

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	---	87	87
Concrete Removal	Cu. Yd.	---	37.5	37.5
Slopedwall Removal	Sq. Yd.	---	168	168
Removal of Existing Concrete Deck	Each.	1	---	1
Protective Shield	Sq. Yd.	356	---	356
Structure Excavation	Cu. Yd.	---	108	108
Floor Drains	Each	9	---	9
Concrete Structures	Cu. Yd.	---	96.7	96.7
Concrete Superstructure	Cu. Yd.	417.8	---	417.8
Bridge Deck Grooving	Sq. Yd.	1155	---	1155
Protective Coat	Sq. Yd.	1463	---	1463
Structural Repair of Concrete (Depth Equal to or Less Than 5")	Sq. Ft.	---	158	158
Furnishing and Erecting Structural Steel	Pound	9083	---	9083
Stud Shear Connectors	Each	860	---	860
Jack and Remove Existing Bearings	Each	12	---	12
Structural Steel Repair	Pound	3223	---	3223
Cleaning and Painting Steel Bridge	L. SUM	1	---	1
Containment and Disposal of Lead Paint Cleaning Residues	L. SUM	1	---	1
Reinforcement Bars, Epoxy Coated	Pound	124,830	7,590	132,420
Bar Splicers	Each	---	125	125
Concrete Sealer	Sq. Ft	---	978	978
Slopedwall, 4"	Sq. Yd.	---	168	168
Name Plates	Each	1	---	1
Preformed Joint Strip Seal	Foot	69	---	69
Elastomeric Bearing Assembly, Type I	Each	8	---	8
Elastomeric Bearing Assembly, Type II	Each	4	---	4
Anchor Bolt 1/4"	Each	16	---	16
Anchor Bolt 1/2"	Each	8	---	8
Geocomposite Wall Drain	Sq. Yd.	---	35	35
Pipe Underdrains for Structures, 4"	Foot	---	182	182
Conduit Embedded in Structure 2" Dia., PVC	Foot	354	---	354
Junction Box, Stainless Steel, Embedded in Structure 12" X 10" X 6"	Each	2	---	2
Modular Expansion Joint - Swivel 6"	Foot	63	---	63

PRIOR TO REMOVAL OF CONCRETE DECK, REVIEW SHEET 19 OF 33.

GENERAL NOTES

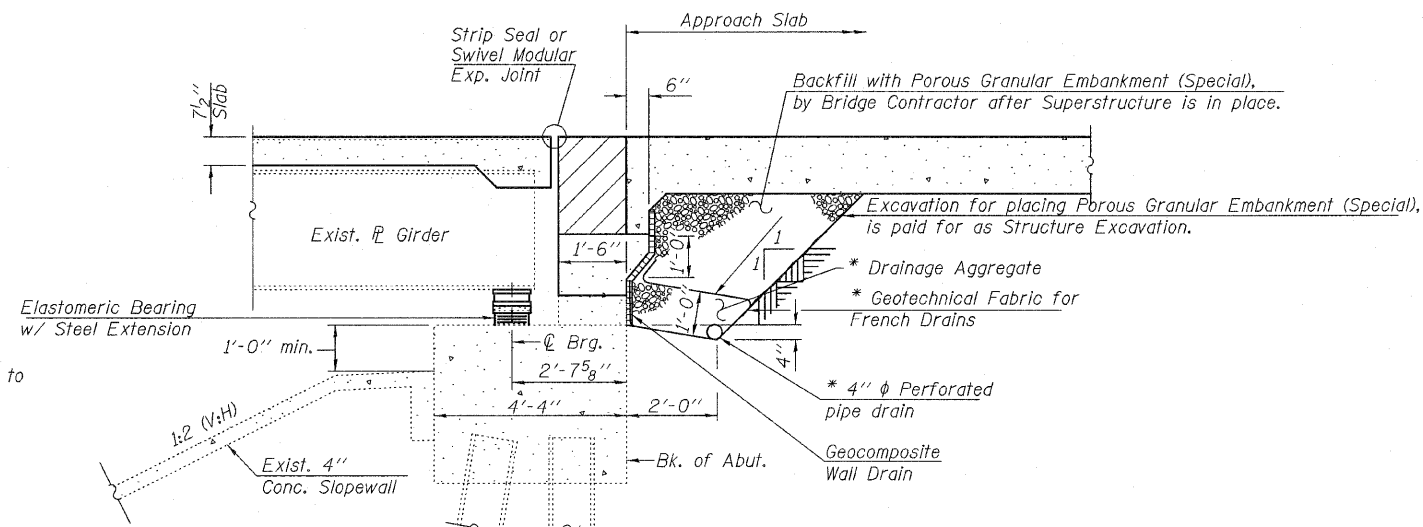
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 7/8 in. ϕ , holes 1 in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 9,083 pounds
- No field welding is permitted except as specified in the contract 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.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
As directed by the Engineer, existing construction accessories welded to the top flange of girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.
Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- If the Contractor elects to use cantilever forming brackets on the exterior 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.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Cleaning and painting of the existing structural steel shall be as specified in the Special Provision "Cleaning and Painting Existing Steel Structures." All existing steel shall be cleaned per Near White Blast Cleaning SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1-QZ/E/U. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom of bottom flange of fascia beams shall be Blue, Munsell No. 10B 3/6.
- Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
- The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.

- Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- Slopedwall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- This structure will retain the same number 101-0123

All new structural steel shall be painted with an inorganic zinc-rich primer per AASHTO M300, Type 1.

SCOPE OF WORK

- Remove and replace existing concrete deck.
- Install stud shear connectors in positive moment areas of Span 3.
- Remove existing rocker bearings at abutments and Pier 2 and replace with elastomeric bearings.
- Remove and replace approach slabs.
- Partially remove and reconfigure wingwalls and abutment back wall to account for widening.
- Repair abutments, piers and slopedwalls.
- Retrofit ends of all existing girders with steel plates and angles.
- Clean and paint existing structural steel.



SECTION THRU PILE SUPPORTED

STUB ABUTMENT
(Horiz. dim. \odot Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend 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.)

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GENERAL DATA
STRUCTURE NO. 101-0123

DESIGNED PRD
CHECKED KPS
DRAWN PRD
CHECKED KPS

rjngroup
Excellence through Ownership
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Wheaton, IL 60187
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SHEET NO. 2 OF 33 SHEETS	F.A.P. & F.A.U. RTE. & RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	303 5146	1-HBR & 1-2HB-D	WINNEBAGO	216	118
			CONTRACT NO. 64B79		
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT					