COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 27, 2018
AGENDA NUMBER: 13
FILE NUMBER: 17-183
ITEM: CSAH 17-18 Intersection

RECOMMENDATION: Table with 5 Stipulations

APPLICANT: Anoka County Highway Department
1440 Bunker Lake Blvd
Andover, MN 55304

PURPOSE: Highway intersection reconstruction

LOCATION: Intersection of CSAH 17(Lexington Ave) and CSAH 18(Broadway Ave)

APPLICABILITY:
1. Any work in or adjacent to wetlands, lakes or water courses
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 (86 sheets); by Anoka County Highway Dept, dated 7/10/18, received 8/15/18.
2. Stormwater Management Report; by SRF, dated 8/13/18, received 8/15/18.
3. HydroCAD Report; by Anoka County, dated 6/18/18, received 8/15/18.
4. Geotechnical Report; by Braun Intertec, dated 7/17/18, received 8/15/18.
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 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 Lino, Isanti, Rifle 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 does exist on site. The project may require dewatering. No dewatering plan has been submitted

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

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

Groundwater: Geotechnical information collected in April 2018 indicates long term groundwater elevation is present at 8-12 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 include sites of historic or archeological significance.

Local Planning & Zoning: The proposed project is consistent with local planning and zoning. There are approved local water plans for Ham lake and Columbus.

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 the Anoka County Highway Department. 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>Sedimentation basin</td>
<td>6</td>
<td>Anoka County Highway Department</td>
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</table>
As a requirement of the City’s MS4/County’s JPA program, the City/County 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 but is infeasible due to adjacent wetlands associated with high groundwater levels. The stormwater management system utilizes sedimentation basins/wet ponds.

Drainage sensitive uses do exist downstream from the proposed site. There is a negligible increase in post-development runoff from the site; however, the increases are not expected to have adverse impacts on 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 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 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 10/23/17. The wetland boundary has been checked and approved on 12/23/17.

The total proposed wetland impact is 2.03 acres, of which 1.75 is temporary and 0.28 is permanent. The temporary impacts are proposed to be rectified and restored in-kind following the No-loss provision of WCA. The permanent impact is using fill in 5 wetlands as shown below:
TEP members have been notified with a complete plan and have been requested to submit comments. The DNR TEP member is involved because portions of the impacts occur on DNR property.

The project is not exempt.

The applicant does not need to contact the DNR area hydrologist and 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. None of the avoidance alternatives are considered feasible and prudent.

1. The applicant suggests that complete avoidance is not reasonable 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 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. reduce ditch widths
      c. narrow shoulders
      d. minimum safe line of sight distance to minimize cut and fill
**Wetland Replacement Plan:** A wetland replacement plan has not been submitted and is not required. The project may qualify for the Local Government Road Wetland Replacement Program (LGRWRP). The TEP must concur with avoidance and minimization to qualify.

The TEP has not approved the LGRWRP application.

**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 endangered or threatened species, rare natural community are two endangered plant species and one vertebrate species.

The applicant has not submitted correspondence from the MDNR natural heritage or endangered species program.

**Performance Escrow:** $4,800  
**Wetland Escrow:** $ 0

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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<tbody>
<tr>
<td>Escrows: $2,000 + (5.6ac * $500/ac) = $4,800</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td><strong>Erosion and Sediment Control:</strong></td>
<td>2. A dewatering plan needs to be submitted</td>
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<td>Dewatering: The site will require</td>
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<td>dewatering. No dewatering plan has</td>
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<td>been submitted</td>
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<td><strong>Soils &amp; Erosion Control:</strong></td>
<td>3. Update construction plans to stabilize vegetation within 7 days</td>
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<td>District requires all stabilization</td>
<td>of rough grading or inactivity.</td>
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<td><strong>Wetlands:</strong> Wetland credits are</td>
<td>4. Provide proof of withdrawal from BWSR for the state road bank</td>
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<td>proposed to be withdrawn from the</td>
<td>wetland credit usage through TEP approval.</td>
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<td>state road bank to replace the wetland</td>
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<td>impacts.</td>
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<td>include endangered or threatened species,</td>
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<td>rare natural communities, colonial</td>
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<td>waterbird nesting sites, migratory</td>
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<tr>
<td>waterfowl concentration areas, deer</td>
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wintering areas or wildlife travel corridors.

migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors and how these issues will be addressed.

**RECOMMENDATION:** Table with 5 Stipulations.

**Stipulations:**

1. Receipt of escrows.
2. A dewatering plan needs to be submitted.
3. Update construction plans to stabilize vegetation within 7 days of rough grading or inactivity.
4. Gain TEP approval and provide proof of withdrawal from BWSR for the state road bank wetland credit usage.
5. Provide documentation from the DNR if the proposed project includes endangered or threatened species, rare natural communities, colonial waterbird nesting sites, migratory waterfowl concentration areas, deer wintering areas or wildlife travel corridors and how these issues will be addressed.