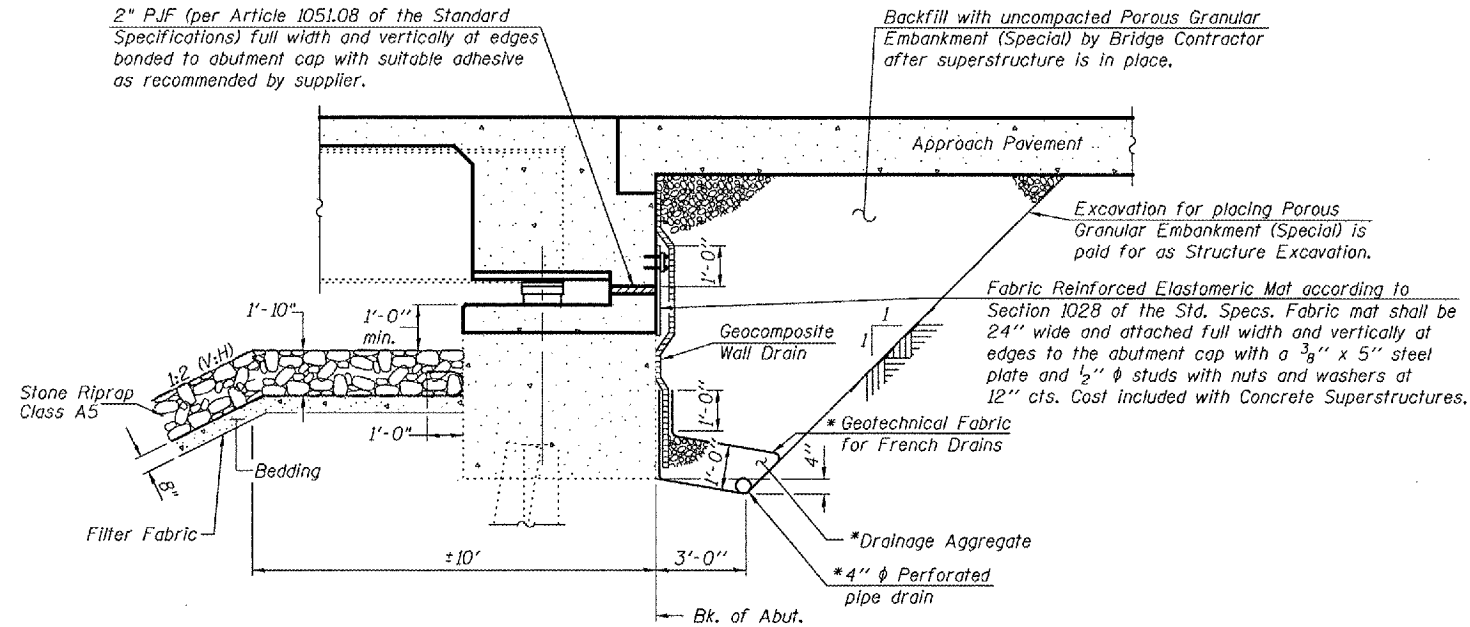


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
F.A.P. 310	28BR-1	WARREN	97	50	16 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #88798



**SECTION THRU SEMI-INTEGRAL ABUTMENT**

\* Included in the cost of Pipe Underdrains for Structures, 4".

Note:

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 60110).

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu. Yd.		170	170
Porous Granular Embankment (Special)	Cu. Yd.		126	126
Concrete Structures	Cu. Yd.		12.2	12.2
Concrete Superstructure	Cu. Yd.	150		150
Stud Shear Connectors	Each	2004		2004
Reinforcement Bars, Epoxy Coated	Pound	35,290	1,500	36,790
Stone Riprap, Class A5	Sq. Yd.		1384	1384
Filter Fabric	Sq. Yd.		1384	1384
Name Plates	Each	1		1
Bridge Deck Grooving	Sq. Yd.	414		414
Concrete Removal	Cu. Yd.		19.2	19.2
Jack and Remove Existing Bearings	Each		12	12
Elastomeric Bearing Assembly, Type I	Each		12	12
Removal of Existing Concrete Deck	Each	1		1
Temporary Sheet Piling	Sq. Ft.		365	365
Bar Splicers	Each	449	10	459
Slope Wall Removal	Sq. Yd.		1056	1056
Protective Coat	Sq. Yd.	547		547
Anchor Bolt 1"φ	Each	24		24
Geocomposite Wall Drain	Sq. Yd.		55	55
Pipe Underdrains for Structures, 4"	Foot		130	130

DESIGNED	Tom L. Kurtenbach
CHECKED	Alan M. Johnson
DRAWN	AMC Amber M. Seiber
CHECKED	TLK/AMJ

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL DATA**  
F.A.P. ROUTE 310 - SECTION 28BR-1  
WARREN COUNTY  
STATION 829+24.00  
STRUCTURE NO. 094-0002