COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 22, 2016
AGENDA NUMBER: 11
FILE NUMBER: 16-054
ITEM: Woodland Creek Wetland Banking Restoration Project

RECOMMENDATION: Approve with 4 Stipulations

APPLICANT: City of Andover
1685 Crosstown Blvd.
Andover, MN 55304

PURPOSE: Restoration of wetlands

LOCATION: 143rd Ave., Andover MN
APPLICABILITY:
1. Any work within or adjacent to a Public ditch within the Watershed District.
2. Any work in or adjacent to wetlands, lakes or water courses
3. One or more cumulative acres of land disturbance
4. The lands and waters that have been, or may be covered by the regional flood.
5. High water table, outwash and organic soils
6. High infiltration soils
7. Highly erodible soils

EXHIBITS:
1) Plan set by Minnesota Board of Water and Soil Resources; dated 6/27/16; received 8/2/2016
2) Wetland Delineation Report by MN Board of Water and Soil Resources; dated 4/28/15; received 4/30/15
3) Wetland Mitigation Bank Plan by MN Board of Water and Soil Resources; dated 3/16/16; received 3/25/16

PREVIOUS ACTION TAKEN: This is the first submittal for this 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:** A crossing of the ditch is not proposed.

**Erosion and Sediment Control:** Soils affected by the proposal are Seelyeville.
- Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not 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.
- 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 not clearly located on the erosion and sediment control plan.
- The erosion and sediment control plan does not 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
An assessment of risks to other water and related resources has not been conducted.
Dewatering plan will be the responsibility of the contractor as stated on plans.

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The project does propose to place fill within the floodplain. The total floodplain impact is not clear. The proposed impact is within the flood fringe. Compensatory storage is not provided and is not needed. There are no flooding concerns upstream and/or downstream.

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

**Groundwater:** Geotechnical information has not been provided and is not needed.
**Historic Sites:** The proposed project does not include sites of historic or archeological significance.

**Hydraulics:** A crossing of the ditch is not proposed.

**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 and acknowledge the changes proposed.

**Maintenance:** The Owner of the Stormwater Management features and treatment practices is City. The Stormwater Treatment Practices (STPs) consisting of the following:

<table>
<thead>
<tr>
<th>Stormwater Treatment Practices</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Constructed Wetlands</td>
<td>6</td>
</tr>
<tr>
<td>Infiltration Drain Filter</td>
<td>1</td>
</tr>
</tbody>
</table>

As a requirement of the City’s MS4 program, the city 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. The 1-inch infiltration is not achieved and is not needed. The stormwater management system utilizes constructed wetlands. 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.

**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 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 of 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 exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. Wetlands have been delineated. The Board of Water and Soil Resources (BWSR) submitted a Wetland Mitigation Bank Plan on March 25, 2016. The Plan is to turn a prior golf course into a wetland bank for the BWSR Local Government Roads Wetland Replacement Program. The restoration will be accomplished through excavation and fill activities to restore and rehabilitate wetland hydrology, with associated benefits to water quality, public recreation and wildlife habitat. The City of Andover will also be constructing a trail and boardwalk through the wetland.

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: $37,000
Wetland Escrow: $0 – waived because it is a wetland restoration
There are not ditch liens on the property.

ISSUES/CONCERNS:

<table>
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<tr>
<th>ISSUE</th>
<th>NEED</th>
</tr>
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<tr>
<td>Escrows: $2,000 + (70 ac * $500/ac) = $37,000</td>
<td>1. Receipt of escrows.</td>
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<td>Wetland Escrow: $0 – waived because it is a wetland restoration</td>
<td>2. Provide notes on plans erosion control sheets to stabilize vegetation in 7 days of rough grading or inactivity.</td>
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<td>Soils &amp; Erosion Control: Stabilizing vegetation is not proposed for disturbed areas within seven (7) days of rough grading or inactivity.</td>
<td>3. Provide Erosion control notes regarding how stockpiles will be stabilized.</td>
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<tr>
<td>Notes have not been provided on plans as to how stockpiles are to be stabilized.</td>
<td>4. Provide construction schedules detailing when sediment trapping measures will occur; stabilization of earthen structures and the general timing of construction phases have not been provided.</td>
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