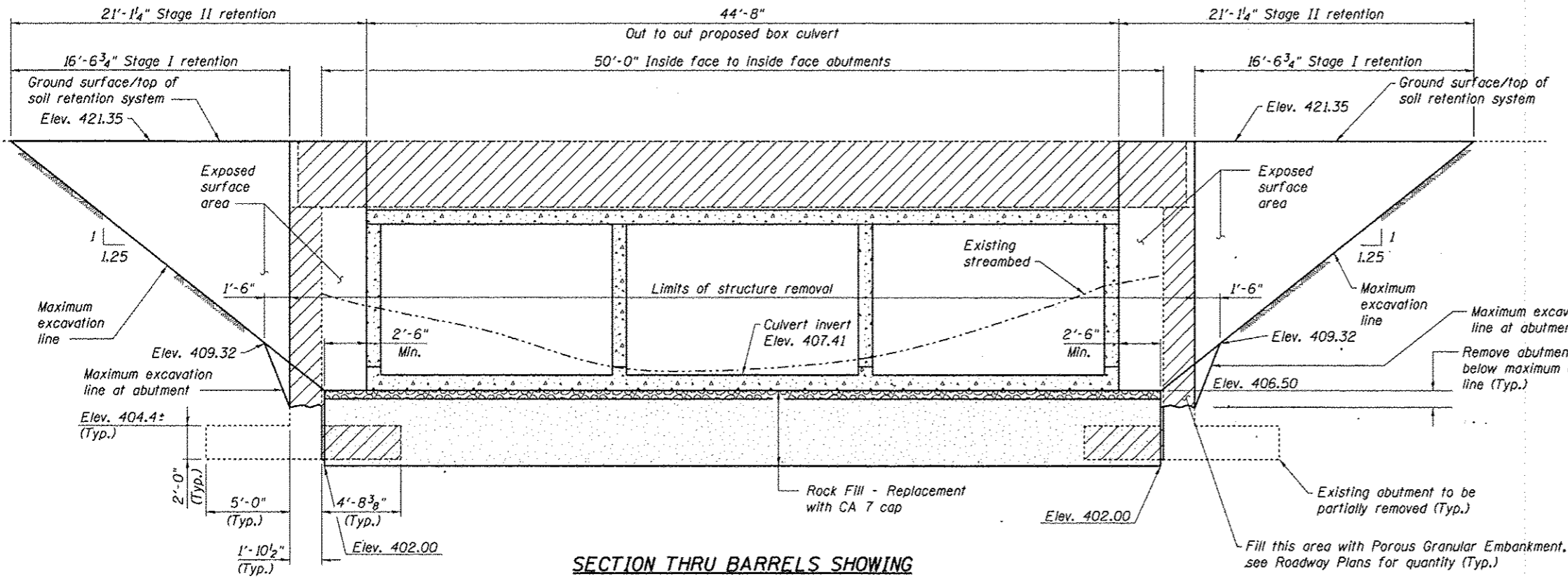


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**SECTION THRU BARRELS SHOWING  
TEMPORARY SOIL RETENTION SYSTEM LIMITS**  
(Dimensions parallel to  $\phi$  FAP 781)

**NOTES**

- Existing structure details are based on the best available information from existing bridge plans.
- A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- Limits of Rock Fill - Replacement are shown for culvert outside of the existing bridge. For culvert inside of the existing bridge, widen limits to the inside faces of the existing abutments.

**GENERAL NOTES**

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- For backfilling and embankment outside of the limits of Rock Fill - Replacement see Standard Specifications.
- Precast alternate is not allowed.
- Remove unsuitable soil beneath the footprint of the box culvert and two feet beyond the perimeter of the culvert and wingwalls as shown on Sheet No. 1. Replace with rock fill.
- The limits and quantities of Removal and Disposal of Unsuitable Material for Structures and Rock Fill - Replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	515
Stone Riprap, Class A4	Sq. Yd.	257
Filter Fabric	Sq. Yd.	257
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	62,780
Bar Splicers	Each	188
Temporary Soil Retention System	Sq. Ft.	362
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	284.0
Geotextile Retaining Wall	Sq. Ft.	148
Permanent Steel Sheet Piling	Sq. Ft.	402
Rock Fill - Replacement	Ton	875

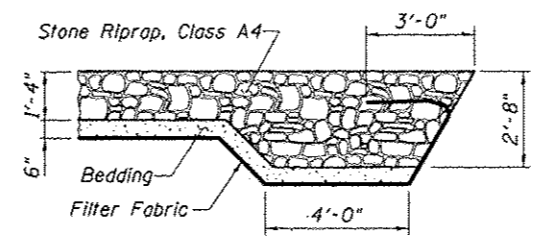
See Roadway Plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Porous Granular Embankment.

**ESCA**  
CONSULTANTS, INC.

DESIGNED BY:	ELH	03/10
DRAWN BY:	DWH/HAS	03/10
CHECKED BY:	ELH	06/10
APPROVED BY:	RDP	06/10

STATION 705+40  
BUILT BY  
STATE OF ILLINOIS  
F.A. RT. 781 SEC. 109B-1  
LOADING HS20-44  
STR. NO. 051-2008

**NAME PLATE**  
See Std. 515001



**SECTION A-A**

**GENERAL DATA  
STRUCTURE NO. 051-2008**

SHEET NO. 2 10 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	781	109B-1	LAWRENCE	34	16
CONTRACT NO. 74105					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					