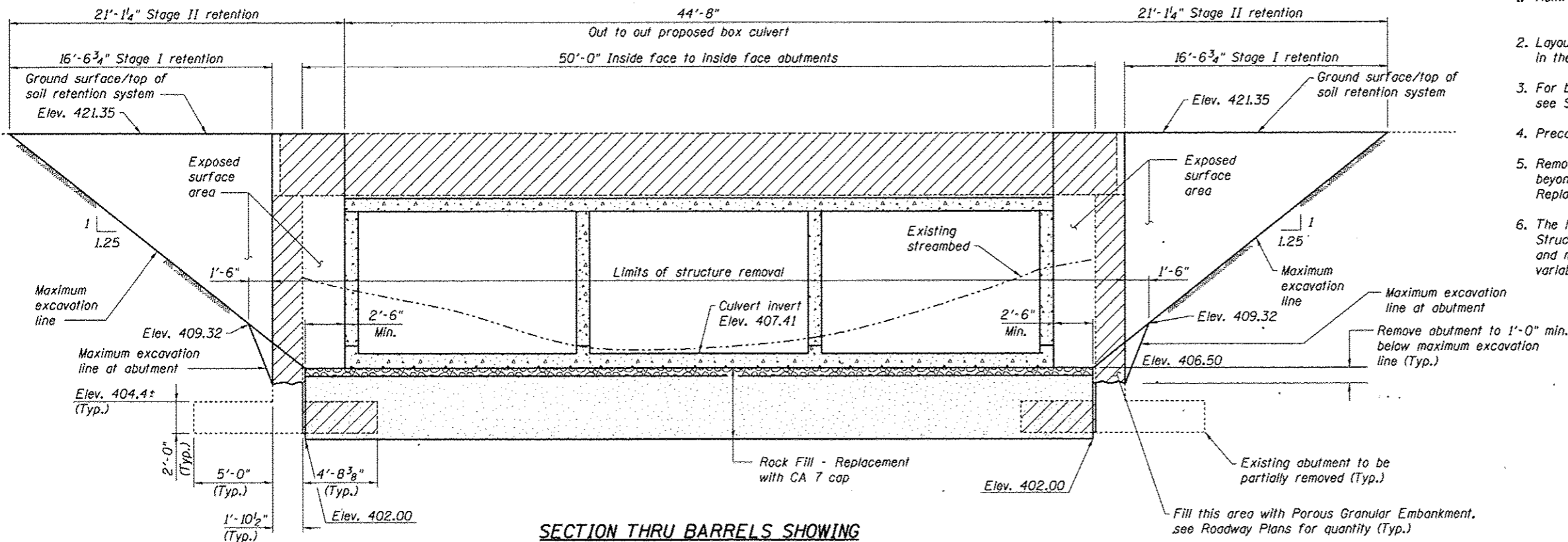


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. For backfilling and embankment outside of the limits of Rock Fill - Replacement see Standard Specifications.
4. Precast alternate is not allowed.
5. 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.
6. 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.



**SECTION THRU BARRELS SHOWING  
TEMPORARY SOIL RETENTION SYSTEM LIMITS**

(Dimensions parallel to  $\odot$  FAP 781)

**NOTES**

1. Existing structure details are based on the best available information from existing bridge plans.
2. 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.
3. 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.

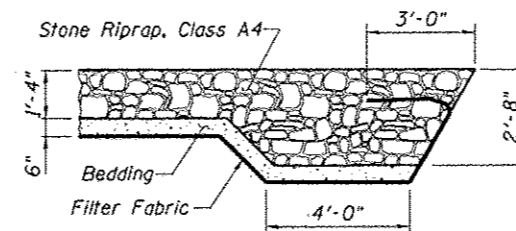
**TOTAL BILL OF MATERIAL**

| 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.

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<br>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 |                    |              |           |

**ESCA**  
CONSULTANTS, INC.

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