COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: December 12, 2016
AGENDA NUMBER: 14
FILE NUMBER: 15-114
ITEM: Rose Crest Street Upgrade

RECOMMENDATION: Approve with 1 Stipulation

APPLICANT: City of Ham Lake
13635 Johnson Street NE
Ham Lake, MN 55304

PURPOSE: Street Reconstruction - 3,330 linear feet

LOCATION: 171st and Kenyon Street, Ham Lake, Minnesota
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. Excavation or filling or a combination of excavation and filling of sand or other excavation or fill material including the laying, repairing, replacing or enlarging of a culvert or an underground pipe or facility where it crosses a public ditch or waters of the state.

EXHIBITS:
1. HydroCAD Report by RFC; dated 11/16/16, received 11/16/16
2. Construction Plans by RFC; dated 11/16/16, received 11/16/16
3. NHIS Response Email by MNDNR; dated 5/4/16, received 11/16/16
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 a public ditch on the property. The public ditch is County Ditch 58-3 according to the public drainage map. Ditch 58-3 was established in 1917. The ditch was last inspected in 2013. The approved elevations through this property are 898.6 ft MSL downstream of 171st Ave and 899.2 ft MSL upstream of Kenyon St NE. The observed elevation through this property are 902.1 ft MSL downstream of 171st Ave and 901.7 ft MSL upstream of Kenyon St NE. Existing elevations represent a 2.5-3.5 foot variance from the approved elevations. Alternatives to repair and additional drainage have been considered and reviewed. The ditch is in need of repair. The ditch is a 1st order stream. The ditch serves the primary role of storm water conveyance. The ditch serves approximately 0 acres of agricultural land. Land use in the area is single family residential. There are flooding concerns upstream and downstream.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the replacement of two culverts. The proposed culverts are of sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Isanti and Soderville.
- Stabilizing vegetation is 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 not been provided.
- Stormwater runoff does not pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity and is not needed.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- No stormwater inlets adjacent to project location.
- 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:** It is unknown if shallow ground water does exist on site. Dewatering is not anticipated.

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The project does not propose to place fill within the floodplain. There are no flooding concerns upstream or downstream.

**High Water Flooding:** Information has not been provided to substantiate low floor elevations and is not needed, no buildings proposed.

**Groundwater:** Geotechnical information was not provided and is not needed.

The site is not within a Municipal Drinking Water Supply Area (DWSMA).

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). Those uses include:

- Storage, production, disposal or treatment of hazardous materials
- Dry cleaning, dyeing, printing, photo processing or any other uses of hazardous materials
- Disposal of septage or septic sludge
- Vehicle or equipment maintenance/fueling area
- Underground storage tanks
- Storage and use of petroleum products
- Chemical/pesticide/herbicide storage
- Storage and use of petroleum products exceeding fifty-five (55) gallons

**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 and acknowledge the changes proposed.

**Maintenance:** No Stormwater Management features and treatment practices are proposed as part of the project.
Easements: The proposed project does include ditch maintenance easement. A ditch maintenance easement is required.

**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 overland flow. Stormwater leaving the site is 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. No increases in the volume, velocity and peak water flow rates of stormwater runoff proposed as part of the project. No concentrated storm water is proposed as part of the project. No on-site constructed storm water conveyance channels are proposed as part of the project.

**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. All work adjacent to wetlands, waterbodies and water conveyance systems are not 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 and drains to an Impaired Water.

There are 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 most recent delineation was completed on August 20, 2015. The wetland boundary has been checked. No wetland impacts are proposed.

**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.

**Performance Escrow:** $2,040.00
**Wetland Escrow:** N/A
There are not ditch liens on the property.
### ISSUES/CONCERNS:

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<td>Escrows:</td>
<td>1. Receipt of escrows.</td>
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Escrows: $2,000 + (0.08 ac * $500/ac) = $2,040.00

### RECOMMENDATION:

Approve with 1 Stipulation

### Stipulations:

1. Receipt of escrows.