COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: April 24, 2017
AGENDA NUMBER: 7
FILE NUMBER: 17-020
ITEM: Boulevard Park Improvements

RECOMMENDATION: Table with 4 Stipulations

APPLICANT: Tim Himmer, Public Works Director
City of Coon Rapids
11155 Robinson Drive
Coon Rapids, MN 55433

PURPOSE: Construction of play areas, Splash Pad, trails, and vegetative landscaping

LOCATION: Southwest quadrant of Coon Rapids Boulevard and Crooked Lake Boulevard, Coon Rapids, Minnesota

APPLICABILITY:
1. One or more cumulative acres of land disturbance
2. High infiltration soils
EXHIBITS:
1. Construction Plan set (20 sheets); by WSB & Associates, dated 4/12/17, received 4/12/17.

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.

Ditches: There is not a public ditch on the property.

Ditch Hydraulics: No crossing of a ditch is proposed.

Erosion and Sediment Control: Soils affected by the proposal are Hubbard, Langola, and Nymore.
- 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.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- 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.

High Water Flooding: Information has not been provided to substantiate low floor elevations and is not needed.

Groundwater: Geotechnical information has not been provided. UMN Geologic Survey water table data indicates long term groundwater elevation is present at 20 feet or more below the surface.

The site is within a Municipal Drinking Water Supply Area (DWSMA).

The project site is 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 been notified.

Maintenance: The Owner of the Stormwater Management features and treatment practices is the City of Coon Rapids. As a requirement of the City’s MS4 program, the city will inspect and maintain the stormwater facilities.

Stormwater & Hydrology: Infiltration is allowed within the project area. The 1-inch infiltration is achieved to the maximum extent practicable. The stormwater management system includes the addition of 6” of topsoil in disturbed areas as a turf management practice, and the expansion of an existing pond to include an infiltration bench. Stormwater leaving the site is discharged into a well-defined receiving channel or pipe and routed to a public drainage system.

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 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.

It is unclear if the site will consistently infiltrate based on the NWL for the adjacent pond.

**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 not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

**Wetland Replacement Plan:**
A wetland replacement plan 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:** $2,250.00  
**Wetland Escrow:** $0.00  
There are no ditch liens on the property.

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stormwater &amp; Hydraulics: The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. A post construction test on the infiltration basin will be required to verify the assumed infiltration rates are obtained. Consistent infiltration is unclear due to the high NWL of the adjacent pond.</td>
<td>1. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>2.</td>
<td>Add a drain tile in the infiltration basin to provide a filtration outlet in the event of high subsurface water and show details to connection to existing OCS.</td>
</tr>
<tr>
<td><strong>Soils &amp; Erosion Control:</strong></td>
<td>District requires all stabilization vegetation be within seven (7) days of rough grading or inactivity.</td>
</tr>
<tr>
<td>3.</td>
<td>Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.</td>
</tr>
<tr>
<td><strong>Escrows:</strong></td>
<td>$2,000 + (.5 ac * $500/ac) = $2,250.00</td>
</tr>
<tr>
<td>4.</td>
<td>Receipt of escrows.</td>
</tr>
</tbody>
</table>

**RECOMMENDATION:** Table with 4 Stipulations:

1. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin by filling the basin to a minimum depth of 6 inches with water and monitor the time necessary to drain. The Coon Creek Watershed District shall be notified prior to the test to witness the results.
2. Add a drain tile in the infiltration basin to provide a filtration outlet in the event of high subsurface water and show details to connection to existing OCS.
3. Update construction plans to stabilize vegetation in 7 days of rough grading or inactivity.
4. Receipt of escrows.