Welcome to the
Hastings Wastewater Treatment Plant Facility Plan Open House

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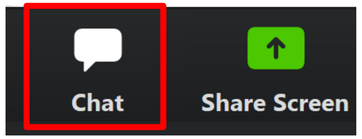

Please utilize the chat (between the 'participants' and 'share screen' buttons) to send in comments and questions throughout the meeting. Questions will be answered after the presentation during the Q & A session.

If you experience any technical difficulties, please call or text 651.302.2908 or email comment@hastingswwtp.com

The open house will begin at **6 p.m.**

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MCES Hastings Wastewater Treatment Plant Facility Plan Open House

Wendy Wulff, Metropolitan Council Member & Environment Committee Vice Chair, Host
Tim O'Donnell, Project Citizen Liaison, Facilitator

Presenters
Rene Heflin, Manager, Wastewater Plant Engineering
Seth Chmelik, Principal Engineer, Project Manager Renewal Project
Heidi Hutter, Principal Engineer, Project Manager Wastewater Treatment Plant
Chad Davison, Principal Engineer, Project Manager Collection System and Roadway Improvements

Open House
December 15, 2021

METROPOLITAN COUNCIL

Open House Objective:
Share information about the Hastings Wastewater Treatment Plant Facility Plan

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Open House Agenda

Presentation 30 Min

- Introduction to MCES and the Hastings WWTP
- Relocation Drivers
  - Growth
  - Potential Permit
  - Condition Assessment
- Renewal Project
- New WWTP Site
- Haul Routes
- Outfall Easements
- Lift Station and Conveyance
- Decommissioning Existing WWTP Site
- Program Summary and Next Steps
- How to Engage

Q/A

Rene Heflin

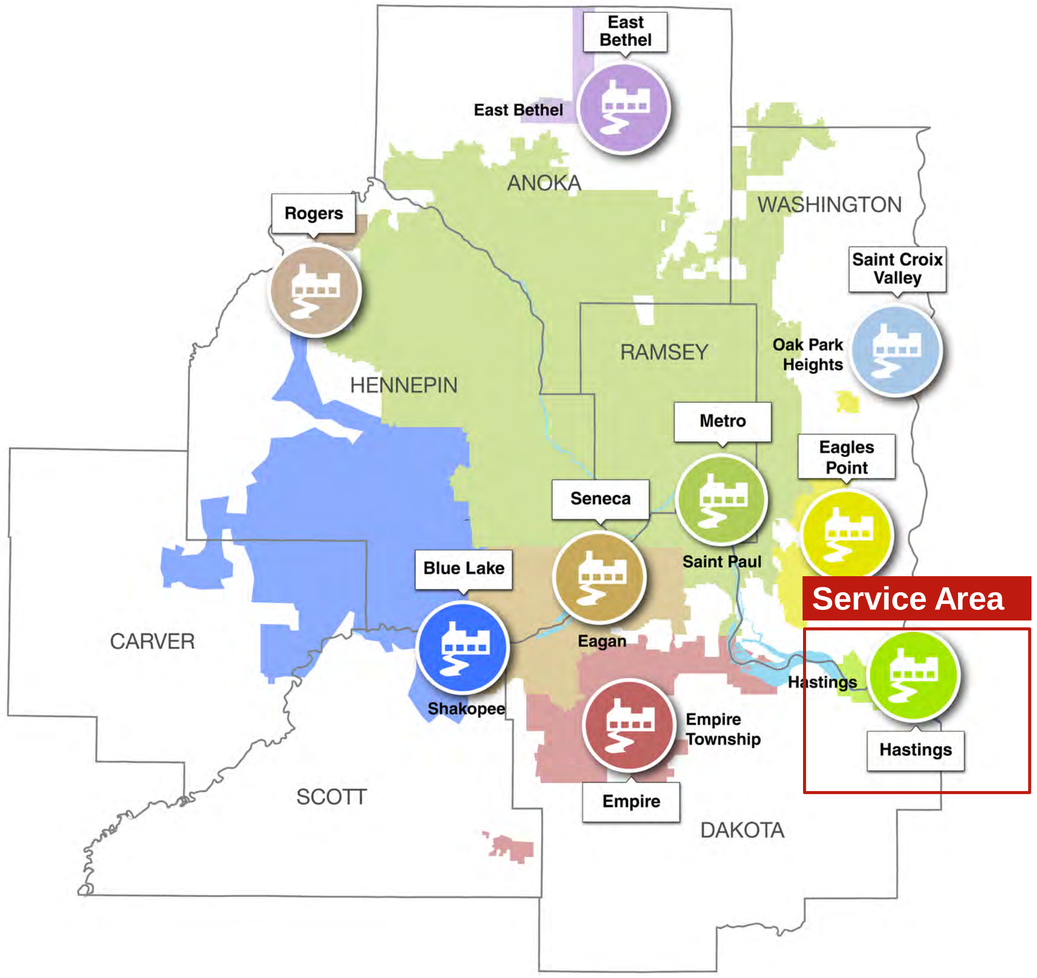
Seth Chmelik

Heidi Hutter

Chad Davison

Service Area and Facilities

Wastewater Treatment Plant Locations



WHO WE SERVE

7-county Twin Cities Metro Area
111 communities
3,000 square miles
2,700,000+ people

OUR FACILITIES

9 wastewater treatment plants
640 miles of interceptors
61 lift stations (pumping stations)
250 million gallons per day (average)

Hastings WWTP Service Area

Long Term Service Area

10M gallons/day long-term planned capacity*

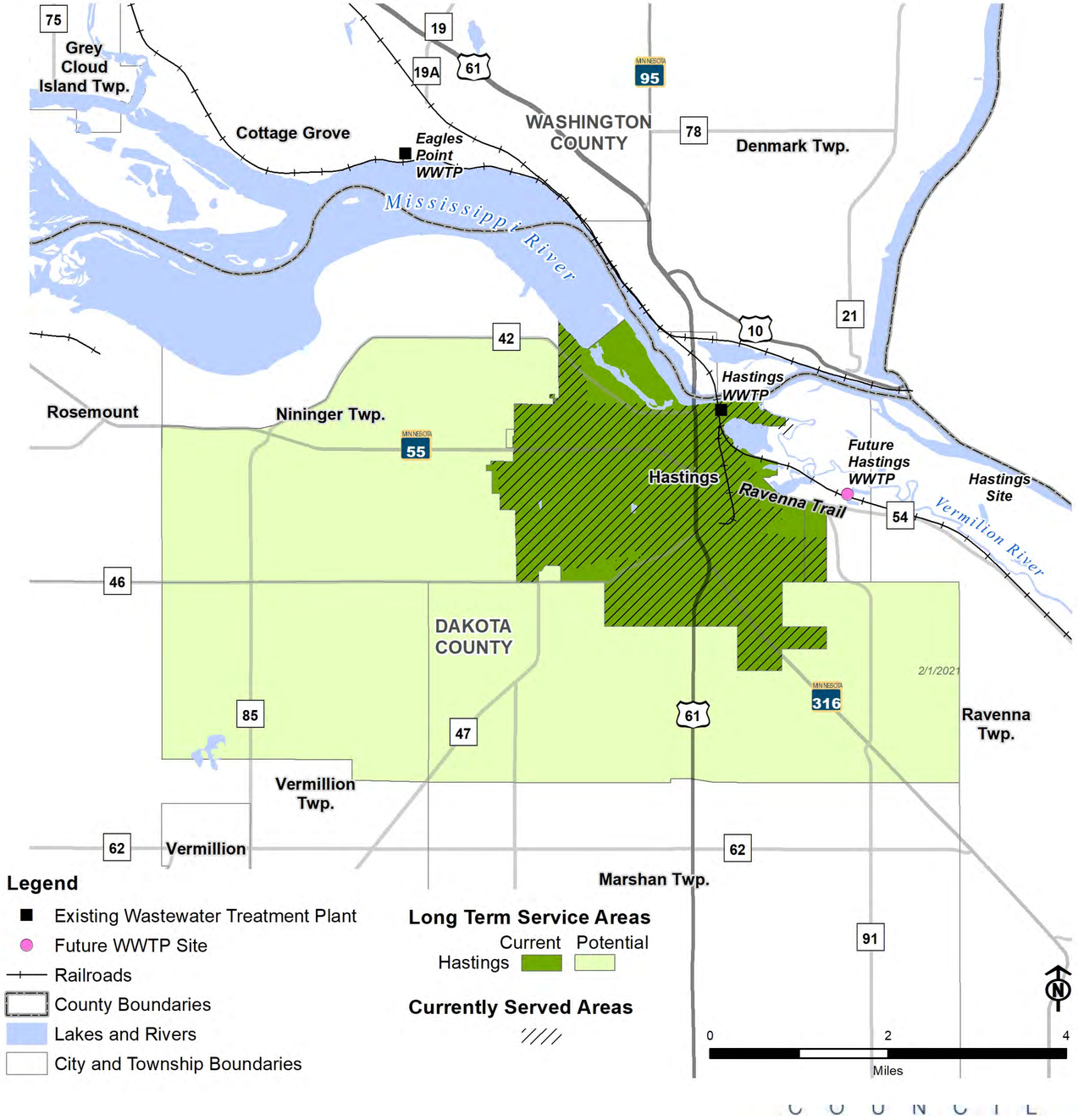
29,000 residents served (in 2040)

*MCES 2040 Water Resources Policy Plan – Post 2040

Existing Service Area

2.3M gallons/day plant capacity

23,000 residents served



Hastings WWTP Overview

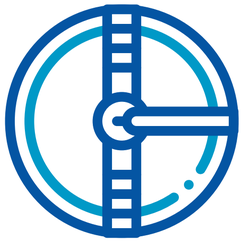
- 1952 Constructed
- 1970 MCES Acquired
- 1985 Last Expansion
- Existing Site
  - Major Renewal Challenging
  - Non-Compatible Land Use
  - Plant Expansion Limited

30 Consecutive Years of Perfect Permit Compliance

Project Need

The plant needs to expand to serve population growth in the service area.

The Hastings Wastewater Treatment Plant is projected to exceed its existing capacity of 2.34 million gallons per day of wastewater in 2050 due to growth within the service area.



Additional wastewater treatment is needed to meet future environmental regulations.

The MPCA’s 2014 Nutrient Reduction Strategy calls for 45% reduction in nitrogen loads to the Mississippi River by 2040.

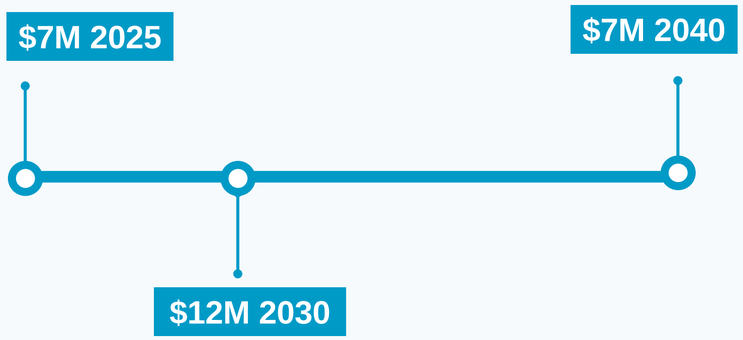
Existing facilities that are near end of service life need to be renewed.

A 2020 condition assessment documented need for major investment in the existing facility.

Hastings WWTP
Condition Assessment & Renewal Project

Condition Assessment - $26M to Renew through 2040*

*Does not include cost to expand beyond existing 2.3 MGD capacity.
*Does not include administration, engineering, contingency, or inflation.
*Status quo renewal.



Renewal Project Scope

- Plant Outfall
- Aeration Tanks
- Mechanical HVAC
- Security for new plant site

Objectives/Goals

- Maintain reliability
- Preserve assets
- Improve operational flexibility, efficiency and safety
- Protect environment, health, safety and welfare of customers

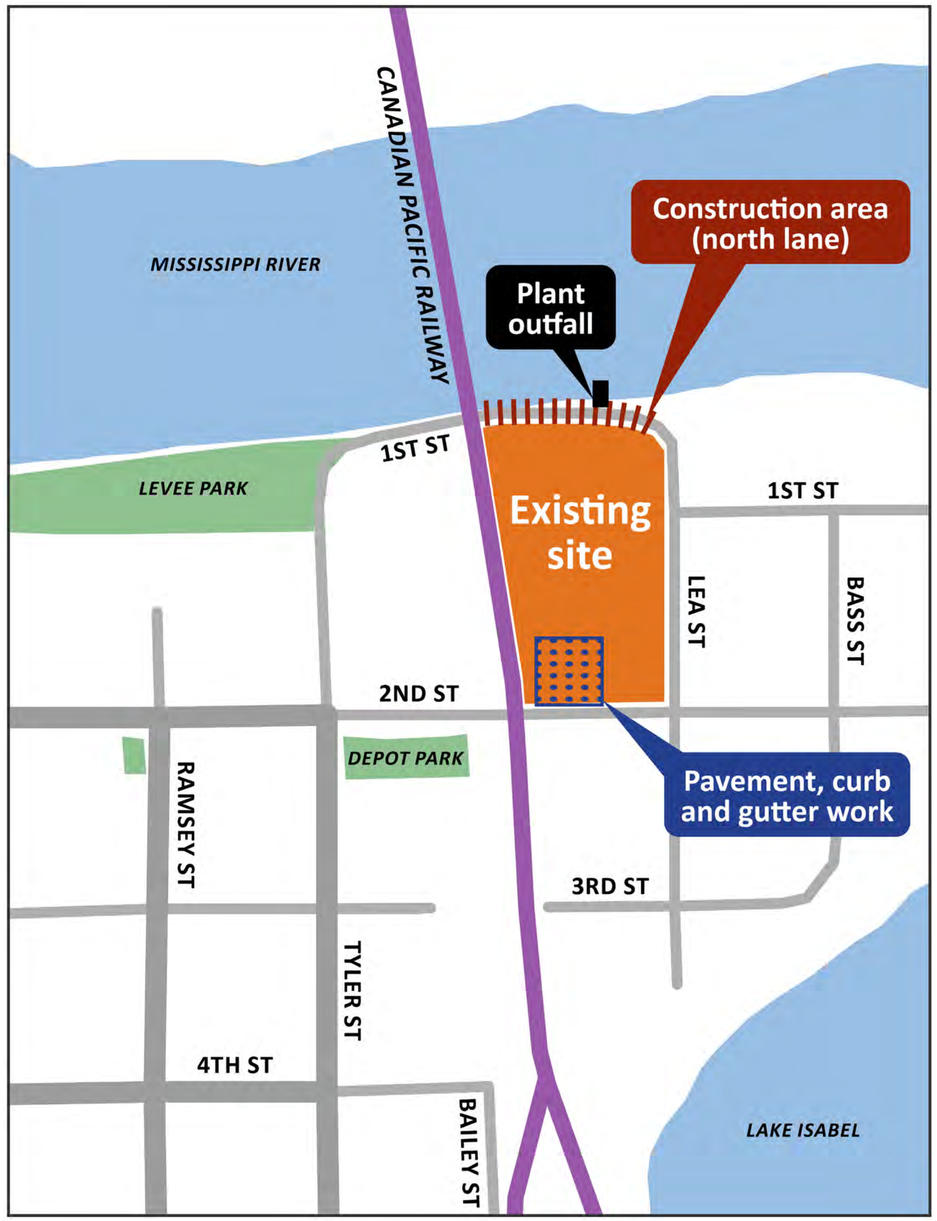
Schedule

2020 2022 2024

Design | Construction

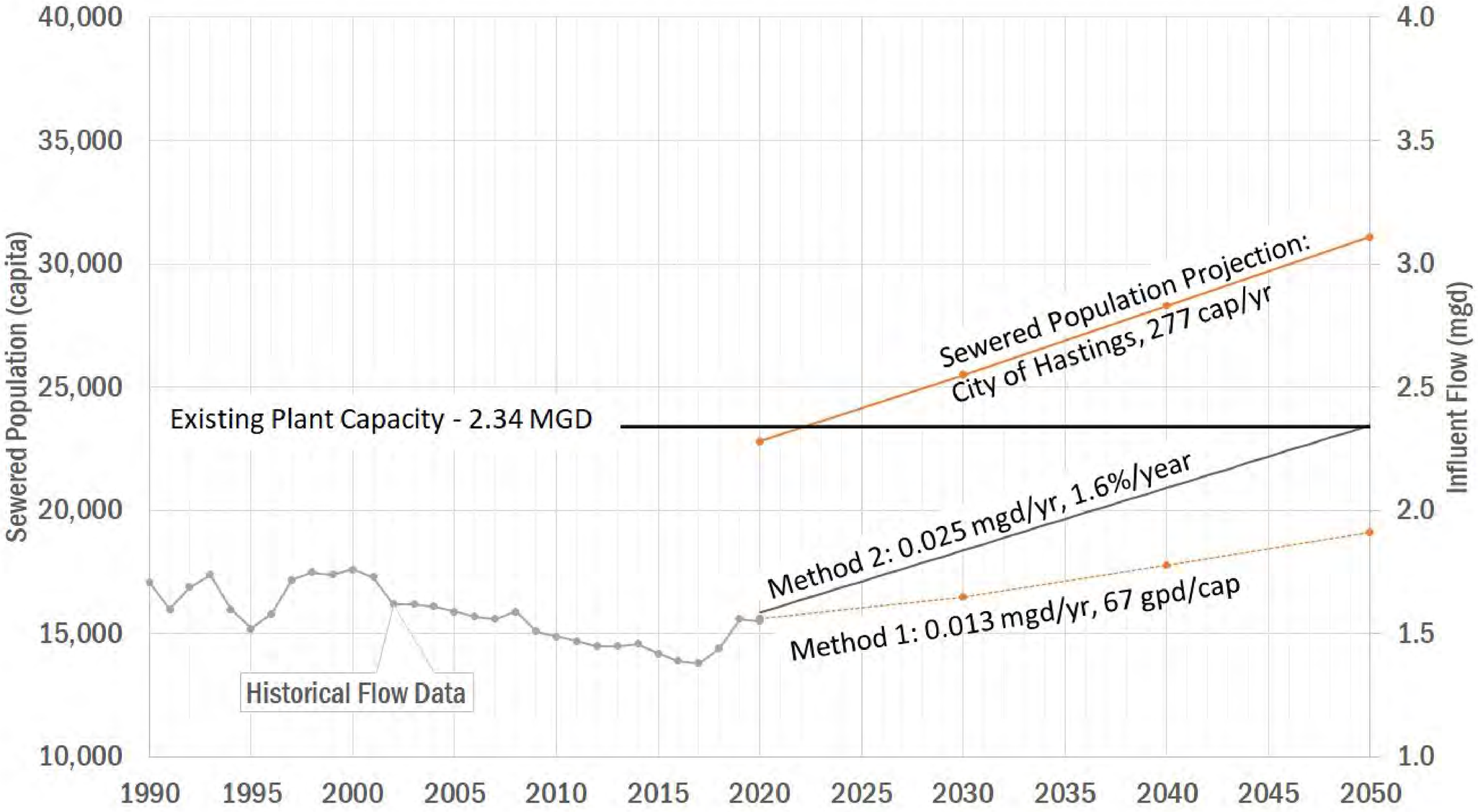
$2.5 Million

Renewal Project – Outfall Repair



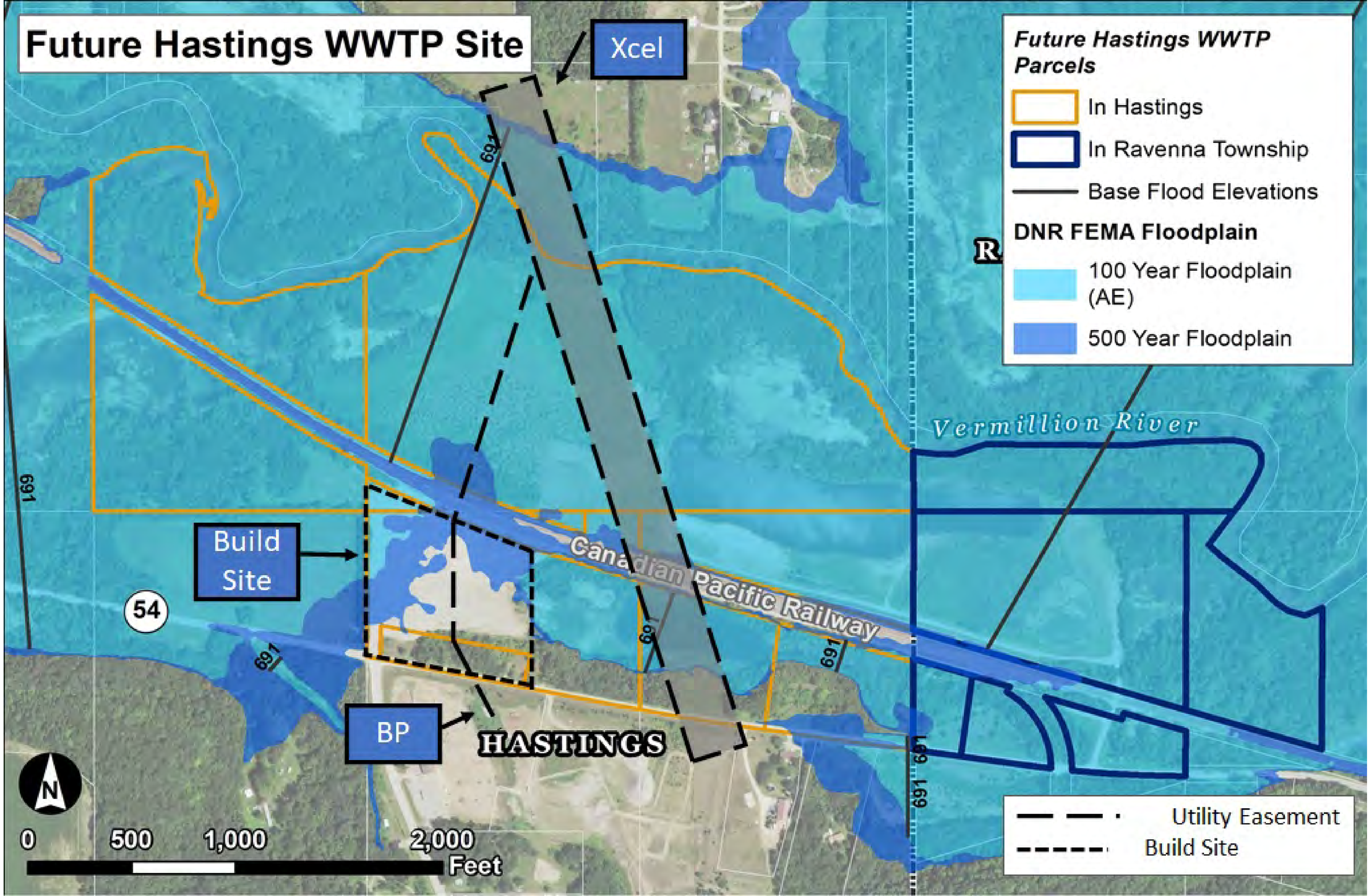
- The plant outfall is located north of the plant Near 1st Street.
- Repair work will include:
  - Replacement of the outfall pipe,
  - Repair of manhole structure,
  - Replacement of rip-rap over the outfall
- Construction and flow bypass will require the temporary use of the north lane of 1st Street.
- Traffic control will allow for two-way vehicular access on the south lane of 1st Street for the duration of this work.

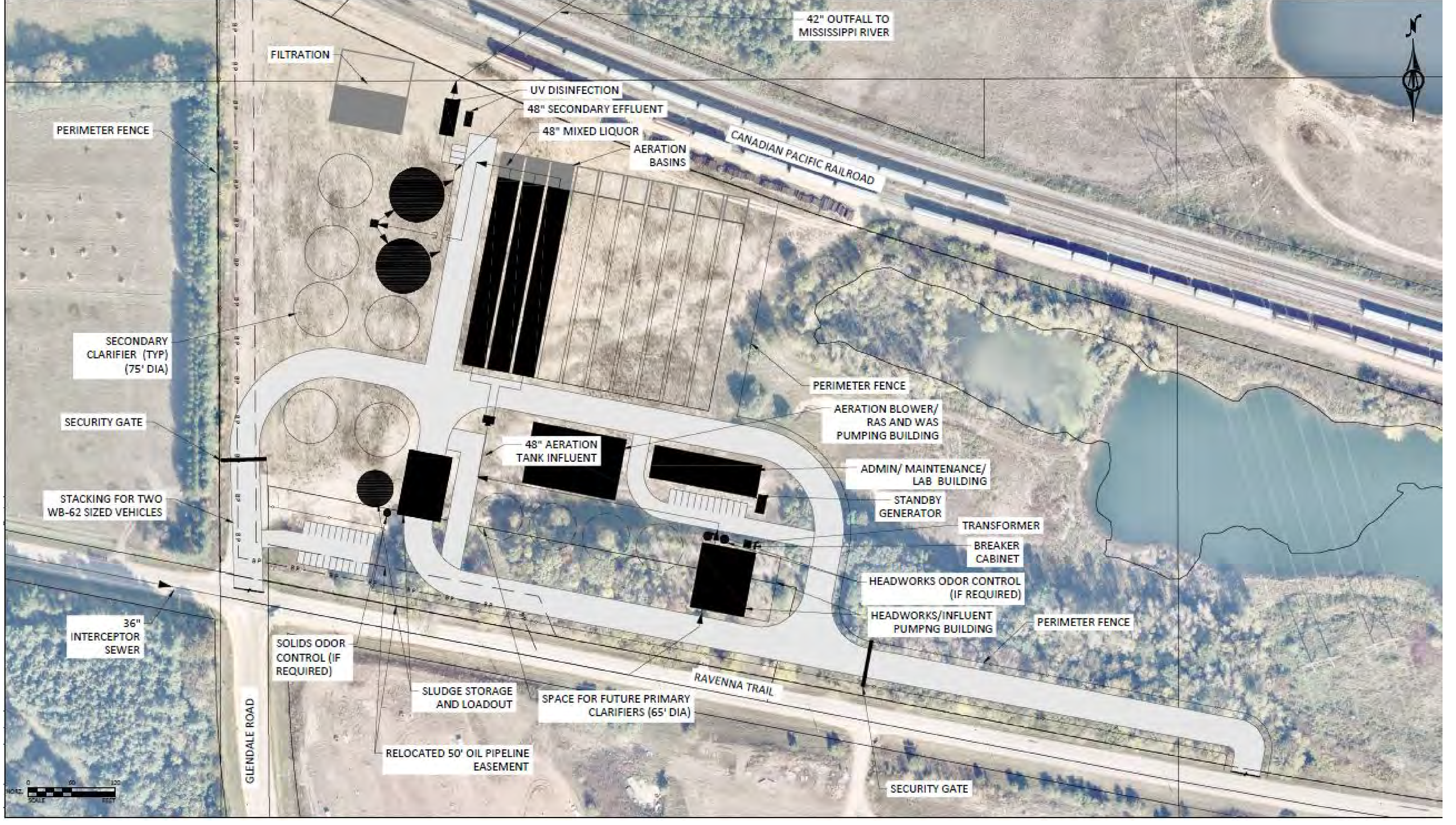
Projected Growth in the Service Area



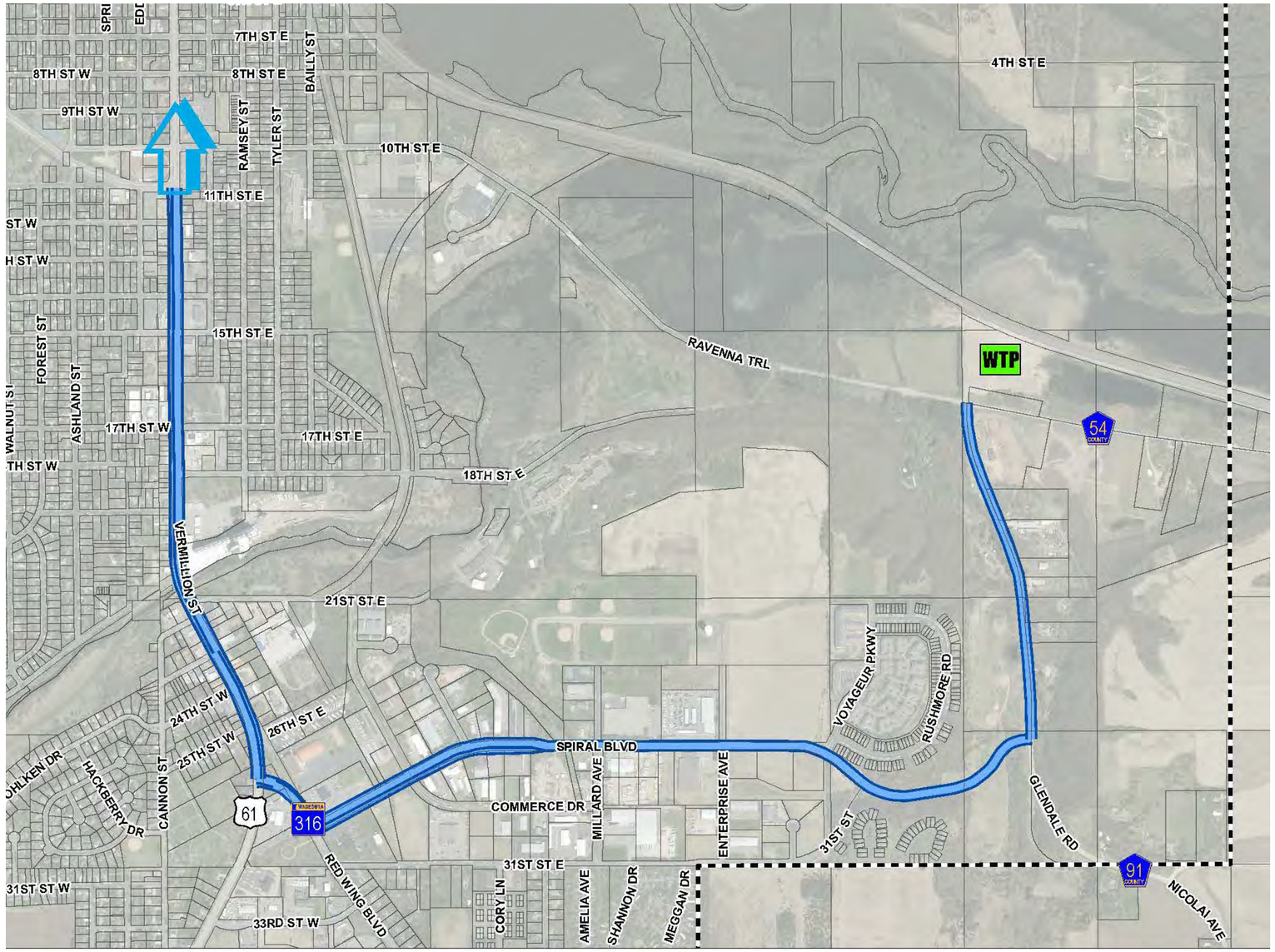
Minnesota Nutrient Reduction Strategy

- 45% Reduction in Nitrogen Loads to the Mississippi by 2040
- Load Reductions at Wastewater Treatment Plants will be necessary
- Hastings area is prioritized by the MPCA for future nutrient reduction
- Plant expansion at the current Hastings WWTP would be required
  - Expansion is challenging and limited.
  - Derating capacity is not an option for MCES.


Future Hastings WWTP Site
Xcel
Build Site
BP
HASTINGS
54
691
Canadian Pacific Railway
Vermillion River
Future Hastings WWTP Parcels
In Hastings
In Ravenna Township
Base Flood Elevations
DNR FEMA Floodplain
100 Year Floodplain (AE)
500 Year Floodplain
Utility Easement
Build Site
N
0
500
1,000
2,000
Feet


42" OUTFALL TO MISSISSIPPI RIVER
FILTRATION
UV DISINFECTION
48" SECONDARY EFFLUENT
48" MIXED LIQUOR
AERATION BASINS
CANADIAN PACIFIC RAILROAD
PERIMETER FENCE
SECONDARY CLARIFIER (TYP) (75' DIA)
SECURITY GATE
STACKING FOR TWO WB-62 SIZED VEHICLES
36" INTERCEPTOR SEWER
PERIMETER FENCE
AERATION BLOWER/ RAS AND WAS PUMPING BUILDING
48" AERATION TANK INFLUENT
ADMIN/ MAINTENANCE/ LAB BUILDING
STANDBY GENERATOR
TRANSFORMER
BREAKER CABINET
HEADWORKS ODOR CONTROL (IF REQUIRED)
HEADWORKS/INFLUENT PUMPNG BUILDING
PERIMETER FENCE
SOLIDS ODOR CONTROL (IF REQUIRED)
SLUDGE STORAGE AND LOADOUT
SPACE FOR FUTURE PRIMARY CLARIFIERS (65' DIA)
RAVENNA TRAIL
GLENDALE ROAD
RELOCATED 50' OIL PIPELINE EASEMENT
SECURITY GATE
N

WWTP Proposed Haul Route



- Estimated 3 to 4 truck trips per day, hauling sludge to the Metro WWTP for processing
- We propose crossing County Road 54/Ravenna Trail. No turn lanes are planned at this time.

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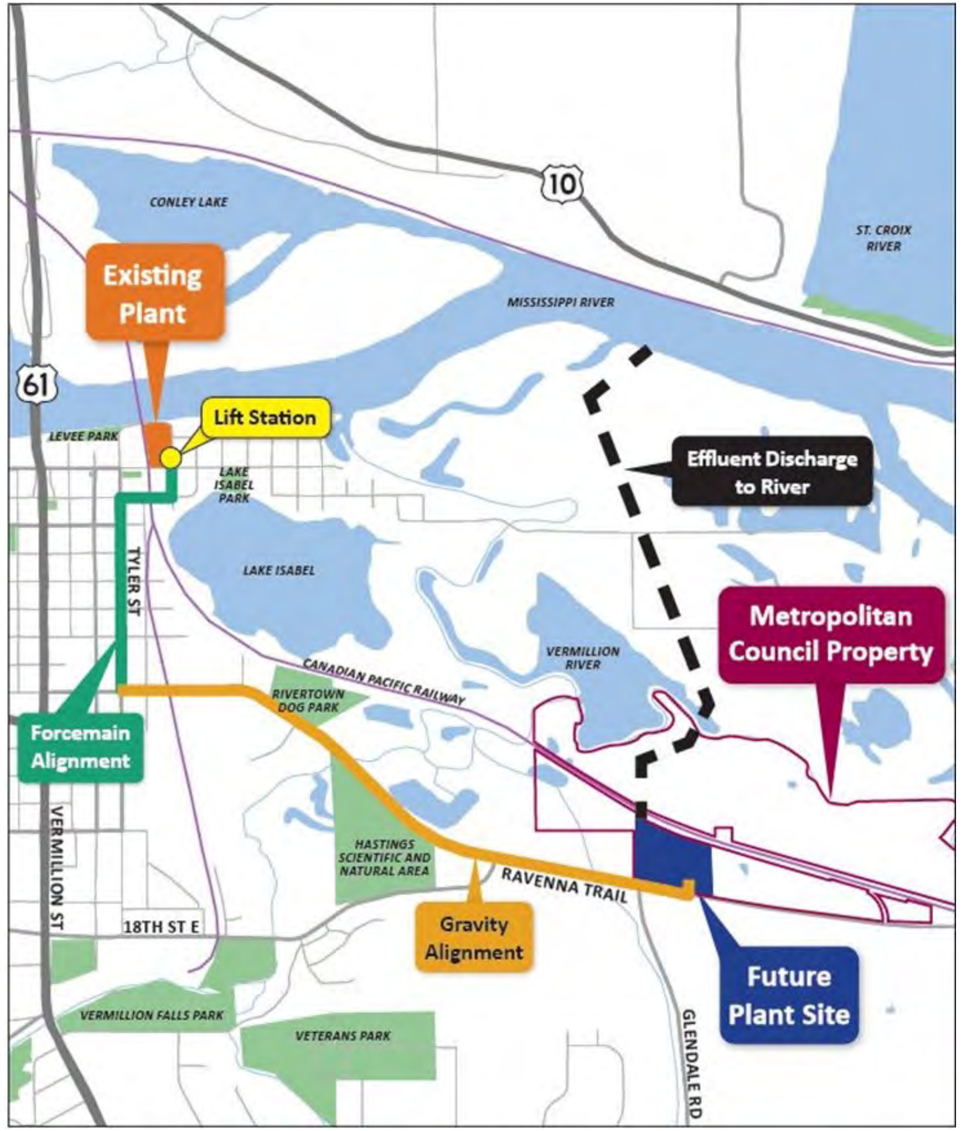
Lift Station Preliminary Layout

Similar size and configuration of lift station expected.

Forcemain Alignment



- Tyler Street full reconstruction
- Met Council will fund the repair or replacement of any City utilities impacted by the forcemain installation
- Opportunity for a cooperative construction project. We would need to negotiate an agreement for any improvements the City would want included

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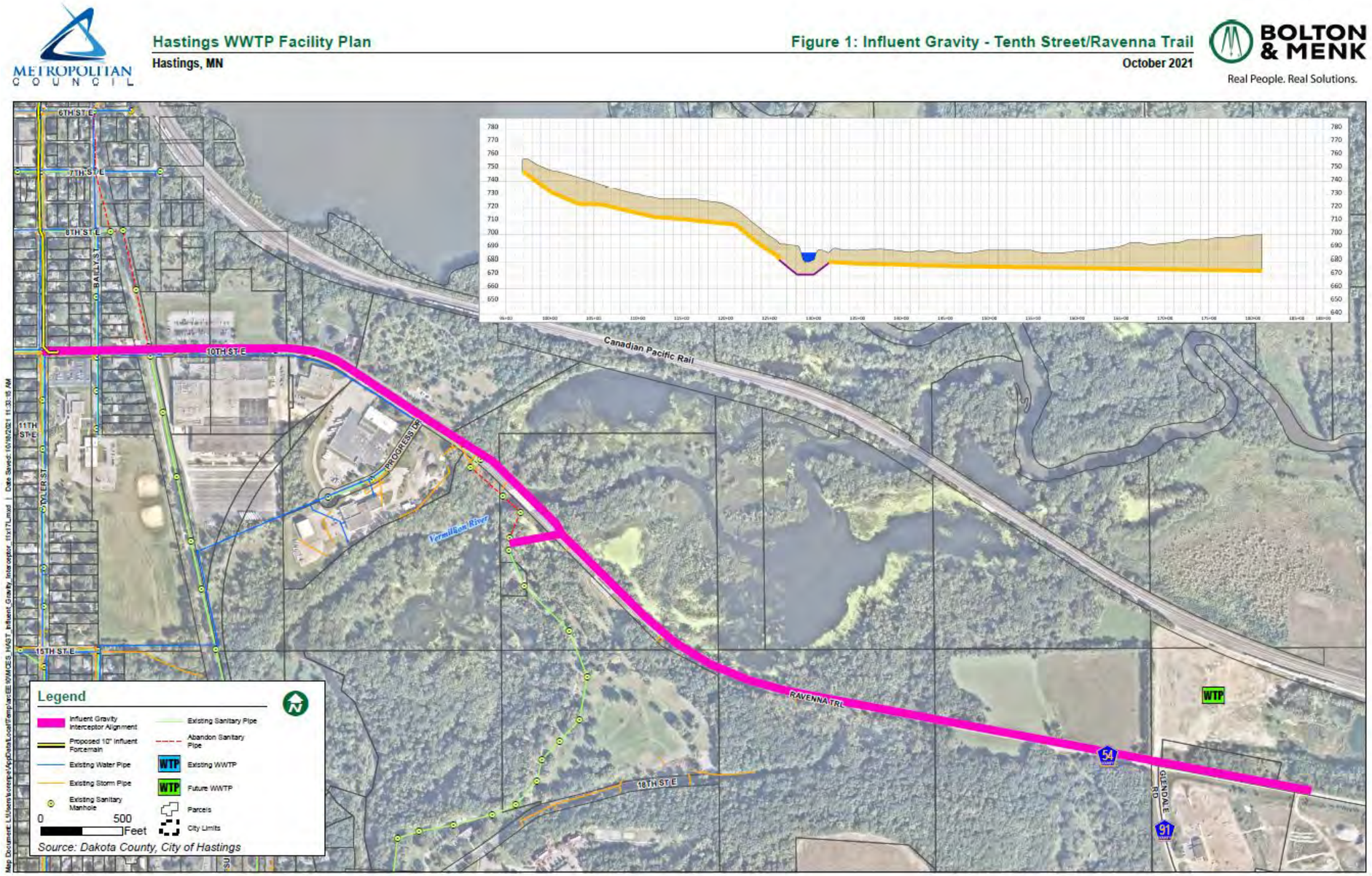
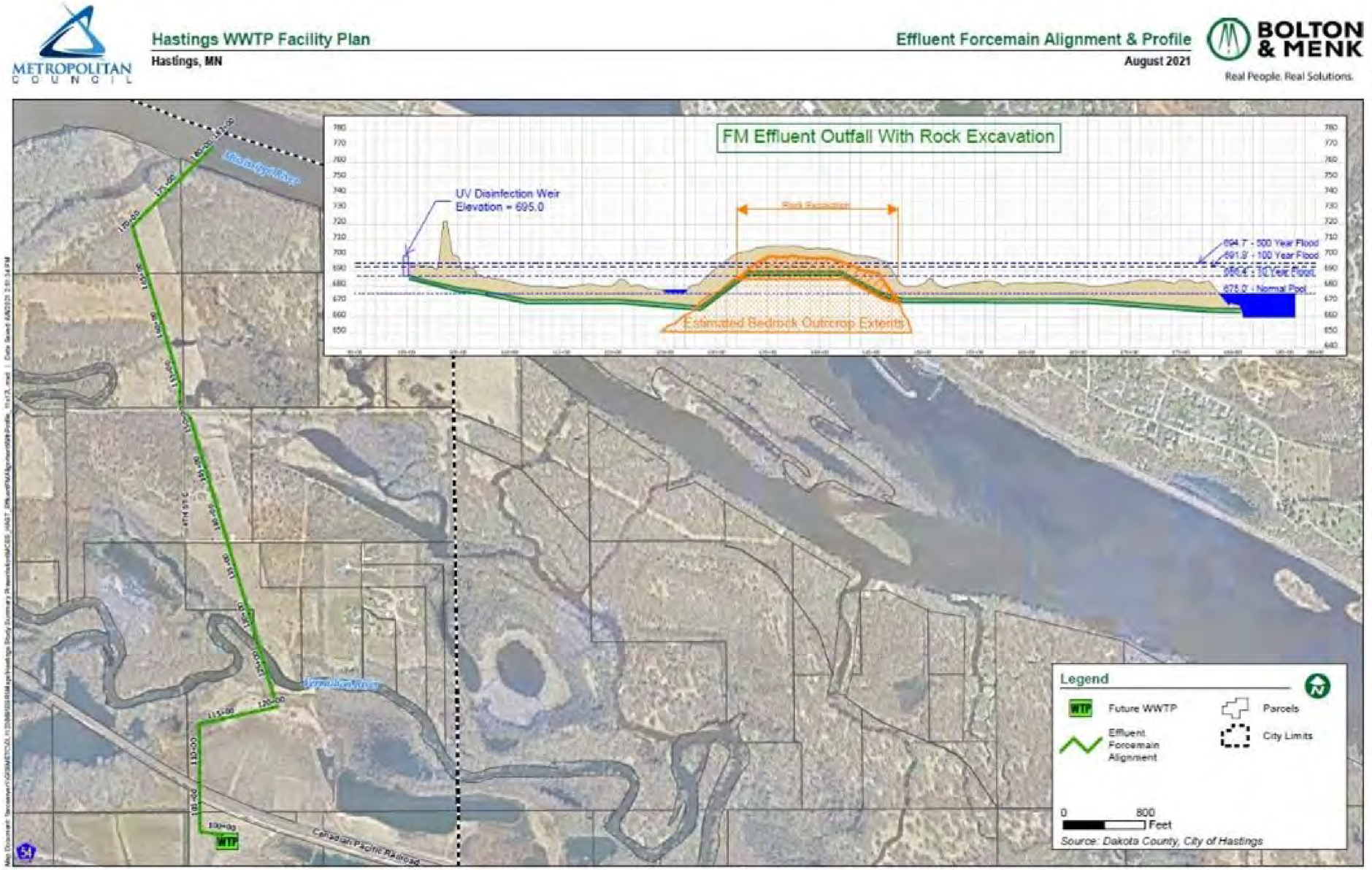
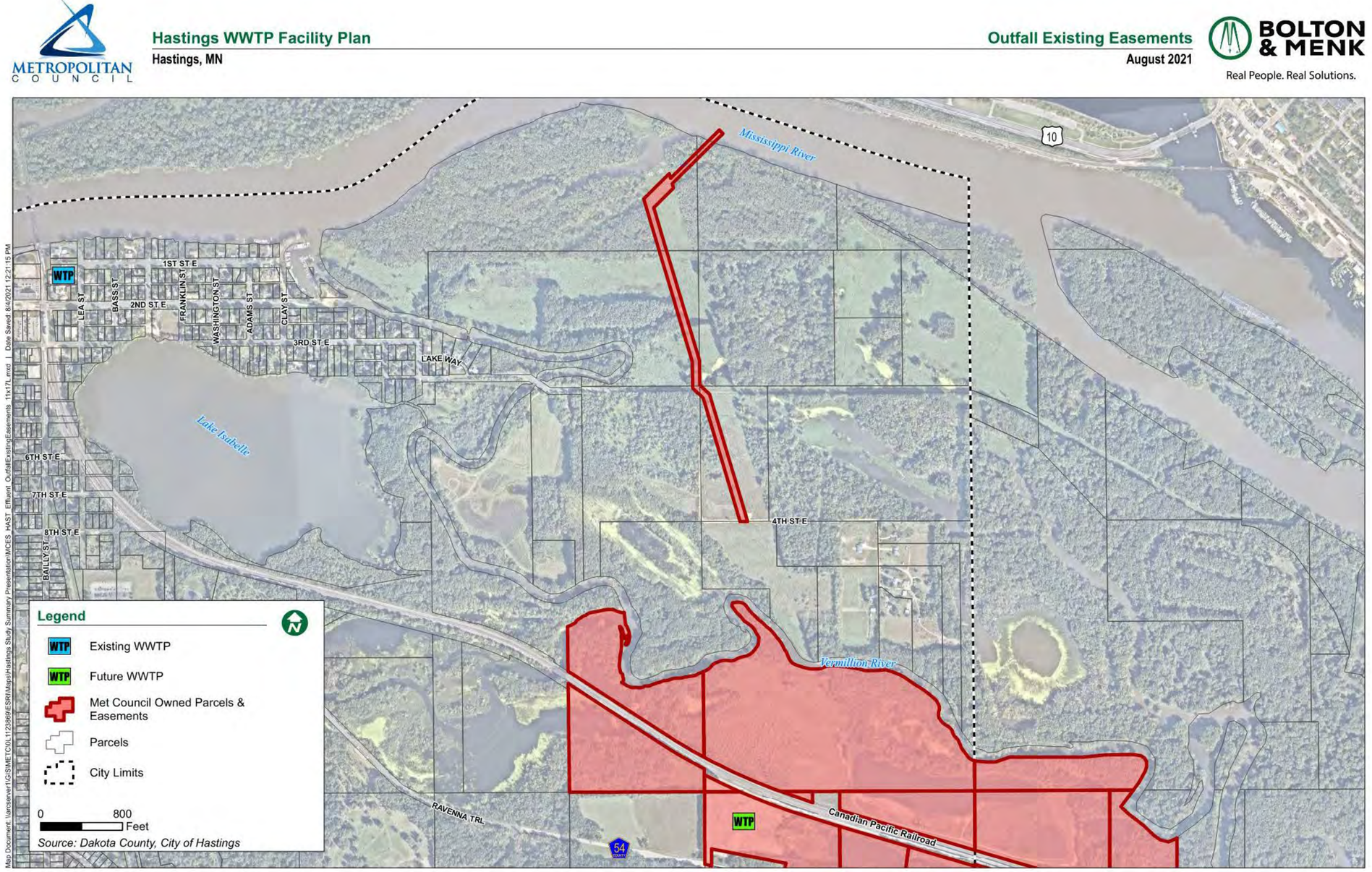
Gravity Alignment



Treated Water Discharge Alignment



Discharge Alignment Existing Easements



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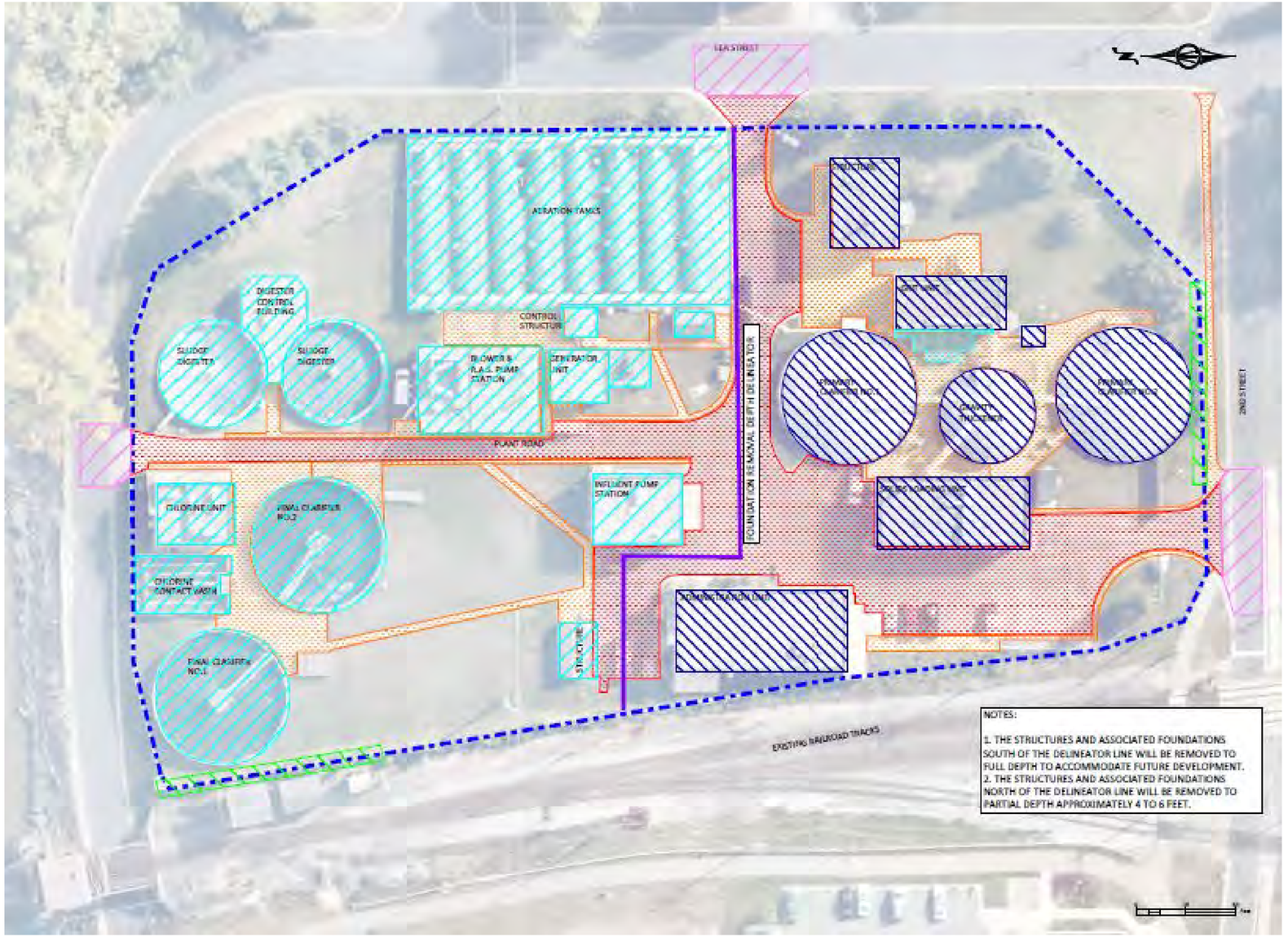
Decommissioning Plan



- Concept to be used as a starting point for our intergovernmental agreement negotiations.
- South half of property shows removal of structures to bottom of footings.
- North half shows partial removal to 6 feet below ground elevation.

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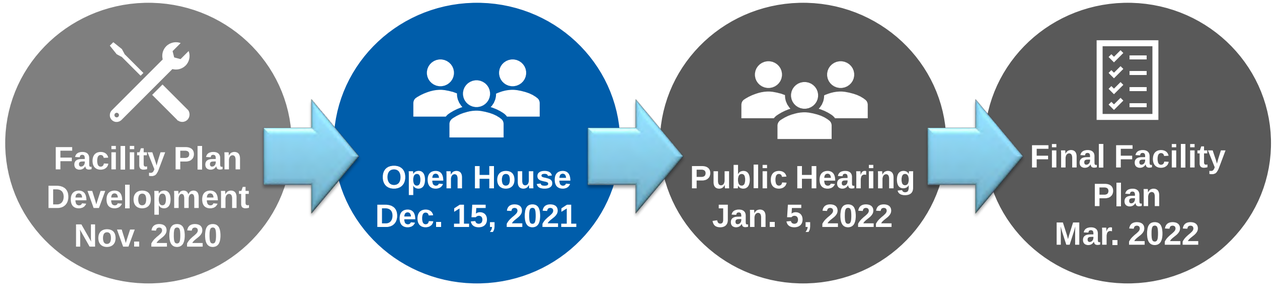
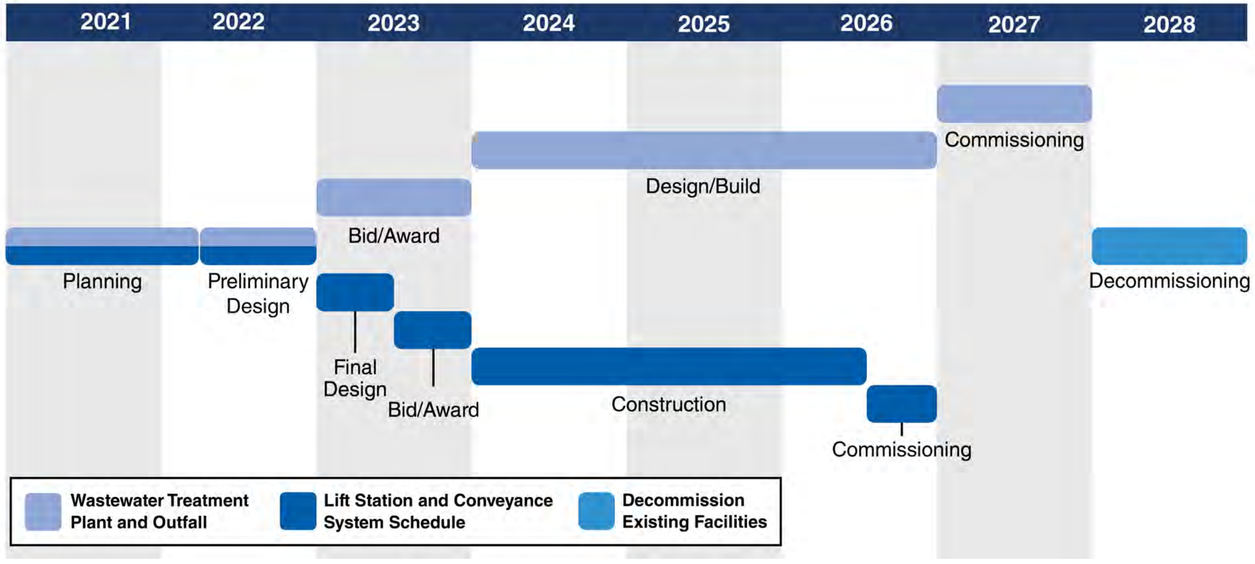
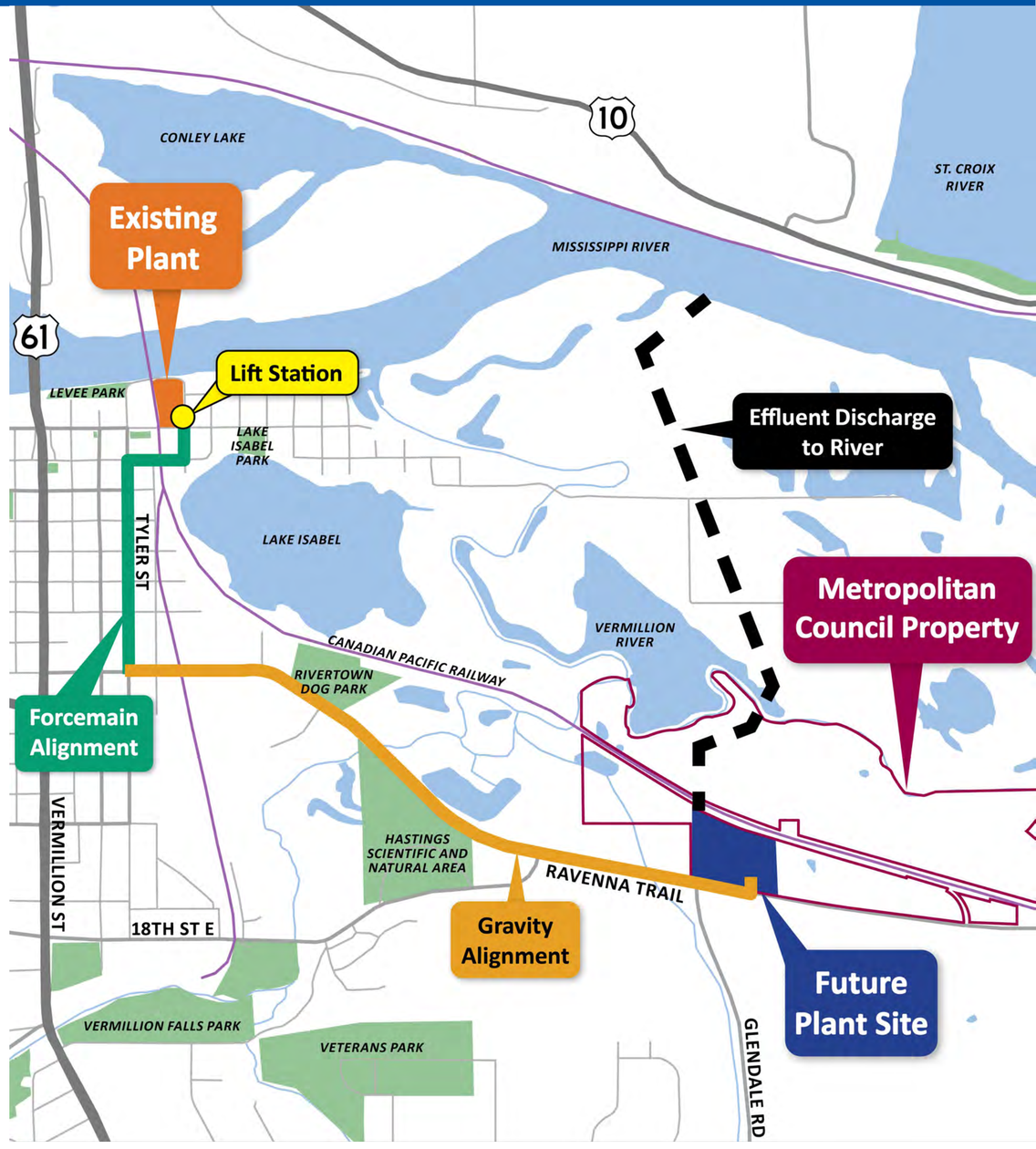
Program Summary & Next Steps

Facility Plan Schedule



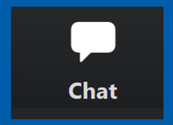
Project Schedule





How to participate in Q&A:

Computer, Smartphone and Tablet Users:



Use the "Chat" box to type in questions and comments

Select the reactions button to use the raise hand function to be unmuted and speak aloud

Email your question or comment to comment@hastingswwtp.com

Phone Users:

Call or text (651) 302 - 2908

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Stay Informed

Share questions and comments

Email: comment@hastingswwtp.com

Call the Project Hotline: (651) 302 - 2908

Learn more about the project and review materials related to the January 5th Public Hearing

MetroCouncil.org/HastingsWWTPProject

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Thank you for joining us for this open house!

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