

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts.
 Bolts 7/8 in. ϕ , holes 1 1/8 in. ϕ , unless otherwise noted.
 Calculated weight of Structural Steel = 1,343,200 lbs. AASHTO M 270 Grade 50.
 Calculated weight of Structural Steel = 874,980 lbs. AASHTO M 270 Grade 70W.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bearing seal 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.
 Concrete Sealer shall be applied to the designated areas of the abutments.
 The Organic Zinc Rich Primer / Epoxy / Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. 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.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for field painting of exposed surfaces of large diameter pipe pile. The color of the final finish coat shall be Gray, Munsell No. 5B 7/1.
 The erection of the structural steel shall be accomplished by a steel erection contractor or sub-contractor certified as an Advanced Certified Steel Erector (ACSE) by AISC. See special provision for "Erection of Complex Steel Structures".
 Slipforming of the parapets is not allowed.
 Prior to the placement of the joint block-out, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		351	351
Concrete Structures	Cu. Yd.		933.2	933.2
Concrete Superstructure	Cu. Yd.	1,591.8		1,591.8
Bridge Deck Grooving	Sq. Yd.	4,130		4,130
Protective Coat	Sq. Yd.	5,369		5,369
Precast Concrete Caps	Each		7	7
Furnishing and Erecting Structural Steel	L Sum	0.65		0.65
Stud Shear Connectors	Each	34,067		34,067
Reinforcement Bars, Epoxy Coated	Pound	402,740	194,480	597,220
Bar Splicers	Each		74	74
Mechanical Splicers	Each		286	286
Slope Wall 4 inch	Sq. Yd.		403	403
Furnishing Metal Shell Piles 14" X 0.250"	Foot		3,117	3,117
Driving Piles	Foot		3,117	3,117
Test Pile Metal Shells	Each		2	2
Pile Shoes	Each		24	24
Name Plates	Each			1
Preformed Joint Seal 4"	Foot		34	34
Anchor Bolts, 1 1/2"	Each		168	168
Concrete Sealer	Sq. Ft.		839	839
Geocomposite Wall Drain	Sq. Yd.		34	34
High Load Multi-Rotational Bearings, Guided Expansion, 200 K	Each	12		12
High Load Multi-Rotational Bearings, Fixed, 400 K	Each	6		6
High Load Multi-Rotational Bearings, Fixed, 450 K	Each	30		30
High Load Multi-Rotational Bearings, Fixed, 550 K	Each	6		6
Granular Backfill for Structures	Cu. Yd.		77	77
Drainage Scuppers, DS-II	Each		3	3
Modular Expansion Joint - Swivel 6"	Foot		76	76
Pipe Underdrains for Structures 4"	Foot		46	46
Furnishing Metal Large Diameter Pipe Piles 60" X 1.00"	Foot		1,427	1,427
Driving Large Diameter Pipe Piles	Foot		1,427	1,427
Test Pile Large Diameter Pipe	Each		2	2
Pile Shoes, Large Diameter Pipe	Each		14	14
Bar Terminator	Each		252	252
High Strength Non-Shrink Grout	Cu. Ft.		1,048	1,048

* Quantity includes Textured Epoxy Coated Reinforcement bars. See sheets 29, 31, 34, 36, 38, and 40 of 97.

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