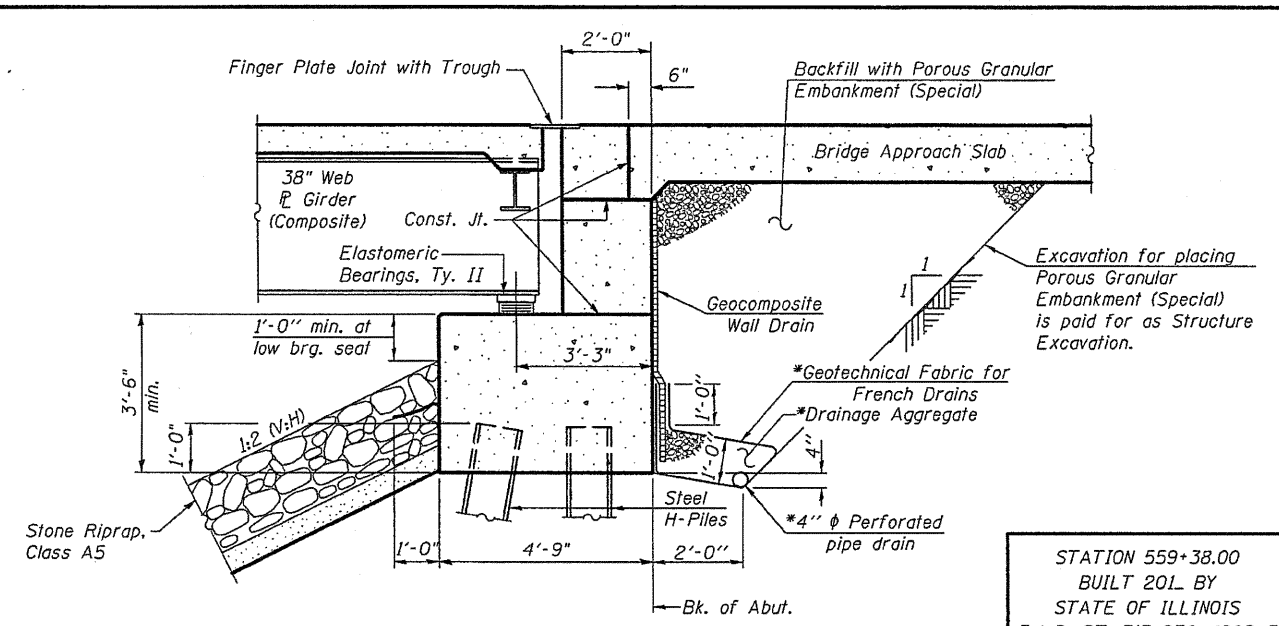


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SECTION THRU PILE SUPPORTED STUB ABUTMENT
(Horiz. dim. @ Rt. L's)

STATION 559+38.00
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RT. 713 SEC. 120B-3
LOADING HL-93
STRUCTURE NO. 085-0514

NAME PLATE
See Std. 515001

*Included in the cost of Pipe Underdrains for Structures.

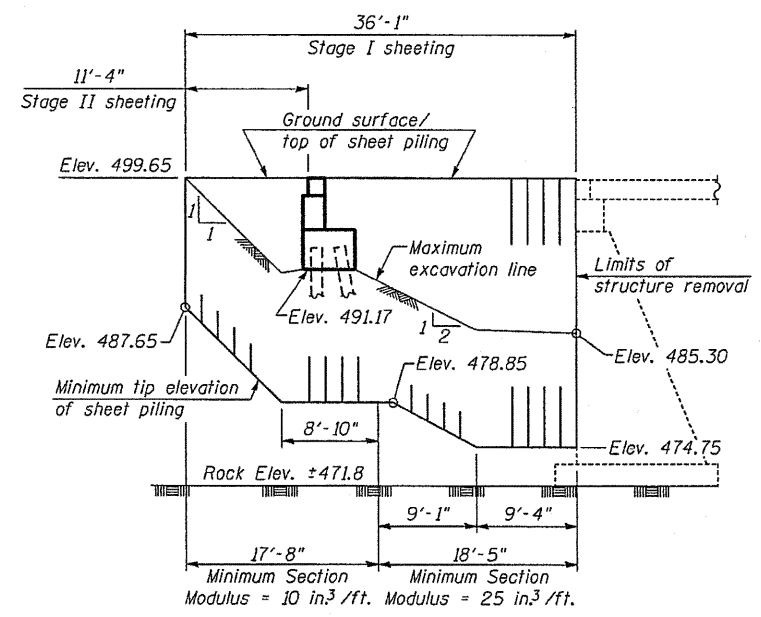
Note:
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes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

GENERAL NOTES

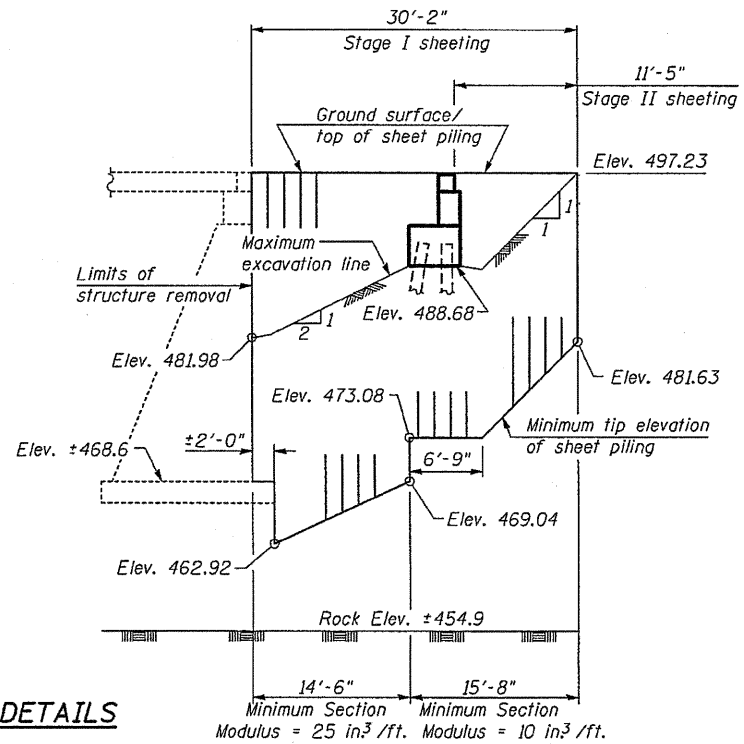
Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 3/4" φ, holes 15/16" φ, unless otherwise noted.
 Calculated weight of Structural Steel = 536,740 pounds.
 All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M270 Grade 50.
 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. 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 designated areas 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 bearings shall be cleaned and shop painted as specified in the Special Provision 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 depth of excavation around existing piers shall not vary by more than 2 feet while they support traffic.
 A copy of the existing bridge plans will be provided upon request.
 The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.
 If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		94	94
Stone Riprap, Class A5	Sq. Yd.		451	451
Stone Dumped Riprap, Class A5	Sq. Yd.		1,293	1,293
Filter Fabric	Sq. Yd.		1,744	1,744
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		341	341
Floor Drains	Each	26		26
Concrete Structures	Cu. Yd.		290.8	290.8
Concrete Superstructure	Cu. Yd.	719.2		719.2
Bridge Deck Grooving	Sq. Yd.	1,965		1,965
Concrete Encasement	Cu. Yd.		11.2	11.2
Protective Coat	Sq. Yd.	2,569		2,569
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	6,588		6,588
Reinforcement Bars	Pound		4,940	4,940
Reinforcement Bars, Epoxy Coated	Pound	172,430	79,010	251,440
Bar Splicers	Each	1,749	607	2,356
Furnishing Steel Piles HP12x53	Foot		900	900
Test Pile Steel HP12x53	Each		2	2
Temporary Sheet Piling	Sq. Ft.		1,556	1,556
Driving Piles	Foot		900	900
Name Plates	Each	1		1
Anchor Bolts, 3/4"	Each	24		24
Anchor Bolts, 1"	Each	12		12
Anchor Bolts, 1/4"	Each	48		48
Pile Shoes	Each		32	32
Elastomeric Bearing Assembly, Type I	Each	18		18
Elastomeric Bearing Assembly, Type II	Each	18		18
Concrete Sealer	Sq. Ft.		780	780
Geocomposite Wall Drain	Sq. Yd.		48	48
Pipe Underdrains for Structures 4"	Foot		151	151
Drainage Scuppers, DS-II	Each	10		10
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Finger Plate Expansion Joint, 6"	Foot	64.0		64.0
Drilled Shaft in Soil	Cu. Yd.		135.1	135.1
Drilled Shaft in Rock	Cu. Yd.		28.8	28.8
Asbestos Bearing Pad Removal	Each	121		121
Temporary Shoring	Each		8	8
Fabric Reinforced Elastomeric Trough	Foot	76		76



WEST ABUTMENT

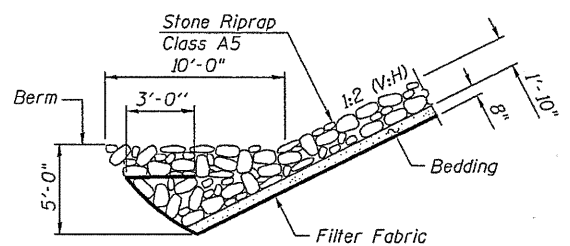


EAST ABUTMENT

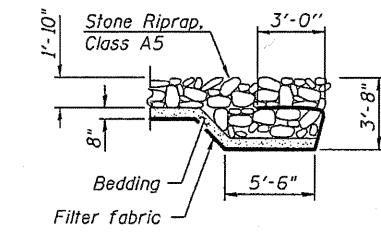
TEMPORARY SHEET PILING DETAILS

Notes:
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

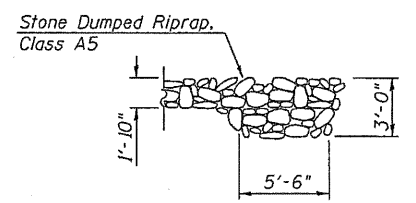
DESIGNED RJP
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DRAWN RJP
CHECKED ADL



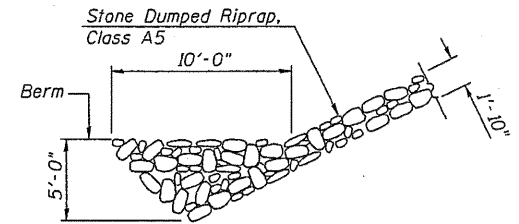
SECTION A-A



SECTION B-B



SECTION D-D



SECTION C-C

GENERAL DATA
S.N. 085-0514

SHEET NO. 2	F.A.P. RTE. 713	SECTION 120B-3	COUNTY SCHUYLER	TOTAL SHEETS 75	SHEET NO. 22
45 SHEETS	FED. ROAD DIST. NO. _ ILLINOIS		FED. AID PROJECT CONTRACT NO. 72A03		

Klingner & Associates P.C.