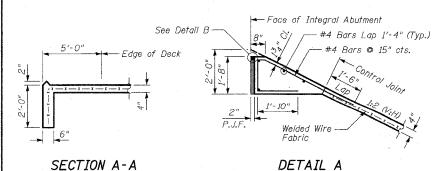
## GENERAL NOTES

- Fasteners shall be AASHTO MI64 Type 1, mechanically galvanized bolts. Bolts  $^{7}_{8}$  in.  $\phi$ , holes  $^{15}_{16}$  in.  $\phi$ , unless otherwise noted
- 2. Calculated weight of Structural Steel Grade 50 = 1,141,360 lbs. Grade 36 = 82,930 lbs.
- 3. 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 (IL 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 airders, 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 orior 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
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of  $^{l}_{\partial}$  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.
- 10. 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.
- 12. 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.
- 13. Slopewall shall be reinforced with welded wire fabric, 6" x 6" W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
- 14. 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.
- 15. The cost of removal of existing Concrete Slopewall shall be included in "Removal
- 16. The excavation required to place the concrete slopewall 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,"

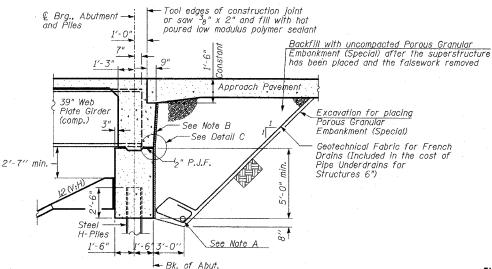


SECTION A-A

**TYLIN**INTERNATIONAL

Reinforcement bars in the concrete slopewall shall be included in the unb

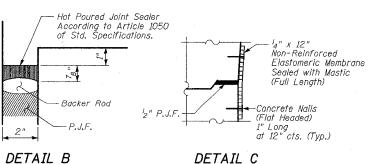
Integral Abutment Bra. Abutment → and Piles --2'-7" at Low Beam Back of Abutment See Detail A Ronded to /A 30'-0" to edge of future 4th lane. Future Shoulder 11'-0" to edge of future 4th Lane -1.10 (V:H)Pour Against 6x6 W4xW4 Welded Wire Undisturbed Fabric (58 lbs./100 sq. ft.) Cost included with Slone Wall (TVD. SECTION THRU SLOPEWALL



## SECTION THRU INTEGRAL ABUTMENT

A 6" 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).

I' Thick Styrofoam and Geocomposite Wall Drain. The cost of the Styrofoam shall be included in the cost of Geocomposite Wall Drain.



## DETAIL C

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
335	119R-2	LAKE	439	249
STA.	432+83.12	TO STA. 47	0+56.84	

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TOTAL BILL OF MATERIAL Total Unit Super. Sub. CU-YD 734 734 FACH SQ YD 4,384 4,384 CU YD 2,719 2,719

POROUS GRANULAR EMBANKMENT. SPECIAL REMOVAL OF EXISTING STRUCTURES PROTECTIVE SHIELD STRUCTURE EXCAVATION CONCRETE STRUCTURES CU YD 608 608 CONCRETE SUPERSTRUCTURE 1,154 1,154 CU YD BRIDGE DECK GROOVING 3,186 3,186 SO YO CONCRETE ENCASEMENT 32 CU YD PROTECTIVE COAT SQ YD 5,362 5,362 FURNISHING AND ERECTING STRUCTURAL STEEL SUM TUD SHEAR CONNECTORS EACH 13,860 13,860 REINFORCEMENT BARS, EPOXY COATED POUND 34,780 75,320 310,100 BAR SPLICERS EACH 1704 1786 82 BRIDGE FENCE RAILING F00T 529 529 PARAPET RAILING 295 F00T 295 SLOPEWALL 4 INCH SQ YD 1,554 1,554 FURNISHING STEEL PILES HP14X73 F00T 7,022 7,022 DRIVING PILES FOOT 7.022 7,022 TEST PILE STEEL HP14X73 EACH PILE SHOES EACH 130 130 TEMPORARY SHEET PILING SQ FT 3,670 3,670 NAME PLATES EACH ANCHOR BOLTS, 1/2 EACH44 44 CONCRETE SEALER SO 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, FOOT 825 825 GALVANIZED STEEL CONDUIT EMBEDDED IN STRUCTURE, 4" DIA., PVC FOOT 150 150.7 DRAINAGE SCUPPERS, DSII ACH 24 PERMANENT STEEL SHEET PILING SO ET 528 528 PVC DRAIN PIPE (8 IN.) FOOT 454 454

INDEX OF SHEETS S-28 WEST ABUTMENT DETAILS -GEN NOTES, SHT INDEX, BILL OF MATERIAL S-29 WEST ABUTMENT DETAILS - II S-30 EAST ABUTMENT SUBSTRUCTURE LAYOUT CONSTRUCTION STAGING TEMPORARY CONCRETE BARRIER FAST ABUTMENT DETAILS TOP OF SLAB ELEVATIONS -LAYOUT S-33 ABUT S-34 PIFR ABUTMENT MISCELLANEOUS DETAILS S-35 PIER DETAILS DRAINAGE SYSTEM
DRAINAGE SCUPPER. DS-11 TOP OF SLAB ELEVATIONS - V TOP OF SLAB ELEVATIONS - VI -38 BAR SPLICER ASSEMBLY DETAILS -39 STEEL H-PILE DETAILS -40 SOIL BORINGS - I SOIL BORINGS SOIL BORINGS SOIL BORINGS TOP OF WEST APPROACH PAVEMENT ELEVATIONS
TOP OF EAST APPROACH PAVEMENT ELEVATIONS DECK PLAN III IV DECK CROSS SECTION DECK DETAILS, BAR LIST & BILL OF MATERIAL S-43 SOIL BORINGS S-44 SOIL BORINGS TYPE F CONCRETE PARAPET ELEVATION SIDEWALK PARAPET ELEVATIONS SOIL BORINGS S-46 SOIL BORINGS - VII S-47 WEST APPROACH PAVEMENT LAYOUT S-20 INTEGRAL ABUT. DIAPHRAGM DETAILS BRIDGE FENCE RAILING DETAILS PARAPET RAILING DETAILS S-48 EAST APPROACH PAVEMENT LAYOUT S-49 APPROACH PAVEMENT DETAIL FRAMING PLAN S-50 APPROACH PAVEMENT DETAILS - II S-23 FRAMING FLAN
S-24 GIRDER ELEVATION & DETAILS
S-25 DIAPHRAGM DETAILS
S-26 FIELD SPLICE & BEARING DETAILS
S-27 WEST ABUTMENT PILE DRIVING LOG DRIVING LOG S-53 PILE DRIVING LOG - III

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
	DATE	REVISIONS NAME
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DAT		

ILLINOIS DEPARTMENT OF TRANSPORTATION EN 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

ALE: DRAWN BY: SNB TE: MAY 8, 2007 CHECKED BY: PF

SHEET S-2 OF S-53