

# WATER TOWER INFO SESSION







# GOALS & OBJECTIVES

## Agenda

- Water Tower Assessment
  - State of Infrastructure & ICIP Project Overview
  - Community Significance of the Water Tower
  - Discussion / Q & A
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## Goals

- Provide the public with information on the state of our infrastructure
  - Capture public input regarding options for the Water Tower
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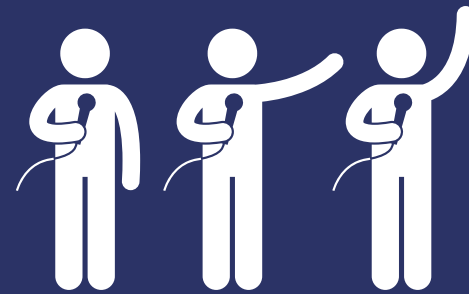


# EXPECTATIONS



## EVERYONE

1. Listen
2. Let the speakers speak
3. Engage in discussion with respect



## HOSTS

1. Monitor speaking time
2. Ensure the discussion is respectful
3. Present the data honestly and transparently







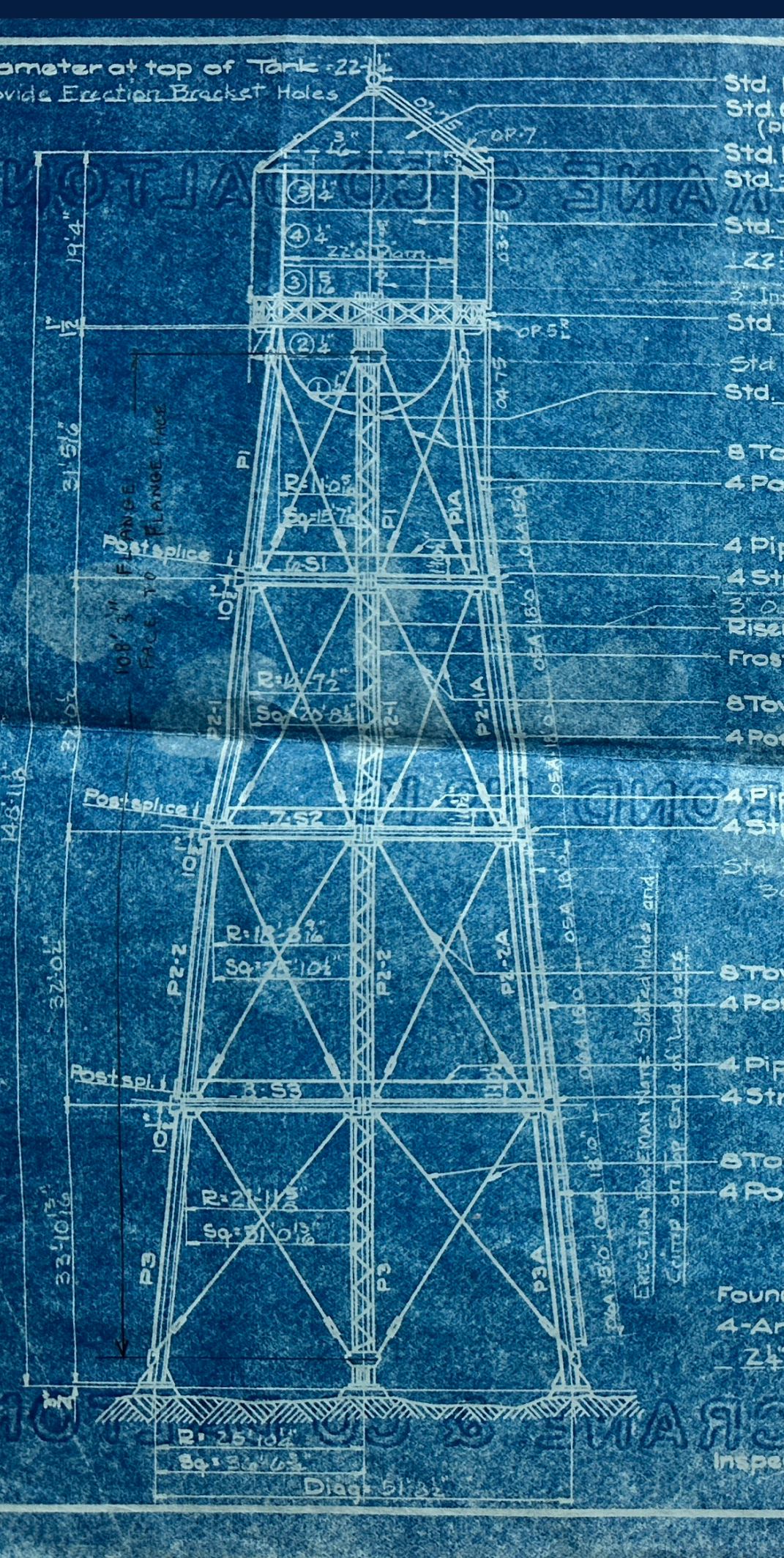
# WATER TOWER ASSESSMENT

1947



# OVERVIEW

- Constructed in 1928
- multi-column
- riveted steel cone
- Industry lifecycle 80–100 years
- Height: 150'
- Diameter: 30'
- Capacity 273 m<sup>3</sup>
- 2012 & 2018: Inspection Reports
- 2022: leak repair, valve & hydrant installation to isolate from the main system
- No longer needed once system is upgraded
- Total investment 2002–2023: \$118,000







2022 leak



# SAFETY CONCERNS

2012 & 2018 reports  
contain a long list of  
necessary repairs  
(est. \$2M)

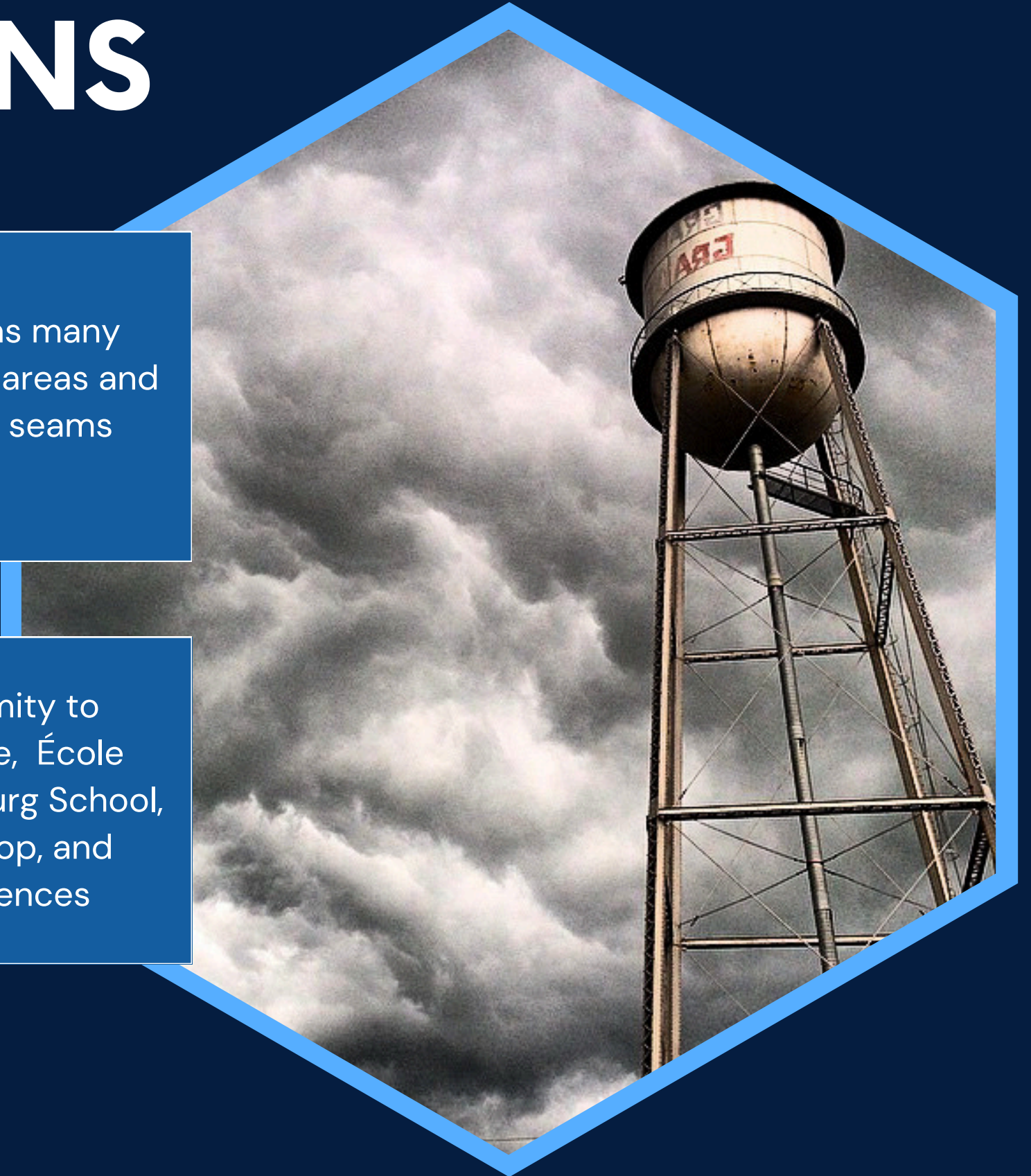
Possibility of water  
in tank  
contaminating the  
system

Tank has many  
corroded areas and  
rusting seams

Corrosion on legs  
and tank will affect  
the structural  
integrity

2018 report warns of  
potential for  
“catastrophic leaks”

Proximity to  
daycare, École  
Gravelbourg School,  
PW Shop, and  
residences





# INFRASTRUCTURE

Pillar Systems Asset Management Study



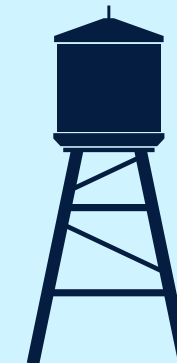
## Funding Gap

\$65 M required over next 20 years to improve all levels of service



## Water & Sanitation

Systems developed 1920s-1940s and graded as Poor



## Water Tower

Condition listed as Poor with limited service life remaining



# PROJECT OVERVIEW

Water Tower Decommissioning & Water Main Replacement  
Funding: Investing in Canada's Infrastructure Program (ICIP)

## Increase Capacity

Increase the capacity of critical watermain on 1st Ave, Main St., Bettez St, and 7th Ave to ensure more reliable and improved fire protection, and potable water availability with improved pressure flows

## Improve Service Levels

Increase the size of the watermain pipes; replace pipes, water service connections, hydrants, leads, valves, and tees.

## Expected work

- asphalt removal & reinstatement
- installation of new service connections, etc.
- reinstatement of roadways and disturbed landscaping
- relocation of shallow utilities
- draining & disconnection of Water Tower from system
- dismantling of tower, control station, etc.



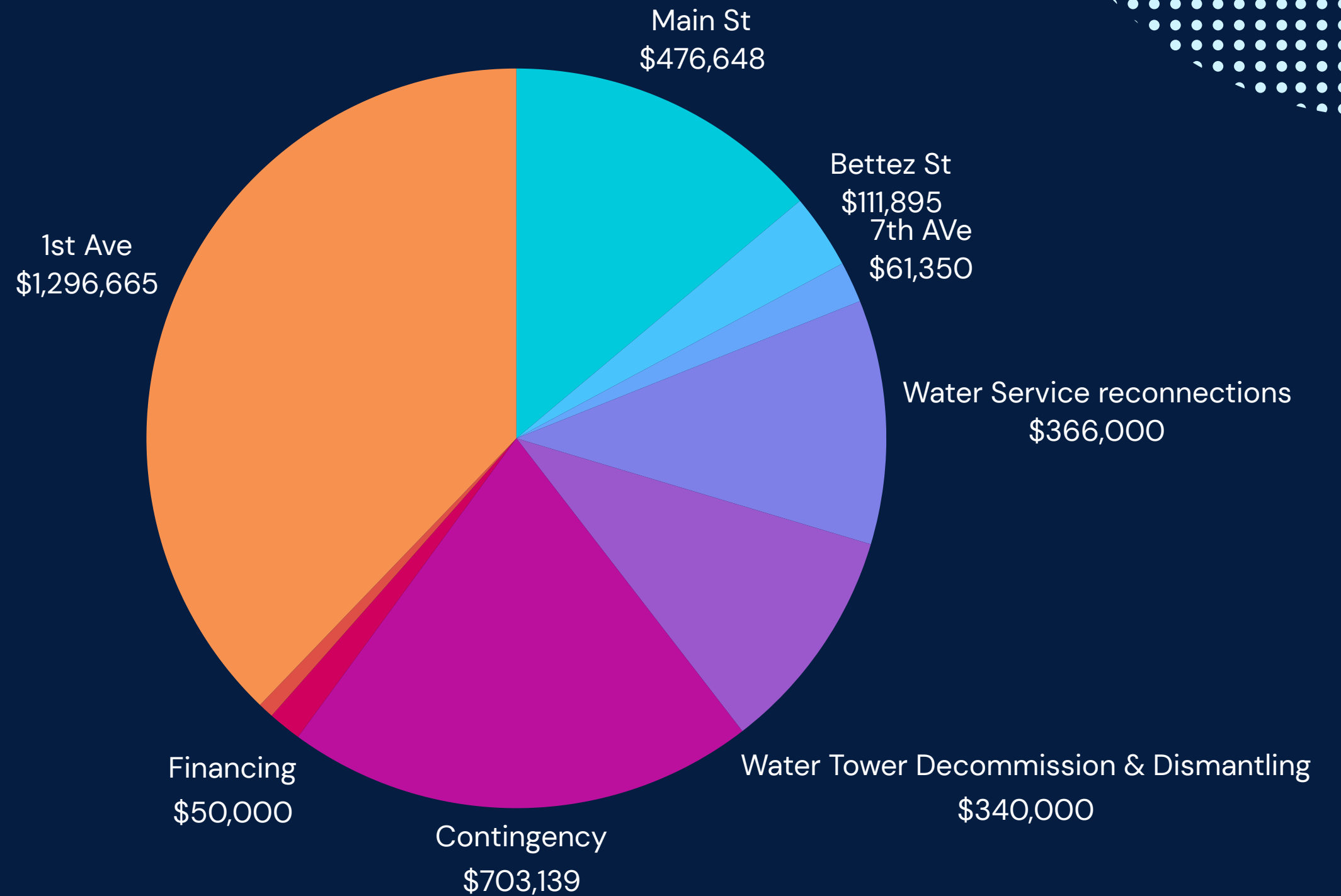
# COST ESTIMATE

Developed by Walker Projects (2022)

Total gross project costs:  
\$3,589,047

Town of Gravelbourg  
portion: 26.66%

Project completion date:  
March 31, 2027





# SUMMARY



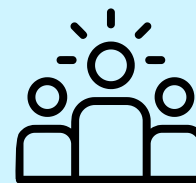
Leaving the Tower in its current state is not an option; the estimated cost to repair is high.

The Tower is at its life cycle maximum and no longer a critical component of the water system.



The ICIP grant includes the cost of decommissioning & dismantling the Tower.

If the Tower experienced a significant leak or other structural failure there is potential for loss of life and catastrophic damage to property.



The Water Tower has community significance as a landmark.





# COMMUNITY SIGNIFICANCE

## Beacon of home

The Water Tower is a prominent feature of Gravelbourg's skyline and is visible from afar.

## Artistic inspiration

The Water Tower is a landmark often featured in Gravelbourg landscape art and photography.

## History & heritage

At over 150', the Water Tower is one of the tallest (if not the tallest) remaining water towers of its kind in Saskatchewan.





**HOW CAN WE HONOUR THE  
COMMUNITY SIGNIFICANCE OF  
THE WATER TOWER?**



# DISCUSSION

- Listen
- Let the speakers speak
- Engage others with respect

