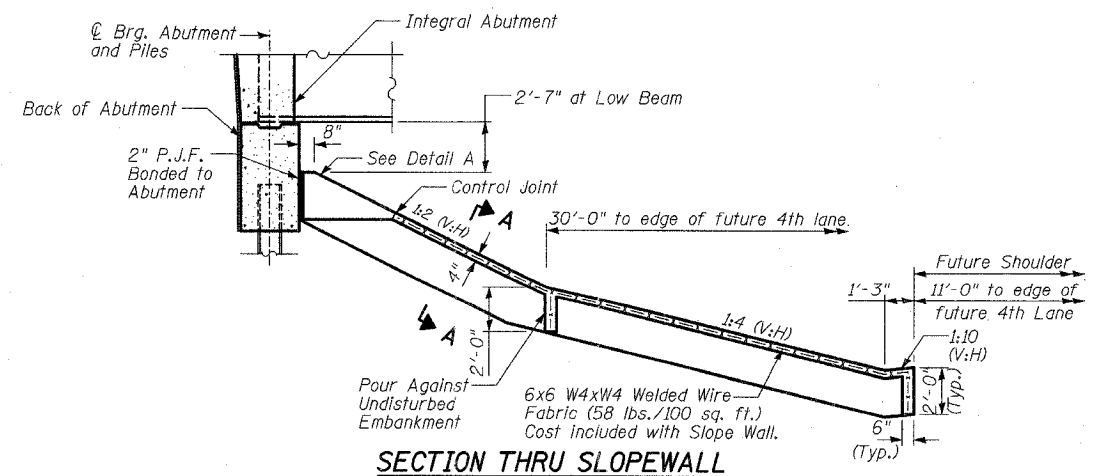


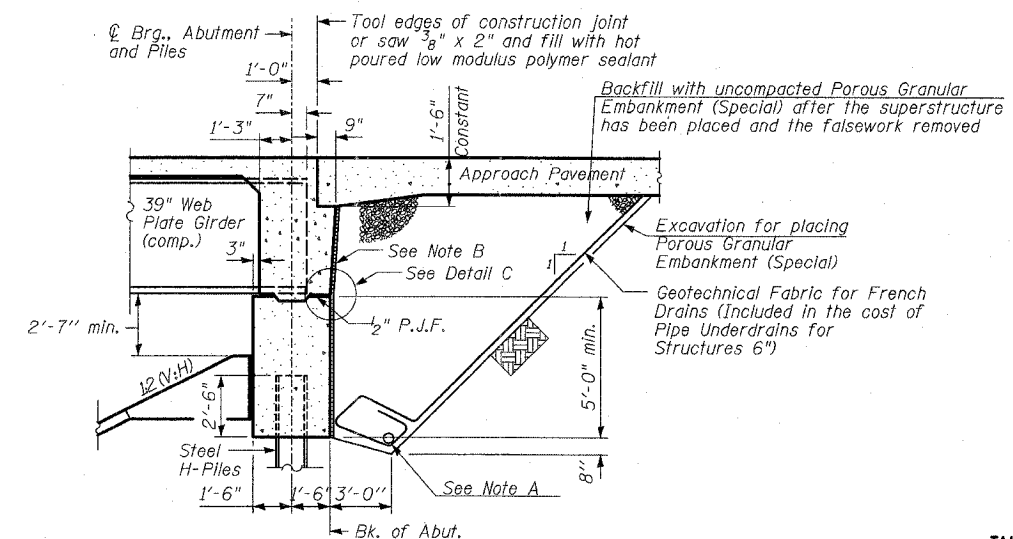
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	119R-2	LAKE	439	249
STA. 432+83.12		TO STA. 470+56.84		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**GENERAL NOTES**

- Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts 7/8 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel =  
Grade 50 = 1,141,360 lbs.  
Grade 36 = 82,930 lbs.
- 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 (LL Modified). See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to their 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 all exposed surfaces of the Pier.
- 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 that 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 Interstate Green, Munsell No. 7.5G 4/8. See Special Provision for "Cleaning and Painting New Metal Structures".
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 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.
- Sloped wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- The Protective Shield shall extend as shown on Sheet S-1, and as a minimum 2' beyond the existing and proposed edge of Deck. As a minimum 1,426 Sq. Yd. will be required to remove the existing structure and 2,958 Sq. Yd. will be required for construction of the proposed structure.
- The cost of removal of existing Concrete Sloped wall shall be included in "Removal of Existing Structures".
- The excavation required to place the concrete sloped wall has been included in the quantity of Structure Excavation.
- The existing substructure shall be removed in accordance with Article 501.04 of the Standard Specifications. The existing 36"  $\phi$  Precast Prestressed Concrete Piles shall be filled with CA-6 or as approved by the Engineer. The cost shall be included in "Removal of Existing Structures."



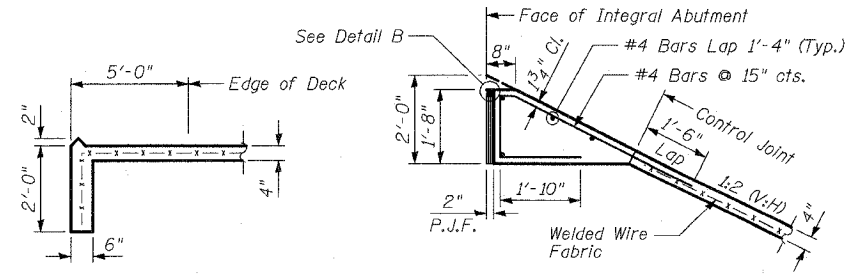
**SECTION THRU SLOPEWALL**



**SECTION THRU INTEGRAL ABUTMENT**

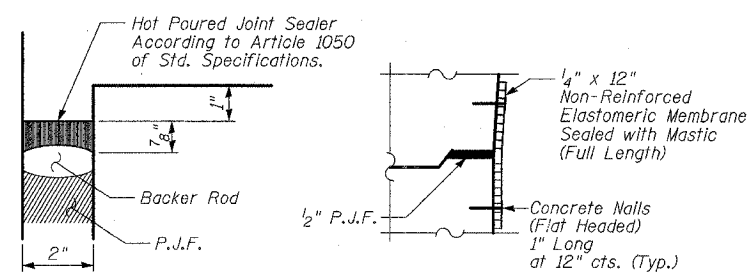
**Note A:**  
A 6"  $\phi$  perforated drain pipe shall be situated at the bottom of an approximate 2'x2' area of Porous Granular Embankment (Special). The 2'x2' area shall be wrapped completely in geotechnical fabric for french drains. Extend pipe parallel with the cap until intersecting the sideslope. Pipes shall drain onto concrete headwalls (Article 601.05 of the Std. Specifications & Highway Std. 601101).

**Note B:**  
1" Thick Styrofoam and Geocomposite Wall Drain. The cost of the Styrofoam shall be included in the cost of Geocomposite Wall Drain.



**SECTION A-A**

**DETAIL A**



**DETAIL B**

**DETAIL C**

**Note:**  
The cost of elastomeric membrane, mastic & concrete nails is included in the cost of Concrete Structures.

**INDEX OF SHEETS**

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| S-2 GEN NOTES, SHT INDEX, BILL OF MATERIAL     | S-29 WEST ABUTMENT DETAILS - II     |
| S-3 SUBSTRUCTURE LAYOUT                        | S-30 EAST ABUTMENT                  |
| S-4 CONSTRUCTION STAGING                       | S-31 EAST ABUTMENT DETAILS - I      |
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| S-26 FIELD SPLICE & BEARING DETAILS            | S-53 PILE DRIVING LOG - III         |
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**TOTAL BILL OF MATERIAL 60B01**

Item	Unit	Super.	Sub.	Total
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD		734	734
REMOVAL OF EXISTING STRUCTURES	EACH			1
PROTECTIVE SHIELD	SQ YD	4,384		4,384
STRUCTURE EXCAVATION	CU YD		2,719	2,719
CONCRETE STRUCTURES	CU YD		608	608
CONCRETE SUPERSTRUCTURE	CU YD	1,154		1,154
BRIDGE DECK GROOVING	SQ YD	3,186		3,186
CONCRETE ENCASEMENT	CU YD		32	32
PROTECTIVE COAT	SQ YD	5,362		5,362
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM		1	1
STUD SHEAR CONNECTORS	EACH	13,860		13,860
REINFORCEMENT BARS, EPOXY COATED	POUND	234,780	75,320	310,100
BAR SPLICERS	EACH	1704	82	1786
BRIDGE FENCE RAILING	FOOT	529		529
PARAPET RAILING	FOOT	295		295
SLOPEWALL 4 INCH	SQ YD		1,554	1,554
FURNISHING STEEL PILES HP14X73	FOOT		7,022	7,022
DRIVING PILES	FOOT		7,022	7,022
TEST PILE STEEL HP14X73	EACH		3	3
PILE SHOES	EACH		130	130
TEMPORARY SHEET PILING	SQ FT		3,670	3,670
NAME PLATES	EACH	1		1
ANCHOR BOLTS, 1/2"	EACH	44		44
CONCRETE SEALER	SQ FT		4,730	4,730
GEOCOMPOSITE WALL DRAIN	SQ YD		286	286
PIPE UNDERDRAIN FOR STRUCTURES 6"	FOOT		379	379
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT		825	825
CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC	FOOT		150.7	150.7
DRAINAGE SCUPPERS, DSII	EACH	24		24
PERMANENT STEEL SHEET PILING	SQ FT		528	528
PVC DRAIN PIPE (8 IN.)	FOOT		454	454

STATION 445+54.14  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RTE. 335 SECTION 119R-2  
LOADING HS20  
STRUCTURE NO. 049-2012

**NAME PLATE**  
See Std. 515001

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**GEN NOTES, SHT INDEX, BILL OF MATERIAL**  
ILLINOIS 60 OVER I-94  
F.A.P. RTE. 335 SECTION 119R-2  
LAKE COUNTY STA. 445+54.14  
S.N. 049-2012 ISTHA BRIDGE NO. 407  
DESIGNED BY: SP  
DRAWN BY: SNB  
SCALE: DATE: MAY 8, 2007 CHECKED BY: PF

**TYLIN INTERNATIONAL**

Reinforcement bars in the concrete sloped wall shall be included in the unit price of "Sloped wall 4 Inch"

05/03/2007 04:29:57 PM