

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
- Calculated weight of Structural Steel = 1,544,000 lbs.
- 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.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8" (0.01'). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete sealer shall be applied to the backwalls, seats, and front face of the abutments.
- The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat shall match color SW7680 "Lanyard" with RGB Value R-191, G-153, B-116. See Special Provision for "Cleaning and Painting New Metal Structures".
- Layout of slope protection system may be varied to suit ground conditions in the field 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 obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water. This shall include the placement of material for run-arounds, causeways, temporary bridge, etc. Any permit application by the Contractor shall refer to the IDNR 3708 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- Seal coat thickness design is based on the Cofferdam Design Water Elevation (CDWE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
- Reinforcement bar lap splices shall be Class C. Top bars so placed that more than 12 inches of concrete is cast below the reinforcement shall be lapped for 1.4 x basic lap. Reinforcement bar splices shall be in accordance with the following table unless shown otherwise on the drawing.

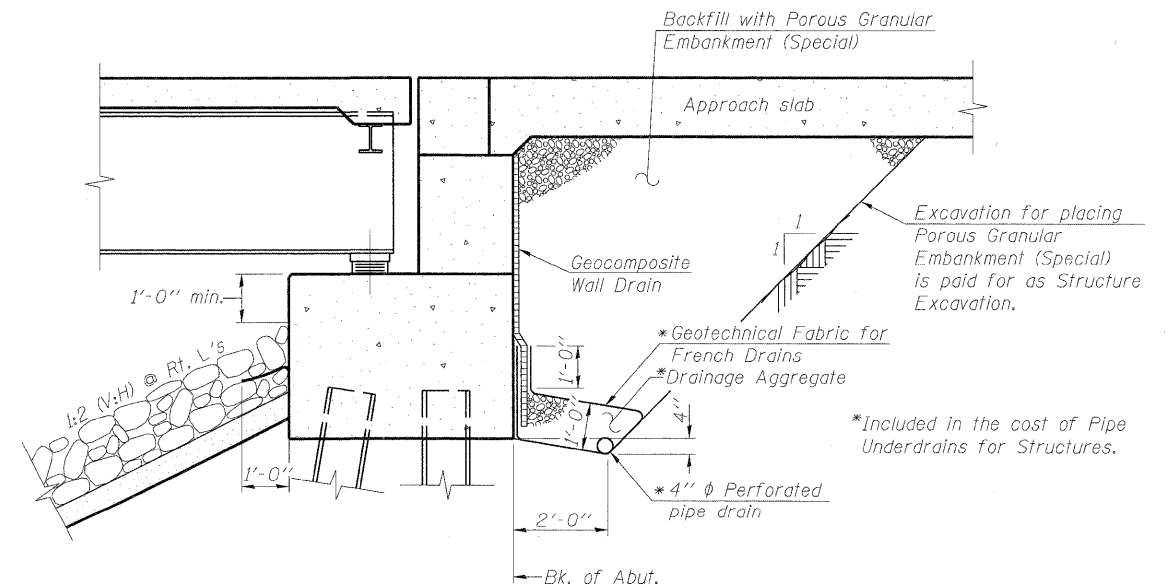
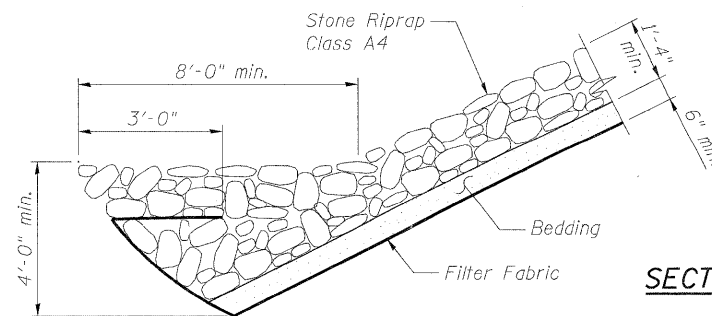
Bar Size	Basic Lap	1.4 Basic Lap
#4	2'-7"	2'-11"
#5	3'-3"	3'-8"
#6	3'-10"	4'-5"
#7	5'-2"	5'-10"
#8	6'-9"	7'-8"
#9	8'-7"	9'-8"
#10	10'-10"	12'-4"
#11	13'-4"	15'-1"
- Conduit shall not be installed until after the deck has been completed.

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TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.	-	187	187
Stone Riprap, Class A4	Sq. Yd.	-	792	792
Portland Cement Concrete Sidewalk 5 Inch	Sq. Ft.	-	227	227
Structure Excavation	Cu. Yd.	-	220	220
Cofferdam Excavation	Cu. Yd.	-	1,458	1,458
Cofferdam (Type 2) (Location - 1)	Each	-	1	1
Cofferdam (Type 2) (Location - 2)	Each	-	1	1
Cofferdam (Type 2) (Location - 3)	Each	-	1	1
Cofferdam (Type 2) (Location - 4)	Each	-	1	1
Cofferdam (Type 2) (Location - 5)	Each	-	1	1
Concrete Structures	Cu. Yd.	-	2,301.9	2,301.9
Concrete Superstructure	Cu. Yd.	1,257.7	-	1,257.7
Bridge Deck Grooving	Sq. Yd.	4,052	-	4,052
Seal Coat Concrete	Cu. Yd.	-	734	734
Concrete Encasement	Cu. Yd.	10.6	-	10.6
Protective Coat	Sq. Yd.	4,898	-	4,898
Stud Shear Connectors	Each	14,277	-	14,277
Reinforcement Bars, Epoxy Coated	Pound	382,300	255,900	638,200
Bar Splicers	Each	-	72	72
Furnishing Steel Piles HP12x53	Foot	-	2,588	2,588
Furnishing Steel Piles HP14x73	Foot	-	8,866	8,866
Driving Piles	Foot	-	11,454	11,454
Test Pile Steel HP12x53	Each	-	4	4
Test Pile Steel HP14x73	Each	-	5	5
Pile Shoes	Each	-	218	218
Name Plates	Each	1	-	1
Anchor Bolts, 1"	Each	-	140	140
Anchor Bolts, 1/2"	Each	-	40	40
Concrete Sealer	Sq. Ft.	-	1,053	1,053
Geocomposite Wall Drain	Sq. Yd.	-	86	86
Pipe Underdrains for Structures, 4"	Foot	-	182	182
High-Load Multi-Rotational Bearings, Guided Expansion, 200K	Each	10	-	10
High-Load Multi-Rotational Bearings, Guided Expansion, 450K	Each	25	-	25
Furnishing and Erecting Structural Steel Bridge No. 2	L. Sum	1	-	1
Modular Expansion Joint 9"	Foot	73	-	73
Steel Railing (Special)	Foot	3,087	-	3,087
Drainage Scuppers, DS-33	Each	13	-	13
Drainage System	L. Sum	1	-	1
Anti-Graffiti Coating	Sq. Ft.	-	18,703	18,703
Anti-Graffiti Protection System	Sq. Ft.	-	839	839
Form Liner Textured Surface (Special)	Sq. Ft.	-	839	839



Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

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FILE NAME =	USER NAME =	DESIGNED -	REVISED -
0456024_002.dNotes.dgn	akeaschell	MFH	-
		CHECKED -	REVISED -
		AJK	-
		DRAWN -	REVISED -
		MFH	-
		CHECKED -	REVISED -
		AJK	-
		PLOT SCALE =	
		PLOT DATE =	11/9/2011



CITY OF ST. CHARLES

GENERAL NOTES, INDEX OF SHEETS AND TOTAL BILL OF MATERIALS
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER

SHEET NO. S2 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	224
				CONTRACT NO. 63650
ILLINOIS FED. AID PROJECT				