

GENERAL NOTES

STRUCTURAL STEEL

Fasteners shall be high strength bolts (AASHTO M 164, Type 1)
Bolts $7/8"$ ϕ , open holes $15/16"$ ϕ , unless otherwise noted.

Calculated weight of Structural Steel: AASHTO M270 Grade 50 = 381,982 Lb.

The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and all splice plate material except fill plates.

The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.

The inorganic zinc rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. 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 interstate green, Munsell No. 7.5G 1/2.

CAST-IN-PLACE CONCRETE

All exposed concrete edges shall have a $3/4"$ by 45 degree chamfer, except where shown otherwise. Chamfer on vertical edges shall be continued a minimum of 1 foot below the finished groundline.

REINFORCEMENT

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.

Reinforcement bars bending dimensions are out to out.

Reinforcement bars designated "E" shall be epoxy coated.

CONSTRUCTION

Field welding of construction accessories will not be permitted to beams or girders.

Anchor bolts shall be set before bolting diaphragms over supports.

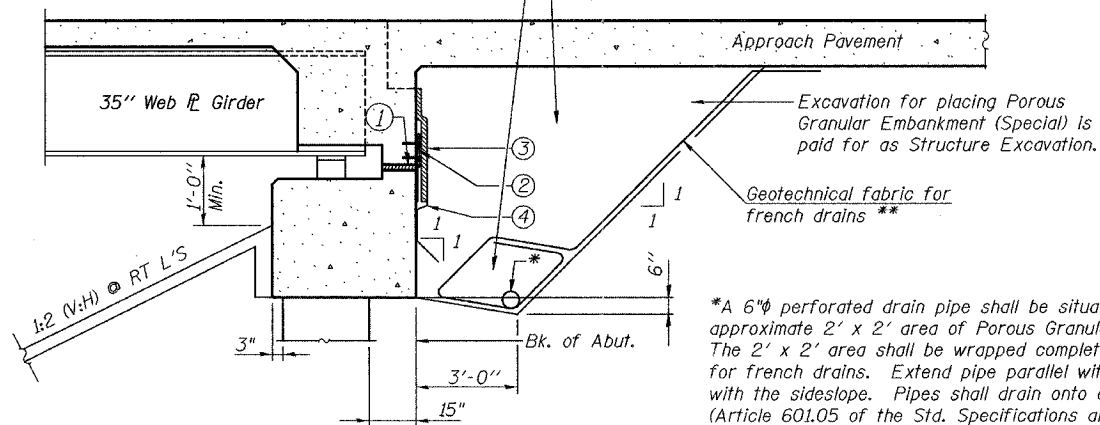
Slope wall shall be reinforced with welded wire fabric, $6'' \times 6''$ - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

All construction joints shall be bonded.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $1/8$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $1/8''$ adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each fixed bearing in addition to all other plates or shims. For Type I Elastomeric Bearings, two $1/8''$ adjusting shims shall be provided for each bearing and placed as detailed.

The contractor shall drive one metal shell test pile in a permanent location at the pier, as directed by the Engineer before ordering the remainder of piles.

Backfill with uncompacted Porous Granular Embankment (Special) with a gradation of CA-5 or CA-7 by Bridge Contractor after superstructure is in place. Limits shall be $1'-0''$ from the end of each wingwall.



Items ① ② ③ & ④ shall be included in the cost of Concrete Superstructure

** Included in the cost of Porous Granular Embankment (Special)

SECTION THRU SEMI-INTEGRAL ABUTMENT

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

- ① 2" Preformed Joint Filler (Section 1051 of the Standard Specifications) bonded to abutment cap with approved adhesive (full width of cap)
- ② Fabric Reinforced Elastomeric Mat (See Special Provisions). Fabric mat shall be 24" wide and attached full width to the abutment cap with a $3/8'' \times 5''$ steel plate and $1/2'' \phi$ studs with nuts and washers at 12" cts.
- ③ 2" Preformed Joint Filler (Section 1051 of the Standard Specifications) bonded to superstructure (full width of cap)
- ④ Geocomposite Wall Drain (Section 591 of the Standard Specifications - full width of cap)

LIST OF STRUCTURAL DRAWINGS

TITLE	SHEET
General Plan & Elevation	S1
General Notes & Bill of Material	S2
Top of Slab Elevation Layout	S3
Top of Slab Elevations I	S4
Top of Slab Elevations II	S5
Superstructure	S6
Superstructure Details I	S7
Superstructure Details II	S8
Framing Plan	S9
Beam Details	S10
Bearing Details	S11
Anchor Bolt Details for Bearings	S12
North Abutment	S13
Pier Details I	S14
Pier Details II	S15
South Abutment	S16
Bar Splicer Details	S17
Soil Borings I	S18
Soil Borings II	S19
Soil Borings III	S20

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU. YD.	—	271	271
Floor Drains	EACH	12	—	12
Concrete Structures	CU. YD.	—	205	205
Concrete Superstructure	CU. YD.	454	—	454
Bridge Deck Grooving	SQ. YD.	1,178	—	1,178
Protective Coat	SQ. YD.	1,598	—	1,598
Elastomeric Bearing Assembly, Type I	EACH	18	—	18
Furnishing and Erecting Structural Steel	L SUM	1	—	1
Stud Shear Connectors	EACH	4,212	—	4,212
Reinforcement Bars	POUND	—	22,120	22,120
Reinforcement Bars, Epoxy Coated	POUND	105,910	27,920	133,750
Slope Wall 4 Inch	SQ. YD.	—	681	681
Furnishing Metal Pile Shells 14"	FOOT	—	1,674	1,674
Driving and Filling Shells	FOOT	—	1,674	1,674
Test Pile Metal Shells	EACH	—	1	1
Name Plates	EACH	1	—	1
Bar Splicers	EACH	124	—	124
Drilled Shaft in soil 30"	FOOT	—	600	600
Porous Granular Embankment (Special)	CU. YD.	—	267	267
Protective Shield	SQ. YD.	420	—	420

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**SENECA ROAD
OVER F.A.I. 80**
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
GENERAL NOTES &
BILL OF MATERIAL

 **Louis Berger & Associates, Inc.**
1001 Elm Street, Suite 300
Manchester, NH 03101

SCALE: NONE
DATE: OCTOBER, 2005
DRAWN BY: NJH
CHECKED BY: JLG