

GENERAL NOTES

- Fasteners shall be ASTM A325 Type I, hot-dipped galvanized bolts. Bolts 7/8" diameter, holes 15/16" diameter, unless otherwise noted. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Calculated weight of Structural Steel = 367,010 lbs.
M270 Grade 36: 35,390 lbs.
M270 Grade 50: 331,620 lbs.
- All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel".
- Girders have bearing stiffeners and connection plates as required by design. Additional stiffeners may be added at the Contractor's expense as necessary to prevent distortion of the girders during galvanizing. The Contractor shall coordinate with the fabricator and the galvanizer to determine if additional stiffeners are necessary, and where these should be placed. Any proposed changes shall be submitted to the Engineer for approval prior to making any changes.
- Temporary stiffener angles shall be bolted to each side of the splice ends of each girder segment to prevent distortion during galvanizing. Temporary stiffener angles shall bolt or fit tight against top & bottom flanges and include spacer tubes to minimize damage to galvanizing during removal. Cost included with Furn. & Erect. Structural Steel.
- No field welding is permitted except as specified in the contract documents.
- 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 girder 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 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the piers, abutments and MSE wall.
 - South Abutment - Bearing Seats, front face of Abutment and front face of Wingwalls.
 - MSE Wall - front face of MSE Wall, front face and top of Coping and top of Coping seal.
 - Pier 1 - All exposed concrete surfaces starting from 3'-0" above top of footing.
 - Pier 2 - All exposed concrete surfaces starting from 4'-0" above top of footing.
- The existing structural steel coating contains lead. The contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Areas of the existing bridge have permanent protective shield in place. If any part of the existing permanent protective shield system is to be re-used as temporary protective shield, the Contractor shall submit design calculations to the Engineer proving the system meets the requirements of Article 501.03 of the Standard Specifications. The calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer. Removal of the existing protective shield is included with Removal of Existing Structures.
- Existing substructures to be removed to bottom of footing. Cost included with Removal of Existing Structures.

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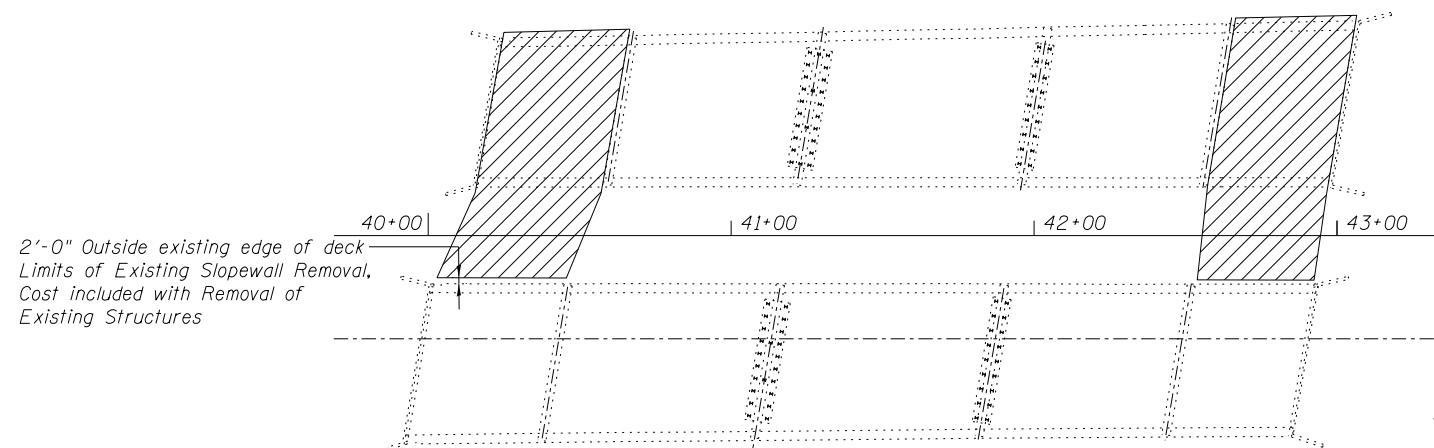
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For existing bridge plans, see Sheets SAX1 thru SAX8, immediately following Sheet SA43.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* Removal of Existing Structures No. 1	Each	1	-	1
Protective Shield	Sq Yd	1,137	-	1,137
Structure Excavation	Cu Yd	-	1,518	1,518
Concrete Structures	Cu Yd	-	427.8	427.8
Concrete Superstructure	Cu Yd	512.7	-	512.7
Bridge Deck Grooving	Sq Yd	1,849	-	1,849
Concrete Encasement	Cu Yd	-	5.2	5.2
Form Liner Textured Surface	Sq Ft	-	306	306
Protective Coat	Sq Yd	2,197	-	2,197
Furnishing and Erecting Structural Steel	L Sum	0.49	-	0.49
Stud Shear Connectors	Each	8,505	-	8,505
Reinforcement Bars, Epoxy Coated	Pound	142,310	59,310	201,620
Slope Wall 4 Inch	Sq Yd	-	246	246
Furnishing Steel Piles HP12x53	Foot	-	2,644	2,644
Driving Piles	Foot	-	2,644	2,644
Test Pile Steel HP12x53	Each	-	4	4
Pile Shoes	Each	-	72	72
Name Plates	Each	1	-	1
Preformed Joint Strip Seal	Foot	118	-	118
Elastomeric Bearing Assembly, Type I	Each	21	-	21
Anchor Bolts, 1 1/4"	Each	-	42	42
Anchor Bolts, 1 1/2"	Each	-	14	14
Concrete Sealer	Sq Ft	-	5,894	5,894
Geocomposite Wall Drain	Sq Yd	-	60	60
Temporary Mechanically Stabilized Earth Retaining Wall	Sq Ft	-	336	336
Concrete Wearing Surface, 5"	Sq Yd	382	-	382
Precast Bridge Approach Slab	Sq Ft	3,276	-	3,276
Granular Backfill For Structures	Cu Yd	-	111	111
Mechanically Stabilized Earth Retaining Wall	Sq Ft	-	1,898	1,898
Pipe Underdrains For Structures 4"	Foot	-	88	88
Temporary Soil Retention System	Sq Ft	-	2,344	2,344

* Includes removal of existing protective shield located between each girder - full length of bridge.



2'-0" Outside existing edge of deck
Limits of Existing Slopewall Removal,
Cost included with Removal of
Existing Structures

REMOVAL LIMITS OF EXISTING SLOPEWALL