

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.

Calculated weight of Structural Steel = 483,010 lbs. (M270, Gr. 50)  
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 beam 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 inch (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 abutments.  
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 of the exterior surface and the bottom of the bottom flange of fascia beams, 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 Blue Munsell No. 10B 3/6.

Slipforming of the parapets is not allowed.  
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

For each construction stage, this work shall be completed according to Article 503.06(b) of the standard specifications, except as modified below:

The finishing machine rails shall be placed on the top flange of exterior girders. The girders supporting cantilever forming brackets shall be tied together at a maximum of 4 foot intervals.  
The 4x4 in. Hardwood Beam Blocks shall be installed between the webs of girders in each bay prior to deck pours and shall not be removed until the concrete has attained the required compressive strength and the curing period is completed.  
An alternate procedure may be submitted by the Contractor and for review and approval of the Engineer. If the proposed finishing machine rails are located outside the exterior girders, the Contractor will be required to mitigate unbalanced force effects on the exterior girders and/or excessive rotation of the cantilever forming brackets during deck pours. If the Contractor elects to use an alternate procedure, the Contractor shall submit design calculations and detailed plans, prepared and sealed by an Illinois Licensed Structural Engineer. Such submission does not guarantee approval by the Engineer of the alternate procedure.

The Contractor shall retain the services of an Engineer Firm, prequalified in the IDOT Consultant Selection Category of Highway and Bridges (Advance Typical), for preparation of the Structural Assessment Report(s). Contractors pre-approval shall not be applicable for this project. See Special Provisions.

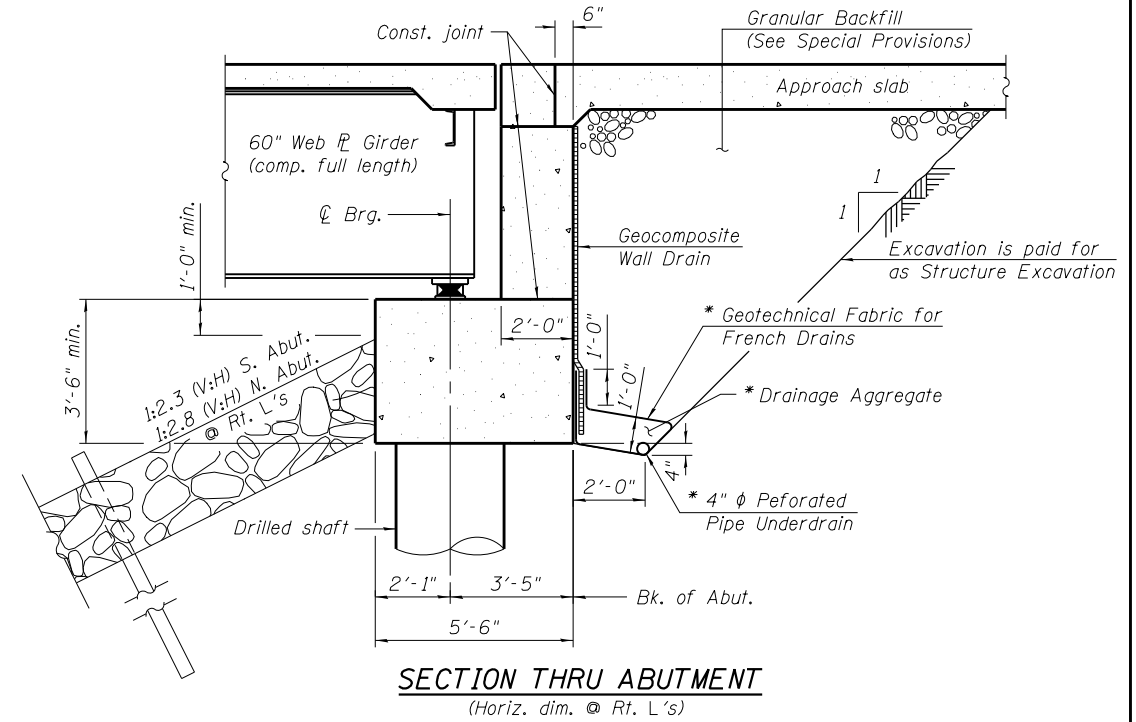
Current Rating On File For Existing Structure

Inventory : HS 12.1  
Operating : HS 25.0  
Live Load Restrictions : No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS Loading and Configuration. Live Load Restrictions are based on Illinois Legal Loads and Configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		488	488
Filter Fabric	Sq. Yd.		1,341	1,341
Slope Mattress 24"	Sq. Yd.		853	853
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		738	738
Floor Drains	Each	20		20
Concrete Structures	Cu. Yd.		246.6	246.6
Concrete Superstructure	Cu. Yd.	569.0		569.0
Bridge Deck Grooving	Sq. Yd.	1,190		1,190
Protective Coat	Sq. Yd.	2,080		2,080
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,816		3,816
Reinforcement Bars	Pound		7,350	7,350
Reinforcement Bars, Epoxy Coated	Pound	139,570	44,400	183,970
Bar Splicers	Each	1,118	337	1,455
Name Plates	Each	1		1
Permanent Casing	Foot		35	35
Drilled Shaft in Soil	Cu. Yd.		32.8	32.8
Drilled Shaft in Rock	Cu. Yd.		40.6	40.6
Preformed Joint Strip Seal	Foot	101		101
Elastomeric Bearing Assembly, Type I	Each		12	12
Anchor Bolts, 1"	Each		24	24
Anchor Bolts, 1 1/4"	Each		12	12
Concrete Sealer	Sq. Ft.		1,401	1,401
Geocomposite Wall Drain	Sq. Yd.		91	91
Concrete Bridge Rail, Sidewalk Mounted	Foot	507		507
Concrete Bridge Railing	Foot		70	70
Construction Vibration Monitoring	L. Sum	1		1
Granular Backfill for Structures	Cu. Yd.		203	203
Asbestos Bearing Pad Removal	Each		68	68
Drainage Scupper, DS-II	Each	4		4
Pipe Underdrains for Structures, 4"	Foot		132	132
Temporary Soil Retention System	Sq. Ft.		816	816
Temporary Shoring	Each		2	2
Temporary Support System	L. Sum		1	1
Removal of Lighting Unit, Salvage	Each	8		8



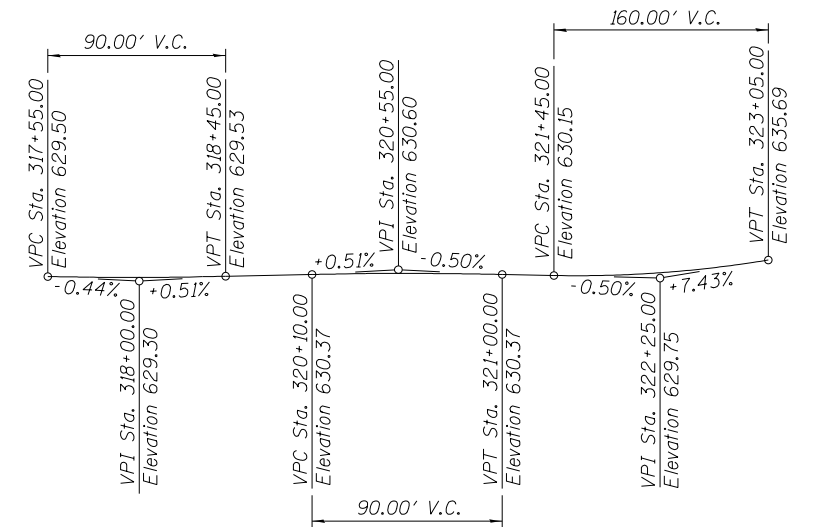
\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

**Note:**

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, if necessary and follow the pipe layout shown on sheet 3 of 60. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

**CURVE DATA**

Δ = 9° 57' 27" (LT)  
D = 1° 35' 52"  
T = 312.39'  
L = 623.22'  
E = 13.58'  
R = 3,585.97'  
P.C. = Sta. 316+72.19  
P.T. = Sta. 322+95.40  
P.I. = Sta. 319+84.58



STATION 319+93.60  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RT. 308 SEC. 103BR-4  
LOADING HL-93  
STRUCTURE NO. 043-0080

**NAME PLATE**  
See Std. 515001



USER NAME = dheber.ling	DESIGNED - SBC	REVISED
FILE NAME = 0430028-64E08.dgn	CHECKED - BRD	REVISED
PLOT SCALE = 0:2.00000 '1' / in.	DRAWN - DLH	REVISED
PLOT DATE = 10/2/2013	CHECKED - SBC	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
STRUCTURE NO. 043-0080  
SHEET NO. 2 OF 60 SHEETS

F.A.P. RTE. 308	SECTION 103BR-4	COUNTY JoDAVISS	TOTAL SHEETS 159	SHEET NO. 52
CONTRACT NO. 64E08				
ILLINOIS FED. AID PROJECT				