

**Village of Caledonia Utility District Meeting
September 2, 2020**

1. Meeting Called to Order – The Regular Meeting of the Village of Caledonia Utility District was held on Wednesday, September 2, 2020, at the Caledonia Village Hall, located at 5043 Chester Lane Racine, Wisconsin. The meeting was called to order by President Howard Stacey at 6:00 pm.

2. Roll Call – Those present were President Howard Stacey, Commissioners Michael Pirk, Dave Ruffalo, Tony Minto, Mark Brigman and Trustee Lee Wishau. Commissioner Sullivan was excused. Also present were Utility Manager Robert Lui, and Utility Director Anthony Bunkelman.

3. Approval of Minutes

a. Upon a motion by Minto and seconded by Pirk, the Commission approved the minutes from the Utility District’s previous regular meeting held August 5, 2020. A copy of these minutes have been furnished to each Commissioner. **Motion Carried.**

4. Citizen Comments – None

5. Communications and Announcements

a. Racine Water Utility Agenda & Minutes

The Commission looked over the July 21st Minutes and the August 18th Agenda for the Racine Water Utility.

b. Racine Wastewater Utility Agenda & Minutes

The Commission looked over the July 21st & July 28th Minutes, and the August 18th Agenda for the Racine Wastewater Utility.

6. Approval of O&M Bills

a. Upon a motion by Brigman and seconded by Wishau, the Commission approved payment of O&M Bills, related to the Sewer Utility District totaling \$214,996.46. **Motion Carried.**

b. Upon a motion by Brigman and seconded by Wishau, the Commission approved payment of O&M Bills, related to the Water Utility District totaling \$306,752.73. **Motion Carried.**

c. Upon a motion by Brigman and seconded by Wishau, the Commission approved payment of O&M Bills related to the Storm Water Utility District totaling \$722,490.07. **Motion Carried.**

7. Project Updates

a. Construction Contract Status

The current contract statuses were shared with the Commissioners.

b. Caddy Vista Improvements / Lift Station

Restoration work to fix storm damage and areas that did not take was completed August 11. Awaiting final Pay Request.

c. Riverbend Drive Lift Station Safety Site

Design of project has restarted due to Sewer Capacity Issues.

d. Lighthouse Drive Lift Station Upgrade Site

J Miller Electric will be out Thursday 3rd and/or Friday 4th for the cathodic protection box. Coating for cathodic protection scheduled for the week of September 7th. Project projected to be completed the week of September 14th.

e. South Lane Sanitary Sewer

First manhole installed on August 10th. Contractor bounced around on several jobs with same crew. Starting August 24th crew will stay on site to complete job.

f. Rio Vista Shorewood & Stonebridge Utility Improvements

All watermain and laterals are in and operational for entire project. Small storm sewer work, sanitary sewer lining and restoration of areas remains.

g. DeBack Industrial Park Phase 3 Improvements

Information has been sent to the owners and the Special Assessment meeting will be held when the Village Hall can host larger public meetings.

h. Annual Televising Program – Sanitary Sewer

Progress continues on televising of this years scheduled program. Discovered a Utility that was bored through a sanitary sewer on 6 Mile Road and Novak Road. Meeting with Utilities for repair on Monday.

i. Water Impact Fee / Sewer Connection Fee Update

The sewer capacity issues have changed the CIP for the Sewer Utility and will change the information on the Connection Fee. Update to come next month. Spoke with Tom Ludwig about fees on September 2nd.

j. EPA Risk & Resilience Assessment and Emergency Response Plan

Work to start in December 2020.

k. Hoods Creek – Aldebaran Brushing Project

Awaiting dry weather and will reassess the needs of the Hoods Creek along the Aldebaran Subdivision.

l. Tanglewood Avenue Storm Sewer Replacement Project

Storm Sewer completed. Hydrant valve installed and replaced watermain on Acacia due to road being entirely repaved. Restoration is currently being done. Paving of road scheduled for September 8th.

m. Wind Point West Subdivision Project

Storm sewer completed. Restoration currently being done. Patching of roads to be done the week of August 31st. Sanitary lining to begin shortly after 2 spot repairs are completed.

n. GIS Updates

Project has been worked on as time allows. Will be updating servers when information is received.

o. Alcyn Drive – Drainage Complaint

Updated plans and came up with a cost estimate. Recommend discussion on how this should be handled. QA/QC on gas main/laterals to be done but ready to share with owners.

p. Douglas Avenue – OMG Ditch Project

Met with owners in field to go over updated plans. Majority owner has now decided to allow the channel to be larger to convey larger storm events. Owners would like to see project expanded to pick up the secondary stream from Harvest Lane. Will be providing the owner with cross section necessary to handle the 100-year storm per his changed request for his approval.

8. Action Items

a. August 10, 2020 Rainfall event

On August 10, beginning around 4pm and lasting until approximately 5:30pm the area experienced an extremely high intensity rain event that dropped approximately 4.5” of total rainfall. The majority of the rainfall fell in the first half hour (approximately 3.5”). This rainfall event lead to multiple flooded roads, washed out shoulders, sink holes, backed up storm sewer systems, flooded basements, sanitary sewer backups, etc.

The Caledonia Utility District is anticipating receiving another exceedance letter from the Racine Wastewater Utility. Near the end of the rainfall event (5:15pm), Central Lift Station was operating only 1 small pump (+2800 GPM). Within minutes (5:21pm) the station was pumping with 2 large pumps (+8500 GPM) and the wet well was rising at over an inch per minute. With the wetwell rising, the sanitary sewer manholes on Valley Trail and 4 Mile Road were observed and both were found to be exfiltrating blended sanitary sewer into the Birch Creek. Upon viewing this, discussions were had with President Dobbs about the proximity of basements if the wet well were to continue to rise. The decision was made to operate all 3 large pumps at Central in an attempt to prevent basement backups. At 6:15pm all 3 large pumps began pumping (+10,500 GPM) and ran until the next morning. With the 3 large pumps running the wetwell was then holding steady.

Around 6:30pm a call came in for a basement backup of sanitary sewer. Upon arrival, several of the homes on the East end of Catherine Drive had backups of sanitary sewer in their basements. Measurements were taken on the effluent levels in the manholes.

Keith Haas from the Racine Wastewater Utility was contacted around 7:00pm to find out the condition at the wastewater treatment plant and to inform him that Caledonia was indeed going to have an exceedance.

At 7:40pm the 6" trash pump was set up in a sanitary manhole upstream of the wet well and was bypassed to the Birch Creek as well. With the trash pump and the 3 large pumps going at Central the station was pumping approximately +/-12,000 GPM. With the 2 manholes exfiltrating as well the wetwell started to go down slowly.

The wetwell was monitored consistently until approximately 12:30am on August 11th. At this time the wetwell elevation was at an acceptable level and the 3 large pumps could maintain the elevation without bypassing and having exfiltration out of manholes.

With the bypass pump running for 4 hours 35 minutes and the manholes exfiltrating for approximately 6 hours 30 minutes it was estimated that 1,635,080 gallons of blended sanitary sewer was discharged to the Birch Creek. These SSO's were reported to the Wisconsin DNR as required.

On August 11th and for at least a week after the event, the Utility has been receiving calls about basement backups. To date we have been informed of 17 basement backups.

Also starting on August 11th and continuing to date, the Utility has been receiving numerous drainage complaints. Some of the areas that we will be reviewing further are located in Country View Estates, North Meadows Subdivision, areas along the Klema Ditch, Westview Village Subdivision and Majestic Manor. Some of the issues occurred due to the loss of power and sump pumps not working. Others were due to the intensity of the rainfall being over the design capacity of the system. The Engineering Department is working through most of the drainage complaints and the Utility will be reviewing the major issues as identified above.

b. Wind Dale & Wind Point West Storm Water Utility Improvements – Change Order #2

Director Bunkelman indicated that Change Order #2 was needed for the Wind Point West portion of the project for the water laterals. 8 additional offsets were performed. This adds \$15,792.00. In addition, it was determined that the watermain in Acacia should be replaced due to the road being entirely repaved. The watermain adds \$84,699.30. This change order equals 6.42% of the original contract. Total change orders to date are 9.8% of the original contract.

Upon a motion by Brigman and seconded by Minto, the Commission moved to approve Change Order #2 for the Wind Dale & Wind Point West Storm Water Utility Improvements Project. **Motion Carried.**

c. Alcyn Drive Project Update

Director Bunkelman indicated that he designed a storm sewer option as requested by the owners. The storm sewer option only benefits 3 properties due to lack of depth. This storm sewer option would have an assessment of approximately \$9,400.00. This cost is steep and higher than any assessments levied in the past. Working toward obtaining a quote from a local contractor to check the cost estimate. Unless the quote is very favorable, the culvert replacement option previously provided to the owners. If a ditching project was completed the total cost would be roughly \$20,000.00. Once numbers from the contractor are received a meeting with the owners will be held to see how they want to proceed, if at all. No action necessary at this time.

9. Adjournment

Upon a motion by Brigman and seconded by Minto, the Commission moved to adjourn the regular meeting at 6:42 pm. **Motion Carried.**

Respectively submitted,
Anthony A. Bunkelman P.E. Utility Director