



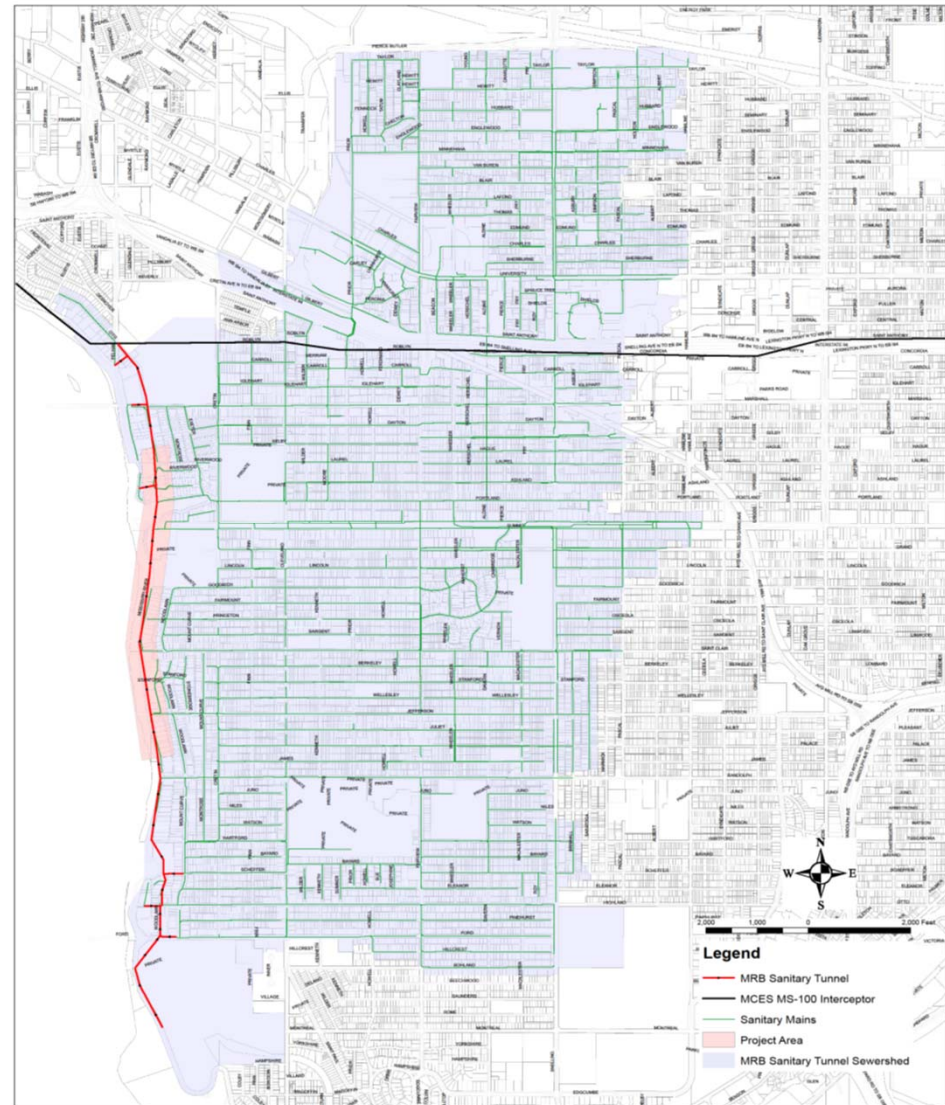
Mississippi River Blvd Tunnel Cleaning Project

Fully Funded by the City of Saint Paul Sewer Utility

July 10, 2019

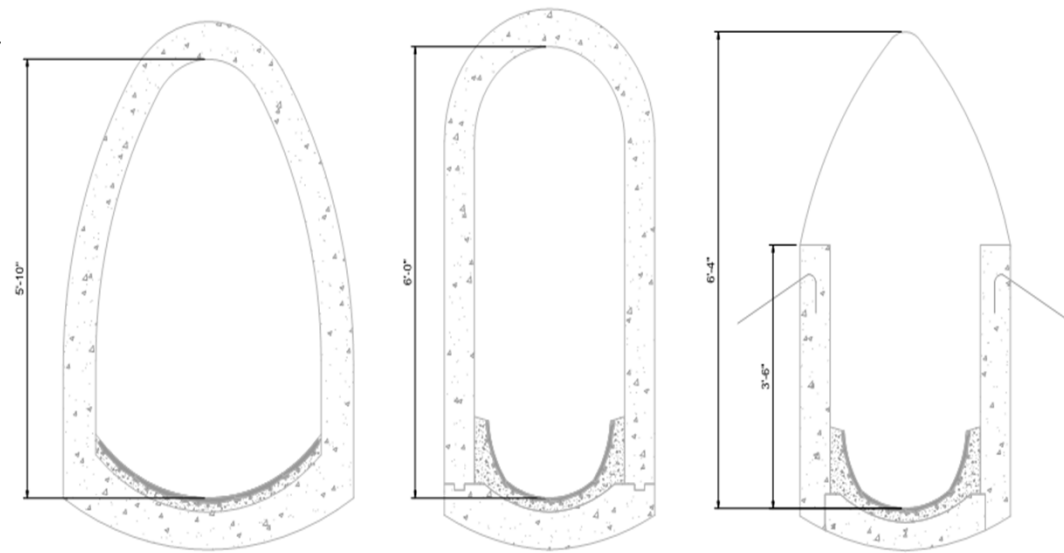
MRB Sanitary Tunnel Sewershed: 4,000 Acres

- The Mississippi River Boulevard Sanitary Tunnel services 4,000 Acres of the City of Saint Paul



MRB Interceptor Tunnel Background

- MRB Interceptor built 1936-37
- Operated as a combined sanitary and storm overflow sewer until 2000.
- Serves as strictly a sanitary interceptor since 2000.
- Tunnel is 3.2 miles long.
- Tunnel is 60 to 120 feet deep mined through sandrock.



Typical Tunnel Sections

What is the tunnel cleaning project?

This project will clear debris from the sanitary sewer that restricts flow and reduces capacity.

Cleaning out debris from sanitary sewers is an ongoing citywide effort to:

- ***Maintain flow and capacity.***
- ***Reduce the risk of sewer back-ups and costly repairs.***
- ***Address public and employee health concerns.***



Tunnel Inspection – April 2018

- Tunnel inspection only partially completed
- Debris cleanup will allow for thorough Tunnel inspection and analysis

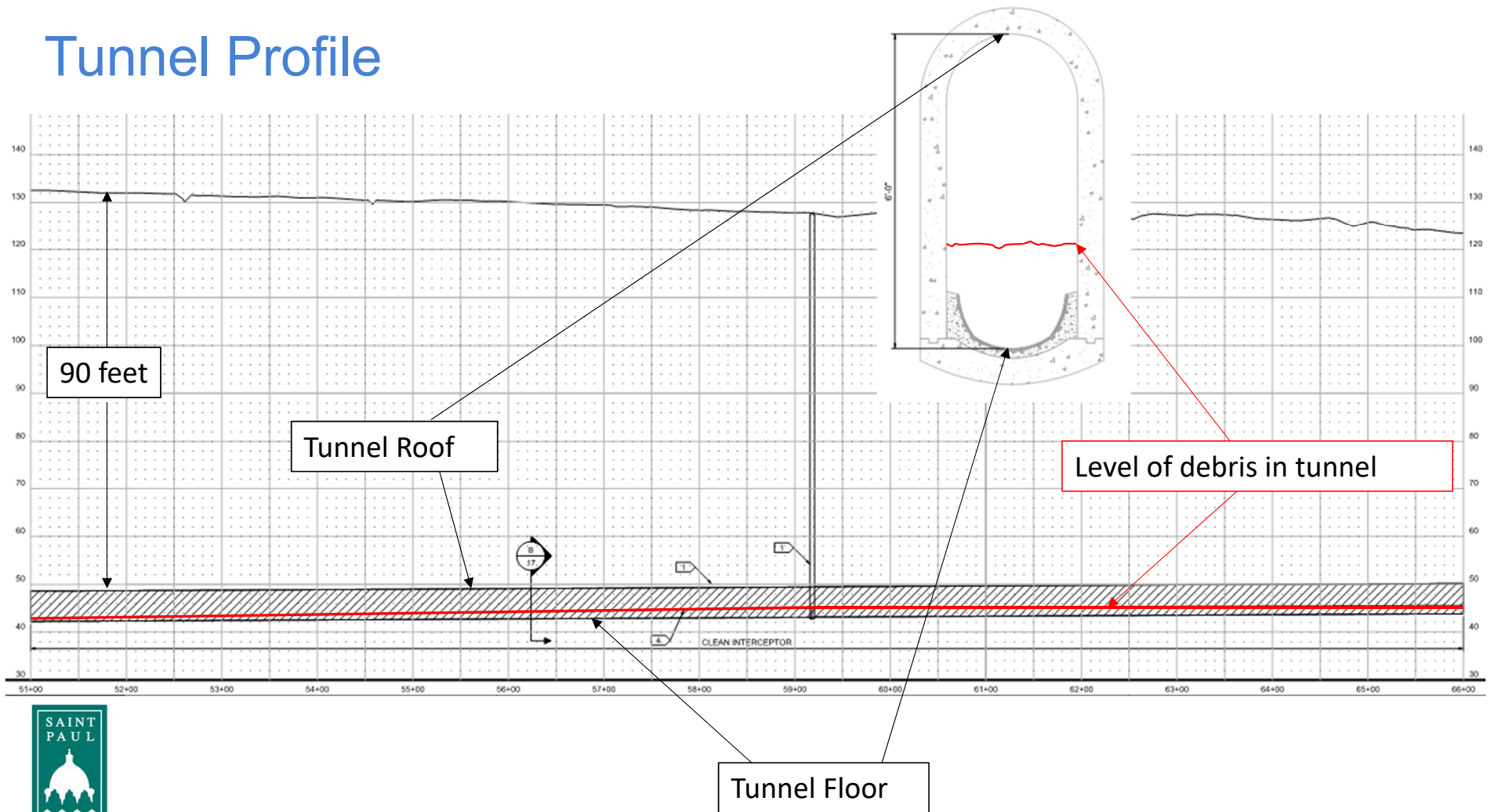
Tunnel
without
debris
deposits.



Wastewater
backing up due
to debris
deposits.



Tunnel Profile



The Most Livable
City in America

What causes the debris deposits to occur?

- Debris can accumulate on large, heavy objects in the tunnel.
- These objects can be loose pieces of the tunnel itself or foreign items that find their way into the tunnel.
- Once deposits start to form, flow slows which allows for quicker deposit growth.



How are the deposits removed?

- A contractor will use the sanitary sewer manholes to enter the tunnel and clean.
- A vacuum truck will remove the debris from the tunnel.
- Once the section of tunnel between the first and second manholes is cleaned, the contractor will start to clean the section between the second and third manholes.
- This process from upstream to downstream continues until all tunnel sections are cleaned.



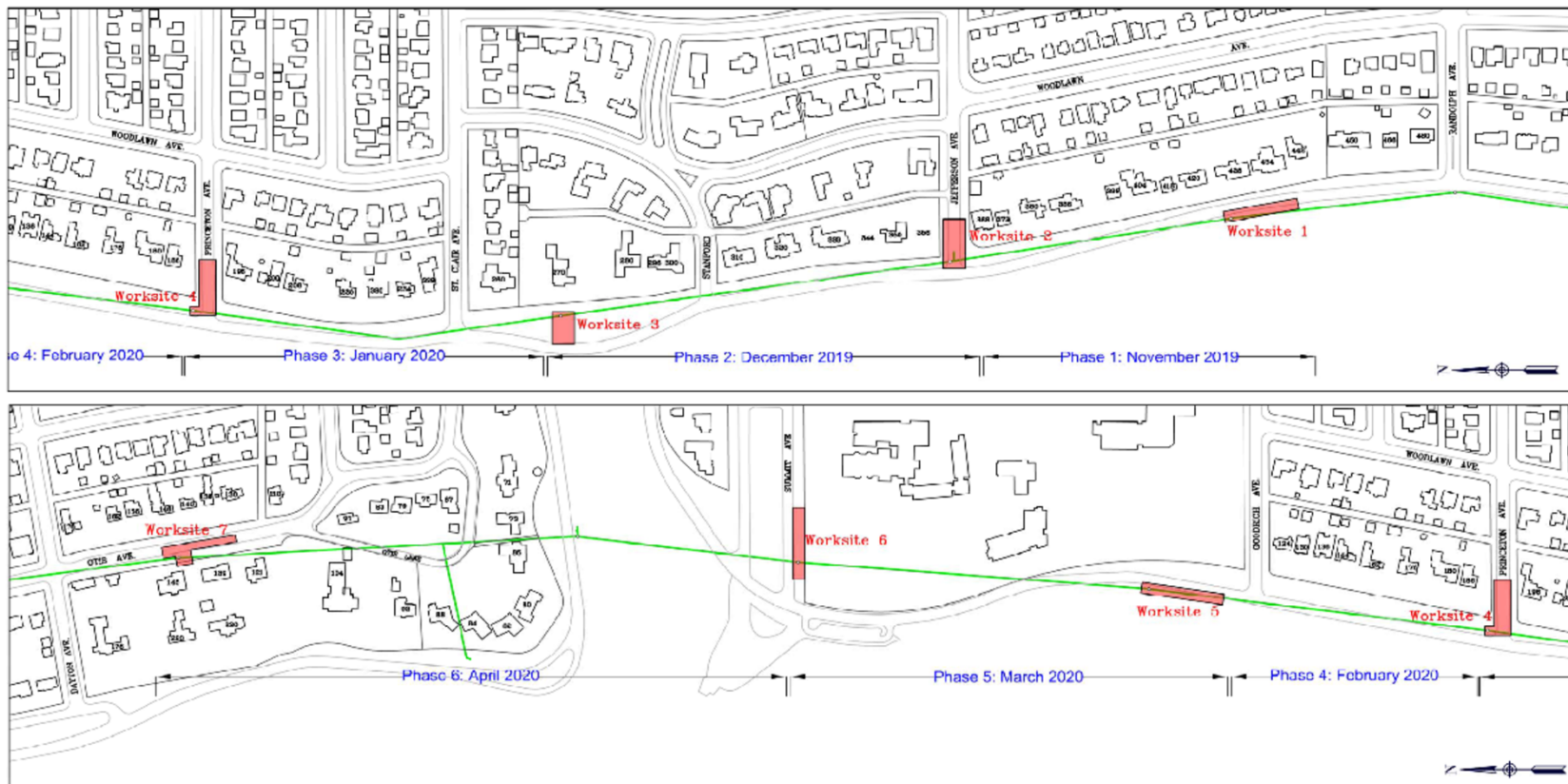
What are the impacts of this project?

- Some detours and lane shifts for vehicles, bicycles, and pedestrians will be required. The detours will only be in effect while a worksite is occupied.
- Side street access to MRB will be temporarily closed when worksite is being utilized.
- The MRB regional trail will remain open.
- Access to alleys and private driveways will be maintained.
- Contractor will be responsible for removing snow from the area around the worksite to the next city street.
- Homeowners do not need to do anything except watch for lane restrictions and detours.



When is the timing of this project?

- Cleaning will take place from November 2019 to April 2020.
- Each manhole and worksite will be used for 4-8 weeks. Two of the seven sites will be occupied at each stage of the project.



- Manholes and worksites are within public right of way.

QUESTIONS?
SPECIAL CONCERNS?

