

GENERAL NOTES

See Sheets 12 to 15 of 15 for Boring Data.

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 3/4 in. φ, holes 5/8 in. φ, unless otherwise noted.

Calculated weight of Structural Steel = 154,900 Pounds

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

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.

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. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

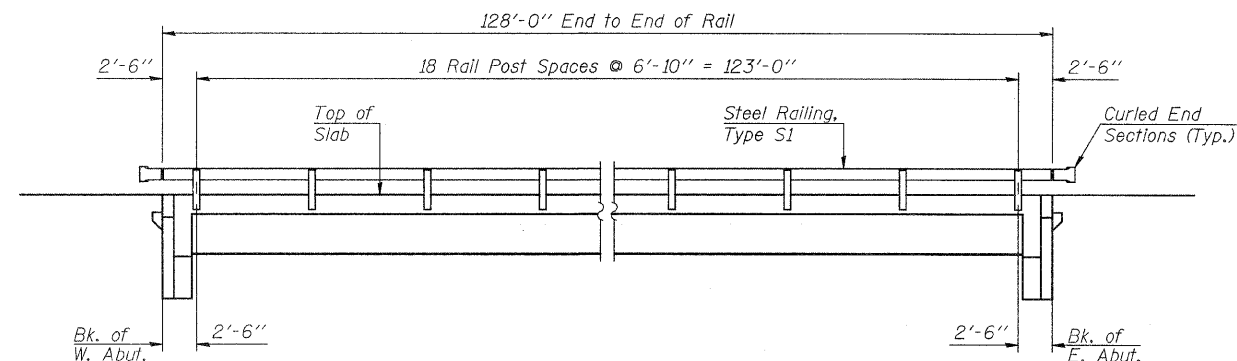
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

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.

All exposed surfaces of abutments and wingwalls shall receive a rubbed finish in accordance with Article 503.15(b) of the Standard Specifications. Cost to be included in Cost of Concrete Structures.

The Contractor shall drive one Steel HP14x73 Test Pile in a permanent location at the east abutment, as directed by the Engineer, before ordering the remainder of piles.

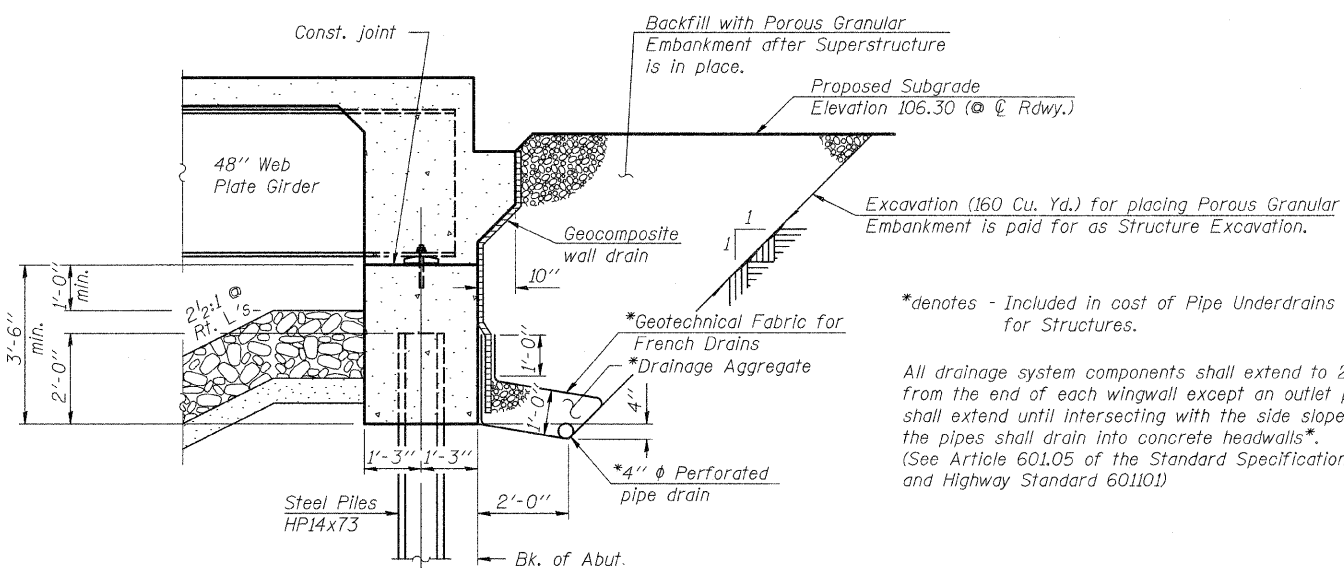


RAIL POST SPACING DETAIL

PIGEON CREEK
BUILT 20__ BY
PIGEON GROVE ROAD DISTRICT
IROQUOIS COUNTY
SEC. 08-22102-01-BR
STR. NO. 038-5157
LOADING HL-93

LETTERING FOR NAME PLATE

See Std. 515001



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

*denotes - Included in 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)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.		30.9	30.9
Concrete Superstructure	Cu. Yd.	134.2		134.2
Reinforcement Bars, Epoxy Coated	Pound	30,500	7,250	37,750
Steel Railing, Type S1	Foot	256		256
Name Plates	Each		1	1
Furnishing Steel Piles HP14x73	Foot		960	960
Driving Piles	Foot		960	960
Test Pile Steel HP14x73	Each		1	1
Stone Riprap, Class A5	Ton		568	568
Filter Fabric	Sq. Yd.		512	512
Concrete Encasement	Cu. Yd.		8.7	8.7
Structure Excavation	Cu. Yd.		160	160
Removal of Existing Structures	Each		1	1
Protective Coat	Sq. Yd.	473		473
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,300		1,300
Bridge Deck Grooving	Sq. Yd.	398		398
Pipe Underdrains for Structures 4"	Foot		130	130
Geocomposite Wall Drain	Sq. Yd.		71	71
Porous Granular Embankment	Cu. Yd.		151	151
Anchor Bolts, 1/2"	Each	20		20

FILE NAME = 11-137_NOTES.DGN	USER NAME = S.A.P.	DESIGNED - A.R.K.	REVISED -
		CHECKED - R.E.A.	REVISED -
		DRAWN - S.A.P.	REVISED -
		CHECKED - A.R.K.	REVISED -
PLOT SCALE = XXX			
PLOT DATE = 01/04/12			

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

GENERAL NOTES, BILL OF MATERIALS & DETAILS
S.N. 038-5157

SHEET NO. 2 OF 15 SHEETS

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
351	08-22102-01-BR	IROQUOIS	25	5
CONTRACT NO. 87493				
ILLINOIS			PIGEON GROVE ROAD DISTRICT	