Riprap Chute

**DATA**
- Design discharge (Q)
- Bottom width (b)
- Side slope (Z)
- Depth (d)
- Riprap size (d_{50})
- Riprap thickness (T)
- Slope (s)

**Typical Section**

- Type GS-1 geotextile fabric
- 3' min.
- 10' min.

**Source:** Adapted from MD Stds. & Specs. for ESC

**Symbol:** RRC

**Detail No.** DE-ESC-3.3.9.1

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Effective FEB 2019
Construction Notes:

1. Riprap chutes shall have a trapezoidal cross section with side slopes of 2:1 or flatter. Minimum flow depth shall be 1’ with a minimum bottom width of 3’.

2. Entrance and exit aprons shall be provided as transition areas. Aprons shall be a minimum of 10’ in length.

3. The riprap layer thickness shall be 1.5 X Dmax, with a minimum of 12”.

4. All riprap shall be underlain with Type GS-I geotextile fabric.