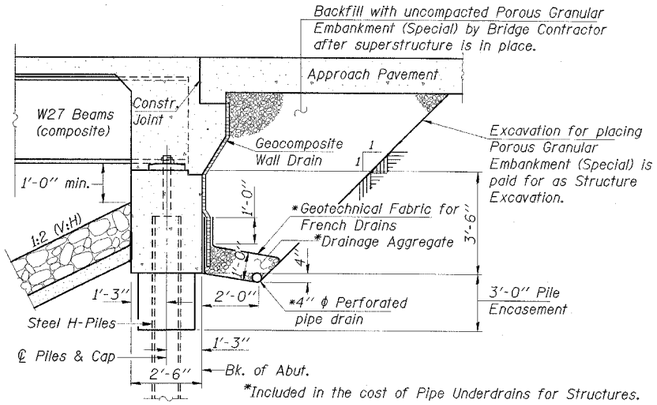
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 328	*	CLAY	61	19
FED. ROAD DIST. NO. *		ILLINOIS	FED. AID PROJECT- AID	

SHEET NO. 2
26 SHEETS

CONTRACT NO. 74037 *(6BR-2)B-1



SECTION THRU INTEGRAL ABUTMENT

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

GENERAL NOTES

1. Fasteners shall be AASHTO M 164 Type 1, mechanically galvanized bolts in painted areas and M 164 Type 3 in unpainted areas. Bolts $^{7}/_{8}$"ϕ, holes $^{15}/_{16}$"ϕ, unless otherwise noted.
2. Calculated weight of Structural Steel = 79,910 lbs.
3. All structural steel shall be AASHTO M270 Grade 50W including structural steel bearing plates and fill plates for splices.
4. Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
5. No field welding is permitted except as specified in the contract documents.
6. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
7. Reinforcement bars designated (E) shall be epoxy coated.
8. 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.
9. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $^{1}/_{8}$" (0.01 ft.) Adjustment shall be made either by grinding the surface or by shimming the bearings.
10. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
11. AASHTO M270 Grade 50W structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3". Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
12. The Contractor shall drive test piles in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
13. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
14. 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.
15. If the Contractor's procedure for existing deck beam removal or placement of new deck beams involves placement of cranes or other heavy equipment on deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the deck beams.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		88	88
Stone Riprap, Class A4	Sq. Yd.		740	740
Filter Fabric	Sq. Yd.		740	740
Removal of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yd.		270	270
Concrete Structures	Cu. Yd.		66.0	66.0
Concrete Superstructure	Cu. Yd.	181.0		181.0
Bridge Deck Grooving	Sq. Yd.	490		490
Protective Coat	Sq. Yd.	613		613
Reinforcement Bars	Pound	150		150
Reinforcement Bars, Epoxy Coated	Pound	38480	7310	45790
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2052		2052
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	384		384
Removal of Existing Precast Prestressed Concrete Deck Beams	Sq. Ft.	384		384
Pipe Underdrains for Structures 4"	Foot		150	150
Geocomposite Wall Drain	Sq. Yd.		66	66
Furnishing Steel Piles HP10x42	Foot		1025	1025
Driving Piles	Foot		1025	1025
Test Pile Steel HP10x42	Each		2	2
Pile Shoes	Each		22	22
Underwater Structure Excavation Protection-Location 1	Each		1	1
Hot-Mix Asphalt Surface Course, Mix "C", C50	Ton	7		7
Asbestos Bearing Pad Removal	Each	44		44
Floor Drains	Each	14		14
Name Plates	Each	1		1
Temporary Sheet Piling	Sq. Ft.		810	810
Removing and Re-erecting Existing Railing	Foot	126		126
Bar Splicers	Each	454	44	498
Anchor Bolts, 1"	Each		36	36
Concrete Encasement	Cu. Yd.		10.0	10.0
Preformed Joint Seal $2^{1}/_{2}$"	Foot	6		6

ESCA CONSULTANTS, INC.

DESIGNED BY:	ELH	01/07
DRAWN BY:	CJ	01/07
CHECKED BY:	ELH	04/07
APPROVED BY:	RDP	04/07

GENERAL DATA
US ROUTE 45 OVER
BUCK CREEK
FAP RTE 328-SECTION (6BR-2)B-1
CLAY COUNTY
STATION 1510+13.00
STRUCTURE NO. 013-0041