

## Dave Maroney

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**Subject:** Ohio Street drainage

**From:** Greg Anderson [<mailto:ganderson@sehinc.com>]

**Sent:** Tuesday, November 12, 2019 9:39 AM

**To:** Dave Maroney

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Dave,

The survey is in and of course there are no easy fixes/answers. While there is 2 feet of fall from the low area along Ohio Street to the pipe inlet off of Washington Street (CSAH 17), they are about 800 feet apart, which if straight graded would be a swale/ditch with 0.02% grade. For perspective the flattest I like to see a swale is 0.05%, twice as "steep" as this swale would be. So there doesn't appear to be a "quick fix" to just grade a short portion of the alley to send the water further north, away from the houses on Ohio Street. The entire alley length would need to be graded to get as close to the above grade as possible. Given the flat grade, I'd expect we'd have a flat swale and likely some standing water in several spots along it.

So a couple of options/thoughts:

- Over excavate a swale in the alley, north of the Hernke parcel, to a grade below that around the Hernke buildings. Not knowing the underlying soils this may likely result in standing water and with only 16 feet of alley width to work with, not very practical.
- Excavate a larger pond possibly in conjunction with Mulvihill parcel development at a depth that would be lower than the Hernke buildings. This would result in a pond that likely holds water and would require land beyond what the City currently has in easement.
- Wait for a larger street project to provide a more comprehensive solution for the Ohio Street area. At this point not sure which route a larger storm outlet may go. Likely north to Washington Street, but not for certain.

Give me a call to discuss,  
Greg

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