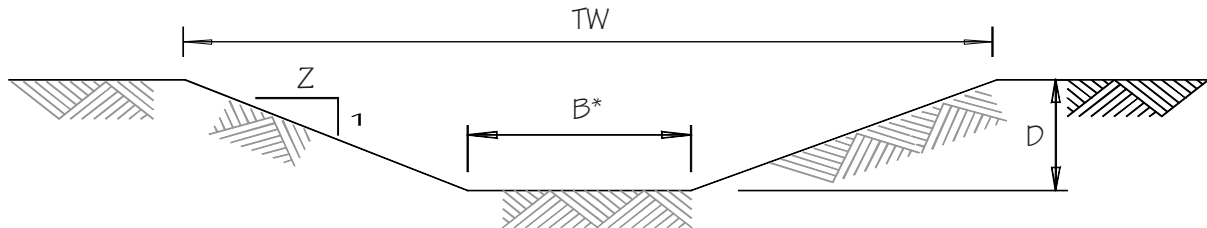


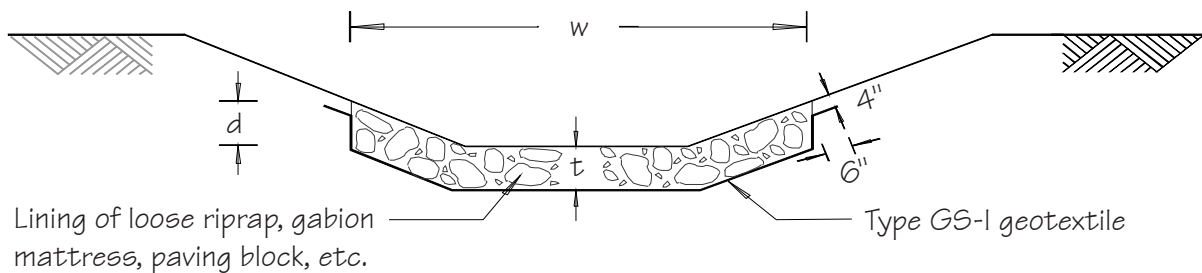
Standard Detail & Specifications

Lined Channel - Triang./Trap.



* $B = 0$ for triangular section

Typical Section (Design)



Lining of loose riprap, gabion mattress, paving block, etc.

Type GS-I geotextile

Typical Section (Lining)

DATA

Design discharge (Q_d)
Design topwidth (TW)
Design depth (D)
Design bottom width (B)
Design sideslope (Z)
Width of lining (w)*
Lining flow depth (d)
Thickness of lining (t)*
Median stone size (d_{50})**

*For gabions & reno mattresses, specify basket dimensions to be used.

**For paving block, etc., specify size to be used.

Source:

Adapted from
VA ESC Manual

Symbol:

———— **LC/T** —————>

Detail No.

DE-ESC-3.3.4.2

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Standard Detail & Specifications

Lined Channel - Triang./Trap.

Construction Notes:

1. All trees, brush, stumps, obstructions, and other objectionable material shall be removed and disposed of so as not to interfere with the proper functioning of the waterway.
2. The channel shall be excavated or shaped to line, grade, and cross section as required to meet the criteria specified herein, and be free of bank projections or other irregularities which will impede normal flow.
3. Fills shall be compacted as needed to prevent unequal settlement that would cause damage in the waterway.
4. All earth removed and not needed in construction shall be spread or disposed of so that it will not interfere with the functioning of the waterway.
5. Lining shall be installed to the design dimensions specified on the approved plan. Type GS-I geotextile shall be used on all installations unless specifically approved otherwise. All pre-engineered linings shall be installed in accordance with the manufacturer's recommendations.
6. Lining material shall be as specified on the approved plans with respect to dimension, density, strength, or other criterion so specified.
7. Stabilization shall be done according to the appropriate Standard and Specifications for Vegetative Stabilization.

Source:

Adapted from
VA ESC Manual

Symbol:

———— **LC/T** —————→

Detail No.

DE-ESC-3.3.4.2

Sheet 2 of 2

Effective January 2026