COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 26, 2018
AGENDA NUMBER: 6
FILE NUMBER: 18-063
ITEM: 149th Ave NE Reconstruction – Radisson to Xylite

RECOMMENDATION: Table with 4 Stipulations

APPLICANT: City of Ham Lake
15544 Central Ave NE
Ham Lake, MN 55304

PURPOSE: 2,676 LF of street reconstruction and installation of storm sewer

LOCATION: 149th Ave from Radisson to Xylite, Ham Lake MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. One or more cumulative acres of land disturbance
3. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Land Uses)
4. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
1. Construction Plan set (17 sheets); by RFC Engineering, dated 3/14/18, received 3/14/18.

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.

Ditch Hydraulics: A crossing of the ditch is not proposed.

Erosion and Sediment Control: Soils affected by the proposal are Isanti and Zimmerman.
  - Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
  - Soil stockpiles have 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 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 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:** Shallow ground water may exist on site. The project may require dewatering.

**Floodplain:** There is floodplain on the property according to FEMA but not the District model.

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

**Groundwater:** Geotechnical information was not provided and is not needed, no structures proposed.

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.

Property owners affected by changes in drainage should be notified and acknowledge the changes proposed.

**Maintenance:** The Owner of the Stormwater Management features and treatment practices is the City of Ham Lake. The Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
<th>Maintenance Responsibility</th>
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</thead>
<tbody>
<tr>
<td>Sumps</td>
<td>2</td>
<td>City of Ham Lake</td>
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</table>

As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required. A maintenance access to all storm water management features is provided.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is achieved to the maximum extent practicable. The stormwater management
system utilizes swales and regional basin. 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 exceed predevelopment rates and may interfere with sensitive downstream land uses. Updated model is needed to determine impacts. Properties and waterways downstream from the project are protected from erosion due to increases in the volume, velocity and peak water flow rates of stormwater runoff. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

**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 discharges into wetlands are pretreated by a sediment basin/water quality pond and are designed correctly. 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 (Macroinvertebrates)/Aquatic Recreation (E. coli). The major stressors are 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.

There are 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 is not required.

**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. The endangered or threatened species, rare natural community are the Black Huckleberry, Lance Leaf Violet and the Blanding’s Turtle. The applicant has contacted the MDNR natural heritage or endangered species program.

**Performance Escrow:** $3,040.00  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.
**ISSUES/CONCERNS:**

<table>
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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (2.08 ac * $500/ac) = $3,040.00</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>Stormwater &amp; Hydraulics: Storm spreadsheet and HydroCAD model do not match construction plans sheet 14 and 15 for some diameters, lengths, rims and inverts. It is unclear if receiving basin in Lund’s Prince Creek Park has an outlet and the potential impacts with additional volume being directed to it.</td>
<td>2. Provide spreadsheet, HydroCAD model and construction plans that are consistent. 3. Provide additional details for receiving basin including HWL impacts and outlet details.</td>
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<tr>
<td>Soils &amp; Erosion Control: District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</td>
<td>4. Update SWPPP (sheet 17) to stabilize vegetation within 7 days of rough grading or inactivity.</td>
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**RECOMMENDATION:** Table with 4 Stipulations

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2. Provide spreadsheet, HydroCAD model and construction plans that are consistent.
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