COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: November 26, 2018
AGENDA NUMBER: 8
FILE NUMBER: 18-166
ITEM: CSAH 78 Expansion 139th Ln to CSAH 18

RECOMMENDATION: Approve with 6 Stipulations

APPLICANT: Anoka County Highway Department
Attn: Jack Forslund
2100 3rd Ave
Anoka, MN

PURPOSE: Approximately 8,000 LF of road reconstruction and expansion.

LOCATION: Hanson Blvd (CSAH 78) from 139th Lane to CSAH 18
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. Endangered, Threatened or Special concern species, elements or communities

EXHIBITS:
1. Grading Plan set (8 sheets); by Anoka County Highway Department, dated 9/24/18, received 10/30/18.
2. Erosion and Soil Control; by Anoka County Highway Department, dated 9/24/18, received 10/30/18.
3. Stormwater Management Report; by unknown, dated 8/14/18, received 9/6/18.
4. XPSWMM Model; by Anoka County Highway Department, undated, received 10/30/18.
5. Geotechnical Report; by Braun Intertec, dated 2/6/18, received 9/6/18.
6. Background Information (What’s in My Neighborhood Results, Right-of-Way); by SHE, dated 9/5/18, received 9/6/18.
7. Wetland Delineation Report (under PAN 16-077), by SEH, dated 10/16, received 10/11/16.
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 Coon Creek according to the public drainage map. The approved/as-built elevations through this property are 864.3 ft MSL at the downstream end and 864.5 ft MSL at the upstream end.

The ditch is a 5th order stream. The ditch serves the primary role of
   a. Trunk drainage system

The ditch serves approximately 0 acres of agricultural land.
Land use in the area is toward residential. There are no flooding concerns upstream and/or downstream.

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

**Ditch Hydraulics:** A crossing of the ditch is not proposed. The existing crossing at Coon Creek is not being altered as part of the project.

**Erosion and Sediment Control:** Soils affected by the proposal are Isanti, Lino, Rifle, Sartell, Seelyeville, Zimmerman.

- 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.
- 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.
- 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.

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 884.0 feet north of Andover Blvd and 875.8 feet adjacent to Coon Creek. The project does propose to place fill within the floodplain adjacent to Coon Creek but not at Andover Blvd. The total floodplain impact is 6.1 acre-feet. The proposed impact is within the flood fringe. Compensatory storage is provided. There are no flooding concerns upstream or downstream.
High Water Flooding: No structures are proposed as part of the project. However, information has been provided to substantiate low floor elevations of existing structures adjacent to the project. Low floor elevations do meet the criteria for the City of Andover; 3 ft above mottled soils/groundwater, 2 ft over 100 yr.

Groundwater: Geotechnical information collected in September 2016 indicates long term groundwater elevation is present at 5.5 – 15.5 feet below the surface.

Portions of the project site are 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.

Maintenance: The owner of the Stormwater Management features and treatment practices is unknown. 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>
</tr>
</thead>
<tbody>
<tr>
<td>Basins</td>
<td>4</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

A maintenance agreement has not been executed. The applicant is an MS4. The Maintenance Plan is consistent with District Maintenance standards for each STP.

Easements: The proposed project does include ditch maintenance easement. A ditch maintenance easement is 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 wet ponds.

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. Properties and waterways downstream from the project are not 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 (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 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 October 20th, 2017. The wetland boundary has been checked. The wetland boundary has been approved on 10/26/18.

The wetland is not a DNR protected water. The total proposed wetland impact is 53,283 square feet (1.1384 ac.). The impact is through fill and conversion in 7 locations as shown below:
The project is not exempt. The applicant does not need to contact the DNR area hydrologist and the Corps of Engineers.

**Wetland Replacement Plan:** Two wetland replacement plans have been submitted. Two or more alternatives, plus the proposed project, have been submitted.

On-site sequencing does apply. The avoidance alternatives are considered good faith efforts. The avoidance alternatives are considered feasible and prudent.
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, alternative sites are not available, alternative sites are not practical/prudent;
   2) The basic purpose of the project cannot be accomplished by further design modification which would avoid wetland impacts; and
   3) The applicant has made a good faith attempt in pursuing alternatives;

The wetland replacement plans have been sent to TEP members for comment.

Replacement is proposed to be through purchasing wetland credits at a ratio of 2:1. Some credits will be used through the Local Government Road Wetland Replacement Program (LGRWRP, Replacement Plan 1). The TEP has concurred with the wetland mitigation plan for the (LGRWRP).

The second replacement plan (Replacement Plan 2) is proposing filling 0.08415 acres of wetland and replacing 2:1 using wetland bank 116 for the installation of a pedestrian trail.

**Wildlife:** The proposed project does 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 contacted the MDNR natural heritage or endangered species program. The MNDNR has responded to the applicant on 5/12/16. A botanical survey was conducted in August 2017 for a portion of the project area.

If the project is present, the project is not likely to propose substantial adverse alteration or significant detrimental impact on a wildlife species or removal of a plant species. Recommendations from DNR included avoid filling or dewatering wetland during the winter.

**Performance Escrow:** $17,200
**Wetland Escrow:** $1,095.00

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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<tr>
<td>Escrows: $2,000 + (30.4 ac * $500/ac) = $17,200</td>
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<tr>
<td>Temporary Wetland Impacts: $500 + (0.0085 ac. * $70,000/ac) = $1,095.00</td>
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<td>Stormwater &amp; Hydraulics: Variation in normal water level may vary within Coon Creek.</td>
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1. Receipt of escrows.
2. To prevent erosion along creek bank, place riprap 1-2’ below vegetation level at Ponds 100 and 200a outlets into Coon Creek.
<table>
<thead>
<tr>
<th>Detail for outlet structure for Pond 200B does not match XP-SWMM model sizing. Wetland boundaries not updated on construction plans.</th>
<th>3. Update construction plans to match outlet used in XP-SWMM for Pond 200B. 4. Show updated wetland boundaries on plans and provide proper erosion and sediment control around them.</th>
</tr>
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<tr>
<td><strong>Erosion and Sediment Control:</strong> Dewatering will be required for proposed work.</td>
<td>5. Once obtained, provide dewatering permit from DNR.</td>
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<tr>
<td><strong>Wetlands:</strong> TEP/LGU have not issued a decision on the Replacement Plan 2. Wetland credits are proposed to be purchased to replace the wetland impacts.</td>
<td>6. Provide additional information for the following wetland items: a. Obtain TEP approval of a Replacement Plan 2. b. Provide proof of purchase for all wetland credits.</td>
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**RECOMMENDATION:** Approve with 6 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. To prevent erosion along creek bank, place riprap 1-2’ below vegetation level at Ponds 100 and 200a outlets into Coon Creek.
3. Update construction plans to match outlet used in XP-SWMM for Pond 200B.
4. Show updated wetland boundaries on plans and provide proper erosion and sediment control around them.
5. Once obtained, provide dewatering permit from DNR.
6. Provide additional information for the following wetland items: a. Obtain TEP approval of a Replacement Plan 2. b. Provide proof of purchase for wetland credits.