COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: October 23, 2017
AGENDA NUMBER: 13
FILE NUMBER: 17-174
ITEM: CCWD 20 C & W FFLP Private Ditches

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Julie Krekelberg
6282 W Shadow Lake Dr.
Lino Lakes, MN 55014

PURPOSE: Dredging of CCWD 20 and private ditches

LOCATION: Prairie Rd between 148th Ln NW 154th Ln NW, Andover, MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. One or more cumulative acres of land disturbance
5. The lands and waters that have been, or may be covered by the regional flood.
6. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)
7. Appropriation and use of groundwater
8. 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. Description of Work (2 Sheets); by C & W FFLP; received October 11, 2017.
2. C & W FFLP Crossings W of Prairie; by C & W FFLP; dated October 10, 2017; received October 11, 2017.
3. C & W FFLP Crossings E of Prairie; by C & W FFLP; dated October 10, 2017; received October 11, 2017.
4. Soils Map; by C & W FFLP; received October 11, 2017.

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 a public ditch on the property. The public ditch is County Ditch 20 according to the public drainage map. The approved elevations through this property are 886.3 ft MSL at the upstream end and 881.4 ft MSL at the downstream end. The 2013 existing elevations through this property are 888.8 ft MSL at the upstream end and 883.5 ft MSL at the downstream end. This represents a 2.5-2.1 ft variance from the approved elevations. The ditch is a 3rd order stream. The ditch serves the primary role of agricultural drainage. The ditch serves approximately 386 acres of agricultural land. There are flooding concerns upstream. The ditch has been inspected. Existing elevations, slopes and condition of ditch are fair. Alternatives to repair and additional drainage have been considered and reviewed. The ditch is in need of repair.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossings involve the replacement of three culverts. The attached figure indicates the size, material type and inverts the culverts needs to be set at. Elevations referenced to the 88 Datum.

Erosion and Sediment Control: Soils affected by the proposal are Lino, Isanti, Rifle and Sartell.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles are not anticipated as part of the project.
- 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.
• Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
• 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 not taken precautions to contain sediment, and stabilize the work area during construction.
• Provisions have been made to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
• Provisions have been made for cleaning road surfaces where sediment is transported by the end of the day.
• Construction entrance points are clearly located on the erosion and sediment control plan.
• The erosion and sediment control plan does provide for the repair and maintenance of all temporary and permanent erosion and sediment control practices.

Dewatering: Dewatering may be anticipated as part of this project. There is no expected impact to adjacent properties.

Floodplain: There is floodplain on the property according to the District model and FEMA. The District’s floodplain ranges from 887.4 feet at the western property boundary to 892.5 feet at the eastern property boundary. The total floodplain impact is negligible. There are flooding concerns upstream and downstream.

High Water Flooding: Information has not been provided to substantiate low floor elevations and is not needed. No structures are proposed.

Groundwater: Geotechnical information not been provided and is not needed. No structures are proposed.

The site is within a Municipal Drinking Water Supply Area (DWSMA).

The project site is 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.

No changes in drainage expected as part of the project.

Maintenance: No Stormwater Management features or treatment practices are proposed.

Stormwater & Hydrology: No new impervious areas are proposed as part of this project; therefore, infiltration requirements are not applicable. 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 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 as part of the project. No concentrated storm water is proposed as part of the project. No constructed storm water conveyance channels are proposed as part of the project.

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 Phosphorus (TP) and 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 may exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

Wetland Replacement Plan: A wetland replacement plan 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.

Performance Escrow: $34,230
**Wetland Escrow:**  $N/A

There are not ditch liens on the property.

**ISSUES/CONCERNS:**

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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $20 linear foot x 5860 lf = $34,230</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>Ditches: Crossings of County Ditch 20 are proposed along with ditch cleaning.</td>
<td>2. Provide as-builts drawings after the project has been completed that illustrate culverts and slope match the attached figure.</td>
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<td>Erosion and Sediment Control: District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</td>
<td>3. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.</td>
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**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide as-builts drawings after the project has been completed that illustrate culverts and slope match the attached figure.
3. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.