COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: May 28, 2013
AGENDA NUMBER: 7
FILE NUMBER: 13 - 046
ITEM: 118th Avenue Culvert Replacement

RECOMMENDATION: Approve with 2 Stipulations

APPLICANT: City of Blaine Engineering Department
10801 Town Square Drive
Blaine, MN 55434

PURPOSE: Replace a deteriorating culvert

LOCATION: 118th Avenue and County Ditch 41 in Blaine
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. The lands and water that have been, or may be covered by the regional flood.
4. Highly erodible soils
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.
6. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:
1. Construction plans by the City of Blaine Engineering Department, 5/2/13, received 5/13/13.
2. Contract documents and technical specifications by the City of Blaine Engineering Department, 5/2/13, received 5/13/13.

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 41. The ditch has been inspected. The project site is tributary to County Ditch 41. The trend in land use for this drainage area is toward open space and residential. There are flooding concerns downstream. There is no additional drainage as part of this project.

Floodplain: There is floodplain on the property according to FEMA but there is no additional floodplain fill as the road shoulders will remain the same. The total floodplain impact is 0 acre-feet, within the flood/fringeway. Compensatory storage is not needed.

Groundwater: Surficial ground water information doesn’t apply because this is a culvert replacement. The site does include groundwater sensitive areas. Information has not been provided to substantiate low floor elevations 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 include a ditch maintenance easement or utility line crossings. It is not necessary to notify property owners affected by changes in drainage because this is a culvert replacement matching hydraulics.

Soils & Erosion Control: Soils affected by the proposal are Lino loamy fine sand and Isanti fine sandy loam. 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 protected from erosion and sedimentation. Project site is 0.25 acres. Therefore, less than 1 acre; so an NPDES permit is not required.

**Stormwater & Hydraulics:** The volume management requirement equivalent to infiltrating runoff from the first inch of precipitation is not applicable. No new impervious is proposed. 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. The applicant is proposing to replace the existing culvert with a hydraulically equivalent culvert.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. There are no discharges into wetlands that are not treated. The proposal may detrimentally affect the existing water quality of the receiving water because of 10-10-20 fertilizer is proposed within the Hydro Seed mix. The proposal will not cause extreme fluctuations of water levels or temperature changes.

**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. No substantial adverse alteration or significant detrimental impact on a species food supply, security or reproductive cycle or the alteration or removal of a plant species will occur.

**Wetlands:** Wetlands do exist on-site according to the NWI and Soil Survey. The proposed project is not expanding the road shoulders or slopes.

There are no proposed wetland impacts.

**Escrows:** Escrows have not been paid. $1500 + (1 acre *200/acre) + (100 Lf. Of Ditch disturbed * 10$ per lf)= $2,700.00

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<th>ISSUES/CONCERNS</th>
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<td><strong>Escrows:</strong> Escrows have not been paid.</td>
<td><strong>Performance Escrow:</strong> $1500 + (1 acre *200/acre) + (100 Lf. Of Ditch disturbed * 10$ per lf)= $2,700.00</td>
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<td><strong>Water Quality:</strong> The City should determine if fertilizer is required for the new seeding. The proximity to the ditch makes nutrient escape to the water an issue.</td>
<td>Recommend the applicant do a soil test to see if fertilizer is necessary to establish plant growth on the seeded areas.</td>
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CONCLUSIONS: This project does meet District standards. Performance Escrows and Water Quality items must be submitted prior to issuance of a Permit.

RECOMMENDATION: Approve with 2 Stipulations

Stipulations:
1. Receipt of escrows.
2. Recommend the applicant do a soil test to see if fertilizer is necessary to establish plant growth on the seeded areas.