COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 9, 2020
AGENDA NUMBER: 10
FILE NUMBER: 20-038
ITEM: Coon Rapids Street Reconstruction 20-2

RECOMMENDATION: Approve with 3 Conditions and 1 Stipulation

APPLICANT: City of Coon Rapids
Attn: Mark Hansen
11155 Robinson Drive
Coon Rapids, MN 55408

PURPOSE: Maintain street pavement conditions and replace poor condition watermain pipes, valves, and hydrants

LOCATION: Various Streets in Coon Rapids, MN
APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work in or adjacent to wetlands, lakes or water courses
3. One or more cumulative acres of land disturbance

EXHIBITS:
1. Construction Plan set (28 sheets); by City of Coon Rapids, dated 2/20/2020, received 2/26/2020.
2. Project Narrative; by City of Coon Rapids, undated, received 2/26/2020.
5. Geotechnical Report; by Haugo Geotechnical Services, dated 12/7/2017, received 2/26/2020.
6. SHSAM Output Summary; by City of Coon Rapids, undated, received 2/26/2020.

PREVIOUS ACTION TAKEN: This is a new application.

FINDINGS:
Pre-application Meeting: The project as submitted has 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 Nymore and Rifle.
- Stabilizing vegetation is 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 and do have a note to stabilize within seven (7) days of inactivity.
- 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 not pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity and is not required.
- 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 tracking 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.
• Details have been provided for ESC (riprap, perimeter control, concrete washout, inlet protection, etc.)

**Dewatering:** Shallow ground water may exist on site. The project may require dewatering.

An assessment of risks to other water and related resources has not been conducted.

**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 new structures proposed as part of this project.

**Groundwater:** Geotechnical information collected by Braun Intertec in September 2019 and Haugo Geotechnical in October 2017 indicates long term groundwater elevation is present at 9 to 19 feet below the surface.

Area 3 of the project site is within the 10 Year Well Head Protection Area and the Drinking Water Supply Management Area with moderate vulnerability, but outside the Emergency Response 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 applicant is the City.

**Maintenance:** The owner of the Stormwater Management features and treatment practices is the City of Coon Rapids. The Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
<th>Inspection &amp; Maintenance Responsibility</th>
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<tbody>
<tr>
<td>Sump w/ SAFL Baffle</td>
<td>3</td>
<td>City of Coon Rapids</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 not achieved. The stormwater management features utilize sump manholes with SAFL baffles. Project is within the City of Coon Rapids which has adopted the MIDS performance standard. The 1.1-inch infiltration is not achieved.

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. No concentrated storm water expected as part of the project. No on-site constructed storm water conveyance channels will be constructed 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 discharges into wetlands are pretreated by sump manholes with SAFL baffles, 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 the Mississippi River. The Mississippi River is impaired for Aquatic Life (Macro-invertebrates), Aquatic Consumption (PCB-F and Mercury), and Aquatic Recreation (Fecal coliform). The major stressors are Nutrients, PCB-F, Mercury, and Fecal coliform. There is an EPA approved TMDL for Mercury for this water. There is not an EPA approved TMDL for Nutrients, PCB-F, or Fecal coliform for this water. There is not an EPA approved WLA for Nutrients, PCB-F, Mercury, or Fecal coliform for this water.

There are no new impervious surfaces proposed as part of this project. There are reconstructed 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 and it is not needed.

**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.

Performance Escrow: $8,300.00  
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 + (12.6 ac * $500/ac = $8,300.00)</td>
<td>1. Receipt of escrows.</td>
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<td>Stormwater &amp; Hydraulics: The 1.1-inch infiltration is not achieved. The applicant demonstrated a good faith effort to infiltrate runoff to the Maximum Extent Practicable. No infiltration practices are proposed.</td>
<td>2. For Area 2, provide figure showing double row perimeter control adjacent to wetland located west of Crooked Lake Blvd NW.</td>
</tr>
<tr>
<td>Soils &amp; Erosion Control: All work adjacent to water or related resource have not taken precautions to contain sediment, and stabilize the work area during construction.</td>
<td>3. Provide shop drawings for SAFL baffle in CB-11 to ensure constructability with multiple inlet configuration.</td>
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<td>Water Quality: Due to multiple inlet configuration it is unclear if the proposed SAFL baffle in CB-11 is constructible.</td>
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**RECOMMENDATION:** Approve with 3 Conditions and 1 Stipulation

**Conditions:**
1. Receipt of escrows.
2. For Area 2, provide figure showing double row perimeter control adjacent to wetland located west of Crooked Lake Blvd NW.
3. Provide shop drawings for SAFL baffle in CB-11 to ensure constructability with multiple inlet configuration.

**Stipulations:**
1. Submittal of as-builts for sump manholes (sump elevations, invert elevations, diameter) and proof of installation of the SAFL Baffles.