Specifications for Silt Fence (Not to Scale) 10' Max. Level contour No slope **ELEVATION** Flat slope in front of barrier 16" Min. SECTION Wrap geotaxtile around stakes before driving Trench to be backfilled and compacted Joinina sections of silt fence

Specifications

for

Silt Fence

- 1. Silt fence shall be constructed before upslope land distir- 9. Seams between sections of silt fence shall be spliced
- 2. All silt fence shall be placed as close to the contour as possible so that water will not concentrate at low points in the fence and so that small swales or depressions that may carry small concentrated flows to the silt fence are dissipated along its length.
- 3. Ends of the silt fences shall be brought upslope slightly so that water ponded by the silt fence will be prevented from flowing around the ends.
- 4. Silt fence shall be placed on the flattest area available.
- 5. Where possible, vegetation shall be preserved for 5 feet (or as much as possible) upslope from the silt fence. If vegetation is removed, it shall be reestablished within 7 days from the installation of the silt fence.
- 6. The height of the silt fence shall be a minimum of 16 inches above the original ground surface.
- 7. The silt fence shall be placed in an excavated or sliced trench cut a minimum of 6 Inches deep. The trench shall be made with a trencher, cable laying machine, slicing machine, or other suitable device that will ensure an adequately uniform trench depth.
- 8. The silt fence shall be placed with the stakes on the downslope side of the geotextile. A minimum of 8 Inches of geotextile must be below the ground surface. Excess material shall lay on the bottom of the 6-inch deep trench. The trench shall be backfilled and compacted on both sides of the fabric.

- together only at a support post with a minimum 6-in. overlap prior to driving into the ground, (see details).
- 10 Maintenance—Silt fence shall allow runoff to pass only as diffuse flow through the geolextile. If runoff overtops the silt fence, flows under the fabric or around the fence ends, or in any other way allows a concentrated flow discharge, one of the following shall be performed, as appropriate: 1) the layout of the silt fence shall be changed, 2) accumulated sediment shall be removed, or 3) other practices shall be installed.

Sediment deposits shall be routinely removed when the deposit reaches approximately one-half of the height of the silt fence

Slit fences shall be inspected after each rainfall and at least daily during a prolonged rainfall. The location of existing silt fence shall be reviewed daily to ensure its proper location and effectiveness. If damaged, the silt fence shall be repaired immediately.

Criteria for silt fence materials

- 1. Fence post The length shall be a minimum of 32 inches. Wood posts will be 2-by-2-in, nominal dimensioned hardwood of sound quality. They shall be free of knots. splits and other visible imperfections, that will weaken the posts. The maximum spacing between posts shall be 10 ft. Posts shall be driven a minimum 16 inches into the ground, where possible. If not possible, the posts shall be adequately secured to prevent overturning of the fence due to sediment/water loading.
- 2. Silt fence labric See chart below.

Table 6.3.2 Minimum criteria for Silt Epace Ephric (0007, 2002)

FABRIC PROPERTIES	VALUES	TEST METHOD
Minimum Tensile Strength	120 lbs. (535 N)	ASTM D 4632
Maximum Elongation at 60 lbs	50%	ASTM D 4632
Minimum Puncture Strength	50 lbs (220 N)	ASTM D 4833
Minimum Tear Strength	40 lbs (180 N)	ASTM D 4533
Apparent Opening Size	≤ 0.84 mm	ASTM D 4751
Minimum Permittivity	1X10-2 sec1	ASTM D 4491
JV Exposure Strength Retention	70%	ASTM G 4355

INFORMATION OBTAINED FROM THE 2006 EDITION OF THE STATE OF OHIO'S "RAINWATER AND LAND DEVELOPMENT MANUAL".

REV No. DATE DESCRIPTION CITY OF NORTH RIDGEVILLE, OHIO

DEPARTMENT OF ENGINEERING

SILT FENCE

SCALE: NOT TO SCALE

DATE: 10/01/08 | DRWN BY: JAB/TEB

CITY OF NORTH RIDGEVILLE, ENGINEER

SWP-18