COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: 2/25/2019
AGENDA NUMBER: 10
FILE NUMBER: 18-216
ITEM: Anoka County Headstart

RECOMMENDATION: Table with 6 Stipulations

APPLICANT: Anoka County- Lindsey Felgate
2100 Third Ave
Anoka, MN 55303

PURPOSE: Rehabilitate the existing parking lot and improve drainage

LOCATION: 9574 Foley Blvd, Coon Rapids, MN 55433

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. High infiltration soils
EXHIBITS:

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 but did receive a response from a technical assistance application.

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 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 not exist on site. The project does not require dewatering.

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

Groundwater: Geotechnical information collected in November 2018 indicates long term seasonal groundwater elevation is present at an unknown depth but a minimum of 6 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.

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>Infiltration basin</td>
<td>1</td>
<td>Unknown</td>
</tr>
</tbody>
</table>

A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.

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 not 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 infiltration. Calculations have been provided that illustrate the 1-inch infiltration volume is achieved below the outlet.

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 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/stormwater basins are not 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 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 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.

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 and is not required to. 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: $2,080
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 + (0.16 ac * $500/ac) = $2,080</td>
<td>1. Receipt of escrows.</td>
</tr>
<tr>
<td>Stormwater &amp; Hydraulics:</td>
<td>2. Provide detail of riprap, including</td>
</tr>
<tr>
<td>Construction plan proposed the use of</td>
<td>size and quantity.</td>
</tr>
<tr>
<td>riprap at the inlet of the infiltration basin.</td>
<td>3. Provide a deeper soil boring in basin</td>
</tr>
<tr>
<td>However, no detail was provided.</td>
<td>to confirm 3-foot separation</td>
</tr>
<tr>
<td>Three (3) foot separation between the</td>
<td>requirements or raise the bottom of</td>
</tr>
<tr>
<td>seasonally high-water table and the</td>
<td>the basin while still providing</td>
</tr>
<tr>
<td>bottom of the infiltration basin is</td>
<td>adequate infiltration areas/volume.</td>
</tr>
<tr>
<td>unknown.</td>
<td></td>
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<tr>
<td>Soils &amp; Erosion Control:</td>
<td>4. Update construction plans with the</td>
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<tr>
<td>Erosion Control Plan does not meet</td>
<td>following:</td>
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<tr>
<td>District requirements.</td>
<td>a. Stabilize vegetation within</td>
</tr>
<tr>
<td></td>
<td>7 days of rough grading or inactivity.</td>
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</table>
b. Provide rock construction entrance on plans.
c. Provide inlet protection until final stabilization is achieved on pretreatment device.

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<tr>
<th>Water Quality: All discharges into the infiltration basin are not pretreated. Bituminous surface is likely to transport additional TSS and causing clogging of the infiltration basin.</th>
<th>5. Provide pretreatment device to allow additional settling of the TSS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maintenance: It is unknown who will be responsible for the inspection and maintenance of stormwater facilities. A maintenance agreement has not been executed. The applicant has not submitted a Maintenance Plan for each Stormwater Treatment Practice.</td>
<td>6. Provide an O&amp;M Agreement that meets District requirements.</td>
</tr>
</tbody>
</table>

**RECOMMENDATION:** Table with 6 Stipulations

**Stipulations:**

1. Receipt of escrows.
2. Provide detail of riprap, including size and quantity.
3. Provide a deeper soil boring in basin to confirm 3-foot separation requirements or raise the bottom of the basin while still providing adequate infiltration area/volume.
4. Update construction plans with the following:
   a. Stabilize vegetation within 7 days of rough grading or inactivity.
   b. Provide rock construction entrance on plans.
   c. Provide inlet protection until final stabilization is achieved on pretreatment device.
5. Provide pretreatment device to allow additional settling of the TSS.
6. Provide an O&M Agreement that meets District requirements.