Sheet pile to follow natural ground to high bank.

Natural Ground

Bank full Channel width

Bank full depth

Normal flow

Gap between riffle boulder of \( \frac{1}{2} - \frac{3}{4} D \)

Stability depth

\( \geq 12 \times \text{differential head} \)

\( \geq 12 \times \text{differential head} \)

Sheet Pile

Chute Plan View

Flow

Sheet Pile cut off

Plant edge with live cuttings

Bank full width

D

H

\( \geq 15 \ D_{50} \) of chute rock

Min. thickness = \( 20_{50} \) of chute rock

Chute rock size to be stable at highest design discharge.

(use rock chute design)

Offset riffle boulders so flow is circuitous.

Riffle boulder typical 1.5 to 2.5x Dia. of rock in chute

Project Riffle Boulder above grade.

Riffle boulders should be seated in the rock mantle of the chute.

Note: Maximum slope for warm water species is 5%. Maximum slope for salmonid species is 10%.

Conceptual Plan Not for Construction

NRCS

United States Department of Agriculture

Rock Chute - Sheet Pile Cut Off

K. Robinson, Date

J. Frapp, K. Gullett 01/07

J. Renteria 01/07

05/31/07

Sheet 1 of 1