COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE:          October 22, 2018
AGENDA NUMBER:         8
FILE NUMBER:           18-173
ITEM:                 Main Street Bridge Repair

RECOMMENDATION:        Approve with 2 Stipulations

APPLICANT:             Anoka County Highway Department
                        1440 Bunker Lake Blvd NW
                        Andover, MN

PURPOSE:               Bridge Repair

LOCATION:              Bridge over Coon Creek at Main Street, Coon Rapids, MN

APPLICABILITY:
1. Within 1 mile of an impaired waters.
2. Any work within or adjacent to a Public ditch within the Watershed District.
3. Any work in or adjacent to wetlands, lakes or water courses
4. The lands and waters that have been or may be covered by the regional flood.
5. High water table, outwash and organic soils

EXHIBITS:
1. Construction Plan set (70 sheets); by Anoka County Highway Department, dated 7/16/18, received 9/13/18.
2. Project Narrative; by Anoka County Highway Department, dated 9/13/18, received 9/13/18.
3. Comment Response Packet; by Anoka County Highway Department, dated 10/09/18, received 10/10/18.

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 Coon Creek according to the public drainage map. The approved/as-built elevations through this property are 848.6 ft MSL at the downstream end and 849.5 ft MSL at the upstream end.

The ditch is a 5th order stream. The ditch serves the primary role of
a. Trunk drainage system

The ditch serves approximately 80 acres of agricultural land. Land use in the area is a mix of agricultural, residential, and wetlands. There are drainage sensitive lands upstream.

The ditch has been inspected. Existing elevations, slopes and condition of ditch are good. The ditch is not in need of repair.

Ditch Hydraulics: A crossing of the ditch is proposed. The proposed crossing involves the replacement of a bridge. The proposed bridge is of sufficient hydraulic capacity.

Erosion and Sediment Control: Soils affected by the proposal are Alluvial and Rifle.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles not anticipated as part of this project.
- 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.
- No storm sewer impacted as part of the project.
- 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 not 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.

Dewatering: 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 District’s floodplain elevation is at 858.4 feet on the north side and 858.0 feet on the south side of the bridge. The project does propose to place fill within the
floodplain. There are no flooding concerns upstream or downstream. Total floodplain cut volumes are greater than floodplain fill volumes. No compensatory storage is needed.

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

**Groundwater:** Geotechnical information was not provided and is not needed. No structures or infiltration proposed.

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).

**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:** No Stormwater Management features or treatment practices proposed as part of the project.

Easements: The proposed project does not include ditch maintenance easement. A ditch maintenance easement is not required.

**Stormwater & Hydrology:** Infiltration is allowed within the project area. The 1-inch infiltration is achieved via overland flow.

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. No concentrated storm water 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 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 of 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 are 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 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. There has not been a delineation completed. The potential wetland has been checked by the TEP and flags delineating the boundary have been staked.

The wetland is not a DNR protected water.

The project is not exempt. The total proposed wetland impact is 0 square feet.

Wetland Replacement Plan: A wetland replacement plan has not been submitted.

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.

If the project is present, the project does not propose substantial adverse alteration or significant detrimental impact on a species or removal of a plant species.

Performance Escrow: $3,750
Wetland Escrow: $ N/A
There are not ditch liens on the property.

ISSUES/CONCERNS:

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<tr>
<th>ISSUE</th>
<th>NEED</th>
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<tbody>
<tr>
<td>Escrows: $2,000 + (3.5 ac * $500/ ac) = $3,750</td>
<td>1. Receipt of escrows.</td>
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<tr>
<td>Soils &amp; Erosion Control:</td>
<td>2. Update construction plans to include provisions for cleaning road surfaces where sediment is transported by the end of the day.</td>
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<td>Provisions have not been made for cleaning road surfaces where sediment is transported by the end of the day.</td>
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RECOMMENDATION: Approve with 2 Stipulations

Stipulations:
1. Receipt of escrows.
2. Update construction plans to include provisions for cleaning road surfaces where sediment is transported by the end of the day.