COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: September 28, 2015
AGENDA NUMBER: 6
FILE NUMBER: 15 - 117
ITEM: 147th & Aberdeen

RECOMMENDATION: Approve with 4 Stipulations

APPLICANT: City of Ham Lake/RFC Engineering
13635 Johnson St NE
Ham Lake, MN  55304

PURPOSE: 147th Avenue NE Aberdeen Street NE reconstruction

LOCATION: From intersection of 147th Ave. and TH-65 to the intersection of Hastings Street NE and 149th Avenue, Ham Lake
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 water that have been, or may be covered by the regional flood.
5. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Uses)
6. High water table, outwash and organic soils.
7. High infiltration soils.
8. Highly erodible soils

EXHIBITS:
1. Existing and proposed drainage area exhibits; dated 11/13/13; received 11/13/13
2. Erosion control and plan and profile plan sheets; dated 11/13/13; received 11/13/13

HISTORY & CONSIDERATIONS: The permit was originally approved under permit 13-095. There have been no changes to the design since the last approval. Project was required to meet 1” infiltration requirements but not rate control requirements due to site constraints.

FINDINGS:
Ditches and Drainage: There is not a public ditch on the property. The project site is tributary to County Ditch 59. The trend in land use for this drainage area is residential. There are no flooding concerns downstream. No alternatives were evaluated to handle additional drainage.

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 885.9 feet at the upstream end of the project and 882.7 at the downstream end of the project. The total floodplain impact is 0 acre-feet, within the floodplain. Compensatory storage is not needed.

Groundwater: No groundwater information was provided and is not needed.

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 not include a ditch maintenance easement or utility line crossings. Project is in City ROW, a drainage and utility easement is not needed. It is unknown if 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 Lino, Isanti, Rifle, Markey and Zimmerman. Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading. Adjacent properties are not 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 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: Project does include new impervious drainage areas greater than 1 acre. All discharges into wetlands are pretreated by a sediment basin/water quality pond. 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 not exist on-site according to the 1987 Federal manual, NWI, PWI and Soil Survey.

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: $4,350.00

ISSUES/CONCERNS:

| Stormwater & 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. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin. The Coon Creek Watershed District shall be notified prior to the test to witness the results. | 1. The applicant must acknowledge that they will conduct a post construction test on the infiltration basin. The Coon Creek Watershed District shall be notified prior to the test to witness the results. |
**Soils & Erosion Control:**
Infiltration basins 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 to prevent the basin from clogging.

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<td>11/13/2013 submittal does not show silt fence along construction limits. Provide silt fence along construction limits where drainage is away from the project to protect adjacent properties from sediment deposition.</td>
<td>3. Provide silt fence along construction limits to prevent sedimentation of adjacent properties.</td>
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**Escrows:** $2,000 + (4.70 ac * $500/ac) = $4,350.00

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<td>4. Receipt of escrows.</td>
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**RECOMMENDATION:** Approve 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. The Coon Creek Watershed District shall be notified prior to the test to witness the results.
3. After initial grading completely surrounded the proposed infiltration basins with erosion control measures to prevent the basin from clogging.
4. Provide silt fence along construction limits to prevent sedimentation of adjacent properties.