F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3578	15V B-1-R-1	COOK	243	91
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 62388

GENERAL NOTES

1. Fasteners shall be high strength bolts. Bolts M22, open holes 24mm ϕ, unless otherwise noted.
2. Calculated mass of structural steel: M270M Grade 345 = 7860 kg
3. No field welding is permitted except as specified in the contract documents.
4. Anchor bolts shall be set before bolting diaphragms over supports.
5. The structural steel bearing plates of the Elastomeric Bearing Assembly & the plates of the Steel Extensions shall conform to the requirements of AASHTO M270M Grade 345.
6. The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams and all splice plate material except fill plates.
7. Reinforcement bars shall conform to the requirements of ASTM A706M Grade 420. See Special Provisions.
8. Reinforcement bars designated (E) shall be epoxy coated.
9. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
10. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
11. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 3 mm. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two 3 mm adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two 3 mm adjusting shims shall be provided for each bearing and placed as detailed.
12. 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.
13. Concrete Sealer shall be applied to the seat area of the abutments and Piers 6, 11 and 15.
14. 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:
    a. At least 72 hours shall have elapsed from the end of the previous pour.
    b. The concrete strength shall have attained a minimum flexural strength of 4.5 MPA or a minimum compressive strength of 24 MPA.
15. All construction joints shall be bonded.
16. All dimensions are in millimeters (mm) except as noted.
17. 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 reddish brown Munsell No. 2.5YR 3/4. See special provision for "Cleaning and Painting New Metal Structures". The SSPC QP-1 Painting Contractor Certification will be required for this contract. Field painting of new structural steel provided by the Fabrication Contract is included in this contract. All work for Cleaning and Painting Structural Steel provided by the Fabrication Contract will not be paid for separately but shall be considered as included in the contract unit price for Erecting Structural Steel. The cost associated with shop priming the new Structural Steel provided by the Fabrication Contract will be included in that contract.
18. Prior to beginning any work within or above the railroad right-of-way, the Contractor shall comply with the requirements set forth by Articles 107.11and 107.12 of the Standard Specifications.
19. The Contractor is solely responsible for arranging access to the site with the necessary property owners. In addition, the contractor is advised of overhead utility lines that may potentially interfere with certain construction equipment. The Contractor shall use appropriate equipment that provides adequate clearance to the utility lines or make arrangements with the respective utility companies to accommodate his specific equipment. No additional compensation will be considered for gaining access to the site, or addressing utility accommodations or any associated delays.
20. See the General Notes on Sheet 2 for notes regarding access to the railroad right-of-way.
21. See Sheet SA 8 for salvaging of existing structural supports.
22. Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.
23. Protective coat shall be applied to the entire surface of the sidewalk barrier.
24. If the Contractor's procedures for existing beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of ExistingStructures.
25. 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 of the superstructure.
26. Slipforming of the concrete parapets is not allowed.

PATRICK ENGINEERING INC.
LISLE, ILLINOIS

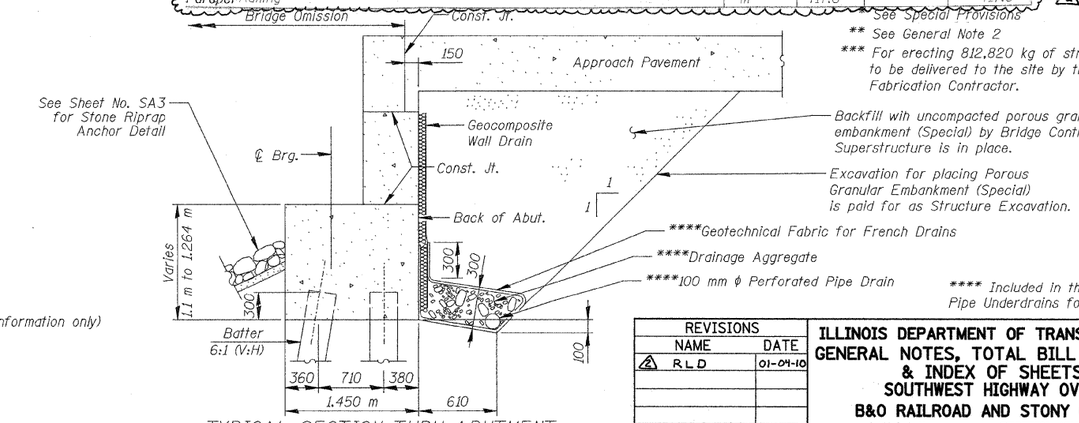
INDEX OF SHEETS

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
*	Porous Granular Embankment, Special	Cu m		171	171
	Stone Riprap, Class A4	Sq m		623	623
	Filter Fabric	Sq m		623	623
	Removal of Existing Structures	Each		1	1
	Concrete Removal	Cu m	85.8	12.5	98.3
	Structure Excavation	Cu m		1,491	1,491
	Cofferdam Excavation	Cu m		560	560
	Cofferdam (Location - 1)	Each		1	1
	Cofferdam (Location - 2)	Each		1	1
	Concrete Structures	Cu m		1,378.7	1,378.7
	Concrete Superstructure	Cu m	1,798.2		1,798.2
	Bridge Deck Grooving	Sq m	4,971		4,971
	Seal Coat Concrete	Cu m		155.5	155.5
	Protective Coat	Sq m	7,366	16	7,382
**	Furnishing and Erecting Structural Steel	kg	7,860		7,860
***	Erecting Structural Steel	L Sum	1		1
	Stud Shear Connectors	Each	26,160		26,160
	Reinforcement Bars, Epoxy Coated	kg	255,760	91,520	347,280
	Elastomeric Bearing Assembly, Type I	Each	72		72
	Elastomeric Bearing Assembly, Type II	Each	46		46
	Furnishing Steel Piles HP310X79	m		3,599.2	3,599.2
	Driving Piles	m		3,599.2	3,599.2
	Test Pile Steel HP310X79	Each		7	7
	Pile Shoes	Each		276	276
	Name Plates	Each	1		1
	Concrete Sealer	Sq m		99	99
	Geocomposite Wall Drain	Sq m		109	109
*	Pipe Underdrains for Structures 100mm	m		64	64
*	Temporary Soil Retention System	Sq m		61.6	61.6
	Bicycle Railing	m	417.6		417.6
	Protective Shield	Sq m	371.4		371.4
	Drainage Scuppers, DS-11	Each	34		34
	Bar Splicers	Each	3,567	418	3,985
*	Jacking Existing Superstructure	L Sum			1
*	Tie-Rod Assemblies	Each		24	24
	Anchor Bolts, M24	Each		40	40
*	Anchor Bolts, M30	Each		136	136
	Anchor Bolts, M36	Each		196	196
	Preformed Joint Strip Seal	m	64.3		64.3
*	Modular Expansion Joint 160mm	m	36.6		36.6
*	Cleaning Bridge Scuppers and Downspouts	Each	8.0		8.0
*	Mechanical Splicers	Each	1,094		1,094
*	Conduit Attached To Structure, 50 mm Dia, Rigid Galvanized Steel, PVC Coated	m	424		424
	Parapet Railing	m	417.6		417.6

2 See Special Provisions

* See Special Provisions
** See General Note 2
*** For erecting 812,820 kg of structural steel to be delivered to the site by the Fabrication Contractor.



**** Included in the cost of Pipe Underdrains for Structures

TYPICAL SECTION THRU ABUTMENT

Dimensions @ Rt. L's

All drainage system components shall extend to 600 mm from the end of each wingwall, exept an outlet pipe shall extend until intersecting with the side slopes. The pipe shall draininto concrete headwalls.

REVISIONS	
NAME	DATE
2 R.L.D	01-04-10

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL NOTES, TOTAL BILL OF MAT'L & INDEX OF SHEETS
SOUTHWEST HIGHWAY OVER B&O RAILROAD AND STONY CREEK

FAU 3578 SECTION 15V B-1-R-1
STRUCTURE NUMBER 016-2771
COOK COUNTY STATION 4+716.497

SCALE: NONE DRAWN BY: E. Mroozek
DATE: 6/17/09 CHECKED BY: G. Hatiestad