

## **EROSION & SEDIMENTATION CONTROL PLAN**

### **Menatoma Association Craft Building, Readfield, Maine**

Thayer Engineering Co., Inc.  
June 22, 2023

#### **CONSTRUCTION EROSION CONTROL MEASURES**

##### **PROPOSED SCHEDULE FOR IMPLEMENTATION OF EROSION & SEDIMENTATION CONTROL MEASURES**

- (1) Prior to any earth-moving, grubbing demolition or construction activities, erosion control mix filter barriers shall be installed;
- (2) The erosion control mix filter barriers shall be inspected and repaired, as needed, throughout the entire construction period.
- (3) The topsoil shall be removed or stockpiled on-site. Erosion control mix filter barriers shall be installed around the stockpiles;
- (4) The site shall be rough-graded and stabilized against erosion as called for in this plan;
- (5) Immediately following final grading, all graded or disturbed areas not to be graveled are to be spread with a minimum compacted depth of 4 inches of bark mulch to provide a permanent cover. On areas of steep slopes (2:1 and steeper), mulch matting shall be installed.
- (6) The erosion control mix filter barriers shall remain in place until all areas have been permanently stabilized. It will be the responsibility of the applicant to properly remove the filter barriers and to remove and properly dispose of the collected sediment once the site has been permanently stabilized.

##### **MAINTENANCE OF EROSION & SEDIMENTATION CONTROL MEASURES**

- (1) Erosion control mix filter barriers shall be inspected weekly and/or after any sustained rainstorm for undercutting, overtopping, gaps, or sediment buildup. Should the barriers not be functioning properly they shall immediately be repaired or replaced and sediment removed as necessary. Any sediment removed shall be spread and stabilized in areas on the site not subject to erosion. If additional barriers are found to be necessary, they shall be installed immediately;

During active construction, "SiltSoxx"-type barriers shall be employed immediately downslope of each area being actively worked until that particular area has been stabilized.

- (2) Mulched areas shall be inspected weekly and prior to any storm event for insufficient coverage (less than 90% coverage) and, if necessary, immediately be brought into conformance with the specifications of this Plan.

## DESCRIPTIONS OF EROSION CONTROL MEASURES

### Erosion Control Mix Filter Barriers

#### Description

Erosion control mix filter barriers shall be used as a sediment barrier to intercept and retain small amounts of sediment from disturbed or unprotected areas of limited extent. The erosion control mix filter barriers shall conform to the materials and installation specifications as set forth in the “Maine Erosion and Sediment Control Handbook for Construction: Best Management Practices” published by the Maine DEP (BMPs).

#### Maintenance

The erosion control mix filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.

The erosion control mix filter barrier shall be replaced promptly when it decomposes or becomes ineffective before the barrier is no longer necessary.

A second line of erosion control mix filter barrier shall be installed if the sediment level reaches one-half the height of the first barrier.

The erosion control mix filter barriers shall be removed or spread on the grounds when no longer needed, and the sediment collected shall be properly disposed of in a manner that will not damage adjacent properties or water bodies.

### Mulch

#### Description

Hay mulch shall be used to temporarily stabilize exposed soil.

Bark mulch shall be used on all areas of bare soil not brought to final grade within one week.

The installation of temporary hay mulching (application rates, depths and timing, quality standards and maintenance) shall conform to the specifications as set forth in the BMPs.

The installation of final bark mulching (application rates, depths and timing, quality standards and maintenance) shall conform to the specifications as set forth in the BMPs.

#### Erosion Control Mix and Bark Mulch Composition

Bark mulch and erosion control mix shall contain a well-graded mixture of particle sizes and may contain rocks less than 2" in diameter. Erosion control mix must be free of refuse, physical contaminants, and material toxic to plant growth. The mix composition shall meet the following standards:

The organic matter content shall be between 80% and 100%, dry weight basis;

Particle size by weight shall be 100% passing a 6" screen and a minimum of 70%, maximum of 85%, passing a 0.75" screen;

The organic portion needs to be fibrous and elongated;

Large portions of silts, clays or fine sands are not acceptable in the mix;

Soluble salts content shall be < 4.0 mmhos/cm.; and

The ph should fall between 5.0 and 8.0.

#### Mulch Matting

##### Description

Mulch matting shall consist of straw, coconut or excelsior sandwiched between photodegradable netting. Matting shall be used as follows:

- (1) in the base of swales with greater than 5% pitch;
- (2) on steep slopes where rilling may occur;
- (3) in any sensitive areas subject to erosion or as indicated on plans;
- (4) on any disturbed or newly graded slopes 2:1 and steeper; and
- (5) where straw mulch has been determined to be ineffective based on observations made in

the field, or as directed by the Readfield Code Enforcement Officer.

Mulch matting shall be installed in accordance with the BMPs.