

*Included in the cost of Pipe Underdrains for Structures.

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 ABUTMENTS
(Horiz. dim. @ Rt. L's)

GENERAL NOTES

All structural steel shall be AASHTO M 270 Grade 50W.

Calculated weight of Structural Steel = 49,350 lbs, Grade 50W.

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts (in painted areas and M164 Type 3 in unpainted areas). Bolts 34 in. $^{\phi}$, holes 15 ₁₆ in. $^{\phi}$, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

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Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions

Reinforcement bars designated (E) shall be epoxy coated.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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

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 piles.

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted.

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

#07-00216-01-BR

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL	
1	Removal of Existing Structures	EACH			1	
	Structure Excavation	CU YD		115	115	
0	Channel Excavation	CU YD	and the same of th	520	520	
	Concrete Superstructure	CU YD	74.1		74.1	
	Concreté Structures	CU YD		25.9	25.9	
	Furnishing Metal Shell Piles 12"x0.25"	F00T		408	408	
	Driving Piles	FOOT		408	408	
	Test Pile Metal Shells	EACH		2	2	
	Pile Shoes	EACH		10	10	
	Concrete Encasement	CU YD		4.6	4.6	
	Furnishing and Erecting Structural Steel	L SUM	1		1	
	Anchor Bolts, 1"	EACH		20	20	
	Reinforcement Bars, Epoxy Coated	POUND	15,280	3, 510	18,790	
	Stone Riprap, Class A5	TON		480	480	
	Filter Fabric	SQ YD		440	440	
	Steel Bridge Rail, Type SM (Special)	EACH	143		143	
	Protective Coat	SQ YD	238		238	
	Bridge Deck Grooving	SQ YD	222	—	222	
	Stud Shear Connectors	EACH	900		900	
	Name Plates	EACH	1		1	
	Porous Granular Embankment, Special	CU YD		85	85	
	Pipe Underdrains For Structures 4"	F00T		120	120	
	Geocomposite Wall Drain	SQ YD		52	52	

See Special Provisions

GENERAL NOTES & BILL OF MATERIAL
COUNTY HIGHWAY 10 OVER
FOUNTAIN CREEK TRIBUTARY
SEC. 07-00216-01-BR
IROQUOIS COUNTY
STATION 20+02.60