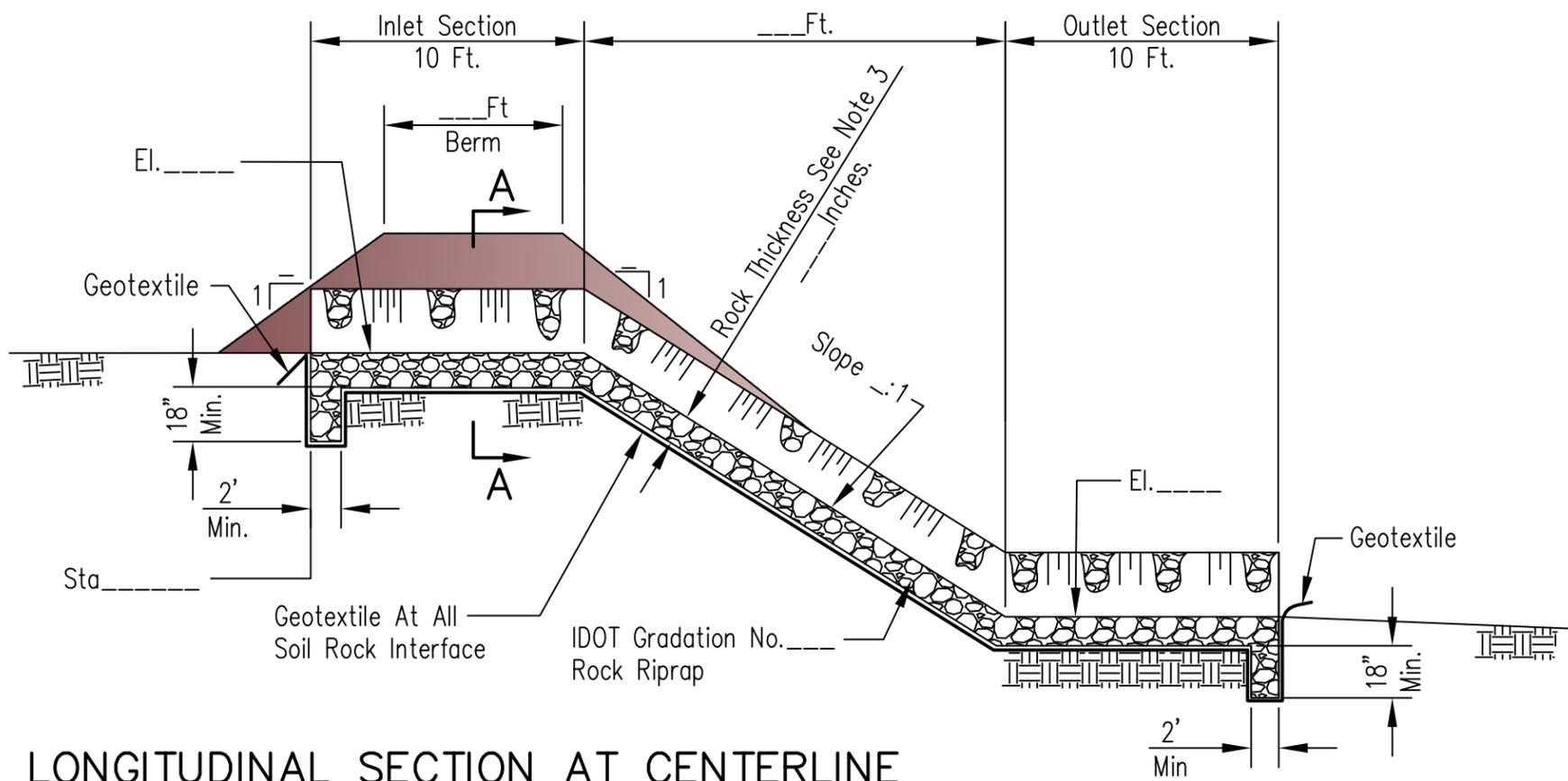


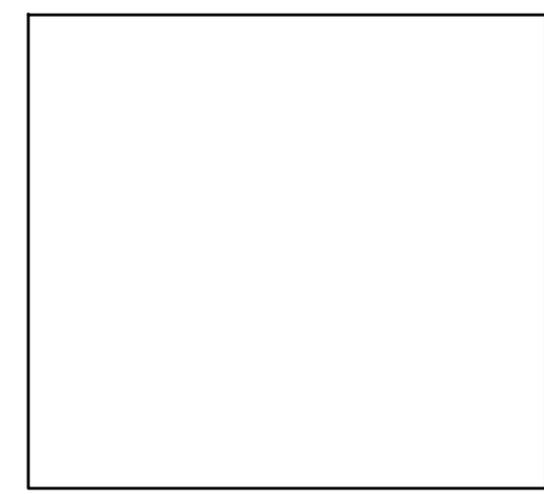
**PLAN VIEW**



**LONGITUDINAL SECTION AT CENTERLINE**

**CONSTRUCTION NOTES:**

1. This standard drawing does not apply to rock outlets with two feet or less of overfall.
2. Rock size shall be IDOT Quality Designation A Gradation No. \_\_\_\_\_.
3. Minimum rock depth is 1.5 times the D<sub>50</sub> riprap size or 18 inches which ever is greater.
4. Geotextile (non-woven, needle punched) Minimum criteria:  
 Grab tensile strength (lb) ASTM D 4632 \_\_\_\_\_ 202  
 Elongation at failure (%) ASTM D 4632 \_\_\_\_\_ ≥ 50  
 Trapezoidal tear strength (lb) ASTM D 4533 \_\_\_\_\_ 79  
 Puncture strength (lb) ASTM D 6241 \_\_\_\_\_ 433  
 Ultraviolet light (% retained strength) ASTM D 4355\_min 50  
 Apparent opening size (AOS) ASTM D 4751 \_\_\_\_\_  
 \_\_\_\_\_ max 0.22 mm (US sieve size 70)  
 Permittivity sec<sup>-1</sup>/ ASTM D 4491 \_\_\_\_\_ min 0.70
5. Geotextile fabric shall extend around the upstream and downstream cutoff trenches, shall be keyed into upstream of the upper cutoff trench. Any splices shall overlap a minimum 24 inches, with upstream upslope geotextile overlapping the abutting down slope geotextile.
6. The rock shall be compacted with the placement equipment to increase in-place density. The complete job shall be present a workmanlike finish.



SEC. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_

Benchmark Description

TBM: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ Elev.: \_\_\_\_\_

Date	6/1/14
Designed	M. QUINONES
Drawn	
Checked	
Approved	

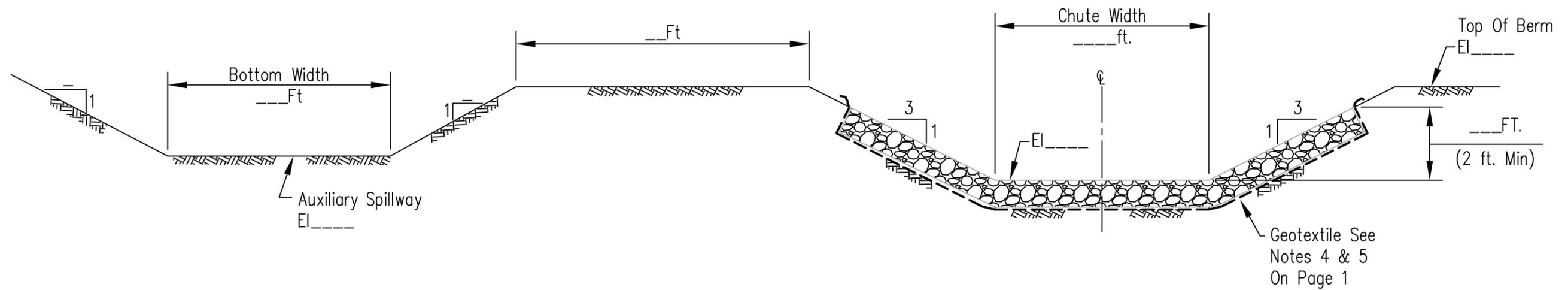
**ROCK RIPRAP CHUTE**



File No. IL-ENG-184

Drawing No. Page 1 of 2

Sheet of



SECTION A-A

Auxiliary Spillway To Be Built On  
 \_\_\_\_\_ Side (Looking Downstream)

BILL OF MATERIAL		
ITEM	QUANTITY	UNIT
Rock Riprap		Tons
Geotextile		Sq. Yd.

Date \_\_\_\_\_  
 Designed \_\_\_\_\_  
 Drawn M. QUINONES 6/1/14  
 Checked \_\_\_\_\_  
 Approved \_\_\_\_\_

ROCK RIPRAP CHUTE



File No. IL ENG-184  
 Drawing Set  
 Page 2 of 2  
 Sheet of