

## REINFORCED SILT FENCE

### Installation:

The fence should be placed across the slope along a line of uniform elevation (perpendicular to the direction of flow). The fence should be located at least 10-feet from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout.

A flat-bottom trench approximately 4-inches wide and 8-inches deep, or a V-shaped trench 8-inches deep should be excavated. On the downslope side of the trench, drive the 1.33 lb./linear foot steel posts at least 12-inches into the ground, spacing them no further than 6-feet apart.

Posts should be installed, with 1- to 2-inches of the post protruding above the top of the fabric and no more than 3-feet of the post should protrude above the ground. The minimum fence height (height of filter fabric) above grade shall be 18-inches. The maximum fence height (height of filter fabric) above grade shall be 24-inches.

Fasten the 6-inch by 6-inch 14 gage wire mesh to the upslope side of the posts using heavy duty wire staples at least 1-Inch long, tie wires or hog rings. Extend the mesh a-inches into the trench.

The filter fabric should be purchased in a continuous roll and cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth should be wrapped together only at a support post with both ends securely fastened to the post, with a minimum a-Inch overlap.

Extra-strength filter cloth (50 pounds / linear inch minimum tensile strength) should be used. Use plastic wire ties to attach the fabric to the post and wire. Extend 12-inches of the fabric into the trench.

Place the bottom 12-inches of the filter fabric into the 8-inch deep trench, extending the remaining 4-inches towards the up-slope side of the trench and backfill the trench with soil or gravel and compact.

### Inspection and Maintenance:

Inspect slit fence every seven (7) calendar days and within 24-hours after each rainfall event that produces \_\_-inches or more of precipitation. Check for areas where runoff has eroded a channel beneath the fence, or where the fence was caused to sag or collapse by runoff overtopping the fence.

If the fence fabric tears, begins to decompose, or in any way becomes ineffective, replace the affected section of fence immediately.

Sediment must be removed when it reaches approximately 1/3 the height of the fence, especially if heavy rains are expected. Reinforced slit fence should be removed within 30 days after final site stabilization is achieved or after temporary BMPs are no longer needed. Trapped sediment should be removed or stabilized on site. Disturbed areas resulting from fence removal shall be permanently stabilized.



## City of Bowling Green

Public Works Planning and Design  
1011 College Street  
Bowling Green, Kentucky 42101

## SILT FENCE INSTALLATION HEAVY DUTY

STANDARD DRAWING NO. **SMP-02-05**

APPROVED BY: \_\_\_\_\_ DATE \_\_\_\_\_  
DIRECTOR OF ENGINEERING

SOURCE: LOUISVILLE MSD & TDEC