

GENERAL NOTES

Fasteners shall be high strength bolts AASHTO M164, Type 3 in unpainted areas and mechanically galvanized AASHTO M 164, Type 1 in painted areas. Bolts $\frac{7}{8}$ in. ϕ , open holes $\frac{1}{16}$ in. ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 187,940 lbs.

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

Structural steel shall only be painted at the ends of the beams, 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".

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

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

Slipforming of the Parapets is not allowed.

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

Reinforcement bar designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within an $\frac{1}{8}$ in. tolerance. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ in. adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

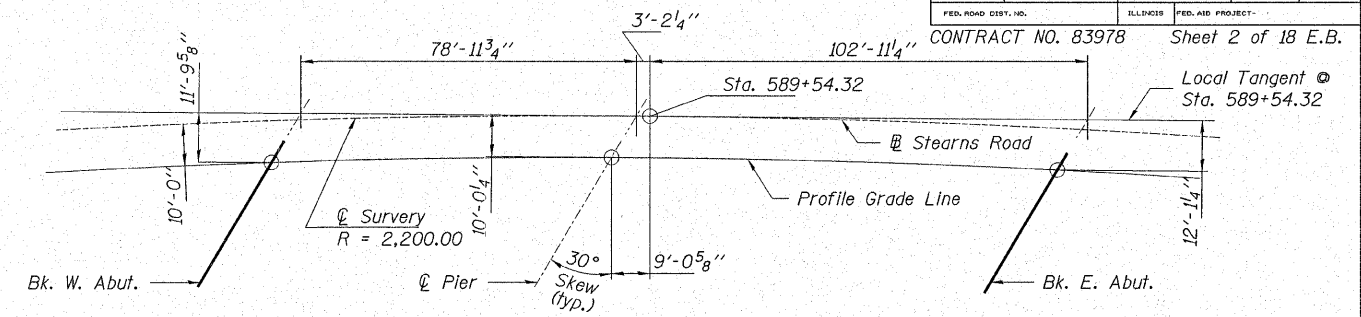
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

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

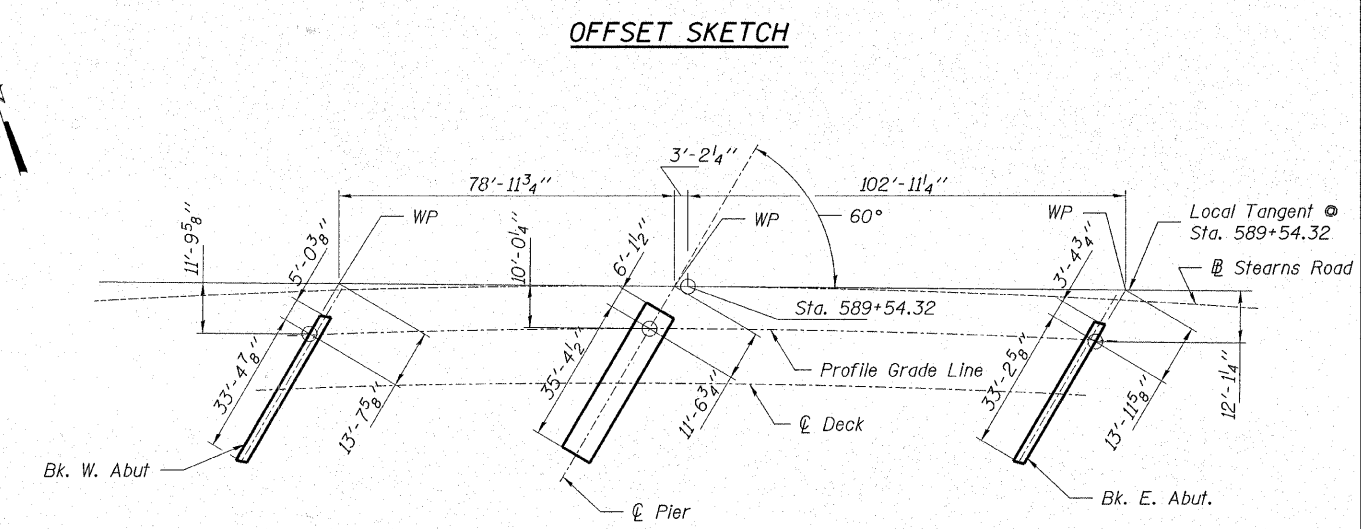
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted for approval with the cofferdam design to the Engineer.

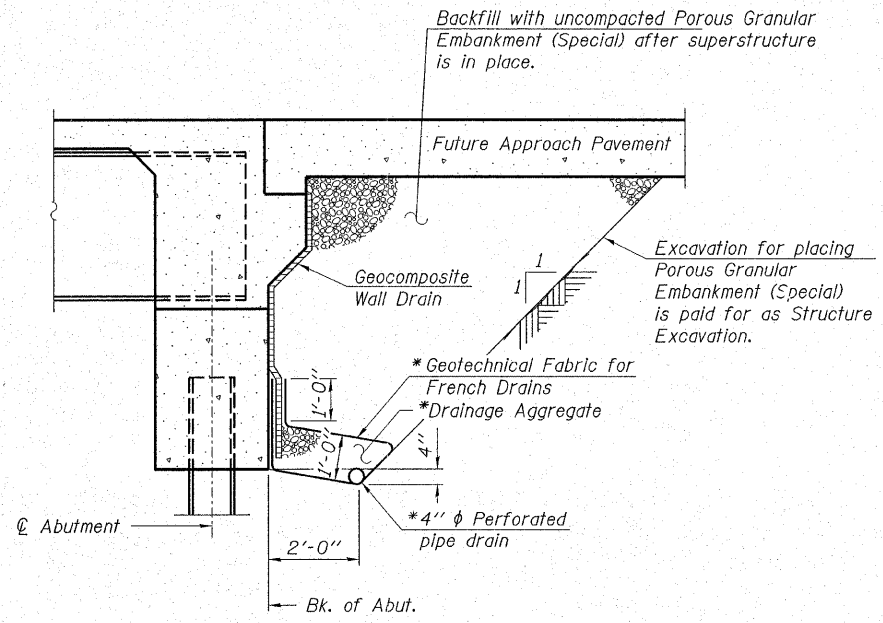
The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number as shown in the contract plans.



OFFSET SKETCH



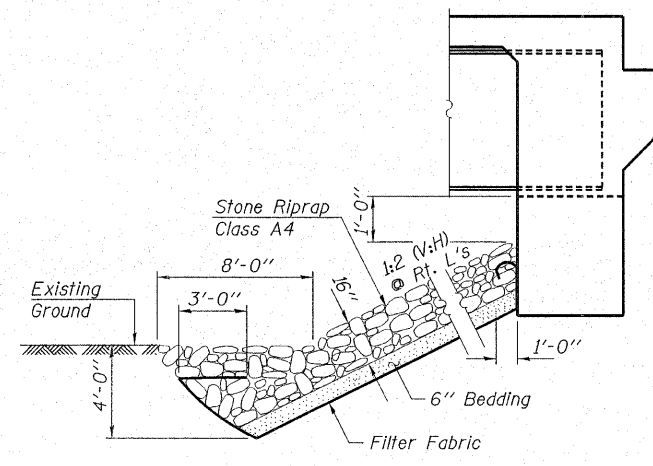
FOOTING LAYOUT



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

* Included in the cost of Pipe Underdrains for Structures.

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 A-A

Note:
Earth excavation required for construction of riprap will not be paid for separately, but will be included in the cost of Stone Riprap, Class A4. Excavated Material will be disposed of in accordance with Article 281.05 of the Standard Specifications and is not included in the Earthwork Balance.

TOTAL BILL OF MATERIAL - EASTBOUND BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Ton		370	370
Stone Riprap, Class A4	Ton			500
Filter Fabric	Sq. Yd.			808
Structure Excavation	Cu. Yd.		187.6	187.6
Cofferdam Excavation	Cu. Yd.		155.0	155.0
Cofferdams	Each		1	1
Concrete Structures	Cu. Yd.		95.6	95.6
Concrete Superstructure	Cu. Yd.	228.0		228.0
Bridge Deck Grooving	Sq. Yd.	562		562
Seal Coat Concrete	Cu. Yd.		58.1	58.1
Concrete Encasement	Cu. Yd.		3.5	3.5
Protective Coat	Sq. Yd.	758		758
Furnishing and Erecting Structural Steel	L. Sum	0.6		0.6
Stud Shear Connectors	Each	2,355		2,355
Reinforcement Bars, Epoxy Coated	Pound	48,350	9,060	57,410
Bar Splicers, Special	Each	60		60
Furnishing Steel Piles HP12x63	Foot		1,090	1,090
Driving Piles	Foot		1,090	1,090
Test Pile Steel HP12x63	Each		3	3
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		95	95
Concrete Headwalls for Pipe Drains	Each		3	3
Pipe Underdrains for Structure, 4"	Foot		160	160

HAMPTON, LENZINI & RENWICK, INC.
 CIVIL & STRUCTURAL ENGINEERS
 LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 (217) 546-3400

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-05-0077-1 DATE: 09/20/07
 DESIGNED: T.P.L. CHECKED: J.L.B. DRAWN: P.J.L.

GENERAL NOTES, DETAILS & TOTAL BILL OF MATERIAL
SECTION 06-00214-08-BR
F.A.U. ROUTE 361 / NEW STEARNS ROAD
OVER THE NORTH ARM OF BREWSTER CREEK
KANE COUNTY
STRUCTURE NO. 045-3167 (E.B.) / STATION 590+50.50