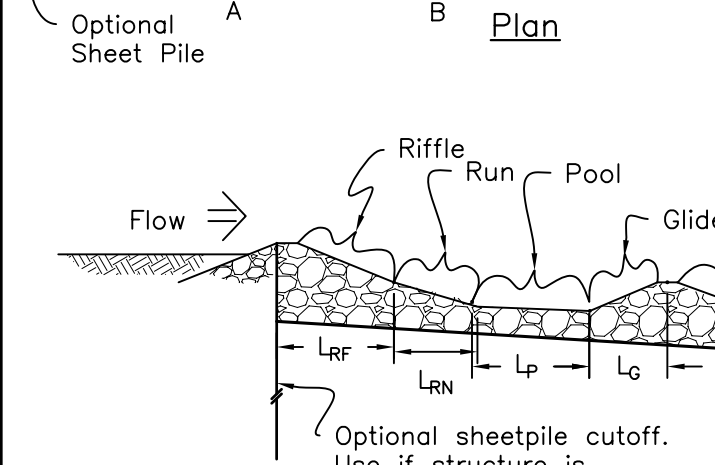


Slope Riffle ( $S_{RF}$ ) = \_\_\_\_\_ ( $\sim 1.5S_0$  to  $2S_0$ )  
 Slope Run ( $S_{RN}$ ) = \_\_\_\_\_ ( $\sim 2S_0$ )  
 Slope Pool ( $S_P$ ) = \_\_\_\_\_ ( $0$  to  $\frac{1}{2}S_0$ )  
 Slope Glide ( $S_G$ ) = \_\_\_\_\_ ( $-S_{RN}$ )  
 (Slope from beginning of run to the end of the glide should be  $< \frac{1}{2}$  of riffle slope)



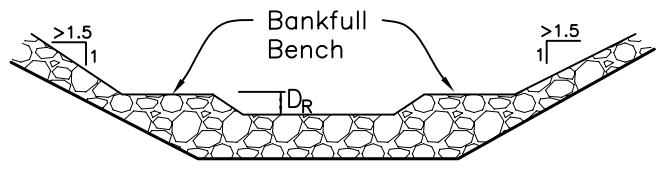
**Profile (centerline)**

$L_{RF}$  = \_\_\_\_\_  
 $L_{RN}$  = \_\_\_\_\_ ( $\sim \frac{2}{3}L_{RF}$ )  
 $L_P$  = \_\_\_\_\_ ( $\sim L_{RF}$ )  
 $L_G$  = \_\_\_\_\_ ( $\sim L_{RN}$ )  
 (Length of riffle  $\sim \frac{1}{2}$  length of entire pool including run, pool and glide as shown on the plans)  
 $L_{RF} \sim \frac{1}{2} (L_{RN} + L_P + L_G)$

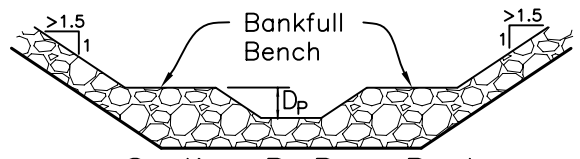
Optional sheetpile cutoff.  
 Use if structure is constructed on highly erodible fine sands or similar mobile, permeable bed material

Optional sheetpile cutoff.  
 Use to resist advancing downstream headcuts

$D_R$  = \_\_\_\_\_ (Bankfull depth)  
 $D_P$  = \_\_\_\_\_ ( $\sim 2$  to  $3D_R$ )



**Section A-A - Riffle**



**Section B-B - Pool**

Note:

- Chute rock size to be stable at highest design discharge (use rock chute design and apply results to riffle slope)
- Minimum rock thickness shall not be less than  $2D_{50}$
- Design was originally developed for a Rosgen C stream

**Conceptual Plan - Not for Construction**

N.T.S.



Step - Pool Rock Chute

Designed	Slowik, Robinson, Fripp, Mueller	Date	04/07	File Name	Step-Pool Rock Chute.dwg
Drawn	J. Renteria	Date	04/07	Drawing Name	Step-Pool Rock Chute
Checked					06/12/07
Approved				Sheet	of