COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: August 24, 2015
AGENDA NUMBER: 9
FILE NUMBER: 15 - 102
ITEM: Harpers Street

RECOMMENDATION: Table with 6 Stipulations

APPLICANT: City of Blaine
10801 Townsquare Drive
Blaine MN 55449

PURPOSE: Widening Harpers Street from 126th to 128th by 4 feet. Adding 8 foot bituminous path on west and 6 foot concrete sidewalk on east.

LOCATION: Harpers Street between 126th and 128th, Blaine
APPLICABILITY:
1. One or more cumulative acres of land disturbance.
2. Activities upstream from land that is dependent upon removal of water from the soil profile for their continued use (Drainage Sensitive Uses)
3. High infiltration soils.
4. Highly erodible soils
5. Endangered, Threatened or Special concern species, elements of communities.

EXHIBITS:
1. Permit Submittal Narrative by City of Blaine, dated 8/6/2015, received 8/12/2015
2. Construction Plan set (21 sheets) by City of Blaine, dated 7/28/2015, received 8/12/2015.

HISTORY & CONSIDERATIONS:
This item has not been before the CCWD Board.

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 toward open space and residential. There are no flooding concerns downstream. Alternatives to additional drainage considered and reviewed include storage and retention.

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 897.4 feet. The total floodplain impact is 0 acre-feet. Compensatory storage is not needed.

Groundwater: Surficial ground water is present at unknown feet. The site does not include groundwater sensitive areas. No structures 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 not include a ditch maintenance easement or utility line crossings. Project is owned by the city, a drainage and utility easement is not needed for the storm water/infiltration ponds shown on the drainage plan. The 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 and Zimmerman. Stabilizing vegetation is proposed for disturbed areas within two weeks of rough grading. It is unknown if 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 not 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 does exceed predevelopment rates, or rates which would interfere with sensitive downstream land uses.

**Water Quality:** Project does not include new impervious drainage areas greater than 1 acre. All discharges into wetlands are not pretreated by a sediment basin/water quality pond and are designed correctly. The proposal will detrimentally affect the existing water quality of the receiving water. The proposal will 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 include the Blanding’s turtles (*Emydoidea blandingii*), a state-listed threatened species, which has been reported from the vicinity of the proposed project and may be encountered on site. The applicant will be provided with information to protect the turtle.

**Performance Escrow:** $2,645.00

**ISSUES/CONCERNS:**

<table>
<thead>
<tr>
<th>Soils &amp; Erosion Control:</th>
<th>1. Provide additional details indicating that runoff will be contained onsite during construction activities or provide silt fence along construction limits to prevent sedimentation of adjacent properties.</th>
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<tr>
<td>It is unknown if adjacent properties are protected from sediment deposition. Cross section does not extend past proposed trails to indicate if drainage is toward or away from the project location.</td>
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<tr>
<td>Also, 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.</td>
<td>2. After initial grading completely surrounded the proposed infiltration basins with erosion control measures to prevent the basin from clogging.</td>
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<tr>
<td>All wetlands, waterbodies, ponds, infiltration basins and water conveyance</td>
<td>3. Provide sump details and locations. Sumps should be a minimum of 4x</td>
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</table>
systems are not protected from erosion and sedimentation. Narrative indicates that sumps will be installed but no details have been provided. Sumps must be designed to have a depth of 4x the outlet pipe diameter according to EPA standards.

**Stormwater & Hydraulics:** The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. The narrative indicates that an additional 0.18 acres of impervious will be added but that only accounts for the widening of the road. The trails will also add an additional 0.62 acres of imperviousness. The storage provided with the six infiltration basins is 441 cf. If applicants cannot meet this requirement due to site constraints in its entirety, they must meet it to the greatest extent practical and explain why it cannot be met.

Also, without additional storage, there will be an increase in drainage to existing storm sewers and regional ponds. Documentation needs to be provided that shows that the downstream structures/basins have the capacity to accept additional drainage.

**Escrows:** $2,000 + (1.29 ac * $500/ac) = $2,645.00

**RECOMMENDATION:** Table with 6 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. Provide sump details and locations. Sumps should be a minimum of 4x the outlet diameter to meet EPA requirements.
3. Provide additional details indicating that runoff will be contained onsite during construction activities or provide silt fence along construction limits to prevent sedimentation of adjacent properties.
4. After initial grading completely surrounded the proposed infiltration basins with erosion control measures to prevent the basin from clogging.
5. Provide stormwater runoff calculations that show the site is meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation.
6. Provide documentation that downstream structures/basins can accept additional drainage from increased impervious area.