## GENERAL NOTES:

- 1. Fasteners shall be AASHTO M164 Type 3 bolts. Bolts  $7_8$  in.  $\phi$ , holes  $^{15}_{16}$  in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel = M270 Gr. 36 (ASTM A709 Gr. 36) = 98,380 lbs. M270 Gr. 50 (ASTM A709 Gr. 50) = 614,410 lbs.
- 3. No field welding is permitted except as specified in the contract documents.
- 4. Reinforcement bars shall conform to the requirements of ASTM A706 Gr. 60 (IL Modified). See Special Provisions.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{l}{g}$  in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 7. Concrete sealer shall be applied to the top of cap and face of steps at the abutments and piers.
- 8. 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 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".
- 9. Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- 10. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soll retention system design including plan details and calculations for review and acceptance by the Engineer and the Railroad. Allow 45 days advance submission for review.
- Provide waterstops at all construction joints. Waterstops shall be PVC 9" x <sup>3</sup>/<sub>8</sub>" Hollow Bulb (Bulb <sup>3</sup>/<sub>4</sub>" I.D., 1<sup>1</sup>/<sub>2</sub>" 0.D.) continuous across joint. Cost included with Concrete Structures.
- Only Submerged Arc Welding (SAW) or Shielded Metal Arc Welding (SMAW) may be used. No other process will be allowed.

## STRUCTURE TOTAL BILL OF MATERIAL

	UNIT	SUPER	SUB	TOTAL
Earth Excavation	Cu Yd			3584
Porous Granular Embankment	Çu Yd	h ~		148
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	62	[	62
Removal of Existing Structures	Each		1	1
Concrete Removal	Cu Yd			46.9
Structure Excavation	Cu Yd		784.8	784.8
Concrete Structures	Cu Yd		237.2	237.2
Concrete Superstructure	Cu Yd	41.0		41.0
Furnishing and Erecting Structural Steel	L Sum	1		1
Reinforcement Bars, Epoxy Coated	Pound	2640	211,080	213,720
Bar Splicers	Each		146	146
Pipe Handrail	Foot	284		284
Slope Wall 4 Inch	Sq Yd		484	484
Name Plates	Each			1
Drilled Shaft in Soll	Cu Yd		955.0	955.0
Membrane Waterproofing (Special)	Sq Ft	5649		5649
Concrete Sealer	Sq Ft		1198	1198
Pipe Underdrains for Structures 8"	Foot			60
Temporary Soil Retention System	Sq Ft			1637
Temporary Ballast Retainer (Installed & Removed)	Foot	142	1	142
Bridge Drainage System	L Sum	1		1
Ballast	Cu Yd	95		95
Sub-Ballast	Cu Yd			34
Anchor Bolts Il <sub>4</sub> "	Each		156	156

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
WINTER AVE.	99-00209-0I-PV	VERMILION		296	106
FED. ROAD DI	ST. NO.	ILLINOIS	PROJECT		

CONTRACT NO. 91358

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- 5. Substructure Layout
- 6. Typical Cross Section & Slopewall Details
- 7. Framing Plan and Moment & Shear Table
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- 9. Superstructure Details
- 10 Superstructure Details
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- 13. Bearing Details
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- 19. Pier 2
- 20. Pier Details and Bill of Materials
- 21. Bar Splicer Assembly Details
- 22. Drainage Details
- 23. Boring Logs BB-1
- 24. Boring Logs BB-2

GEI	GENERAL NOTES & BILL OF MATERIAL					
Designed	к₩В	CSX TRANSPORTATION R.R. OVER WINTER AVE.	Sheet No.			
Drawn	MLS	MP OZA 121.6 SECTION 99-00209-01-PV CITY OF DANVILLE, IL	2			
Checked	K₩B	VERMILION COUNTY STA. 5527+59-81				
Approved	KWB	PROP. STR. NO. 092-6039	of <b>24</b>			
UR		345 East Ash Avenue, Suite B Decatur, II. 62526	URS JOB NO. 36430866			

)ate Revisions

repared by