



* Included in the cost of Pipe Underdrain for Structures 4"

** Paid for Furnishing and Erecting Structural Steel

*** Cost included in Permanent Steel Sheet Piling. Quantity of Permanent Steel Sheet Piling includes Anchor Wall area.

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).

SECTION THRU ABUTMENT

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		70	70
Filter Fabric	Sq Yd		70	70
Removal Of Existing Structures	Each	1		1
Structure Excavation	Cu Yd		75	75
Cofferdam Excavation	Cu Yd		43	43
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Concrete Structures	Cu Yd		70	70
Concrete Superstructure	Cu Yd	107		107
Bridge Deck Grooving	Sq Yd	583		583
Concrete Encasement	Cu Yd		19	19
Protective Coat	Sq Yd	683		683
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft	3,981		3,981
Furnishing And Erecting Structural Steel	L Sum		1	1
Reinforcement Bars, Epoxy Coated	Pound	31,160	9,650	40,810
Furnishing Metal Shell Piles 14" x 0.312"	Foot		196	196
Furnishing Steel Piles HP14x73	Foot		425	425
Driving Piles	Foot		621	621
Test Pile Metal Shells	Each		1	1
Test Pile Steel HP14x73	Each		3	3
Pile Shoes	Each		20	20
Name Plate	Each	1		1
Concrete Sealer	Sq Ft		739	739
Geocomposite Wall Drain	Sq Yd		37	37
Porous Granular Embankment, Special	Cu Yd		150	150
Permanent Steel Sheet Piling	Sq Ft		17,233	17,233
Concrete Wearing Surface, (Variable Depth)	Cu Yd	83		83
Steel Railing (Special)	Foot	282		282
Pipe Underdrains For Structures 4"	Foot		873	873

Note:
Cofferdam (Type 1) (Location-1) to be used for the removal and replacement of the pier and east abutment. Cofferdam (Type 1) (Location-2) to be used for the removal and replacement the west abutment. All earthwork, including placement of riprap, shall be done in a dry environment behind the cofferdam.
Two test piles are required for the west abutment. See Sheet 12 of 27 for details.

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