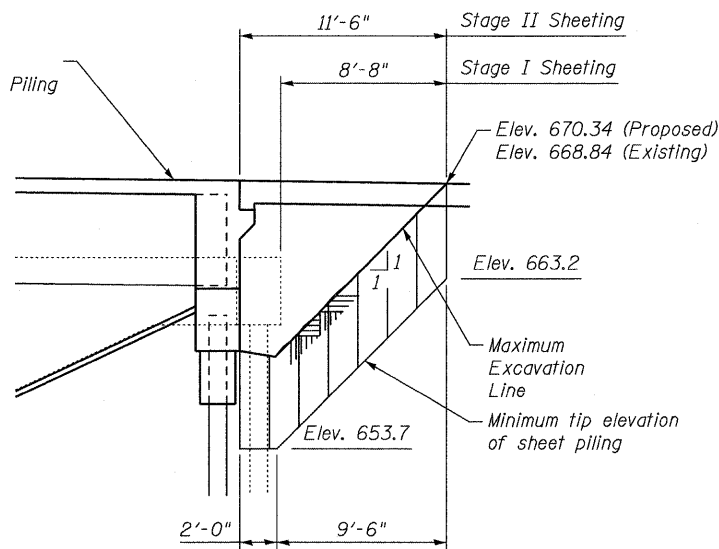


**** TEMPORARY SOIL RETENTION SYSTEM
SOUTH ABUTMENT**

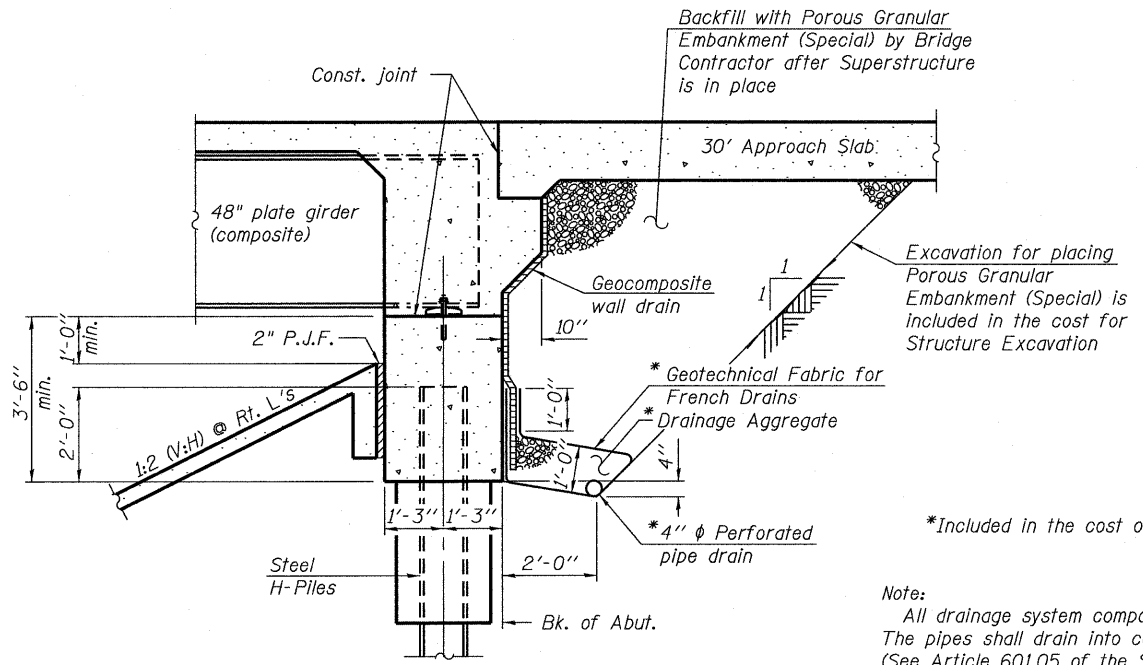


***** TEMPORARY SHEET PILING
NORTH ABUTMENT**

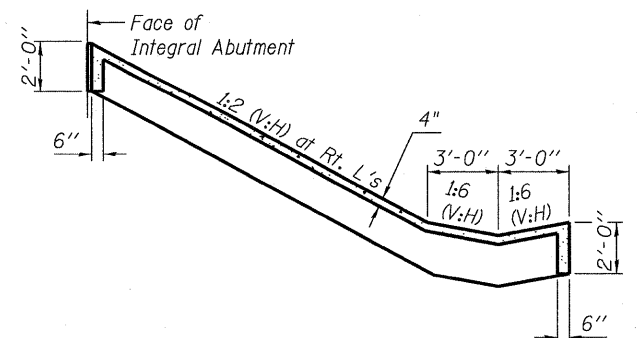
Minimum section Modulus of Sheet Piling = 5.0 in³/ft

GENERAL NOTES

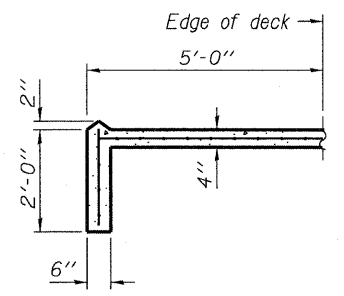
Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
 Calculated weight of Structural Steel = 891,054 lbs., Grade 50, 75,980 lbs., Grade 36
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 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.
 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.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
 The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. 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 gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
 The contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of the piles.
 Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in.-W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft..



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



SECTION THRU CONCRETE SLOEWALL



SECTION A-A

Notes:
 ** 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 soil retention system design including plan details and calculations for review and acceptance by the Engineer.
 *** If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

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- 2 General Notes and Total Bill of Material
- 3 Stage Construction Details
- 4 Temporary Concrete Barrier
- 5-12 Top of Slab Elevations
- 13-14 Top of Slab Elevations Approach Slabs
- 15-16 Superstructure
- 17 Superstructure Details
- 18 Diaphragm Details
- 19 Drainage Scupper Details
- 20-21 Bridge Approach Slab Details
- 22 Framing Plan
- 23 Structural Steel Details
- 24 Bearing Details
- 25-26 Abutments
- 27 Pier
- 28 Pier Details
- 29 Steel Pile Details
- 30 Bar Splicer (Coupler) Details
- 31 Concrete Parapet Slipforming Option
- 32-36 Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			711
Porous Granular Embankment (Special)	Cu. Yd.			446
Concrete Structures	Cu. Yd.		424.8	424.8
Concrete Superstructure	Cu. Yd.	1382.5		1382.5
Protective Coat	Sq. Yd.	4339		4339
Bridge Deck Grooving	Sq. Yd.	4059		4059
Reinforcement Bars, Epoxy Coated	Lb.	309,950	80,460	390,410
Bar Splicers	Each	2328	280	2608
Furnishing Steel Piles HP 12x63	Ft.		1275	1275
Furnishing Steel Piles HP 14x73	Ft.		3551	3551
Driving Piles	Ft.		4826	4826
Test Piles Steel, HP 12x63	Each		2	2
Test Piles Steel, HP 14x73	Each		1	1
Name Plates	Each	1		1
Furnishing and Erecting Structural Steel	L. Sum			1
Stud Shear Connectors	Each	11,712		11,712
Pipe Underdrains for Structures, 4"	Ft.			824
Drainage Scuppers, DS-11	Each	4		4
Sloewall 4"	Sq. Yd.			1300
Temporary Sheet Piling	Sq. Ft.			292
Protective Shield	Sq. Yd.			3709
Concrete Encasement	Cu. Yd.		40.7	40.7
Geocomposite Wall Drain	Sq. Yd.			228
Anchor Bolts, 1"	Each			64
Anchor Bolts, 1 1/2"	Each			32
Temporary Soil Retention System	Sq. Ft.		118	118
Mechanical Splicers	Each		180	180
Temporary Support System	L. Sum		1	1

**GENERAL NOTES AND TOTAL
BILL OF MATERIAL
STRUCTURE NO. 058-0136**

	PROJECT NO. 08052-6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE	322	(58-64HB-1)B-1	MACON	149	61
	DATE 1/18/10	36 SHEETS		CONTRACT NO. 74387		
DESIGN BY BD	FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	
DRAWN BY TFG						
CHECKED BY MCB						