COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: March 9, 2015
AGENDA NUMBER: 15
FILE NUMBER: 15 - 022
ITEM: Eveleth Street Construction

RECOMMENDATION: Table with 4 Stipulations

APPLICANT: City of Ham Lake
15544 Central Ave NE
Ham Lake MN 55304

PURPOSE: Construction of Eveleth Street between Bunker Lake Blvd and 134th Ave

LOCATION: Ham Lake, 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.

EXHIBITS:

HISTORY & CONSIDERATIONS:
This project has not been reviewed by the Board.

FINDINGS:
Ditches and Drainage: There is a public ditch on the property. The ditch is County Ditch 59. The ditch has not been inspected. There are approximately 0 acres of existing agricultural land affected by this ditch. The trend in land use for this drainage area is toward open space and commercial. There are no flooding concerns downstream. Alternatives to additional drainage considered and reviewed include storage and retention. The public ditch was last repaired in 1979. The ditch is not in need of repair.

Floodplain: There is no floodplain on the property according to FEMA. The District Atlas 14 model predicts the 100-year elevation for the subwatershed at 900.6 feet.

Groundwater: Surficial ground water is present at unknown feet. The site does not include groundwater sensitive areas. No buildings proposed, information is not needed to substantiate low floor elevations.

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 proposed project does include a ditch maintenance easement or utility line crossings. A drainage and utility easement is provided for all of the storm water/infiltration ponds shown on the drainage plan. Property owners affected by changes in drainage have been notified and have acknowledged the changes proposed.

Soils & Erosion Control: Soils affected by the proposal are Anoka, Lino and Zimmerman. Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading. Adjacent properties are protected from sediment deposition. All wetlands, waterbodies, ponds, infiltration basins and water conveyance systems are not protected from erosion and sedimentation. Project site is greater than 1 acre; an NPDES permit is required.
Stormwater & Hydraulics: The applicant is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. 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. It is unknown if the rate of post development runoff from the site exceeds predevelopment rates, or rates which would interfere with sensitive downstream land uses.

Water Quality: Project does include new impervious drainage areas greater than 1 acre. All discharges into wetlands are pretreated by a sediment basin/water quality pond and are designed correctly. 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.

Wetlands: Wetlands do exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey. No wetland impacts are proposed.

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: $5,750

ISSUES/CONCERNS:

<table>
<thead>
<tr>
<th>Stormwater &amp; Hydraulics</th>
<th>1. The applicant must acknowledge on the plans 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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is unknown if the rate of post development conditions exceed predevelopment rates. HydroCAD model and plan set are not consistent:</td>
<td>2. Update model and/or plan set to provide consistency a. Naming convention, CB12 and MH33 in model, not</td>
</tr>
</tbody>
</table>
- HydroCAD model refers to CB14 and MH33 that do not exist on the plan set.
- Pipe information in plan set for CBMH12, CB13, CB32, CB31 and FES32 do not match pipe information in HydroCAD model.
- Starting elevation for Pond 2 is at 894.0’ in HydroCAD model but the outlet is at 896.0’ on plan set.
- Outlet information for Infiltration Pond is shown as weir in model but as a pipe on the plan set.

<table>
<thead>
<tr>
<th>Soils &amp; Erosion Control:</th>
<th>3. After initial grading completely surrounded Pond 1 and Infiltration Pond with erosion control measures at the NWL to prevent the basin from clogging.</th>
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</thead>
<tbody>
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<td>Pond 1 and the Infiltration Pond are not protected from erosion and sedimentation during construction. After initial grading the District requires that infiltration basins be completely surrounded by erosion control measures at the NWL to prevent the basin from clogging.</td>
<td>4. Receipt of Escrows</td>
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| Escrows: $2,000 + (7.5 ac * $500/ac) = $5,750.00 |

**RECOMMENDATION:** Table with 4 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. 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.
3. After initial grading completely surrounded Pond 1 and Infiltration Pond with erosion control measures at the NWL to prevent the basin from clogging.
4. Update model and/or plan set to provide consistency
   e. Naming convention, CB12 and MH33 in model, not plan set
   f. Pipe information for CBMH12, CB13, CB32, CB31 and FES32.
   g. Starting elevation for Pond 2 in HydroCAD should match outlet elevation.
   h. Outlet structure for Infiltration Pond.