COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: June 25, 2018
AGENDA NUMBER: 13
FILE NUMBER: 18-109
ITEM: CR-61 Culvert Replacement

RECOMMENDATION: Approve with 5 Stipulations

APPLICANT: Anoka County Highway Department
Attn: Matt Herzog
1440 Bunker Lake Blvd NW
Andover MN 55304

PURPOSE: In-kind 36” culvert replacement

LOCATION: On Xylite, 400 ft north of 154th Ln NE, Ham Lake

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work in or adjacent to wetlands, lakes or water courses.
3. The lands and waters that have been, or may be covered by the regional flood.
4. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)
5. High water table, outwash and organic soils
6. 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. Permit Application for Crossing or Culvert Installation and required documents by Anoka County Highway Department, dated 6/5/18, received 6/5/18.

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has not received a general review during a pre-application meeting.

Ditches: There is not a public ditch on the property. The project is associated with a private ditch.

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

Erosion and Sediment Control: Soil affected by the proposal is Rifle.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.
• Adjacent properties and stormwater ponds are protected from sediment deposition.
• Construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have not been provided.
• Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
• All storm sewer inlets are protected from sediment-laden water during construction.
• All work adjacent to water or related resource has taken precautions to contain sediment, and stabilize the work area during construction.
• Provisions have not been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
• Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.
• Construction entrance points are not clearly located on the erosion and sediment control plan.
• The erosion and sediment control plan does not provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

Dewatering: Shallow ground water does exist on site. The project does not require dewatering.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 893.0 feet on the east and 891.5 feet on the west side of CR 61. The project does not propose to place fill within the floodplain. The total floodplain impact is 0 acre-feet. There are no flooding concerns upstream or downstream.

High Water Flooding: No structures proposed, information is not needed.

Groundwater: Geotechnical information has not been provided and is not needed.

The project site is not within the Emergency Response Area/10 Year Well Head Protection Area/Drinking Water Supply Management Area.

The proposal does not contain a land use discouraged or prohibited by the Safe Drinking Water Supply Act (SDSA).

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.
**Maintenance:** No stormwater management features or treatment practices proposed as part of the project.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:** No new impervious proposed as part of the project, infiltration requirements do not apply. Stormwater leaving the site is discharged into a well defined receiving channel or pipe and routed to a public drainage system.

Drainage sensitive uses do not 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. No increases in the volume, velocity and peak water flow rates of stormwater runoff are expected. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. No on-site constructed storm water conveyance channels are proposed.

**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. All work adjacent to wetlands, waterbodies and water conveyance systems are 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 of 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 are Total Suspended Solids (TSS)/Total Phosphorus (TP)/E.coli. There is an EPA approved Total Maximum Daily Load (TMDL) or Waste Load Allocation (WLA) for this water.

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

**Wetlands:** Wetlands do exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated, the onsite wetlands are associated with the private ditch. The wetland is not a DNR protected water. The total proposed wetland impact is 0 square feet. The project is exempt. The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.

**Wetland Replacement Plan:** A wetland replacement plan has not been submitted, and is not required

**Wildlife:** The proposed project does not include endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors.
If the project is present, the project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species will occur.

**Performance Escrow:** $2,050.00  
**Wetland Escrow:** $N/A  
There are not ditch liens on the property.

### ISSUES/CONCERNS:

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<th>ISSUE</th>
<th>NEED</th>
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<td>Escrows: $2,000 + (0.1 ac * $500/ac) = $2,050.00</td>
<td>1. Receipt of escrows.</td>
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| **Stormwater & Hydraulics:** Invert elevations provide on plans indicate the culvert is currently inverted.  
As-built will be needed to update District model with installed culvert information.  
Construction activities cannot impact existing drainage way. | 2. Culvert should be installed to drain west. Match upstream invert and provide downward slope of culvert.  
3. Provide As-built.  
4. Contingency plan needed to ensure drainage of private ditches during construction activities. |
| **Soils & Erosion Control:** District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.  
Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.  
Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day. | 5. Provide updated erosion control plan with the following information:  
   a. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.  
   b. Provide note that soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.  
   c. Provide a note that any sediment accumulation on streets from construction activities will be removed on a daily basis. |

**RECOMMENDATION:** Approve with 5 Stipulations  
**Stipulations:**  
1. Receipt of escrows.  
2. Culvert should be installed to drain west. Match upstream invert and provide downward slope of culvert.  
3. Provide As-built.
4. Contingency plan needed to ensure drainage of private ditches during construction activities.

5. Provide updated erosion control plan with the following information:
   a. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.
   b. Provide note that soil stockpiles have been proposed to be fitted with sediment-trapping measures to prevent soil loss.
   c. Provide a note that any sediment accumulation on streets from construction activities will be removed on a daily basis.