

**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 15/16 in. φ, unless otherwise noted.

Calculated weight of Structural Steel = 125,850 lb.

All structural steel shall be AASHTO M 270 Grade 50W. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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.

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.

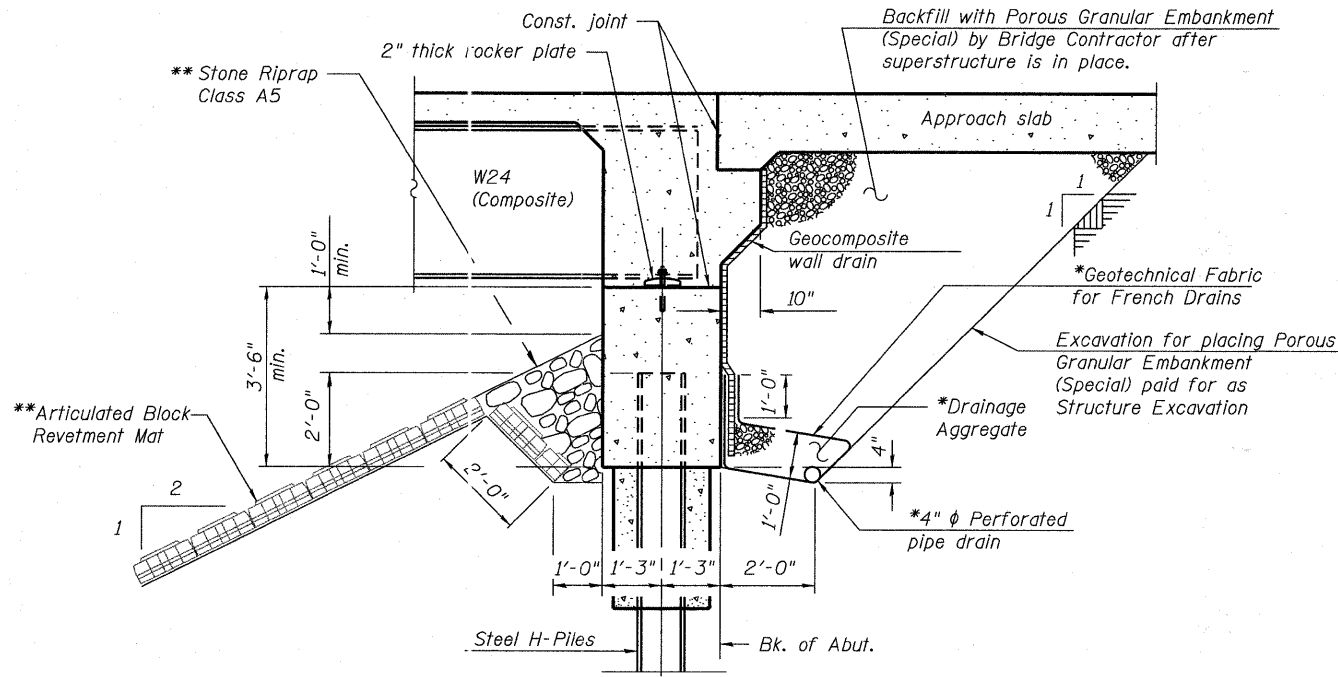
Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

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

The contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for removal. See Special Provision for "Demolition Plans for Removal of Existing Structures".

\*\*\* A temporary cofferdam system is shown in the Erosion and Sediment Control Details for the installation of articulated concrete block revetment. Contractor shall coordinate Underwater Structure Excavation Protection with this work.



**SECTION THRU INTEGRAL ABUTMENT**

\*Included in the cost of Pipe Underdrains for Structures.

\*\*Included in the cost of revetment mat items, see Roadway Plans.

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). \*

NIPPERSINK CREEK  
BUILT 201 BY McHENRY COUNTY  
DIVISION OF TRANSPORTATION  
SEC. 08-00355-00-BR  
STA. 213+03.19  
STR. NO. 056-3191 LOADING HL-93

**NAME PLATE**  
See Std. 515001

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**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.	-	113	113
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	267	267
Concrete Structures	Cu. Yd.	-	84.9	84.9
Concrete Superstructure	Cu. Yd.	386.4	-	386.4
Bridge Deck Grooving	Sq. Yd.	584	-	584
Concrete Encasement	Cu. Yd.	-	61.0	61.0
Protective Coat	Sq. Yd.	1,095	-	1,095
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	3,276	-	3,276
Reinforcement Bars, Epoxy Coated	Pound	81,350	8,210	89,560
Bar Splicers	Each	82	-	82
Furnishing Steel Piles HP 14X73	Foot	-	1,222	1,222
Test Pile, Steel HP 14X73	Each	-	4	4
Driving Piles	Foot	-	1,222	1,222
Name Plates	Each	1	-	1
Anchor Bolts, 1" φ	Each	-	48	48
Geocomposite Wall Drain	Sq. Yd.	-	52	52
Pipe Underdrains for Structures, 4"	Foot	-	122	122
Parapet Railing	Foot	354	-	354
Slope Wall Removal	Sq. Yd.	-	440	440
Form Liner Textured Surface, Special	Sq. Ft.	1,691	-	1,691
*** Underwater Structure Excavation Protection-Location 1	Each	-	1	1
*** Underwater Structure Excavation Protection-Location 2	Each	-	1	1

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