COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 23, 2016
AGENDA NUMBER: 7
FILE NUMBER: 16-080
ITEM: CSAH 18 Culvert Replacement

RECOMMENDATION: Approve with 4 Stipulations

APPLICANT: Anoka County Hwy. Department
1440 Bunker Lake Blvd. NW
Andover, MN 55304

PURPOSE: Replacement of a deteriorated 24” CMP with a 24” HDPE

LOCATION: 400 feet West of Lexington Ave on Crosstown Blvd. Ham Lake, MN
**APPLICABILITY:**

1) Bridges and culverts (1.06 sub 1)
2) Any work in or adjacent to wetlands, lakes or water courses.
3) Highly erodible soils

**EXHIBITS:**

1) Map showing location of culvert crossing by Anoka County; dated 5/5/2016; received 5/9/2016
2) Soil Map; dated 5/4/2016; received 5/9/2016
HISTORY & CONSIDERATIONS: This is the first application for this site.

FINDINGS:
Ditches: There is a public ditch on the property. The public ditch is County Ditch 44 according to the public drainage map. County ditch 44 was established in 1905. The ditch was last inspected in 2011. The ditch is not in need of repair. The project site is tributary to County Ditch 44.

The approved elevations and grades through this property are 894.86 ft NAVD 88 (D/S) and 894.89 ft NAVD 88 (U/S) and 0.04% slope. Existing elevations, slopes and condition of the ditch are fair and represent a 6.5 ft variance from the approved elevation. Alternatives to repair and additional drainage have not been considered and reviewed.

The ditch is a first order stream. The ditch serves the primary role of stormwater drainage

The ditch serves approximately 0 acres of agricultural land. Land use in the area is single family res & vacant upstream; agriculture downstream. There are flooding concerns downstream.

A 16.5 foot grass strip is required.
A 16.5 foot grass strip is present.
The 16.5 foot grass strip has been inspected. (103E.075 subd 4)
The grass strip is not in need of repair or maintenance.

Ditch Hydraulics:
A crossing of the ditch is proposed. The proposed crossing involves the installation/replacement of a culvert. The proposed culvert has sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Isanti. Stabilizing vegetation is not proposed for disturbed areas within 7 days of rough grading. Adjacent properties and stormwater ponds are protected from sediment deposition. Project site is not greater than 1 acre, a NPDES permit is not required.

Floodplain: There is floodplain on the property according to the District model. The project does propose to place fill within the floodplain. The total floodplain impact is negligible. The proposed impact is within the flood fringe. Compensatory storage is not provided and is not needed. There are 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 is Anoka County.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is not achieved and is not needed. Drainage sensitive uses exist downstream from the proposed site.

**Water Quality:** The proposed project does not cause an exceedence of State water quality standards. The project does not contribute to the adverse impact of wetlands through inundation or volume of flow. All work adjacent to wetlands, waterbodies and water conveyance systems are not protected from erosion. The proposal will not detrimentally affect the existing water quality of the receiving water. The proposal will not cause extreme fluctuations of water levels or temperature changes.

**Impairments:** This project is within one (1) mile and drains to an Impaired Water. The Impaired Water is Coon Creek. Coon Creek is impaired for (Aquatic Life (Macro-invertebrates) / Aquatic Recreation (E. coli)). The major stressors of Total Suspended Solids (TSS) / Total Phosphorus (TP) / E.coli. There is not an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

The project does not propose site stabilization within 7 days after construction. The proposed stormwater system does not retain at least one inch of runoff from the project site.

There are no new impervious surfaces proposed as part of this project.

**Wetlands:** Wetlands do not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted and is not needed.

**Wildlife:** The proposed project may include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.

There are not Ground Water Dependent water resources on site.

No steps are proposed for avoiding or minimizing impacts.

**Performance Escrow:** $2,025.00

**Wetland Escrow:** N/A

There are not ditch liens on the property.
FINDINGS/ISSUES/CONCERNS:

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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Soils &amp; Erosion Control: Provide erosion control plan stating that all disturbed areas will be stabilized within 7 days of rough grading.</td>
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<td>Ditches: The existing culvert is approximately 4.7 feet above its approved grade. The existing culvert installed is at elevations 899.6 and 899.3 upstream and downstream respectively (referenced to the NAVD 1988 vertical datum). The county is proposing to install the new culvert at the same elevations. This is the recommended action for the following reasons:</td>
<td>2. Provide plans showing the culvert elevations set at 899.6 and 899.3 respectively.</td>
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- This is the headwaters area and there are no current drainage issues upstream or down
- This portion of CD 44 is really draining to CD 11 due to a ditch block just west of Lexington Blvd. The slopes of the ditch downstream indicate a net positive drainage towards CD 11.

| Wildlife: The proposed project has the potential to include the threatened Black Huckleberry (*Gaylussacia baccata*) | 3. Contact the DNR to have a DNR Natural Heritage Information System (NHIS) data review completed to determine if any records of state-protected species may be located within the boundary of this project. |

| Escrows: $2,000 + (0.05 ac * $500/ac) = $2,025.00 | 4. Receipt of escrows |

**RECOMMENDATION:** Approve with 4 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. Provide erosion control plan stating that all disturbed areas will be stabilized within 7 days of rough grading.
3. Provide plans showing the culvert elevations set at 899.6 and 899.3 respectively.
4. Contact the DNR to have a DNR Natural Heritage Information System (NHIS) data review completed to determine if any records of state-protected species may be located within the boundary of this project.