

Background

The Lorain County Erosion & Sediment Control (ESC) Rules are adopted from the Ohio EPA Phase II Storm Water Program through the National Pollution Discharge Elimination System (NPDES). The NPDES program was established under the Clean Water Act and was adopted by the county in 2009. The rules are in place to protect:

- Landowners from property loss due to sedimentation, erosion, & flooding
- County & Township ditches, culverts, & storm sewers from loss of capacity due to siltation
- Water & habitat quality in streams & wetlands

The ESC Rules address construction activity through **Abbreviated ESC Plans** as described under Section 4.11 of the ESC Rules. This brochure outlines the minimum control measures required during residential development under an Abbreviated ESC Plan

Lorain Soil & Water Conservation District (SWCD) administers the rules for the county in coordination with the Lorain County Engineer Department

For more information, visit:

www.Lorainswcd.com

For permit inquiries, contact the Lorain SWCD Office at (440) 326-5800

STABILIZATION: Temporary & Permanent

Rainwater Manual: Sections 7.8 - 7.10

ESC Rules: Sections 4.11 (c.4)

- Stabilizes soil, provides 90% efficiency at erosion control - most important measure
- **Temporary:** Seed & straw mulching on soils that remain idle over 14 days up to 1 year or over winter. Installed by builder **prior** to lot transfer or by homeowner
- **Permanent:** Seed & straw mulching applied to bare soil by homeowner. Required within 7 days of final grading
- Check the ODNR Rainwater Manual for seeding & mulching rates



Example of permanent stabilization:
seed covered by straw mulching

LORAIN SWCD
42110 RUSSIA RD.
ELYRIA, OH
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Lorain Soil & Water Conservation District

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A residential guide to:

Erosion & Sediment Control
Best Management Practices
(BMPs)



*Based on the Lorain County
Erosion & Sediment Control Rules*

All controls follow the specifications
of the most recent version of the
ODNR Rainwater & Land
Development Manual

INLET PROTECTION

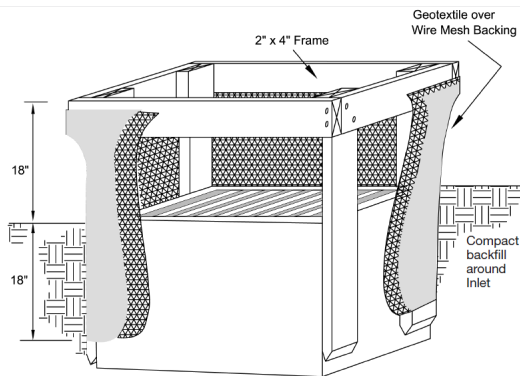
Rainwater Manual: Section 6.4

ESC Rules: Section 4.11 (c.6)

- Remove sediment from stormwater before it enters storm sewers and downstream areas
- Required anywhere runoff may enter storm sewer inlets - this includes curbs and yard drains
- Requires frequent maintenance - built up sediment must be removed after rain events / as needed

Geotextile Inlet Protection (Method B):

Used for yard drains



Manufactured Inlet Protection (Method F):

Can be used for any drop inlets - requires less maintenance but typically more expensive



PERIMETER CONTROLS:

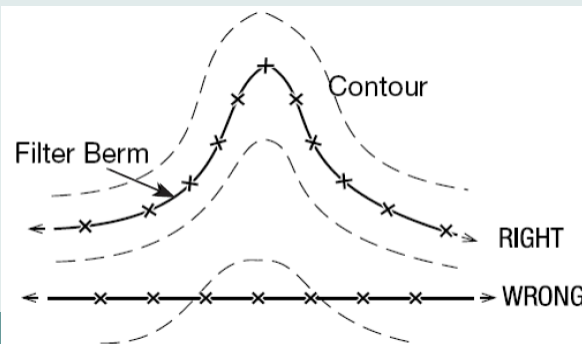
Silt Fence

Rainwater Manual: Section 6.3

ESC Rules: Section 4.11 (c.5)



- Placed at edge of disturbed soils following contours on flattest area
- Allow 5 feet of distance from the toe of any slope, maximizing distance
- Installed prior to any soil disturbance
- Designed to trap sediment & pond runoff
- Seams between fence sections must be wrapped together
- Must be entrenched 6 inches deep and backfilled
- Must be repaired immediately if damaged



CONSTRUCTION ENTRANCE

Rainwater Manual: Section 7.4

ESC Rules: Section 4.11 (c.1)

- Used to reduce off-site tracking
- Installed before major grading activities
- Geotextile fabric is laid over entire area prior to placing driveway stone
- Minimum of 30 feet in length & 14 feet in width. Stone layer thickness to be 6 inches
- #2 size stone (1.5 - 2.5 inch) must be used
- Top dressing with additional stone should be done as needed



If the construction entrance does not entirely trap mud from vehicles, the length may need extended, or street sweeping must be conducted as needed to remove any sediment tracked onto the roadway. See ESC Rules Section 4.11 (c.3) for more details.