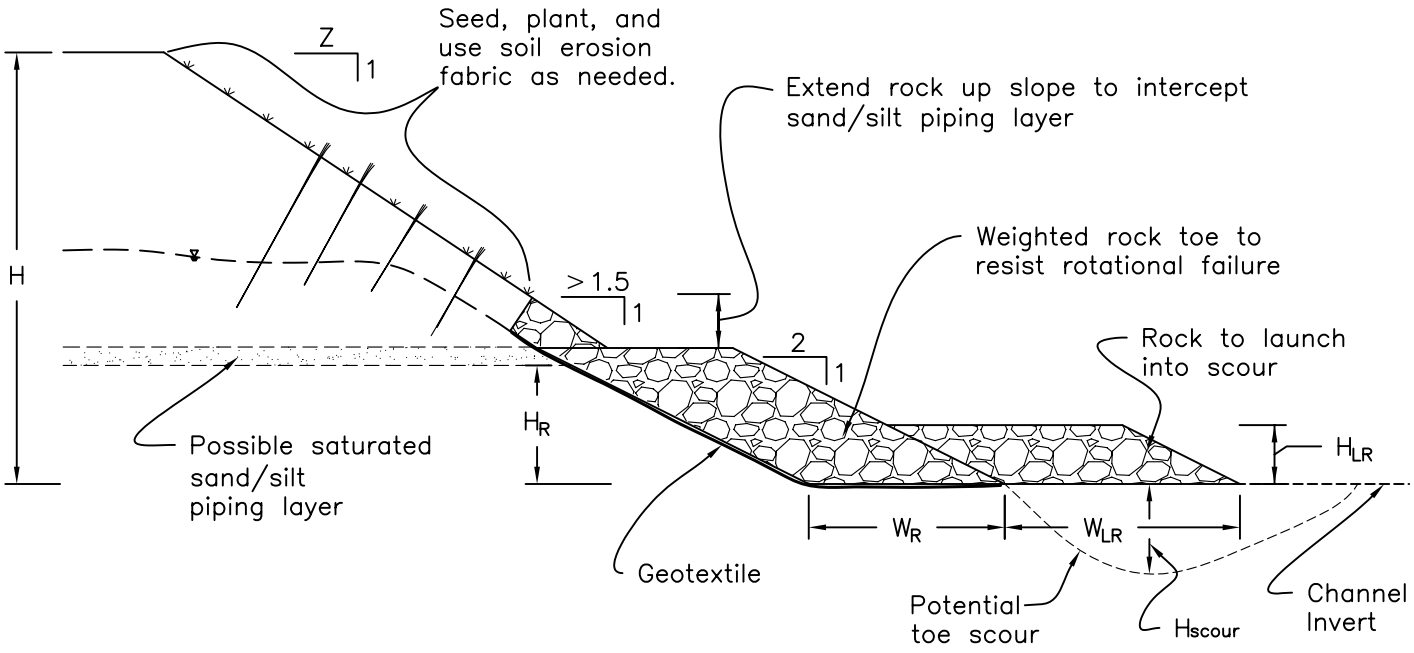


$H=20$

$H_{scour}=5'$

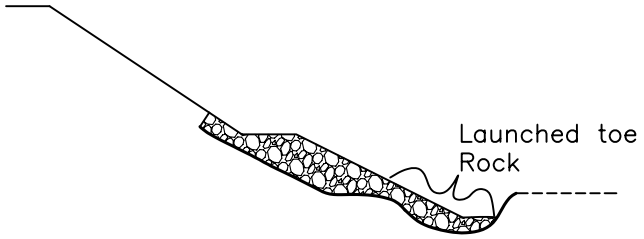
$H_R=6'$

$W_R=6'$

$Z=3$

$H_{LR}=3'$

$W_{LR}=12'$



Rock launches into toe scour to prevent undermining of weighted rock toe.

Notes:

- Slope(Z) is based on the stability analysis of a clay slope with Φ= 25°, C= 75psf, and γ=115pcf. F.S.=1.3. A site specific geotechnical analysis may result in determining that the soil parameters would allow for a steeper slope or require a flatter slope.
- Use a minimum slope of Z=4 if upper bank is predominantly sand.
- Geotextile may not be necessary if bank material is homogenous (uniform) clay (PI>10).
- Extend live cuttings through riprap and graded bank to water table.
- Do not install live cuttings through geotextile if piping/sapping is a concern.

Conceptual Plan - Not for Construction

N.T.S.

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

Stone Toe Bank Protection – Cohesive Soils, Launchable Scour Protection

Designed	W. Anderson, J. Fripp	Date 04/07
Drawn	J. Renteria	04/07
Checked		
Approved		

File Name: Cohesive–Soils.dwg

Drawing Name: LaunchableScour

04/11/07

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