



## STAFF REPORT

DATE: July 6, 2021

### **CONSENT**

**AGENDA ITEM:** Authorize Preparation of Plans and Specifications for Water Tower No. 3 and the Water Tower No. 3 Trunk Watermain Extension.

**SUBMITTED BY:** Jack Griffin, City Engineer

**REVIEWED BY:** Kristina Handt, City Administrator  
Marty Powers, Public Works Director  
Chad Isakson, Assistant City Engineer

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**ISSUE BEFORE COUNCIL:** Should the City Council authorize the preparation of plans and specifications for Water Tower No. 3 and the Water Tower No. 3 Trunk Watermain Extension?

**BACKGROUND:** In accordance with the City's Capital Improvement Plan, a new water tower (Water Tower No. 3) is planned for construction in 2022/2023, to be located in the low-pressure zone to support growth and development within the low-pressure zone areas of the city and to provide overall storage capacity for the city's water supply system. Over the past two years city staff have been in discussions with various property owners to identify properties that may be both a suitable location for the water tower and be available for timely acquisition by the city. At this time the city has obtained a site purchase agreement for a property located at the southwest corner of the intersection of Lake Elmo Avenue and Hudson Boulevard. Geotechnical services are currently being conducted to verify the suitability of the site for the construction of a water tower on the property.

**PROPOSAL DETAILS/ANALYSIS:** The Water Tower No. 3 and Trunk Watermain Extension Improvements are a \$4.0 to \$5.0 million CIP project. The elevated storage tank will provide water supply and fire suppression storage for the City's low-pressure zone in the southeast and easterly portion of the city. The facility will be constructed at the southwest corner of the intersection of Lake Elmo Avenue and Hudson Boulevard. The Water Tower No. 3 Trunk Watermain Extension will connect the new water tower to the city's trunk watermain distribution system through a large diameter (approx. 16-inch) main that will be extended along Lake Elmo Avenue to the water tower site from the intersection of 5th Street North and Lake Elmo Avenue.

**FISCAL IMPACT:** \$187,300 for design and construction phase engineering services to be paid from the Water Enterprise Fund.

Authorizing the preparation of plans and specifications for Water Tower No. 3 and the Trunk Watermain Extension commits the City to incur the engineering costs necessary to complete detailed design and receive contractor bids to ready the project for 2022/2023 construction. The council will be asked to award a contract for construction once contractor bids are received for each respective improvement, at which time the city would commit to the remaining project costs.

**RECOMMENDATION:** Staff is recommending that the city council consider awarding a Professional Engineering Design and Construction Support Services Contract to SEH for Water Tower No. 3 and the Water Tower No. 3 Trunk Watermain Extension. The recommended motion for the action is as follows:

***“Move to approve a Professional Engineering Design and Construction Support Services Contract with SEH for Water Tower No. 3 in an amount not to exceed \$148,100 and the Water Tower No. 3 Trunk Watermain Extension in an amount not to exceed \$39,200.”***

**ATTACHMENTS:**

1. Location Map.
2. Project Schedule.

X - 16-inch butterfly valves



HUDSON BOULEVARD N.

Trunk Watermain Extension

LAKE ELMO AVENUE

12x12 Garage door

WM contractor

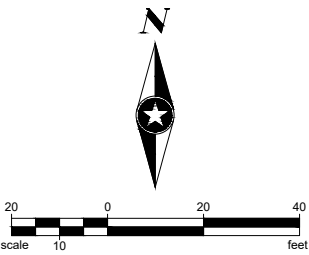
Tank contractor


Service Door

HYDRANT

36' DIAMETER WATER TOWER FOUNDATION

OVERFLOW STRUCTURE



	FILE NO. 158735	<b>SITE PLAN</b> <b>WATER TOWER NO. 3</b> <b>LAKE ELMO, MINNESOTA</b>	<b>EXHIBIT</b> <b>NO. 2</b>
	DATE:		
	5/18/2021		

PROJECT SCHEDULE  
CITY OF LAKE ELMO

**FOCUS** ENGINEERING, inc.

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WATER TOWER NO. 3  
PROJECT NO. 2020.118

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JUNE 9, 2021	Authorize Geotechnical Investigation Services.
JUNE 22, 2021	Preliminary Design Scoping meeting with Public Works.
JULY 6, 2021	Approve Purchase Option Agreement for Elevated Storage Tank No. 3.
JULY 6, 2021	Authorize Plans and Specifications for Elevated Storage Tank No. 3. *Review preliminary design recommendations (tower style, materials and site plan)
JULY 9, 2021	Receive Preliminary Borings/Soil Classifications.
JULY 23, 2021	Receive Geotechnical Services Evaluation Report.
NOVEMBER 16, 2021	Approve Plans and Specifications for Elevated Storage Tank No. 3.
DECEMBER 15, 2021	Receive Contractor Bids.
JANUARY 4, 2022	Accept Bids and Award Contract.
JANUARY 25, 2022	Conduct Pre-construction meeting and issue Notice to Proceed.
2022 CONSTRUCTION	Foundation and Concrete Shaft Construction, On Ground Tank Fabrication, preliminary Site Work.
2023 CONSTRUCTION	On Ground Tank Painting, Raising Tank, Roof Assembly and Final Painting, Electrical-Controls and Final Site Work.
SEPTEMBER 30, 2023	Substantial Completion (water tower online and operational).
NOVEMBER 18, 2023	Final Completion (punch list and final paperwork).