

Environmental Quality Incentives Program

2013 EQIP Signup

Minnesota Supplement for:
Practice Standard 468 – Lined Waterway or Outlet

Supplemental Criteria

1. Upland Treatment is required. **See General Provision 8.**
2. Payment is for the lining only. Earthwork, seeding, and mulching are under separate items.

Scenarios

Turf Reinforced Matting

Typical installation is a 300' long by 15' wide by 1.5' deep trapezoidal or parabolic shaped waterway lined with Turf Reinforced Matting (TRM). 1/2 the channel is excavated. Excess excavation is spoiled in the immediate area. TRM is installed over 100% of the width of the waterway to prevent scour and aid in waterway establishment. Cost includes excavation, spoiling of excess material, and furnishing and installing TRM. Lined waterway width is measured from top of bank to top of bank.

Rock Lined - D50 ≤ 6"

Typical installation is a 300' long by 15' wide by 1.5' deep trapezoidal or parabolic shaped waterway lined with riprap (D50 = 6"). 1/2 the channel is excavated, before excavation for riprap. Excess excavation is spoiled in the immediate area. Riprap is installed over 100% of the width of the waterway to prevent scour or as a rock center for grassed waterways with prolonged flows. Cost includes excavation, spoiling of excess material, geotextile underlayment and installing 12" of Rock Riprap. Lined waterway width is measured from top of rock bank to top of rock bank in a plan view measurement.

Rock Lined - D50 > 6"

Typical installation is a 300' long by 15' wide by 1.5' deep trapezoidal or parabolic shaped waterway lined with riprap (D50 = 9"). 1/2 the channel is excavated, before excavation for riprap. Excess excavation is spoiled in the immediate area. Riprap is installed over 100% of the width of the waterway to prevent scour. Cost includes excavation, spoiling of excess material, geotextile underlayment and installing 18" Rock Riprap. Lined waterway width is measured from top of bank to top of bank.

Concrete

Typical installation is a 300' long by 15' wide by 1.5' deep trapezoidal or parabolic shaped waterway lined with concrete. 1/2 the channel is excavated, before excavation for concrete and

subgrade material. Excess excavation is spoiled in the immediate area. Concrete is installed over 100% of the width of the waterway to prevent scour. Cost includes excavation, spoiling of excess material, 6" of clean sand or gravel subgrade, and 5" reinforced concrete slab. Lined waterway width is measured from top of bank to top of bank.