STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 3 in unpainted areas. Bolts $\frac{7}{8}$" ϕ. holes $\frac{15}{16}$" ϕ. unless otherwise noted.

2. Calculated weight of Structural Steel = 524,880 pounds.

3. All structural steel shall be AASHTO M 270 Grade 50W.

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

5. Slip forming of parapets is not allowed on this contract.

6. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.

7. Reinforcement bars designated (E) shall be epoxy coated.

8. 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.

9. Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of $\frac{1}{8}$" (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

10. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

11. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

12. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

13. 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.

14. Two $\frac{1}{8}$" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

15. Erection over the Railroad's right-of-way shall be designed to cause no interruption to the Railroad's operation, enabling the track(s) to remain open to traffic per the Railroad's requirements.

16. The elevation of the existing top-of-rail profile shall be verified before beginning construction. All discrepancies shall be brought to the attention of the Railroad prior to construction.

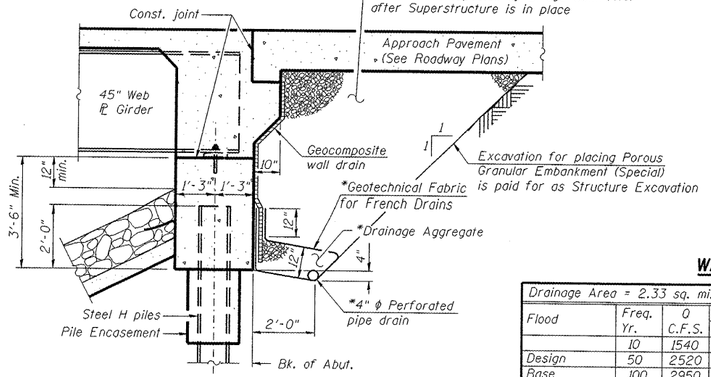
17. The proposed grade separation project shall not change the quantity and/or characteristics of the flow in the Railroad ditches and/or drainage structures.

18. Railroad requirements do not allow work within 50 feet of track centerline when a train passes the work site and all personnel must clear the area within 25 feet of the track centerline and secure all equipment.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu Yd		194	194
Stone Riprap, Class A4	Sq Yd	1.575		1.575
Filter Fabric	Sq Yd	1.575		1.575
Removal Of Existing Structures	Each		1	1
Protective Shield	Sq Yd		106	106
Structure Excavation	Cu Yd		530	530
Concrete Structures	Cu Yd		444.7	444.7
Concrete Superstructure	Cu Yd	704.9		704.9
Bridge Deck Grooving	Sq Yd	2,273		2,273
Concrete Encasement	Cu Yd		12.0	12.0
Protective Coat	Sq Yd	2,658		2,658
Furnishing And Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	8,100		8,100
Reinforcement Bars	Pound		32,900	32,900
Reinforcement Bars, Epoxy Coated	Pound	172,160	58,110	230,270
Bar Splicers	Each	1,303	124	1,427
Temporary Sheet Piling	L Sum		1	1
Furnishing Steel Piles HP10x42	Foot		1,520	1,520
Driving Piles	Foot		1,520	1,520
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each	1		1
Drilled Shaft In Soil	Cu Yd		65.7	65.7
Drilled Shaft In Rock	Cu Yd		66.0	66.0
Permanent Casing	Foot		185	185
Anchor Bolts, 1"	Each		36	36
Anchor Bolts, 1¼"	Each		36	36
Geocomposite Wall Drain	Sq Yd		153	153
Pipe Underdrains For Structures, 4"	Foot		236	236
Underwater Structure Excavation Protection - Location 1	Each		1	1
Drainage Scupper, DS-12	Each	6		6
REINFORCED SOIL SLOPE SYSTEM	Sq FT		7803	7803
Instrumented Piles	L Sum		1	1

2 Addendum 1/7/2009 PJL



SECTION THRU ABUTMENT
(Horiz. dim. ℄ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures

Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

INDEX OF SHEETS

STATION 45+42
BUILT BY
STATE OF ILLINOIS
F.A. RT. 6578 SEC. (1-R)RS(1-VC)BR
LOADING HL93
STRUCTURE NO. 072-0201

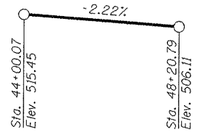
NAME PLATE
See Std. 515001

WATERWAY INFORMATION

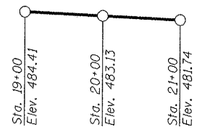
Drainage Area = 2.33 sq. mi. Low Grade Elev. 504.98' @ Sta. 48+33

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E. Exist.	Nat. H.W.E. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	1540	330	319	474.6	474.7	0.3	0.0	474.9	474.7
Design	50	2520	475	462	476.8	477.0	0.3	0.0	477.1	477.0
Base	100	2950	531	522	477.6	477.9	0.3	0.0	477.9	477.9
Overtopping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	4030	678	670	479.6	480.0	0.3	0.3	479.9	480.3

Max. H.W.E.: Unknown Exist. 10-yr. Velocity: 4.7 ft./sec. Prop. 10-yr. Velocity 4.8 ft./sec.



PROFILE GRADE
(Along ℄ Roadway)



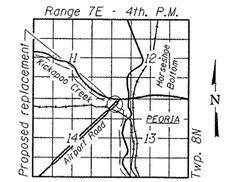
PROFILE GRADE
(Along ℄ Track)

LOADING HL 93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 LRFD Bridge Design Specifications, 4th. Edition

DESIGN STRESSES
f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50W)

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 0.05g
Site Coefficient (S) = 1.2



LOCATION SKETCH

DESIGN SCOUR TABLE

Design Scour Elevation	W. Abut.	Pier 1	Pier 2	E. Abut.
	506.6	478	462.2	499.4

DESIGNED	PJL
CHECKED	LLV
DRAWN	MGM
CHECKED	PJL

GENERAL NOTES, DESIGN DATA, INDEX OF SHEETS, & TOTAL BILL OF MATERIAL AIRPORT ROAD OVER U.P.R.R. AND KICKAPOO CREEK TRIBUTARY STATION 45+42.00

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SHEET NO. 2 OF 33 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6578	(1-R)RS(1-VC)BR	PEORIA	142	42
	STRUCTURE NO. 072-0201	CONTRACT NO. 68092		
	FED. ROAD DIST. NO. _ ILLINOIS	FED. AID PROJECT		