



## Memorandum

**To:** Bassett Creek Watershed Management Commission (BCWMC)  
**From:** Barr Engineering Co. (Barr)  
**Subject:** Item 4E: Brose Property Landscaping and Shoreline Improvements – Plymouth, MN  
BCWMC August 20, 2020 Meeting Agenda  
**Date:** August 12, 2020  
**Project:** 23270051.48 2020 2226

### 4E Brose Property Landscaping and Shoreline Improvements – Plymouth, MN BCWMC 2020-21

#### Summary:

**Proposed Work:** Single-family home landscaping and shoreline improvements

**Basis for Review at Commission Meeting:** Work in the floodplain and shoreline improvements

**Impervious Surface Area:** Decrease 64 square feet

**Recommendation:** Approval

#### General Project Information

The proposed project is located in the Medicine Lake Direct subwatershed at 10112 South Shore Drive in Plymouth, MN. The applicant proposes to improve the Medicine Lake shoreline along their property by placing fieldstone riprap along the shoreline. The proposed project creates approximately 50 square feet of reconstructed impervious surfaces at some stairs along the shoreline.

#### Floodplain

The proposed project includes work in the BCWMC (Medicine Lake) 1% (base flood elevation, 100-year) floodplain. The October 2019 BCWMC Requirements for Improvements and Development Proposals (Requirements) document states that projects within the floodplain must maintain no net loss in floodplain storage and no increase in flood level at any point along the trunk system (managed to at least a precision of 0.00 feet). The 1% (base flood elevation, 100-year) floodplain elevation of Medicine Lake is 890.4 feet NAVD88. The proposed project includes a note on the plans that states "*any additional fill (soil or rock) placed below the floodplain elevation will be balanced with excavation along the shoreline to ensure no net loss of floodplain storage.*"

#### Lakes, Streams, and Wetlands

The proposed project includes the referenced shoreline improvements along Medicine Lake that triggers review by the Commission. As part of the proposed project, geotextile, 6 inches of granular filter, and

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18-30" fieldstone riprap will be installed along the shoreline from elevation 887.1 to 891.17. The fieldstone riprap will be installed at approximately 3 to 1 (horizontal to vertical) slopes.

The City of Plymouth is the local government unit (LGU) responsible for administering the Wetland Conservation Act; therefore, BCWMC wetland review is not required.

### **Rate Control**

The proposed project does not create one or more acres of new or fully reconstructed impervious surfaces; therefore, BCWMC rate control review is not required.

### **Water Quality**

The proposed project does not create one or more acres of new or fully reconstructed impervious surfaces; therefore, BCWMC water quality review is not required.





### **Erosion and Sediment Control**

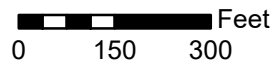
Single family homes are exempt from BCWMC erosion and sediment control requirements.

### **Recommendation**

Approval



-  Project Location
-  Municipality
-  BCWMC Legal Boundary
-  Major Subwatershed



BCWMC #2020-21  
 BROSE PROPERTY  
 LANDSCAPING &  
 SHORELINE IMPROVEMENTS  
 Plymouth, MN  
 LOCATION MAP