COON CREEK WATERSHED DISTRICT
BOARD OF MANAGERS' MEETING
March 23, 2015

The Board of Managers of the Coon Creek Watershed District held their regular meeting on March 23, 2015, at Bunker Hills Activity Center.

POLICY ITEMS
1. Call to Order: The meeting was called to order at 7:30 PM
   Present: Scott Bromley, Warren Hoffman, Clayton Kearns, Nick Phelps, and Byron Westlund.
   Staff: Tim Kelly, Ed Matthiesen, Diana Shonyo, and Michelle Ulrich
   Others: Jim Lindahl of Anoka Conservation District and Tom Schmidt of Coon Rapids

2. Approval of the Agenda: Items 16 Name Tags and 17 iPads were added to the agenda.
   Motion to approve the Agenda, as amended, was made by Hoffman and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

3. Open Mike: No one present for open mike

POLICY ITEMS:
4. Approval of Minutes: Motion to approve the Minutes was made by Kearns and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

5. Public Hearing on Proposed Rule Change Concerning Survey Elevation Datum:
   Motion to convene public hearing was made by Hoffman and seconded by Westlund. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays. The hearing convened at 7:32 PM. There were no members of the public present.

   Kelly explained the reason for the amendment is to change the date of the datum to be used by the District from 1929 to 1988.

   Motion to close the hearing was made by Kearns and seconded by Hoffman. Motion carried with five yeas (Hoffman, Kearns, Phelps, and Westlund) and no nays. The hearing closed at 7:33 PM.

   Motion to Adopt the Rule Change was moved by Westlund and seconded by Hoffman. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

   Motion Accepting Resolution No. 15-03 was moved by Westlund and seconded by Kearns.
RESOLUTION NO. 15-03
ADOPTING REVISED RULE CONCERNING SURVEY ELEVATION DATUM

WHEREAS the Coon Creek Watershed District (District) is a metropolitan watershed district with the powers and duties set forth in Minnesota Statutes chapters 103B and 103D, and is statutorily authorized to take those actions to protect and conserve the water resources of the watershed;

WHEREAS under Minnesota Statutes section 103D.341 the District Board of Managers (Board) is required to adopt rules to accomplish the purposes of Minnesota Statutes chapter 103D and implement its statutory powers;

WHEREAS as part of the District’s 2014 update to its XPSWMM model the District changed its survey datum from 1929 to 1988. The datum used effects the accuracy of the resulting elevations used in construction and calculating flood elevations;

WHEREAS the District’s current Floodplain Rule section 9.2 addresses survey data used in construction and calculating flood elevations referenced to NGVD 1929;

WHEREAS as a result of the District’s 2014 XPSWMM model update the Board believes its Rule section 9.2 needs to be adjusted or clarified to change the date of the datum used in applications and survey work within the watershed from 1929 to 1988;

WHEREAS the Board in January 2015 directed staff to seek an amendment to the existing District Rule section 9.2 changing the 1929 datum reference to 1988;

WHEREAS in accordance with law the District has provided the proposed amendment language to BWSR, MnDOT, Anoka County, transportation authorities and cities in the District as well as the District’s Technical Advisory Committee, for a 45-day review and comment period;

WHEREAS none of the above review authorities have objected to the Rule amendment as proposed;

WHEREAS on March 23, 2015, after duly published notice, the District held a public hearing on the proposed amendment to explain and provide the public an opportunity to comment on the proposed amendment;

WHEREAS upon hearing and consideration of this matter the District finds that the proposed amendment is sound, reasonable and fair and furthers the District’s purposes of protecting and conserving the water resources of the District.

THEREFORE BE IT RESOLVED, that the Board adopts the proposed amendment to Rule section 9.2 as follows:
Exhibits  The applicant must submit with its permit application the following:

1. Site plan showing boundary lines, delineation and existing elevation contours of the work area, ordinary high water level and 100-year critical flood elevation. All elevations shall be referenced to NGVD (1988 datum)

BE IT FURTHER RESOLVED that the revised rule is effective as of March 24, 2015 and will apply to all applications for permits submitted to the District on and after that date.

Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

6. Blaine Local Water Plan: Kelly discussed the need for Blaine to update their plan and what they will have to accomplish in the future. Staff offered the following findings:
The Blaine 2015 Local Water Plan:

1. Substantially complies with the plan content requirements of M.S. 103B.
2. Adequately identifies the existing and potential problems facing the City
3. Adequately addresses the actions to address and manage those problems
4. Addresses the roles and goals of the Coon Creek Watershed District in managing and assisting the City of Blaine in addressing the water and related resource concerns within the city until the City’s Comprehensive Plan is updated

Recommended that the Board adopt findings and approve plan.

Motion to Adopt Findings and Approve the Plan was moved by Hoffman and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

PERMIT ITEMS:
7. 169th Ave & Xylite: The purpose of this project is street reconstruction including: grading, aggregate base, bituminous, storm drains, and concrete curb at 169th St. NE just E of Nassau St. to Xylite St. NE and Xylite St. NE from 169th Ave NE to Crosstown Blvd. NE in Ham Lake, MN.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>Stormwater &amp; Hydraulics:</th>
</tr>
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<tbody>
<tr>
<td>The applicant is not meeting the volume management requirement equivalent to infiltrating runoff from the first inch of precipitation. However, due to the size of the receiving wetland small increases in runoff during the 1 inch storm are going to have minimal to no impact on the receiving</td>
</tr>
</tbody>
</table>

waters. The increase in volume for the 1 inch storm is 1,234 cubic feet, which is minimal.

Table 1-3 show the existing, proposed, and differences in peak discharge and volume for the project, respectively.

There is some concern in the increased volume to Stokes Addition Pond. Under existing conditions no discharge form the road goes into this pond. Under proposed conditions 2.82 acres at 21% impervious is drained to it. The HydroCAD model models the pond as a flow through node, which does not account for the overall hydrologic and hydraulic performance of the pond. This will need to be provided to show that the pond can handle the increased flow and that there are adjacent property owners at risk of flooding.

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>1. Provide H&amp;H calculations for the Stokes pond. This will need to be a complete review of the existing and proposed hydraulic performance to ensure that the pond can take the proposed flows.</td>
<td></td>
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<tr>
<td>2. Provide approval for use of Stokes pond</td>
<td></td>
</tr>
<tr>
<td>3. Provide calculations for a 2-year event for existing and proposed conditions</td>
<td></td>
</tr>
<tr>
<td>4. Wetland impacts will need to be reviewed and approved by the TEP</td>
<td></td>
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<tr>
<td>5. Applicant must complete a habitat assessment and submit it to the DNR.</td>
<td></td>
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</table>
determine if it contains suitable habitat for rare wetland plants found in the Anoka Sand Plain.

**Escrows:** $2,000 + (8.42 ac * $500/ac) = $6,210.00

6. Receipt of escrows

Staff recommendation is to Table with 6 Stipulation:
1. Receipt of escrows of $6,210.00.
2. Provide H&H calculations for the Stokes pond. This will need to be a complete review of the existing and proposed hydraulic performance to ensure that the pond can take the proposed flows.
3. Provide approval for use of Stokes pond
4. Provide calculations for a 2-year event for existing and proposed conditions.
5. Wetland impacts will need to be reviewed and approved by the TEP
6. Applicant must complete a habitat assessment and submit it to the DNR.

Phelps asked for clarification of the wildlife issue.

Staff recommendation to Table with 6 Stipulations was moved by Kearns and seconded by Hoffman. Motion carried with five yea (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

**8. Peace Lutheran Community Gardens:** The purpose of this project is site grading to make a community garden on Peace Lutheran Church property NW of Butternut and University Ave. in Coon Rapids, MN.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>Stormwater &amp; Hydraulics:</th>
<th>The site grading will direct more storm water to an existing storm water pond. It is unknown if this creates a pond outlet and storage capacity problem.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floodplain:</td>
<td>The applicant is grading the site to create a community garden. In doing so they are removing a casual depression area capable of retaining 0.2 ac-ft of runoff from the 100-year event and directing this flow to an adjacent residential storm water pond. It is unknown if this additional flow presents a flooding problem to that pond.</td>
</tr>
<tr>
<td>Soils &amp; Erosion Control:</td>
<td>The entire area</td>
</tr>
<tr>
<td></td>
<td>1. Either provide stormwater runoff calculations that show the additional storm water directed to the residential pond does not create a flooding problem or provide compensatory storage to offset the amount of depressional storage filled.</td>
</tr>
<tr>
<td></td>
<td>2. Extend silt fence to surround the...</td>
</tr>
</tbody>
</table>
of proposed grading needs to be encircled by silt fence.

grading on the 914 contour on the northwest corner.

**Escrows:** $2,000 + (3.8 ac * $500/ac) = $3,900.00

3. Receipt of escrows.

Staff recommendation was to Approve with 3 Stipulations:

1. Receipt of escrows of $3,900.00.
2. Extend silt fence to surround the grading on the 914 contour on the northwest corner.
3. Either provide stormwater runoff calculations that show the additional storm water directed to the residential pond does not create a flooding problem or provide compensatory storage to offset the amount of depressional storage filled.

Motion to Approve with 3 Stipulations was moved by Bromley and seconded by Hoffman. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund), and no nays.

**9. Sand Creek Park:** The purpose of this project is the reconstruction of Sand Creek Park S of Hwy 11 (Northdale Blvd. NW) and E of railroad tracks in Coon Rapids, MN.

The staff report provided to the Board identified the following issues and concerns:

**Stormwater & Hydraulics:** A 3 foot groundwater separation is required from bottom of pond to considered infiltration. Soil borings closest to basins 3A, 4 and 5 do not provide the required 3 foot groundwater separation. Drain tile should be installed to allow for filtration at these basins which will meet the Districts infiltration requirements.

1. Install drain tile to allow for filtration at Basins #3A, #4 and #5.

   a. Groundwater elevation at SB17 is 870.34’ and Basin #3A bottom elevation is at 871.5’ which does not meet the 3’ groundwater separation required for separation. Drain tile should be installed for filtration to meet districts infiltration requirements.

   b. Groundwater elevation at SB18 is 869.21’ and Basin #4 bottom elevation is at 871’ which does not meet the 3’ groundwater separation required for separation. Drain tile should be installed for filtration to meet districts infiltration requirements.
infiltration requirements.
c. Groundwater elevation at SB19 is 867.52 and Basin #5 bottom elevation is at 869.9’ which does not meet the 3’ groundwater separation required for separation. Drain tile should be installed for filtration to meet districts infiltration requirements.

Pre-treatment cells should be included in HydroCAD model to accurately represent drainage on site. This includes the pre-treatment cells north of Basin #2 and to the east of Basins #3 and #3A.

Basin information on plan set and model are inconsistent:
   a. Basin #1
      i. R4342 Outlet structure is 878.44’ on plan set and 878.25’ in model.
      ii. HWL is 878.9’ on plan set and 878.79’ in model.
      iii. Total pipe length should reflect distance to next basin (pre-treatment cell), 953’ on plan set, and 937’ in model.
      iv. Basin should be routed to pre-treatment cell, not to ditch outlet.
   b. Basin #3
      i. Weir outlet in model not shown on plan set.
      ii. HWL is 874.1’ on plan set and 874.04’ in model.
      iii. Outlet pipe information, 196’ @ 1.02% on plan set and 200’ @ 1.00% in model
   c. Basin #3A
      i. HWL is 874.1’ on plan set and 874.38’ in model.

2. Include pretreatment cells in the HydroCAD model to accurately model drainage pattern and storage on site. This includes the pre-treatment cells north of Basin #2 and to the east of Basins #3 and #3A.

3. Provide consistent information on plan set and model.
   a. Basin #1
      i. R432 Outlet structure is 878.44’ on plan set and 878.25’ in model.
      ii. HWL is 878.9’ on plan set and 878.79’ in model.
      iii. Total pipe length should reflect distance to next basin (pre-treatment cell), 953’ on plan set, and 937’ in model.
      iv. Basin should be routed to pre-treatment cell, not to ditch outlet.
   b. Basin #3
      i. Weir outlet in model not shown on plan set.
      ii. HWL is 874.1’ on plan set and 874.04’ in model.
      iii. Outlet pipe information, 196’ @ 1.02% and 200’ @ 1.00%
   c. Basin #3A
      i. HWL is 874.1’ on plan set and 874.38’ in model.
<table>
<thead>
<tr>
<th>Details for storm sewer outlet control devices for basins were not provided (labeled R4342 in HydroCAD model).</th>
<th>4. Provide details for storm sewer outlet control devices at basins (Labeled R4342 in HydroCAD model).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basins need to have pretreatment to prevent sedimentation. Curb cut inlets to infiltration basins need to be identified on plan set.</td>
<td>5. Identify locations of curb cuts and pretreatment devices on plan set.</td>
</tr>
<tr>
<td>Wetlands: The wetland delineation report has not been submitted due to the time of year. The wetlands on the site are in a later phase of the project and any impacts will be reviewed as part of the later phase. The applicant is proposing to do the project in 3 phases.</td>
<td>6. A wetland delineation report must be submitted and if any impacts are proposed, a wetland permit must be obtained.</td>
</tr>
<tr>
<td>Escrows: $2,000 + (51 ac * $500/ac) = $27,500.00</td>
<td>7. Receipt of escrows.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Table with 7 Stipulations:

1. Receipt of escrows of $27,500.00.
2. Install drain tile to allow for filtration at Basins #3A, #4 and #5.
3. Include pretreatment cells in the HydroCAD model to accurately model drainage pattern and storage on site. This includes the pre-treatment cells north of Basin #2 and to the east of Basins #3 and #3A.
4. Provide consistent information on plan set and model.
   a. Basin #1
      i. R432 Outlet structure is 878.44’ on plan set and 878.25’ in model.
      ii. HWL is 878.9’ on plan set and 878.79’ in model.
      iii. Total pipe length should reflect distance to next basin (pre-treatment cell), 953’ on plan set, and 937’ in model.
      iv. Basin should be routed to pre-treatment cell, not to ditch outlet.
   b. Basin #3
      i. Weir outlet in model not shown on plan set.
      ii. HWL is 874.1’ on plan set and 874.04’ in model.
      iii. Outlet pipe information, 196’ @ 1.02% and 200’ @ 1.00%
   c. Basin #3A
      i. HWL is 874.1’ on plan set and 874.38’ in model.
5. Provide details for storm sewer outlet control devices at basins (Labeled R4342 in HydroCAD model).
6. Identify locations of curb cuts and pretreatment devices on plan set.
7. A wetland delineation report must be submitted and if any impacts are proposed, a wetland permit must be obtained.
Staff recommendation to Table with 7 Stipulations was moved by Hoffman and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

10. **Springbrook Development-Phase I:** The purpose of this project is single family development with roads, building pads, utilities, and storm water treatment W of Harpers St. NE and N of 128th Ave NE in Blaine, MN.

The staff report provided to the Board identified the following issues and concerns:

<table>
<thead>
<tr>
<th>Wetlands: USACE has not approved wetland credits.</th>
<th>1. Permit cannot be issued until applicant has received Corps approval.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Escrows: $2,000 + (20 ac *$500/ac) = $12,000.00</td>
<td>2. Receipt of escrows.</td>
</tr>
</tbody>
</table>

Staff recommendation was to Approve with 2 Stipulations:

1. Receipt of escrows of $12,000.00.
2. Permit cannot be issued until applicant has received Corps approval.

Staff recommendation to Approve with 2 Stipulations was moved by Hoffman and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

11. **Willowfield:** The purpose of this project is to develop an empty lot between Harpers St. NE and Jamestown St. NE (running N/S) and 129th Ave. NE and 128th Ave. NE in Blaine, MN.

The staff report provided to the Board identified the following issues and concerns:

| Escrows: $2,000 + (4.5 ac *$500/ac) = $4,250.00 | 1. Receipt of escrows.                                             |

Matthiesen asked that a 2nd Stipulation be added.

Staff recommendation was to Approve with 2 Stipulation:

1. Receipt of escrow of $4,250.00.
2. Verify timing of Blaine’s Regional Pond and 100-yr elevation for on-site and adjacent abutting parcels.

Staff recommendation to Approve with 2 Stipulations was moved by Westlund and seconded by Bromley. Motion carried with five yeas (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.
DISCUSSION ITEMS
12. Advisory Committee Comments on Potential Change to Permit Application Deadline: Kelly presented comments made by the Citizen Advisory Committee and the Technical Advisory Committee. The comments were an overall supportive of the change. However, there were concerns regarding resubmittals.

Staff recommendation to seek input from a sample of developers and engineers was moved by Westlund and seconded by Hoffman. Motion carried with five yea's (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.


INFORMATIONAL ITEMS


16. Name Tags: Name tags were given to Board members.

17. iPads: Board members each received an iPad and notified that a training session will be arranged for the near future.

ADJOURN
The meeting adjourned at 9:05 PM on a motion by Kearns and seconded by Hoffman. Motion carried with five yea's (Bromley, Hoffman, Kearns, Phelps, and Westlund) and no nays.

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Byron Westlund, President