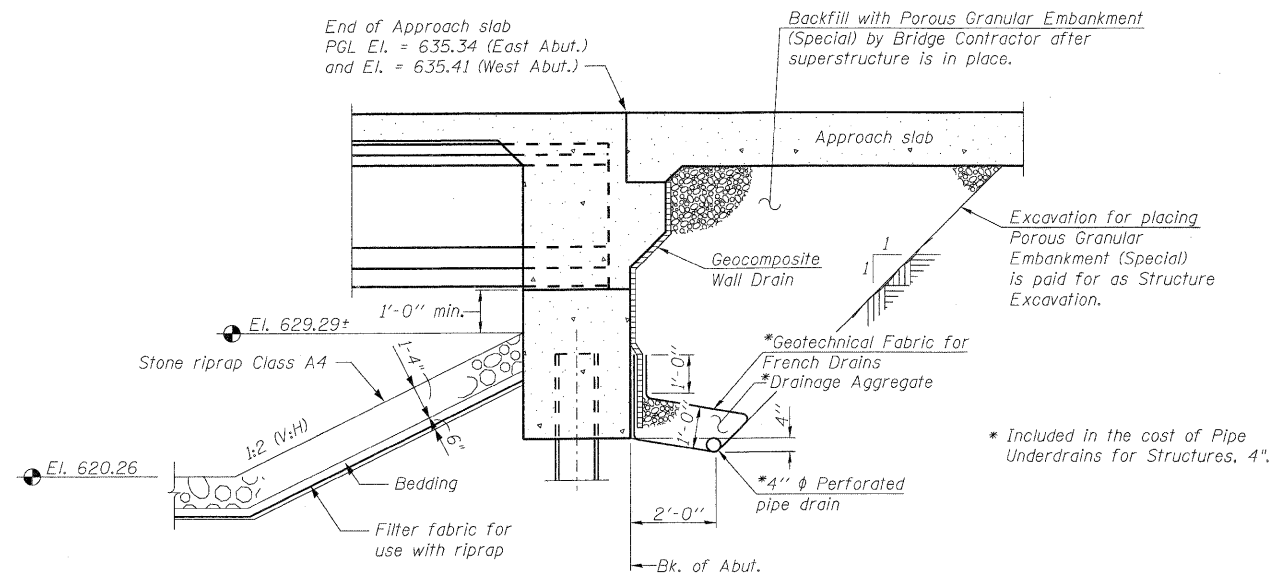


NOTES:

- Channel Excavation shall consist of the removal and disposal of all materials retained behind the existing abutments down to the proposed final grade (top of riprap), see Roadway Plans for limits of Channel Excavation.

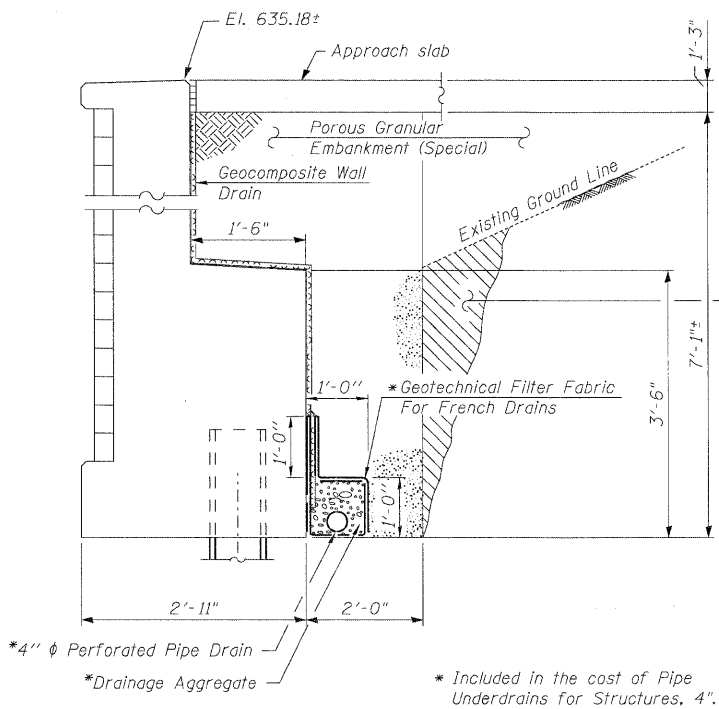
BILL OF MATERIAL

Item	Unit	Total
Stone Riprap, Class A4	Sq. Yd.	745
Filter Fabric	Sq. Yd.	745

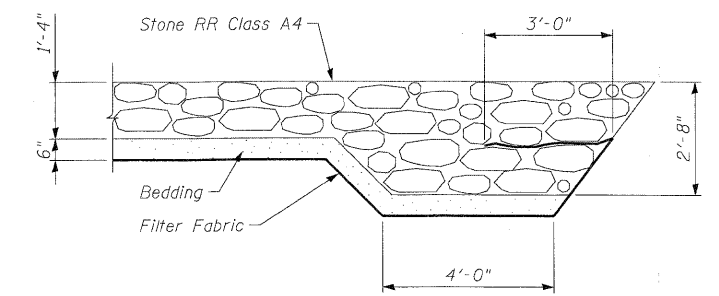


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

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 601101).



SECTION B-B



SECTION A-A
Typical Flank Stone Riprap Treatment

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT AND PROTECTION
STRUCTURE NO. 016-2831

OR R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
213	0102B-1	COOK	54	17
D-91-052-02		CONTRACT NO. 62390		

LONGO, INC.
CONSULTING ENGINEERS
1560 WALL ST., SUITE 222
NAPERVILLE, ILLINOIS 60563 PH: (630) 577-9100

DESIGNED - MJM	REVISED -
CHECKED - WHE	REVISED -
DRAWN - SLV	REVISED -
CHECKED - MJM	REVISED -

SHEET NO. 3 OF 24 SHEETS

ILLINOIS FED. AID PROJECT