2020 COUNCIL INFRASTRUCTURE COMMITTEE MEETING SCHEDULE

City Services Center, 500 15th Ave. SW
Five Seasons Conference

*The 3rd Tuesday of each odd month*

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Submittal Deadline for Agenda Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, January 21</td>
<td>4:00 p.m.</td>
<td>Thursday, January 9</td>
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<tr>
<td>Tuesday, March 17</td>
<td>4:00 p.m.</td>
<td>Thursday, March 5</td>
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<tr>
<td>Tuesday, May 19</td>
<td>4:00 p.m.</td>
<td>Thursday, May 7</td>
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<tr>
<td>Tuesday, July 21</td>
<td>4:00 p.m.</td>
<td>Thursday, July 9</td>
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<tr>
<td>Tuesday, September 15</td>
<td>4:00 p.m.</td>
<td>Thursday, September 3</td>
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<tr>
<td>Tuesday, November 10 *</td>
<td>4:00 p.m.</td>
<td>Thursday, October 29</td>
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</tbody>
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*Meeting changed to the second Tuesday of the month due to Council meeting holiday schedule*
2019 Construction Recap

Nate Kampman, City Engineer

E Avenue from 80th to Stoney Point
3rd Avenue SE

Johnson Avenue NW
Mt. Vernon Road SE

Collins Road NE
To: City Council Infrastructure Committee
From: Construction
Subject: Operational Update – Capital Improvement Projects
Date: January 14, 2020

Update:
Overall, the 2019 construction season was a success and most of our capital improvement projects were brought to substantial completion before winter temperatures arrived. The Construction Engineering team administered and inspected over 80 capital improvement projects, 26 site developments/subdivisions and completed over 3,800 right-of-way permit inspections during this past construction season.

Updates for several of the larger capital improvement projects completed during the 2019 construction season are:

**E Avenue NW from 80th Street to Stoney Point Rd** – The two year project finished one week early in August with the opening of the roundabout at E Avenue NW and Stoney Point Road shortly before schools were back in session. The entire intersection was removed and the roundabout constructed during the summer break. This is the fourth roundabout put into service within the city. The project was also completed under budget.

**3rd Avenue SE from 1st to 19th Street SE** – This project is nearly complete. The remaining work items include some permanent pavement markings to be placed when the weather is favorable. Final punch list work items will take place in the spring to close out the project. The project will be completed within the time allowed by the construction contract.

**Johnson Avenue NW from Wesley Drive to 1st Avenue** – This two-year construction contract to reconstruct the roadway and associated underground utilities is currently substantially complete and was finished on schedule. The project included two new roundabouts at Jacolyn Drive and at Wiley Boulevard, which is next to Hoover Elementary. Both roundabouts are functioning very well, and we have not received any concerns from the school. City personnel offered on site roundabout training to school personnel and crossing guards during the first few weeks of school in August of 2018. The contractor did very well maintaining access to and communicating with businesses between 1st Avenue and Jacolyn Drive during the 2019 phase of construction. Only three minor items remain to be completed this spring prior to project closeout.

**Mt. Vernon Road SE from 38th Street to E Post Road** - This project is nearly complete with only soil restoration and sodding remaining to be completed in the spring. Weather was not favorable at the end of this construction season for placing sod in a manner that would have been satisfactory to ourselves or the homeowners.
Public Works 2020 Preview

January 21, 2020

- Right-of-Way Occupancy Ordinance
  - Department managers currently reviewing
  - Infrastructure Committee – April/May 2020
  - City Council – May/June
  - Implementation – July 1, 2020
- Fourth Annual Contractor Meeting
  - February 19 and 21, 2020
• Sewer
  • Private Well Ordinance
  • Modifications to Stormwater Cost Share Program

PRIVATE WELL TYPES
(#275 TOTAL IDENTIFIED WITHIN THE CITY)
- Private 96, 35%
- Commercial 76, 28%
- Geothermal 54, 20%
- NonCity PWS 41, 15%
- Irrigation, 7, 2%
- Livestock, 1, 0%
• 275 private wells identified

• Potential contaminated sites:
  • Contaminated sites
  • Leaking underground storage tanks
  • Underground storage tanks
• 1000 foot buffer placed on all potential contaminated sites
• Actual contamination is unknown

Geothermal Open Loop (Pump & Dump)

Franklin MS (Cedar Lake, Kenwood Basin): 0.174 MGD (120 gpm)
McKinley MS (Cedar River, Downtown): 0.625 MGD (434 gpm)
Wilson MS (Jones Pond, Prairie Creek): 0.265 MGD (184 gpm)
Kilborn Inc., 2911 1st Ave SE (Indian Creek): 0.00576 MGD (4 gpm)
Diamond V, 436 G Ave NW (Silver Creek/Cedar River): 0.58 MGD (403 gpm)
Succession LC, 2nd St & 4th Ave SE (downtown/Cedar River): 0.167 MGD (116 gpm)

Submitted known pumping rates to include into flood control system.
Ordinance Revisions

• Chapter 12- Water Service
• ‘Private well’ = drinking water well and non-drinking water well
• Private well requires permit from Linn County Public Health (LCPH)
• LCPH permit approval requires approval from CR Water Department
• Discharge plan required for open loop geothermal and dewatering wells

Stormwater Cost Share Program

• Evaluate break-even costs for ERU Reduction Strategy vs. Cost Share
• Evaluate average number of projects that can be completed with available funds
• Re-evaluate effectiveness of education component of ERU Reduction Strategy
Thank you
• Performed 200 construction site inspections for regulatory compliance
• Performed 110 public stormwater detention basins
• Preformed 100 private stormwater detention basins
• Cleaned 92 miles of storm and sanitary sewer
• Ditched 1 miles of waterway
• Completed 14 miles of sewer inspection
• Completed 40 sewer main and structure repairs
To: City Council Infrastructure Committee
From: Public Works Street Maintenance
Subject: Operational Update
Date: January 21, 2020

Mowing
- Purchased 5 zero turn mowers
- Completed 13 rotations on I-380 corridor, City owned properties and right-of-way. This is an increase from 5 rotations in 2018.
- Reduced mowing areas to 3:1 side slope to improve safety and created no-mow green space zones.
- Landscaped median maintenance is completed by a contractor and inspected weekly by the ROW Coordinator.
- Mowing maps have been created to allow better monitoring of routes.
- Tree cutting around guardrails and bridges is currently underway.

Paving for Progress
- Completed 3.6 miles of residential street improvements using city crews. This accounts for 22 projects in residential areas completed, up from 15 in 2018.

General Fund
- City is making use of recycled concrete by crushing the concrete removed from projects. This material is then used as subbase on new projects saving the City $180,000 in material plus additional savings by not having to dispose the material. Subbase use increased by 1300 tons with the increase in projects.
- Completed Glass Road project between Wenig and I380 using maintenance funds and staff. This is a significant high traffic and high profile project.
- Completed 3 city-wide rotations of street sweeping in 2019
Update:

- Roadway Pavement Marking. City of Cedar Rapids’ marking crews finished the annual program in October including pavement marking on state highways. New record of 1.817 million feet (2% increase from last year.) This total mileage includes all linear marking including bike lanes, and marking on state highways.

- All signs, which the majority of these included street names and stop signs, upgraded on the following roads:
  - J Street SW from 16th Avenue to 66th Avenue
  - Oklahoma Street SW
  - Miller Avenue SW
  - Vermont Street SW
  - Cornell Street SW
  - Ohio Street SW
  - Mayden Avenue SW
  - Deerwood Street SW
  - Klinger Street SW
  - Florida Avenue SW
  - Wyoming Street SW
  - Plus 18 Paving for Progress Projects completed by the Streets Division

- Downtown lighting outlet repairs for holiday lights

- Traffic signal pole and mast arm replacements
  - Collins Road NE at F Avenue NE due to significant damage to 1 pole. Completed after rush hour to reduce impacts to traffic.
  - Diagonal Drive SW at L Streets SW/I-380 NB on Ramp was also due to crash, which caused significant damage to 1 pole.

- Replacing outdated or adding new vehicle detection at traffic signals. Signal crews have replaced 9 of these systems to date and have 18 systems to install into the spring.

- Traffic Engineering Division has reviewed and facilitated 44 special events for the quarter. The division support includes issuing press releases, temporary no parking restrictions, and coordinating street closures.

- Bike Lanes/Trails/Bikeways
  - Added 2.1 miles of new bike lanes (1.2 miles on 3rd Ave SE between 8th St SE and 19th St SE; 0.2 miles on 12th Ave SE between 17th St SE and 19th St SE; 0.3 miles on 12th Ave SE between 2nd St SE and 7th St SE; and 0.4 miles on 10th St SE between 2nd Ave SE and 8th Ave SE)
  - Added 0.5 miles of protected bike lanes on 3rd Ave between 1st St SW and 5th St SE
  - Added 0.6 miles of new trail near and thru Cherry Hill Park, between Stoney Pt Rd NW and Sharon Lane NW.

- Traffic has reviewed and updated signal timing for 90% of the traffic and pedestrian signals in the city.