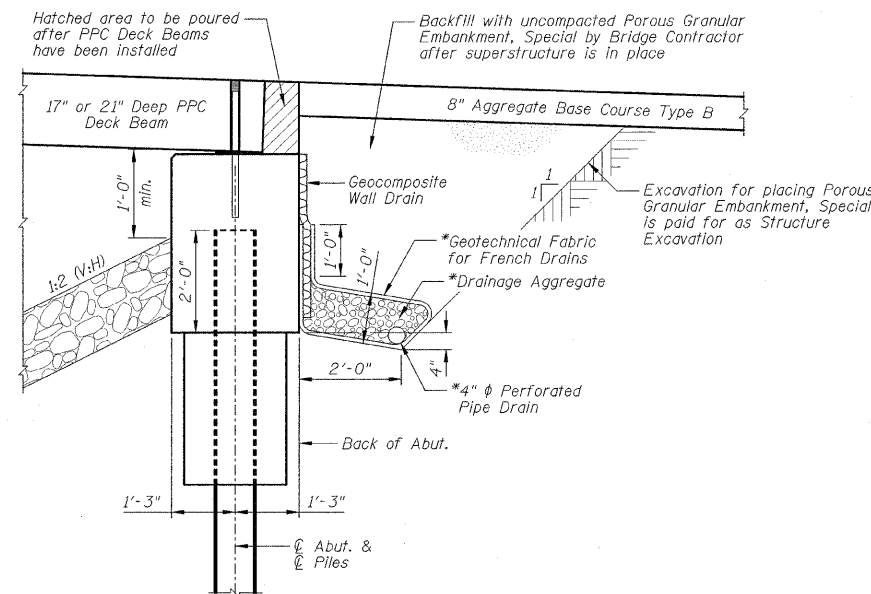


TOTAL BILL OF MATERIAL

ITEMS	UNITS	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		3565	3565
Porous Granular Embankment, Special	Ton		106	106
Stone Riprap, Class A4	Ton		550	550
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		74	74
Rock Excavation For Structures	Cu. Yd.		46	46
Concrete Structures	Cu. Yd.		49.8	49.8
Seal Coat Concrete	Cu. Yd.		4	4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	757		757
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	937		937
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1078		1078
Reinforcement Bars, Epoxy Coated	Pound		8770	8770
Steel Railing, Type S1	Foot	234		234
Furnishing Steel Piles HP10x42	Foot		90	90
Driving Piles	Foot		90	90
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.		30	30
Pipe Underdrains For Structures 4"	Foot		116	116
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1

GENERAL NOTES:

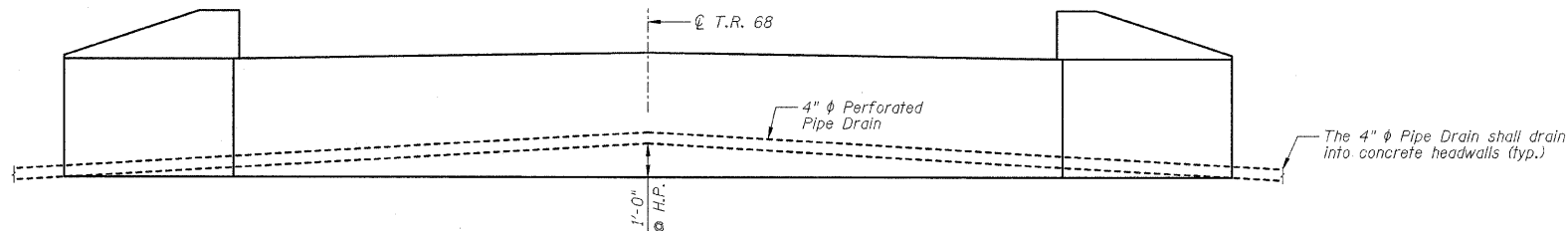
- 1.) Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 2.) Reinforcement bars designated (E) shall be epoxy coated.
- 3.) Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 4.) The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 5.) 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.
- 6.) Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
- 7.) After the beams have been erected, holes shall be drilled into the substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to the top of the beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.
- 8.) The cost of removing the existing guardrail in all four quadrants of the existing bridge shall be included in the cost of Removal of Existing Structures.
- 9.) The quantity Rock Excavation for Structures includes 32 Cu. Yd. for riprap placement and 14 Cu. Yd. for pier footings.



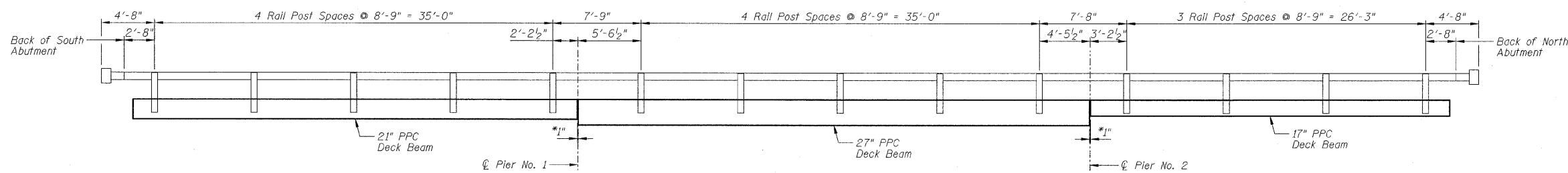
SECTION THRU INTEGRAL ABUTMENT

NOTES:

- 1.) *Included in cost of Pipe Underdrains for Structures.
- 2.) 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).



ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL



RAIL POST SPACING DETAIL

*Approximate distance between PPC Deck Beams.

DESIGNED - JML	REVISED -
DRAWN - DJM	REVISED -
CHECKED - MSW	REVISED -
DATE - 06/22/09	REVISED -

EFFINGHAM COUNTY DEPARTMENT OF HIGHWAYS

BILL OF MATERIAL, GENERAL NOTES AND MISCELLANEOUS DETAILS

**T.R. 68 OVER FULFER CREEK
SECTION 05-07106-00-BR
EFFINGHAM COUNTY
STATION 9+96.25 STRUCTURE NO.025-3318**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
68	05-07106-00-BR	EFFINGHAM	25	8
CONTRACT NO. 95593				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

FARNSWORTH GROUP, INC.

CONSULTING ENGINEERS - 2709 MCGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / (309) 663-1571 FAX