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Pipe in this area is in the worst condition of any televised in Freeport. I have placed it as #2 priority as backups have not been reported in this area. Structural failures of the pipe and infiltration are common in this area. Significant root problems are limited to one pipe segment.

Recommended Action: Sanitary sewer in this area is generally accessible for open cut replacement. By open cutting the pipe services would be replaced to the right of way line, with adjacent owners being encouraged to replace them between the right of way and the house. Obtaining easements and replacing the entire service with this project would also be a good means of eliminating inflow.

*Budgetary Estimate: Replacing sewer and the replacing the existing street: \$475,000 - \$525,000. Adding water and additional street improvements (curb, storm sewer, and wider street) would increase costs substantially. Previous estimates for this area (2<sup>nd</sup> and 3<sup>rd</sup> Streets as well as 3<sup>rd</sup> and 4<sup>th</sup> Ave ) including sewer, water, storm, and streets was approximately \$1,500,000.*

**Area 3 – Trunk Sewer from Mill area to Lift Station**

The main deficiency related to this line is the crossing of the trail. The ductile iron line has corroded to the point where the camera cannot pass through the pipe. This is fairly common in gravity ductile iron pipes with lower velocities. The lack of backups in the mill area shows that the pipe is not limiting flow through the line, but that potential exists for future blockage. The lack of service lines in general on this pipe appears to help limit infiltration and inflow.

Recommended Action: Monitor the flows in the pipe following improvements to the above areas. The existing ductile iron gravity sewer pipe would likely be replaced with an 8" PVC sewer inside a steel casing. The reduced number of services makes the line going north a good candidate for CIPP lining.

*Budgetary Cost of improvements - \$225,000 - \$250,000.*

**Area 4 – 8<sup>th</sup> Street SE**

Infiltration into the sanitary sewer in this region was mainly noted in service lines and evidence of past infiltration (mineral deposits and scaling). Active infiltration was noted less frequently than in other main lines. Pipe segments in this area appear to be more structurally sound than areas 1 and 2 above, which is likely a function of the installation date. Backups have been reported by homeowners along 8<sup>th</sup> Street with an exact cause not being pinpointed.

Recommended Action: Reduce inflow from sump pumps and private drain tile. Once areas 1 and 2 above are repaired, the behavior of the sewer should be evaluated in this region to determine if further repairs are needed.

**Area 5 – Fire Station Area**

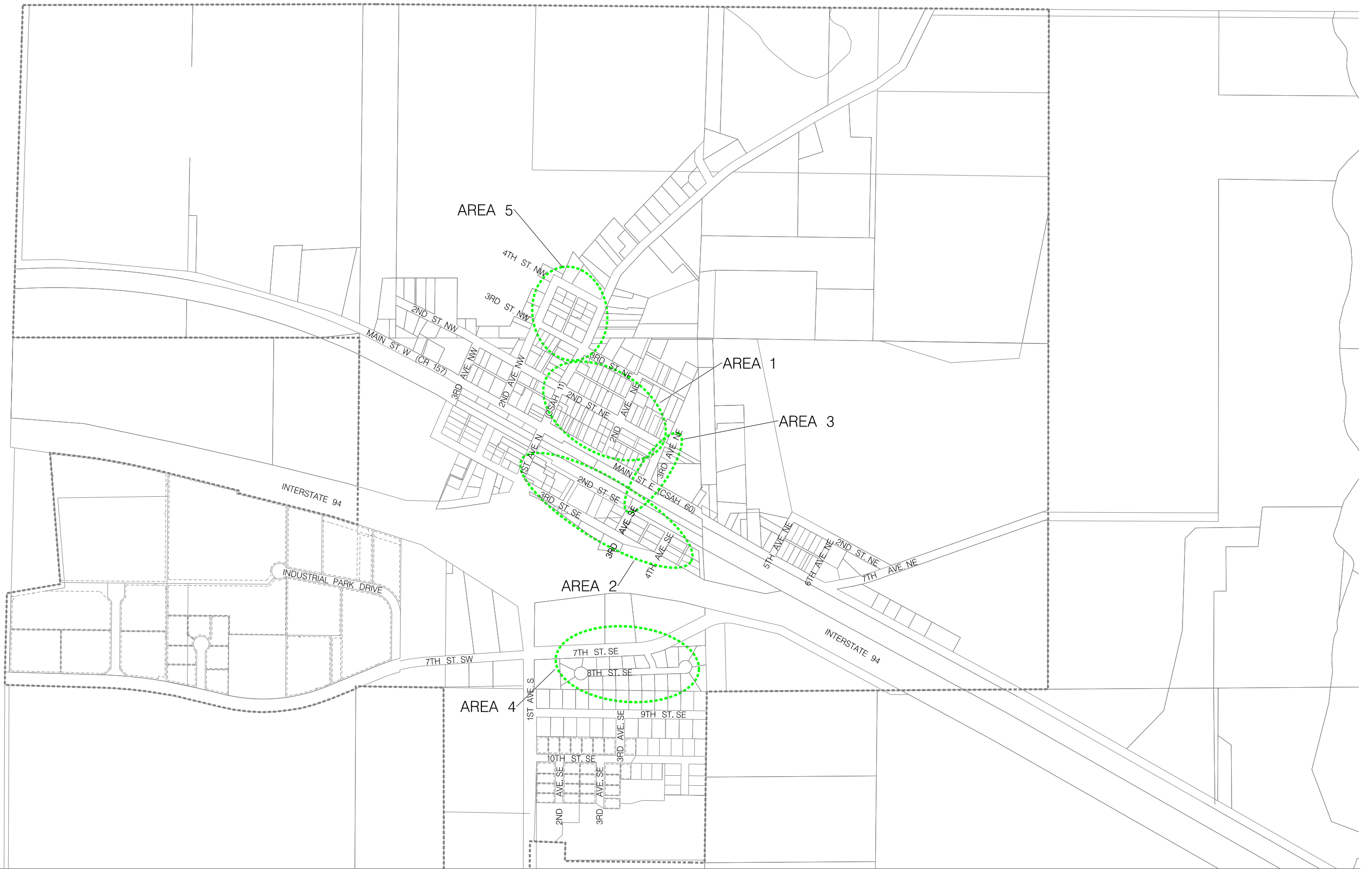
The major deficiencies in this area are related to sags in the pipe. Solids accumulate in the pipe sags, which leads to maintenance on these pipes being required more frequently. If the solids accumulation are significant enough, backups can occur. I have listed this region as the lowest priority due to the lack of backups noted and its location relative to the problem areas. It is likely lining would not correct the problems in this neighborhood, so an open cut approach would be the most effective. Street condition will likely drive improvements in this area prior to sanitary sewer needs.

Recommended Action: Reduce inflow from sump pumps and private drain tile. Jet clean lines annually to prevent solids from settling in the sags.

I will be unable to attend your meeting in person on Tuesday due to a schedule conflict with another meeting. If you would like to discuss any of the above information please feel free to contact me. Email: [dblommel@sehinc.com](mailto:dblommel@sehinc.com) or directly by phone 320.229.4349.

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PROJECT PRIORITY (FIGURE 1)  
 INFILTRATION AND INFLOW INVESTIGATION  
 FREEPORT, MINNESOTA

# Memo

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From: Adrianna Hennen, Clerk-Treasurer

To: Freeport City Council

Date: 8/6/2015

Re: Pay Ranges

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At the last meeting Eveslage was extremely curious in knowing how Kathleen Murphy came up with the pay ranges (formulas, etc.). I had a really nice/informational conversation with Kathleen and she stated that she had given a presentation to the previous council, but will again, at the August regular meeting, go through it and get this council's input as we finally put this policy into place. Instead of me trying to relay information from her, she will cover everything at the August meeting and this way she can answer any questions you all have as she explains everything. She's great at explaining this, so I have no doubt that everyone will understand fully and come up with a plan that everyone agrees upon. So Mike, all of those questions you had, save them up for August 25<sup>th</sup>, and that goes for the rest of you as well, write down any questions that you have so you can ask them she can address them at the regular meeting.