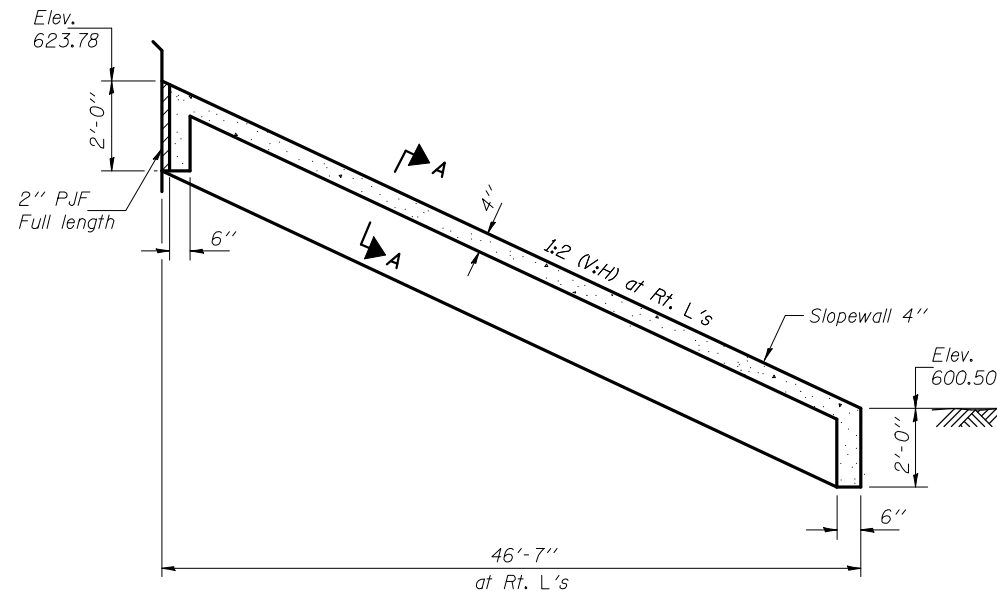
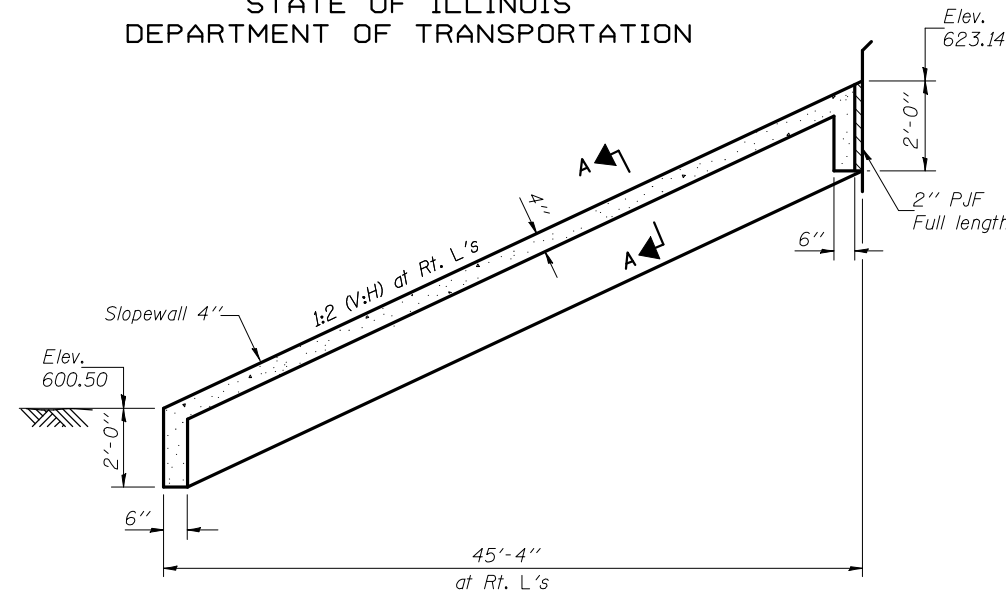


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



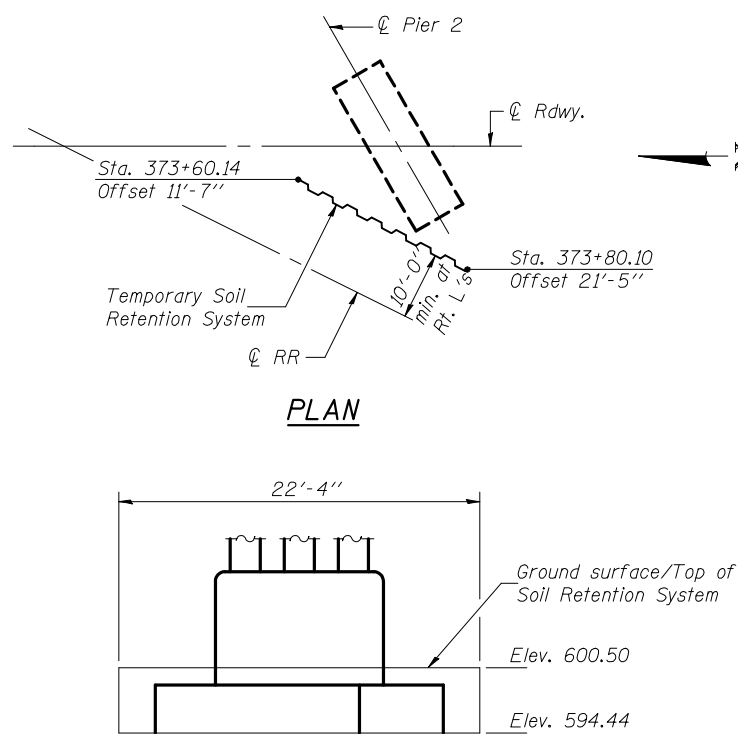
CONCRETE SLOPEWALL AT NORTH ABUT.



CONCRETE SLOPEWALL AT SOUTH ABUT.

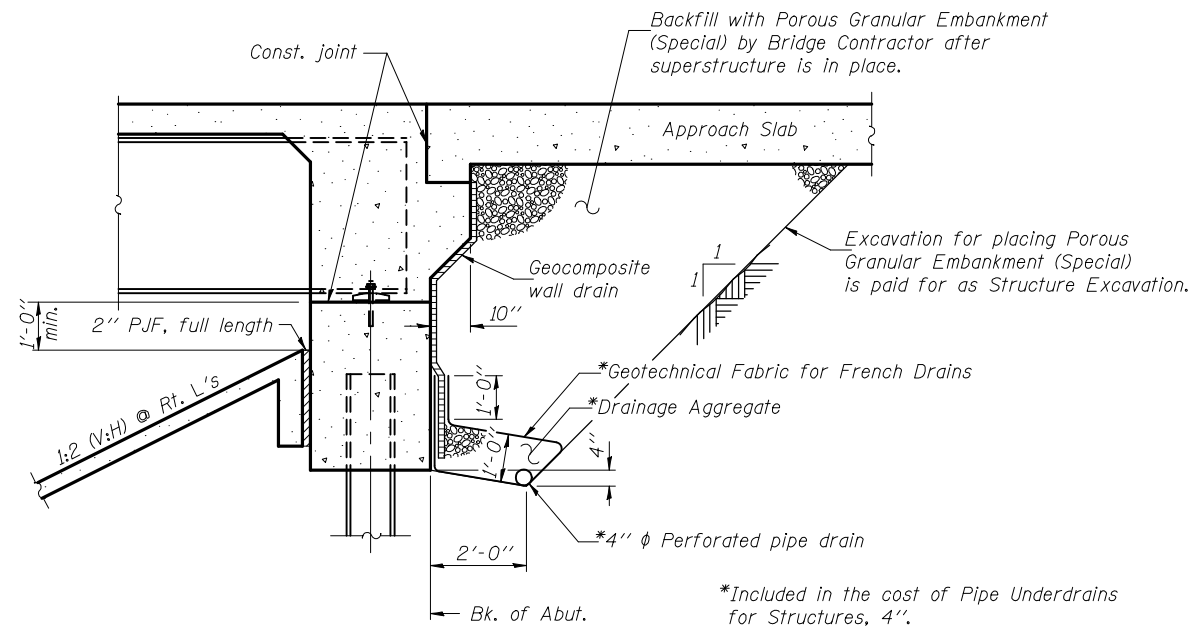
GENERAL NOTES

Fasteners shall be AASHTO M164 Type 3. Bolts 7/8"  $\phi$ , holes 15/16"  $\phi$ , unless otherwise noted.  
 Calculated weight of Structural Steel = 391310 lbs.  
 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.  
 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.  
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.  
 Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.  
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.  
 Sloewall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.



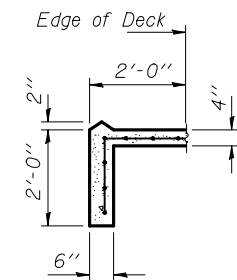
PLAN

ELEVATION  
(Looking East)



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

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 60110).



SECTION A-A

Notes:  
 Structure excavation shall not take place within 10'-0" of centerline of track.  
 Concrete removal shall not take place within 10'-0" of centerline of track. See limits of concrete removal on sheet 22 of 27.  
 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		176.8	176.8
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		424	424
Concrete Structures	Cu. Yd.		256.0	256.0
Concrete Superstructure	Cu. Yd.	498.4		498.4
Bridge Deck Grooving	Sq. Yd.	1249		1249
Concrete Encasement	Cu. Yd.		4.2	4.2
Protective Coat	Sq. Yd.	1625		1625
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3402		3402
Reinforcement Bars, Epoxy Coated	Pound	119360	39620	158980
Bar Splicers	Each	76		76
Sloewall 4"	Sq. Yd.		516	516
Furnishing Steel Piles HP10x57	Foot		702	702
Furnishing Steel Piles HP12x53	Foot		1560	1560
Driving Piles	Foot		2262	2262
Pile Shoes	Each		60	60
Temporary Soil Retention System	Sq. Ft.		135	135
Permanent Steel Sheet Piling	Sq. Ft.		3291	3291
Name Plates	Each	1		1
Anchor Bolts 1" $\phi$	Each		48	48
Geocomposite Wall Drain	Sq. Yd.		136	136
Pipe Underdrains for Structures, 4"	Foot		390	390
Protective Shield	Sq. Yd.	602		602

GENERAL DATA  
STRUCTURE NO. 084-0517

DESIGNED Nicholas R. Barnett  
 CHECKED Michael D. Rolape  
 DRAWN h.t. duong  
 CHECKED NRB/MDR

September 17, 2018  
 EXAMINED Thomas J. Domagala  
 PASSED Ralph E. Anderson  
 ENGINEER OF BRIDGE DESIGN  
 ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 2 27 SHEETS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8159	110X-3VB-4	SANGAMON	78	27
CONTRACT NO. 72692					
ILLINOIS FED. AID PROJECT					