

File: V:\PROJECTS\ANY\46\072986.000\09_DESIGN\DRAWINGS\01_SHEETS\C-4XX_72986.DWG
Saved: 11/9/2022 11:01:48 PM Plotted: 11/9/2022 3:28:44 PM Current User: Stphn_Cheng LastSavedBy: 7257

E-6 STANDARDS AND SPECIFICATIONS

FOR

FILTER LOG

Definition

A temporary, tubular casing filled with compost filter media.

Purpose

To intercept sheet flow, retain sediment, and filter runoff through the log media.

Conditions Where Practice Applies

Filter logs are an alternative to silt fence and can be used in hard to reach areas, on frozen ground and pavement, and near tree roots.

Note: fiber rolls are not interchangeable with filter logs. Although similar in appearance, fiber rolls are filled with rice or wheat straw, flax, coconut fiber, or wood excelsior, and are used when stabilizing and revegetating slopes because they slow and spread overland flow, thereby minimizing erosion, rills, and gullies.

Design Criteria

Table E.6: Filter Log Design Constraints

Log Diameter	8 to 15 inches	>15 to 24 inches
Average Slope	Maximum Slope Length (ft)	
Flatter than 50:1 (<2%)	125	250
50:1 to 10:1 (2 – 10%)	65	125
<10:1 to 5:1 (>10 – 20%)	50	100
<5:1 to 2:1 (>20 – 50%)	N/A	50

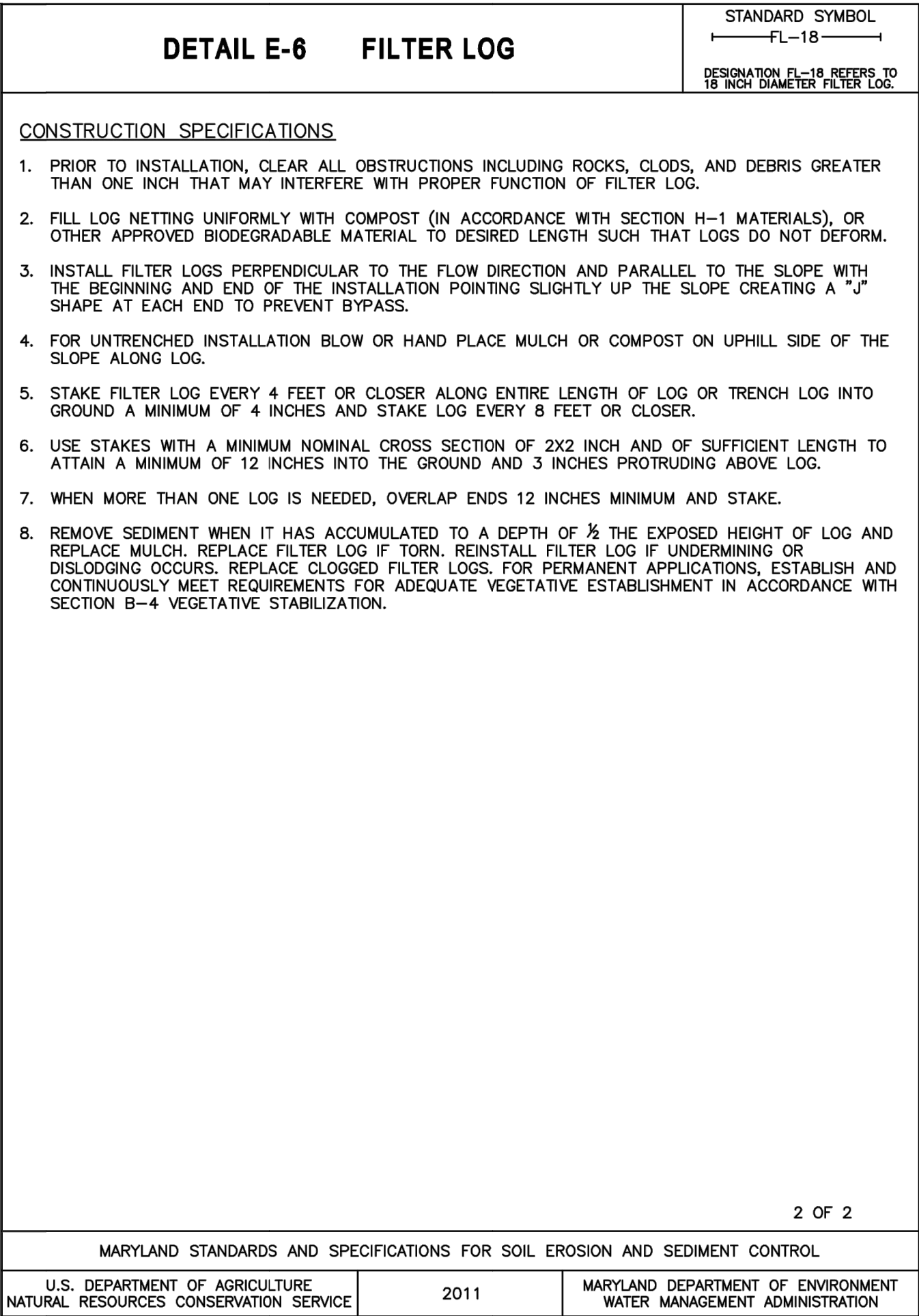
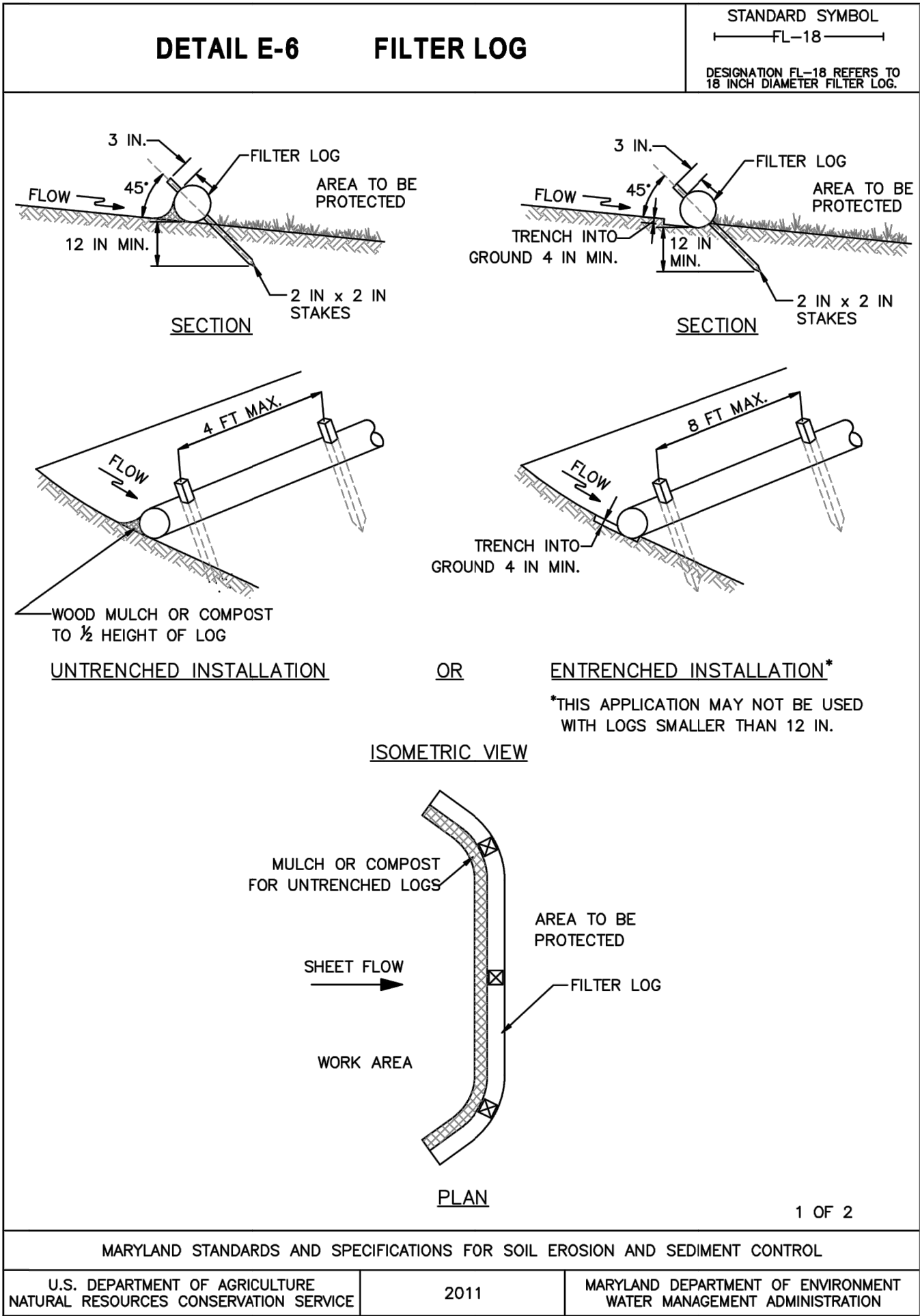
- Filter logs must be placed on the contour with the ends turned upgrade to prevent bypass.
- Filter logs can only be used with sheet flow.
- Filter logs must be used in accordance with the design constraints in Table E.6.
- The filter media must be compost in accordance with Table H.3 or other approved biodegradable materials.
- Filter logs must either be staked every 4 feet maximum, or trenched a minimum of 4 inches into the ground and staked every 8 feet maximum.

E.13

Maintenance

Sediment and debris must be removed and mulch replaced when sediment has accumulated to a depth of one half the exposed height of the log. The filter log must be replaced if clogged or torn. The filter log needs to be reinstalled if undermined or dislodged. For permanent applications, vegetation must be established and maintained so that the requirements for Adequate Vegetative Establishment are met in accordance with Section B-4 Vegetative Stabilization.

E.14



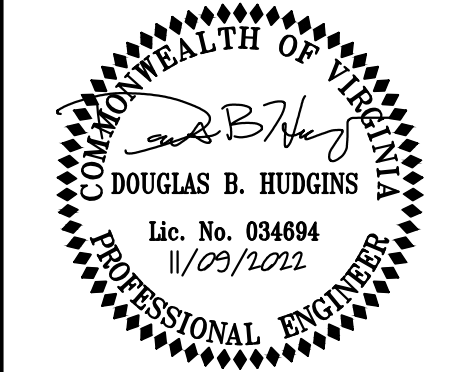
NOTES:

- FILTER LOG/SOCK FLOW RATE MUST BE EQUAL TO OR LESS THAN THAT OF SILT FENCE SPECIFIED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- FILTER LOG/SOCK EFFICIENCY MUST BE GREATER THAN 97 PERCENT.

1 FILTER SOCK SPECIFICATION AND DETAIL

SCALE: N.T.S.

Drawing Copyright © 2022



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

WESTERN VIRGINIA
WATER AUTHORITY

CRAWFORD JANNEY
SANITARY SEWER
REPLACEMENT

No.	Submittal / Revision	App'd	By	Date

BID ISSUE DBH CCS 11/09/22

EROSION &
SEDIMENT
CONTROL DETAILS

Designed By: CCS	Drawn By: CCS	Checked By: DBH
Issue Date: 11/09/2022	Project No: 072986.000	Scale: AS SHOWN

Drawing No.:

C-404