

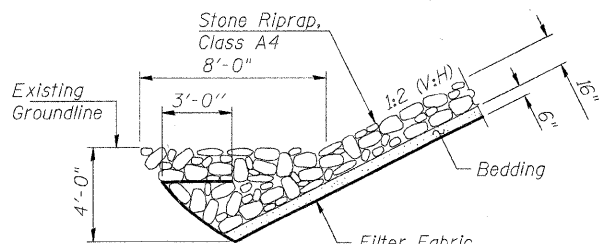
SECTION THRU PILE SUPPORTED ABUTMENT

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

* Included in the cost of Pipe Underdrains for Structures 4''.

Note:

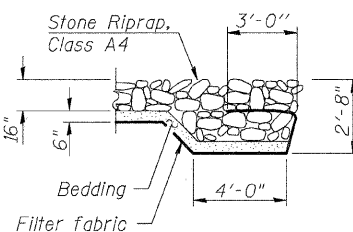
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0'' from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION A-A

Note:

Excavation required for placing Riprap shall be according to Article 502 of the Standard Specifications. Cost for excavation shall be included with Stone Riprap, Class A4.



SECTION B-B

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 3, mechanically galvanized bolts. Bolts 7/8 in. ϕ , holes 15/16 in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel: AASHTO M 270 Grade 50W = 428,750 lbs.
- All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 36.
- 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.
- 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 the seat area of the abutments.
- Structural steel shall only be painted for a distance of 10 ft. each way from the deck joints. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- All exposed structural steel of the bearing shall be cleaned and shop painted as specified in the Special Provisions for "Surface Preparation and Painting Requirements for Weathering Steel."
- Layout of slope protection system may be varied in the field to suit ground conditions 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.
- 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.
- The concrete for bridge decks finished according to Article 503.16(a) of the Standard Specifications shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The machine used for finishing shall be set parallel to the skew for striking off and screeding the concrete.
- When the deck pour is stopped for the day at one or more of the transverse bonded construction joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.

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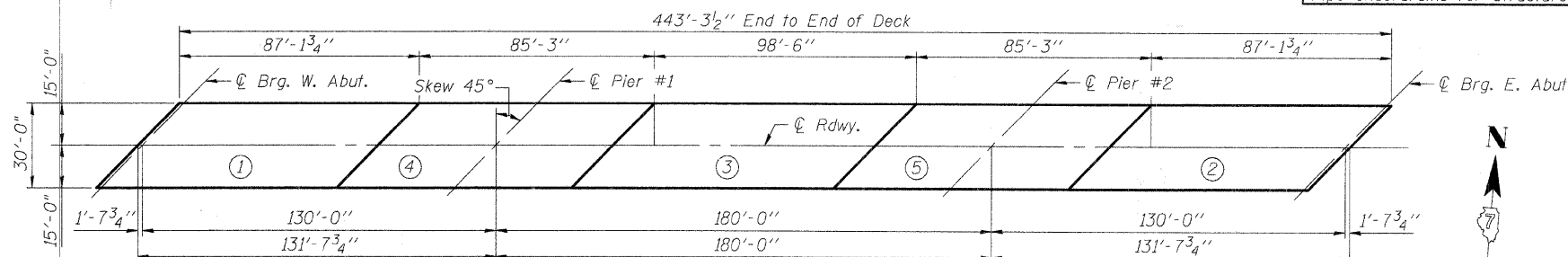
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special "Install Only"	Cu. Yd.	-	243	243
Stone Riprap, Class A4	Sq. Yd.	-	703	703
Filter Fabric	Sq. Yd.	-	703	703
Concrete Structures	Cu. Yd.	-	234	234
Concrete Superstructure	Cu. Yd.	389.6	-	389.6
Bridge Deck Grooving	Sq. Yd.	1478	-	1478
Concrete Encasement	Cu. Yd.	-	7.6	7.6
Protective Coat	Sq. Yd.	1511	-	1511
Furnishing and Erecting Structural Steel	L. Sum	1	-	1
Stud Shear Connectors	Each	3144	-	3144
Reinforcement Bars	Pounds	-	38460	38460
Reinforcement Bars, Epoxy Coated	Pounds	102270	37050	139320
Bar Splicers	Each	62	-	62
Steel Railing, Type S-1	Foot	896	-	896
Furnishing Steel Piles, HP10x42	Foot	-	1030	1030
Driving Piles	Foot	-	1030	1030
Test Pile Steel HP 10x42	Each	-	2	2
Name Plates	Each	-	1	1
Drilled Shaft in Soil	Cu. Yd.	-	198.6	198.6
Drilled Shaft in Rock	Cu. Yd.	-	12.6	12.6
Preformed Joint Strip Seal	Foot	83.5	-	83.5
Elastomeric Bearing Assembly, Type II	Each	8	-	8
Steel Bearing Assembly	Each	8	-	8
Anchor Bolts, 1/4"	Each	16	-	16
Anchor Bolts, 1/2"	Each	16	-	16
Concrete Sealer	Sq. Ft.	-	342	342
Geocomposite Wall Drain	Sq. Yd.	-	108	108
Pipe Underdrains for Structures 4''	Foot	-	206	206

EMBARRAS RIVER
BUILT 20__ BY
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
F.A.S. RT. 662 - STA. 470+75.00
STRUCTURE NO. 018-3191 - LOADING HS20

NAME PLATE

See Std. 515001



DECK POURING SEQUENCE

The concrete deck segments shall be poured in the numerical order shown above.

GENERAL NOTES
F.A.S. 662 (TR 61) OVER EMBARRAS RIVER
CUMBERLAND COUNTY
SECTION 01-00061-00-BR
STA. 470+75.00
STRUCTURE NUMBER 018-3191
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 01S2021B
DATE 05/30/08

06/02/08 02:48 PM
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LAYOUT 11/30/07
DRAWN 12/28/07
REVIEWED JHM 02/04/08