typed 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$" dia., holes $\frac{15}{16}$" dia., unless otherwise noted.

Calculated weight of Structural Steel = 405,802 lbs. (M 270, Gr. 50)
39,888 lbs. (M 270, Gr. 36)

No field welding is permitted except as specified in the the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

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 embankment that must be constructed prior to construction of the abutments.

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.

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 the piles.

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

When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following requirements are met:

1. At least 72 hours shall have elapsed from the end of the previous pour.
2. The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

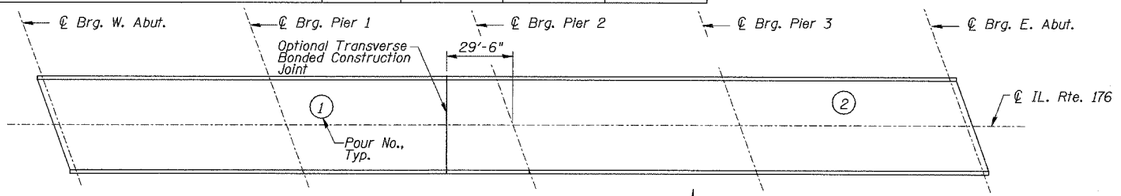
The Inorganic zinc rich primer /Acrylic/ Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown, Munsell No. 2.5YR 3/4. See special provision for "Cleaning and Painting New Metal Structures".

Quantities for Epoxy Crack Injection and Structural Repair of Concrete (Depth Equal to or Less than 5 In.) have been estimated. Actual quantities will be determined by the Engineer in the field. Payment will be made for actual quantities furnished.

The Metal Shell piles shall be according to ASTM A 252 Grade 3.

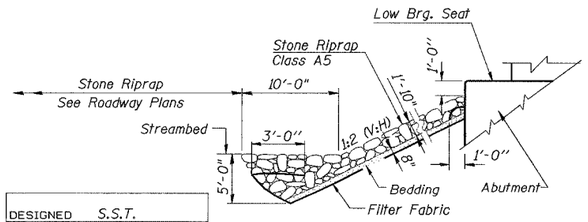
TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPER-STRUCTURE	SUB-STRUCTURE	TOTAL
Porous Granular Embankment (Special)	CU YD	-	166	166
Stone Riprap, Class A5	SQ YD	-	476	476
Filter Fabric	SQ YD	-	476	476
Removal of Existing Structures	EACH	1	-	1
Structure Excavation	CU YD	-	413	413
Cofferdam Excavation	CU YD	-	143	143
Cofferdams	EACH	-	1	1
Floor Drains	EACH	47	-	47
Concrete Structures	CU YD	-	229.4	229.4
Concrete Superstructure	CU YD	509.0	-	509.0
Bridge Deck Grooving	SQ YD	1,803	-	1,803
Seal Coat Concrete	CU YD	-	61.1	61.1
Concrete Encasement	CU YD	-	8.1	8.1
Protective Coat	SQ YD	2,139	-	2,139
Erecting Structural Steel	L. SUM	1	-	1
Stud Shear Connectors	EACH	5,004	-	5,004
Reinforcement Bars, Epoxy Coated	LB	138,010	19,060	157,070
Bar Splicers	EACH	-	88	88
Furnishing Metal Shell Piles 14" x 0.250"	FOOT	-	3,389	3,389
Driving Piles	FOOT	-	3,389	3,389
Test Pile Metal Shells	EACH	-	5	5
Name Plates	EACH	1	-	1
Preformed Joint Strip Seal	FOOT	89	-	89
Erecting Elastomeric Bearing Assembly, Type I	EACH	12	-	12
Erecting Elastomeric Bearing Assembly, Type II	EACH	12	-	12
Anchor Bolts 1 1/4"	EACH	-	48	48
Anchor Bolts 1 1/2"	EACH	-	24	24
Concrete Sealer	SQ FT	-	664	664
Epoxy Crack Injection	FOOT	-	20	20
Geocomposite Wall Drain	SQ YD	-	98	98
Pipe Underdrains for Structures 4"	FOOT	-	124	124
Structural Repair of Concrete (Depth Equal to or Less than 5 In.)	SQ FT	-	20	20
Underwater Structure Excavation Protection-Location 1	EACH	-	1	1
Furnishing and Installing Tied Anchor Rod Assembly	EACH	-	5	5

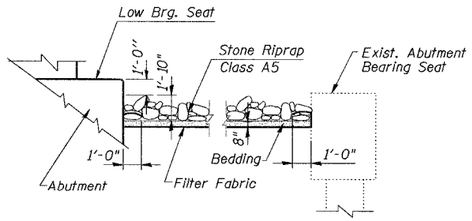


DECK POURING SEQUENCE

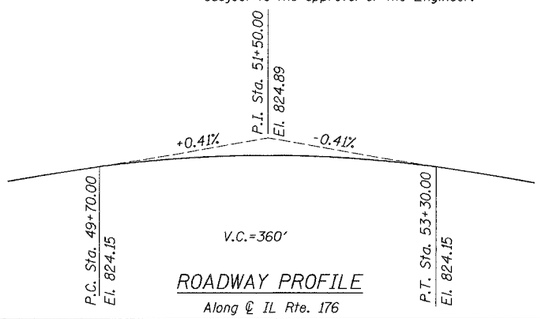
The Contractor may submit an alternate pouring sequence subject to the approval of the Engineer.



EAST ABUTMENT STONE RIPRAP DETAIL



WEST ABUTMENT STONE RIPRAP DETAIL



ROADWAY PROFILE

Along ℄ IL Rte. 176

DESIGNED	S.S.T.
CHECKED	S.D.H.
DRAWN	E.B.
CHECKED	S.S.T.

GENERAL NOTES AND TOTAL BILL OF MATERIAL
IL Route 176 over
South Branch of the Kishwaukee River
F.A.P. RTE 533, SECTION 119R-1-B
McHENRY COUNTY
STATION 51+50.00
DATE: 08-17-07 S.N. 056-0071

GRAEF, ANHALT, SCHLOEMER & ASSOCIATES INC
CHICAGO ILLINOIS

N:\Jobs2006\plot\00\76-GenNotes.dgn
8/17/2007
11:40:03 AM