COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 13, 2018
AGENDA NUMBER: 16
FILE NUMBER: 18-147
ITEM: CR Blvd-Pleasure Creek Culvert Extension

RECOMMENDATION: Approve with 5 Stipulations

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

PURPOSE: Extend existing culvert approximately 30 feet, remove pedestrian bridge, install sidewalk.

LOCATION: Eastern side of Coon Rapids Blvd between Springbrook Drive and 93rd Ave, Coon Rapids 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. The lands and waters that have been or may be covered by the regional flood.
5. Appropriation and use of groundwater.
6. High water table, outwash and organic soils.
7. High infiltration soils.
8. Highly erodible soils.
9. 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. Construction Plan set (13 sheets); by Anoka County Highway Department, dated 7/2/18, received 7/31/18.
2. Stormwater Narrative; by City of Coon Rapids, undated, received 7/31/18.
3. Geotechnical Report; by NTI, dated 7/12/18, received 7/31/18.
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 a public ditch on the property. The public ditch is Pleasure Creek according to the public drainage map. The elevations through this property are 869.887ft MSL.

The ditch is a 3rd order stream. The ditch serves the primary role of
a. Collector system

The ditch serves approximately no acres of agricultural land.
Land use in the area is composed of urban commercial/industrial use.
There are no flooding concerns upstream and/or downstream.

The ditch has been inspected.
Existing elevations, slopes and condition of ditch are good.
The ditch is not in need of repair.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the extension of an existing culvert. The proposed extension is of sufficient hydraulic capacity.
Erosion and Sediment Control: Soil affected by the proposal is Seelyeville.

- 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.
- 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 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.

Floodplain: There is floodplain on the property according to the District model; however, there are none according to FEMA. The District’s floodplain elevation is at 874.3 feet. The project does propose to place fill within the floodplain. There are flooding concerns upstream and downstream.

High Water Flooding: Information is not needed to substantiate low floor elevations, no structures proposed.

Groundwater: Geotechnical information collected in July 2018 indicates long term groundwater elevation is present at 8 feet below the surface.

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 not been notified and should be notified.

**Maintenance:** No Stormwater Management features or treatment practice 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, infiltration requirements do not apply.

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 anticipated as part of the project. 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 storm water conveyance channels 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 Pleasure Creek. Pleasure 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 not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have not been delineated.

**Public Waters:**
The Pleasure Creek stream is a protected public water. The applicant does 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.

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

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.

**Performance Escrow:** $2,040  
Wetland Escrow: $ N/A  
There are not ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (0.08 ac * $500/ac) = $2,040</td>
<td>1. Receipt of escrows.</td>
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<td><strong>Stormwater &amp; Hydraulics:</strong> Proposed project will require District model update.</td>
<td>2. Provide as-built of culvert extension.</td>
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<td><strong>Soils &amp; Erosion Control:</strong> District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</td>
<td>3. Update erosion control plan with the following:</td>
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<td>4. Provide pump information and a high flow contingency plan that will be used for Pleasure Creek during...</td>
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construction activities. Creek peak flows are shown below for reference.

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<th>Rainfall (in)</th>
<th>Flow (cfs)</th>
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<tr>
<td>100-Yr</td>
<td>7.3</td>
<td>241</td>
</tr>
<tr>
<td>2-Yr</td>
<td>2.8</td>
<td>65</td>
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Public Waters: Stream is a DNR protected water

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5. Provide documentation from DNR Area Hydrologist regarding MPARS permit requirements for in-stream work.

RECOMMENDATION: Approve with 5 Stipulations

Stipulations:
1. Receipt of escrows.
2. Provide as-built of culvert extension.
3. Update erosion control plan with the following:
   a. Stabilize vegetation within 7 days of rough grading or inactivity.
   b. Provisions to minimize transport of sediment (mud) by runoff or vehicle racking onto the paved surface.
   c. Clearly located construction entrance from roadway.
   d. Provide for provisions to remove any accumulated sediment in Pleasure Creek prior to removing construction dam.
4. Provide pump information and a high flow contingency plan that will be used for Pleasure Creek during construction activities. Reference flows are shown below.

5. Provide documentation from DNR Area Hydrologist regarding MPARS permit requirements for in-stream work.