COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: April 25, 2016
AGENDA NUMBER: 12
FILE NUMBER: 16-050
ITEM: Herbst Culvert and Ditch Cleaning

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Matt Herbst
2775 125th Ave. NE,
Blaine MN

PURPOSE: Lowering culvert on Teresa Kuffel property and cleaning last 100 ft of ditch on Dave Mohs approximately 114+00 to 113+00

LOCATION: Blaine
APPLICABILITY:
1) Bridges and culverts (1.06 sub 1)
2) Any activity involving drainage, filling or alteration of wetlands (1.09)
3) Any work within or adjacent to a Public Ditch within the Watershed District.
4) The lands and water that have been, or may be covered by the regional flood.
5) Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.

EXHIBITS:
1) Map showing section of ditch to be maintained, no date provided, received 4/11/2016
2) Dredging depth profile; no date provided; received 4/11/2016
3) Dredge fill replacement plan; no date provided; received 4/11/2016
4) Written permission from Kuffel and Mohs for work by Herbst on their property; dates provided 4/12 and 4/11 respectively; received 4/12 and 4/11 respectively.

HISTORY & CONSIDERATIONS: This application was initially submitted on 4/11/16. A project of the same scope was reviewed and approved by the Board July 8, 2016.

FINDINGS:
Ditches: There is a public ditch on the property. The public ditch is County Ditch 59-4 according to the public drainage map. The ditch was last inspected in 2013. The ditch remains in need of repair.

The as-built elevations and grades through this property are 891.5 at the downstream end to 893.7 at the upstream end with a 0.06% slope.

Ditch Hydraulics:
Two crossings of the ditch are proposed. The proposed crossing involves the replacement of both culverts. The proposed culverts are of sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Markey. Stabilizing vegetation is not proposed for disturbed areas within two weeks (14 days) of rough grading. Adjacent properties and stormwater ponds are not protected from sediment deposition. Project site is not greater than 1 acre, an NPDES permit is not required.

Floodplain: There is floodplain on the property according to the District model. The project does not propose to place fill within the floodplain. The total floodplain impact is 0 acre-feet. The proposed impact is within the flood fringe. Compensatory storage is not needed. There are no flooding concerns upstream and/or downstream.

Groundwater: Geotechnical information has not been submitted. And is not needed
**Historic Sites:** The proposed project does not include sites of historic or archeological significance.

**Local Planning & Zoning:** The proposed project is consistent with local planning and zoning. There is an approved local water plan.

Property owners affected by changes in drainage have been notified and acknowledge the changes proposed.

**Maintenance:** The Owner of the Stormwater Management features and treatment practices is Herbst, Kuffel and Mohs. Herbst agrees to maintain the Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
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<tbody>
<tr>
<td>Revegetation</td>
<td>1</td>
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The owner has not submitted a Maintenance Plan for each Stormwater Treatment Practice, and do not need to.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is not achieved and does not apply to this project. Drainage sensitive uses exist downstream from the proposed site. The rate of post-development runoff from the site does not exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses.

**Water Quality:** The proposed project does not cause an exceedance of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow.

**Performance Escrow:** $36,500
**Wetland Escrow:** N/A

**FINDINGS/ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Maintenance: Revegetation plan needs to be proposed within 14 days of rough grading.</td>
<td>Provide statement that revegetation will occur 14 days after any rough grading.</td>
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<tr>
<td>Ditches: The district requires that for all ditch maintenance projects that as-built elevations of the clean out reach of the ditch at 50 foot intervals. Additionally provide all pipe sizes and inverts for the new culvert(s).</td>
<td>Provide as-built pipe sizes and inverts for new crossings and newly graded ditch elevations at 50 foot intervals post construction.</td>
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<td>Escrow: $2000 + (1,700 ft * $20/ft) = $36,500</td>
<td>Pay escrow of $36,500</td>
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</table>
**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide statement that revegetation will occur 14 days after any rough grading.
3. Provide as-built pipe sizes and inverts for new crossings and newly graded ditch elevations at 50 foot intervals post construction.