



Memorandum

To: Bassett Creek Watershed Management Commission (BCWMC)
From: Barr Engineering Co. (Barr)
Subject: Item 4J: Bassett Creek Dog Park – Crystal, MN
BCWMC April 21, 2022 Meeting Agenda
Date: April 14, 2022
Project: 23270051.53 2022 2284

4J Bassett Creek Dog Park Area– Crystal, MN BCWMC 2022-05

Summary:

Project Proposer: City of Crystal

Proposed Work: Installation of a new dog park, parking lot, and other site improvements

Basis for Review at Commission Meeting: Fill in the floodplain

Impervious Surface Area: Increase approximately 0.19 acres

Project Schedule: June 2022 construction

Recommendation for Commission Action: Approval

General Project Information

The proposed project is located along the North Branch of Bassett Creek in the Bassett Creek Park Pond subwatershed, south of the intersection of 32nd Avenue North and Brunswick Avenue North and west of Welcome Avenue in Crystal. The work includes construction of a new dog park, associated parking lots, and other site improvements including fence, trails, and utilities resulting in 4.34 acres of disturbance. On the project map there are two project locations indicated. The western project location will include the new dog park, site improvements and work in the floodplain. The eastern project location will include parking lot improvements and is not located in the floodplain. The proposed project creates 0.76 acres of new and fully reconstructed impervious surfaces, including 0.57 acres of fully reconstructed impervious and an increase of 0.19 impervious surfaces from 0.57 acres (existing) to 0.76 acres (proposed).

The initial submittal was received on March 25, 2022. The BCWMC engineer reviewed the submittal and provided comments to the City on March 31, 2022. The applicant addressed the comments and submitted revised plans and documentation on April 5, 2022 and April 6, 2022.

Floodplain

The proposed project includes work in the BCWMC 100-year floodplain. The 1% annual-chance (base flood elevation, 100-year) floodplain elevation along the North Branch of Bassett Creek at Bassett Creek Park Pond is 851.2 feet NAVD88. The February 2021 BCWMC Requirements for Improvements and Development Proposals (Requirements) document states that projects within the floodplain must

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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 proposed project will result in approximately 1 cubic yard of floodplain fill and 53 cubic yards of compensating storage, resulting in a net gain of approximately 52 cubic yards of floodplain storage.

Lakes, Streams, and Wetlands

The proposed project includes work adjacent to wetlands. The City of Crystal is the local government unit (LGU) responsible for administering the Wetland Conservation Act; therefore, BCWMC wetland review is not required. Barr staff is providing wetland support for this project directly for the city.

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

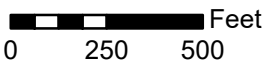
The proposed project results in more than 10,000 square feet of land disturbance; therefore, the proposed project must meet the BCWMC erosion and sediment control requirements. Proposed temporary erosion and sediment control features include silt fence, inlet protection, and rock construction entrances. Permanent erosion and sediment control features include riprap, stabilization with seed and mulch, and erosion control blanket.

Recommendation

Approval



-  Project Location
-  Municipality
-  BCWMC Legal Boundary
-  Major Subwatershed
-  BCWMC Hydrologic Boundary
-  Bassett Creek



BCWMC #2022-05
BASSETT CREEK
DOG PARK AREA
Crystal, MN

LOCATION MAP