

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

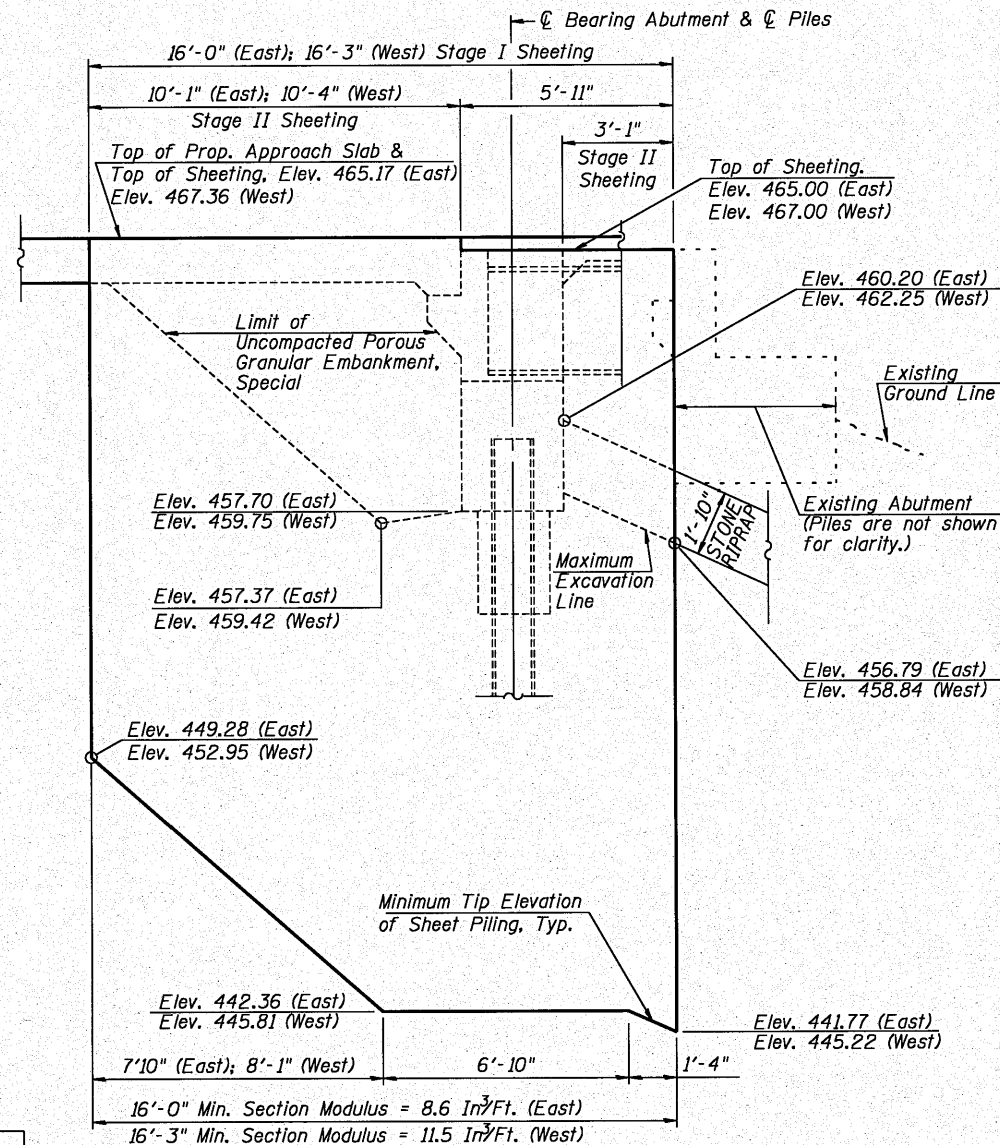
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts are $\frac{1}{2}$ " diameter in $\frac{1}{4}$ " diameter holes unless otherwise noted.
- Calculated weight of Structural Steel = 490,090 lbs.
- All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- 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 $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimmed the bearings.
- Structural steel shall be only painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure.
- Slipforming of the parapets is not allowed.
- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	CU YD	-	353	353
Stone Riprap, Class A4	SQ YD	-	3,334	3,334
Filter Fabric	SQ YD	-	3,334	3,334
Removal of Existing Structures	EACH	-	-	1
Structure Excavation	CU YD	-	730	730
Concrete Structures	CU YD	69.8	408.7	478.5
Concrete Superstructure	CU YD	1,037.5	-	1,037.5
Bridge Deck Grooving	SQ YD	2,701	-	2,701
Concrete Encasement	CU YD	-	12.2	12.2
Protective Coat	SQ YD	3,240	-	3,240
Furnishing & Erecting Structural Steel	L. SUM	1	-	1
Stud Shear Connectors	EACH	10,878	-	10,878
Reinforcement Bars	POUND	-	10,000	10,000
Reinforcement Bars, Epoxy Coated	POUND	263,240	102,190	365,430
Bar Splicers	EACH	1,206	710	1,916
Furnishing Steel Piles HP12x53	FOOT	-	1,411	1,411
Driving Piles	FOOT	-	1,411	1,411
Test Pile Steel HP12x53	EACH	-	2	2
Pile Shoes	EACH	-	36	36
Temporary Sheet Piling	SQ FT	-	657	657
Name Plates	EACH	1	-	1
Drilled Shaft in Soil	CU YD	-	120	120
Drilled Shaft in Rock	CU YD	-	26	26
Anchor Bolts, 1"	EACH	112	-	112
Geocomposite Wall Drain	SQ YD	-	182	182
Pipe Underdrains for Structures 4"	FOOT	-	302	302
Drainage Scuppers, DS-II	EACH	4	-	4
Underwater Structure Excavation Protection - Location 1	EACH	-	1	1
Underwater Structure Excavation Protection - Location 2	EACH	-	1	1
Mechanical Splicers	EACH	-	288	288
Asbestos Bearing Pad Removal	EACH	-	38	38

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WATERWAY INFORMATION

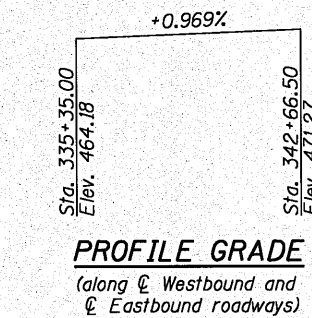
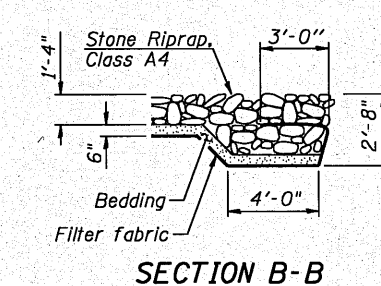
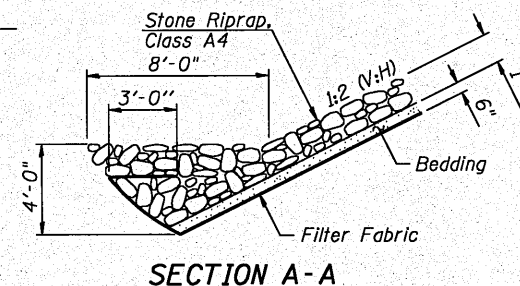
Drainage Area = 42.35 mi² Existing Low Grade Elev. 463.10 @ Sta. 334+00.00
Proposed Low Grade Elev. 462.99 @ Sta. 334+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
10	5080	1374	1902	2486	455.90	459.40	0.79	0.42	456.69	456.32
Design	50	8170	2004	2703	460.63	460.63	1.18	0.42	461.81	461.05
Base	100	9600	2059	2703	460.63	460.63	1.18	0.42	461.81	461.05
Overtopping										
Max. Calc.	500	13100	2059	2908	461.77	461.77	2.15	0.39	463.92	462.16

10 Year Velocity through Existing Bridge = 3.9 fps
10 Year Velocity through Proposed Structure = 2.6 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	E. Abut.	Pier 1	Pier 2	W. Abut.
	457.9	427.4	428.8	459.9



ELEVATION VIEW OF TEMPORARY SHEET PILING
LOOKING SOUTH AT EAST ABUTMENT,
LOOKING NORTH AT WEST ABUTMENT

DESIGNED J.A.Z.
CHECKED J.J.G.
DRAWN E.E.J.
CHECKED J.A.Z.

GENERAL NOTES & TOTAL BILL OF MATERIAL
U.S. ROUTE 24 & IL ROUTE 9 OVER LA MARSH CREEK
STATION 337+89.89 STRUCTURE NO. 072-0228

SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S2 OF 39 SHEETS	317	45BR-2	PEORIA	122	50
			CONTRACT NO. 68719		
10-15-10		ILLINOIS FED. AID PROJECT			

GRAEF 8501 W. Higgins Road, Suite 280
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(773) 399-0112

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