Note: Bottom width of pool is ~½ the bottom width of riffle.

Plan

Slope Riffle \( S_{RF} = \) _____ (~1.5\( S_0 \) to 2\( S_0 \))
Slope Run \( S_{RN} = \) _____ (~2\( S_0 \))
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)

\( l_{RF} = \) _____
\( l_{RN} = \) _____ (~\( \frac{1}{2} l_{RF} \))
\( l_P = \) _____ (~\( l_{RF} \))
\( l_G = \) _____ (~\( l_{RN} \))
(Length of riffle ~\( \frac{1}{2} \) length of entire pool including run, pool and glide as shown on the plans)

\( l_{RF} + l_P + l_G\)

\( D_R = \) _____ (Bankfull depth)
\( D_p = \) _____ (~2 to 3\( D_R \))

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 2\( D_50 \)
- Design was originally developed for a Rosgen C stream

Conceptual Plan - Not for Construction

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

Step - Pool Rock Chute

File Name: Step-Pool Rock Chute.png
Designed: Fripp, Mueller 04/07
Drawing Name: Step-Pool Rock Chute
Checked: Renteria 04/07
Approved: 06/12/07
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