COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: July 11, 2016
AGENDA NUMBER: 14
FILE NUMBER: 16-111
ITEM: Ulysses Street Reconstruction

RECOMMENDATION: Table with 4 Stipulation

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

PURPOSE: Street and Storm Reconstruction

LOCATION: Ulysses St NE between 176th and 179th, Ham Lake, Minnesota
APPLICABILITY:
1. Any work in or adjacent to wetlands, lakes or water courses
2. One or more cumulative acres of land disturbance
3. Appropriation and use of groundwater
4. High water table, outwash and organic soils
5. High infiltration soils
6. Highly erodible soils
7. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
1) Construction Plan set (29 sheets) by RFC; dated 6/29/16, received 6/29/16.
2) HydroCAD models and Figures by RFC; dated 6/29/16, received 6/29/16.
3) Wetland Delineation Report by Wenck; dated 5/18/16, received
4) Wetland Application by RFC; dated 6/29/16, received 6/29/16

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 within the Coon Creek Watershed District boundary. The project drains to County Ditch 28 in the Rum River watershed.

Ditch Hydraulics: A crossing of the ditch is not proposed.
**Erosion and Sediment Control:** Soils affected by the proposal are Lino, Markey and Zimmerman.

- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading on Sheet 21 but states fourteen (14) days on Sheets 18 and 23.
- 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.
- 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 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 does exist on site. The project does require dewatering.

An assessment of risks to other water and related resources has not been conducted. The proposed dewatering technique is unknown.

The intended commencement date for dewatering is unknown.

The cone of depression is unknown.

It is unknown if there are ground water dependent water resources within the cone of depression.

**Floodplain:** There is no floodplain on the property according to the District model and FEMA.

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

**Groundwater:** Geotechnical information was not provided and is not needed.

The site is not within a Municipal Drinking Water Supply Area (DWSMA).

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 have been notified and acknowledge the changes proposed.

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

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sumps</td>
<td>2</td>
</tr>
</tbody>
</table>

Inspection and maintenance of stormwater facilities will be the responsibility of City of Ham Lake. 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 a 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 roadside ditches and sumps. 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 exceed predevelopment rates. However, the rates will be negligible and therefore will not interfere with sensitive downstream land.
uses. 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 the 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 not within one (1) mile of an Impaired Water.

There are 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 been delineated. The most recent delineation was completed on May 18, 2016. The wetland boundary has been checked but has not been approved.

The wetland is not a DNR protected water.

The total proposed wetland impact is 2,613.6 square feet. The impact is through fill in 1 location as shown below:
The de minimis is 2,500 sf. TEP members have been notified with a complete plan and have been requested to submit comments.

The project is not wetland dependent.

The project is not exempt.

The applicant does need to contact the Corps of Engineers.

Two alternatives, plus the proposed project, have been submitted. On-site sequencing does not apply. The avoidance alternatives are considered good faith efforts.

1. The applicant suggests that avoidance is not reasonable because there is no alternative. No alternative exists because:
1) The basic purpose of the project cannot reasonably be accomplished at an alternative site;
2) The applicant has made a good faith attempt in pursuing alternatives;
3) The applicant has demonstrated that the activity will minimize wetland impacts through:
   a. modifying the size, scope, configuration, and density of the project,
   b. attempted to remove or accommodate site constraints including zoning, infrastructure, access, or natural features, and 
c) otherwise minimize wetland impacts.

**Wetland Replacement Plan:**
A wetland replacement plan has been submitted.
A replacement plan application has been submitted.
The wetland replacement plan has been sent to TEP members for comment.
Replacement is proposed to be through the Local Government Road Wetland Replacement Program (LGRWRP)

The TEP has not approved the wetland mitigation plan

**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 Black Huckleberry (*Gaylussacia baccata*) and Half Bristly Bramble (*Rubus semisetosus*)

The applicant has not contacted the MDNR natural heritage or endangered species program.

**Performance Escrow:** $3,695.00
**Wetland Escrow:** N/A
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (3.39 ac * $500/ac) = $3,695.00</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td><strong>Erosion &amp; Sediment Control:</strong> Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading on Sheet 21 but states fourteen (14) days on Sheets 18 and 23.</td>
<td>2. Update construction plans to stabilize vegetation within 7 days of rough grading or inactivity.</td>
</tr>
<tr>
<td><strong>Wetland:</strong> The TEP has not approved the wetland mitigation plan.</td>
<td>3. TEP approval for wetland impacts and proof of BWSR approval for project to qualify for LGRWRP</td>
</tr>
</tbody>
</table>
Wildlife: The applicant has not contacted the MDNR natural heritage or endangered species program.

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.

RECOMMENDATION: Table with 4 Stipulation

Stipulation:
1. Receipt of escrows.
2. Update construction plans to stabilize vegetation within 7 days of rough grading or inactivity.
3. TEP approval for wetland impacts and proof of BWSR approval for project to qualify for LGRWRP
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.