

elm creek Watershed Management Commission

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Hickory Drive Utility & Street Improvements *Medina, Project #2019-006*

Project Overview: This project will reconstruct approximately 375 feet of roadway and utilities on Hickory Drive. Hickory Drive runs north of Hamel Road and is adjacent to Elm Creek. The land use along the road is business/commercial and apartments consisting of ~50% impervious areas. Because this area was developed before the Commission's 2nd Generation stormwater management plan, there is no water quality treatment on site. As part of this project, the City proposes to create a stormwater ponding area adjacent to Elm Creek, to meet the Commissions current stormwater standards. This is a Medina and ECWMC CIP project. The proposed project creates less than 1.0 acre of new impervious area and disturbs 1.04 acres of ground. Our review will

Applicant: City of Medina -Dusty Finke, 2052 County Road 24, Medina, MN 55340. Phone: 763-473-8846. Email: dusty.finke@ci.medina.mn.us

Engineer/Agent: WSB Engineering, Jim Stremel, 701 Xenia Ave. Suite 300, Golden Valley, MN 55416. Phone: 763-287-8532. Email: jstremel@wsbeng.com

Exhibits:

- 1) ECWMC Request for Plan Review and Approval dated February 22, 2019.
- 2) Fees for grading and erosion control and water quality/quantity on a commercial/industrial redevelopment.
- 3) Hickory Drive Hydro-CAD drainage report/design received March 13, 2019.
- 4) Hickory Drive Street and Utility Improvement Project plan set by WSB Engineering, dated February 19, 2019. 25 of 25 sheets.
- 5) Floodplain Earthwork Exhibit by WSB Engineering, Sheet 1 of 1, revised plan received March 13, 2019.

Findings:

- 1) A complete application was received on February 22, 2019. The initial 60-day review deadline, per MN Statute 15.99, expires April 21, 2019.
- 2) Existing stormwater is generally routed overland to the east where it flows into Elm Creek. The City proposes to construct and route storm sewer northeast into a new NURP pond being constructed along the edge of the floodplain/wetland area of Elm Creek.

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- 3) Floodplain will be impacted by this work.
 - a. The 100-year flood elevation is at 978.0 on this site. Part of the berm construction to the pond will be constructed in the floodplain, impacting (filling) 12.8 cubic yards of floodplain volume.
 - i. Mitigation of this volume was proposed to be provided by the excavation in the floodplain adjacent to the pond, above the NWL of the water table.
 - ii. Floodway does not appear to be impacted by this fill/mitigation.
 1. FEMA cross-section shows a floodway width of 99 feet and a floodway cross section area of 82 square feet at Cross-Section CY.
 2. Further refinement of the FEMA floodplain/floodway will be undertaken by the applicant and staff
 3. If floodway is impacted significant enough to warrant a hydraulic/hydrology analysis, this will be required.
- 4) The City of Medina is the LGU in charge of administrating the MN WCA. No wetlands are being impacted by this work.
- 5) Flow rates will meet the Commission standard.
 - a. They will be controlled by the new pond system being installed on the east side of this project.
 - b. Flow rates (based on NOAA Atlas 14) are as follows;

	2-yr (cfs)	10-yr (cfs)	100-yr (cfs)
Pre-Development Rate	9.2	17.7	35.9
Post-Development Rate	7.5	11.2	33.8

- 6) PondNet estimates nutrient flows from the pond to be 3.3 lbs/year. Prior to the pond construction, the feasibility report estimated T_p at 11 lbs/year.
- 7) The City of Medina will own the pond property and provide long term operation and maintenance on the pond.
- 8) Erosion and sediment controls meet the Commission's requirements.

Recommendation: Provide staff administrative approval authority pending final approval of the floodplain/floodway

Hennepin County
Department of Environmental Services



James C. Kujawa
Advisor to the Commission

March 13, 2019
Date

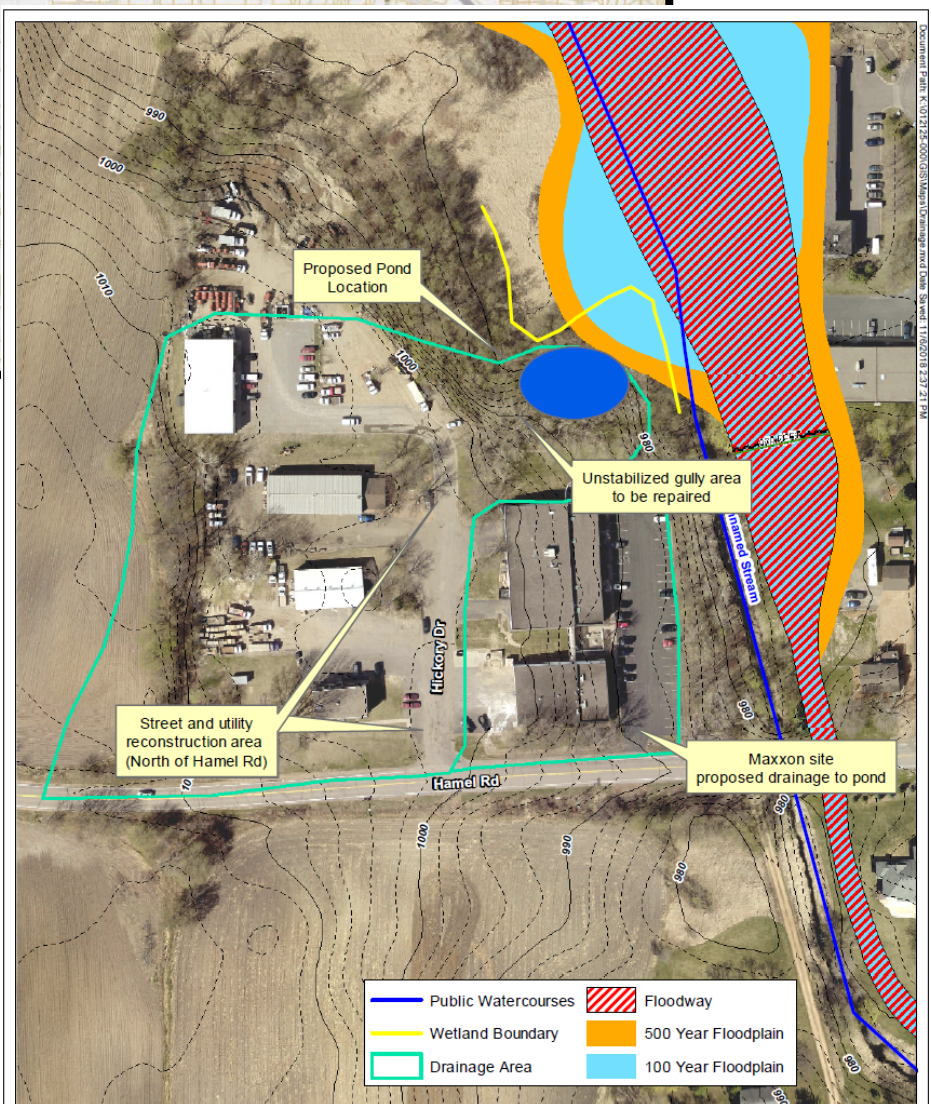
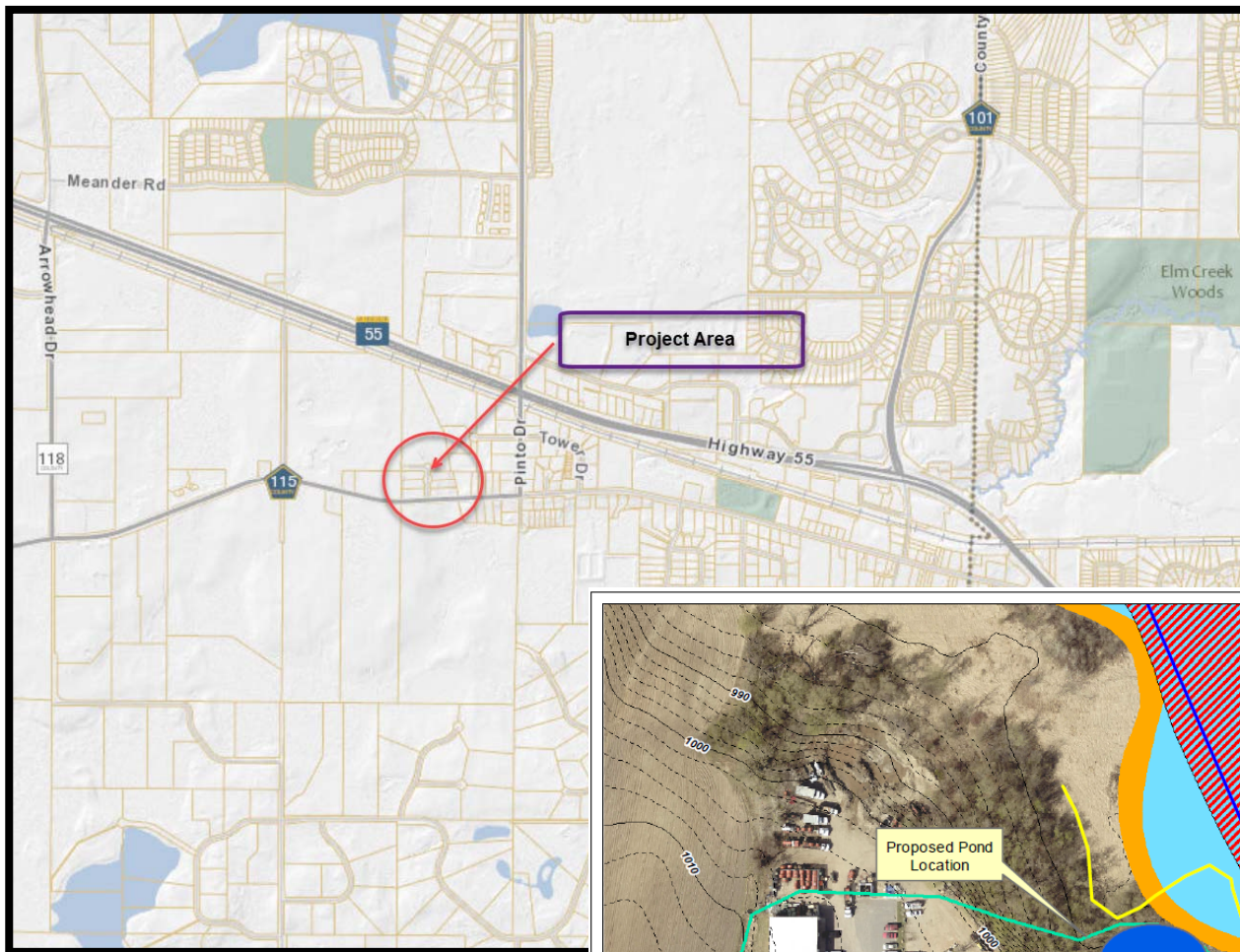


Figure 2 - Proposed Project Improvements
 Hickory Drive Improvements
 City of Medina, Hennepin County, Minnesota

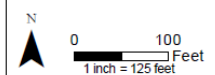






PHOTO: ETHAN JACKSON

SPONSORSHIP OPPORTUNITY: 2019 WATER SUMMIT

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Sponsoring is a prime marketing opportunity for your organization that also gives back to the community. Receive excellent visibility in front of over 200 professionals and active citizens including water resource managers; scientists; engineers; architects; employees of local, regional, and state agencies and government; private business professionals; citizen advocates; and the media. Sponsors are promoted in print and digital marketing channels that reach thousands. Be the first to support education for water resource professionals and citizen advocates by supporting this new convening event in the Twin Cities.

What we do

Freshwater is a nonprofit organization dedicated to clean and reliable water in Minnesota. We are a leading education and policy organization that helps citizens, community groups, and local governments take their next steps for water. We specialize in making Minnesota's groundwater supplies sustainable and preventing polluted runoff from contaminating our lakes and streams.

See reverse for sponsorship levels.

EVENT DETAILS

WHAT: 2019 Water Summit: Bridging Science and Society

A two-day event featuring a day of showcasing local innovation in projects and programs that protect our water, followed by an optional half-day tour highlighting best practices in water management.

Relying on the science and technology behind our work doesn't always lead to successful projects and programs. We often overlook the power of people. Knowing who to involve and when, as well as who is *not* involved and why, are critical pieces of the puzzle if we are to achieve our clean water goals. At the 2019 Water Summit we will explore new and innovative ways to protect our surface and groundwater resources while also highlighting the role people play in determining the outcomes of our work.

Hosted by Freshwater, in partnership with the Minnesota Stormwater Committee* and the Minnesota Ground Water Association.

WHEN: May 9-10, 2019

WHERE: Science Museum of Minnesota, Saint Paul

WHO/AUDIENCE: More than 200 professionals and active citizens including water resource managers; scientists; engineers; architects; employees of local, regional, and state agencies and government; private business professionals; citizen advocates; and the media.

SPONSOR INVESTMENT LEVELS

	CHAMPION (\$5,000)	STEWARD (\$2,500)	SUSTAINER (\$1,000)	ENTHUSIAST (\$500)
Logo display** print & digital (invitations***, event program and signage, website, social media)	X	X	X	X
On-screen display at symposium	X	X	X	X
Event registrations included	Three	Two	One	10% discount
Verbal recognition from podium	X	X	X	
Resource table	Full table, premier placement	Full table, premier placement	Half table	
Logo printed on table displays	X	X		
Optional promotion item at each event seat plus additional custom benefits.*	X			

*Promotional item subject to agreement. Two additional custom benefits available based on sponsor preferences: blog article re: your company, volunteer opportunity for employees, workplace presentation on water topic of your choice.

**Logo placement and dimensions commensurate with level

***Sponsorship must be confirmed early to ensure this benefit

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**To sponsor the 2019 Water Summit,
contact Mary Salisbury at 651-313-5817
or msalisbury@freshwater.org.**

Learn more about the Metro Water Summit:
freshwater.org/2019-water-summit

*Your sponsorship is a great marketing
opportunity that also has a positive impact
for water quality in Minnesota.
On behalf of our lakes and citizens, thank
you for sponsoring the 2019 Water Summit!*

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Hosted by Freshwater, in partnership with the Minnesota Stormwater Committee* and the Minnesota Ground Water Association.

*The Minnesota Stormwater Committee is affiliated with the Minnesota Chapter of the Central States Water Environment Association.