

For slope adjacent to Horseshoe Lake, the plan is to use Flex MSE product to achieve stability and success of native plantings along the slope.

As you will see the Flex product is a green, nontoxic alternative for protecting all types of slopes and is commonly used by environmental agencies. It has a long life expectancy and is specifically designed for steep slope stabilization, erosion control with many other uses and eco-friendly attributes. They are relatively easy to install. The bags are water and root permeable, being filled with a combination of sand and organics. I have included the "Environmental Product Declaration" if you would like to read specifics about this product.

The drawing, as you will see includes native plantings with a path and minimal stair areas leading to lake side. These plantings will be placed either between bags or directly plugged into the bag itself. The hope is to have less stair areas than historically placed on slope. The entire area may have to be done in sections as funds will allow. We are working with a contractor that is fitting us in between jobs so work may not be everyday five days a week. The Cotton wood tree is in need of removal as it is pushing the current water bulkhead out. Vegetation bag placement will begin at bottom level and work upward ultimately trading out any keystones with the Flex bags. The current in water bulkhead will be repaired and capped raising height to current high water line, which will prevent water washing over edge. Bulkhead in water will have to wait for repair until water recedes as well as repairs to existing pier and dock. The hope is to complete majority of project at same time or as timely as possible.

In drawing there are more levels than may actually be needed but we included one extra just in case needed to achieve the least amount of stairs. Also in drawing trees that are represented are close but not exact in location. Consultant placed plants for greatest success. They are in groups of their own kind due to the fact that some plants listed are more aggressive than others. Planting in groups of same type will ensure their ability to thrive.

Randy Huft  
Carla Morgan  
412 Island Aire Dr.  
Woodland Wa. Sent from my iPad

Flex MSE is a vegetated retaining wall and slope stabilization system that can be used as a direct replacement for gabion baskets, concrete blocks, and bricks for a more environmentally friendly, long-lasting, and less expensive alternative.

Green and Low Impact Development (LID) communities as well as LEED standard projects benefit greatly from Flex MSE's environmental advantages.

A Flex MSE vegetated retaining wall reinforces green space, is 50% recycled content, repurposes excavated materials, is nontoxic and uses 97% less greenhouse gas (GHG) emissions than comparative concrete solutions.

Flex MSE can qualify for as many as 21 LEED credits in 4 distinct categories.

Flex MSE berms and walls in public spaces reduce sound pollution by absorbing reflective sound into the vegetated soils, and all but eliminate graffiti concerns.

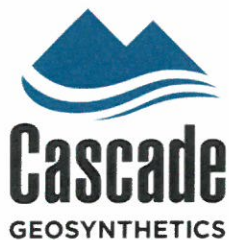
Flex MSE has all these benefits, while still being less expensive than hard armour systems – making it a very economical engineered retaining wall solution.

The system is already in use around the globe by numerous public and private organizations, including Rail, Highways, and Environmental Agencies. You may wish to see a selection of some of the projects [here](#).

Trexiana (Flex MSE manufacturer) is proud to share that they have recently been approved as an **LA CES provider** and are the **only Vegetated Wall System with an EPD**. Here's the link to Flex MSE's listing: <https://www.flexmse.com/epd>

I've attached the link to our 8 Page Brochure: [Flex MSE Brochure Web.pdf](#)

Have a great weekend!



**Naomi Morgan, CESCL**

Technical Sales Representative | Cascade Geosynthetics

📍 3610 N. Suttle Road Bldg B, Portland, Oregon 97217

☎ 971-339-1020 📠 512-799-4843

✉ [naomi.morgan@cascadegeos.com](mailto:naomi.morgan@cascadegeos.com)

🌐 [www.cascadegeos.com](http://www.cascadegeos.com)