COON CREEK WATERSHED DISTRICT
PERMIT REVIEW

MEETING DATE: September 24, 2017
AGENDA NUMBER: 14
FILE NUMBER: 17-176
ITEM: SLP Westwood Middle School 2017 Basketball

RECOMMENDATION: Approve with 3 Stipulations

APPLICANT: Spring Lake Park Schools
1415 81st Ave NE
Spring Lake Park, MN 55432

PURPOSE: 4200 FT Basketball Court on 3.4 Acre Lot

LOCATION: 1000 feet west of intersection of Hwy 610 and Polk Street, Blaine, 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. The lands and waters that have been, or may be covered by the regional flood.
4. High infiltration soils
5. Highly erodible soils

EXHIBITS:

2. Site Survey (4 sheets); by Sunde, dated 5/17, received 9/13/17.

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 17 (Springbrook Creek) according to the public drainage map. The observed elevations through this property are 892.7 ft MSL at the downstream end and 893.8 ft MSL at the upstream end. The ditch is a 4th order stream. The ditch serves the primary role of collector system. The ditch serves approximately 0 acres of agricultural land. Land use in the area is public and single family residential. There are no flooding concerns upstream or downstream. The ditch has been inspected. Existing elevations, slopes and condition of
ditch are good. Alternatives to repair and additional drainage have been considered and reviewed. The ditch is not in need of repair.

**Ditch Hydraulics:** A crossing of the ditch is not proposed.

**Erosion and Sediment Control:** Soils affected by the proposal are Isanti, and Zimmerman.
- Stabilizing vegetation is proposed for disturbed areas within seven (7) days of rough grading.
- Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.
- Adjacent properties and stormwater ponds are not 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.
- Stormwater runoff does pass through a sediment basin or other sediment trapping BMP with equal or greater storage capacity.
- Stabilization adequate to prevent erosion has been provided at the outlets of all storm sewer pipes.
- All storm sewer inlets are protected from sediment-laden water during construction.
- All work adjacent to water or related resource has not 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 not 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:** Shallow ground water may exist on site. Dewatering is not anticipated as part of the project.

**Floodplain:** There is floodplain on the property according to the District model and FEMA. The District’s floodplain elevation is at 901.4 feet. The project does not propose to place fill within the floodplain. There are flooding concerns upstream and downstream.

**High Water Flooding:** Information has not been provided and is not needed, no structures proposed.

**Groundwater:** Geotechnical information was not provided and is not needed.
The site is within a Municipal Drinking Water Supply Area (DWSMA).

The project site is 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.

Neighboring properties should not be affected by new drainage.

**Maintenance:** No Stormwater Management features or treatment practices are 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 not allowed within the project area due to proximity to Well Head Protection Area. 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 may exceed predevelopment rates; however, the rates will not adversely impact or 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. Concentrated storm water leaving a site is discharged directly into a well-defined natural or man-made off-site receiving channel or pipe. All on-site constructed storm water conveyance channels are constructed to withstand the expected velocity from a 2-year frequency storm without erosion.

**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. No discharges in wetlands proposed. 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 County Ditch 17 (Springbrook Creek). Springbrook 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 not 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 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:** $2,125.00  
**Wetland Escrow:** $ N/A  
There are not ditch liens on the property.

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<th>ISSUES/CONCERNS:</th>
<th>NEED</th>
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<td><strong>ISSUE</strong></td>
<td><strong>NEED</strong></td>
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<tr>
<td>Escrows: $2,000 + (0.25 ac * $500/ac) = $2,125.00</td>
<td>1. Receipt of escrows.</td>
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| **Soils & Erosion Control:** Soil stockpiles have not been proposed to be fitted with sediment-trapping measures to prevent soil loss.  
All work adjacent to water or related resource has not taken precautions to contain sediment, and stabilize the work area during construction.  
Construction entrance points are not clearly located on the erosion and sediment control plan. | 2. Update Erosion Control Plan with the following items:  
a. If soil stockpiles are present, they must be fitted with sediment-trapping measures to prevent soil loss.  
b. Provide silt fence at northern end of basketball court to prevent sedimentation of ditch.  
c. Provide construction entrance location |
| **Floodplain:** As a result of the ditch to the north of the project being connected to CD 17 (Springbrook), the floodplain elevation at this location is 901.35 feet (NAVD 88). | 3. Recommend raising the grading of the basketball court above the floodplain elevation of 901.35 feet. |

**RECOMMENDATION:** Approve with 3 Stipulations

**Stipulations:**
1. Receipt of escrows.
2. Update Erosion Control Plan with the following items:
a. If soil stockpiles are present, they must be fitted with sediment-trapping measures to prevent soil loss.

b. Provide silt fence at northern end of basketball court to prevent sedimentation of ditch.

c. Provide construction entrance location

3. Recommend raising the grading of the basketball court above the floodplain elevation of 901.4 feet.