

**SOUTHWEST**

Green Line LRT Extension



# Cedar Lake Parkway Closure Virtual Public Meeting

January 18, 2022



# Today's Agenda

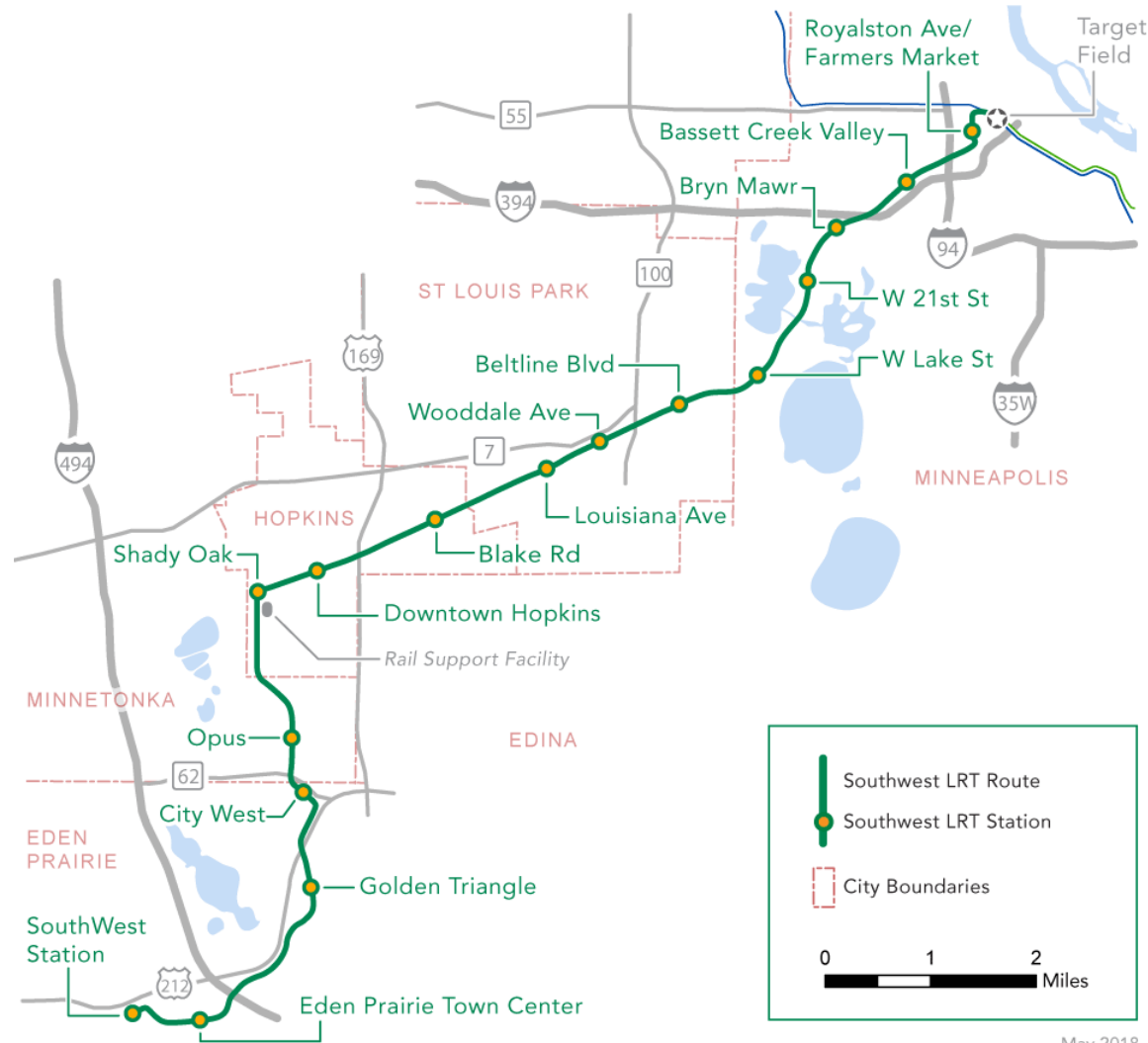
- Project Overview
- Tunnel Construction
- Cedar Lake Parkway Closure and Phasing
- Q & A



# Project Overview

# METRO Green Line Extension

- 14.5 miles
- 16 stations
- Single seat trips to downtown Mpls, U of M, St. Paul
- Connections to Airport and Mall of America via Blue Line

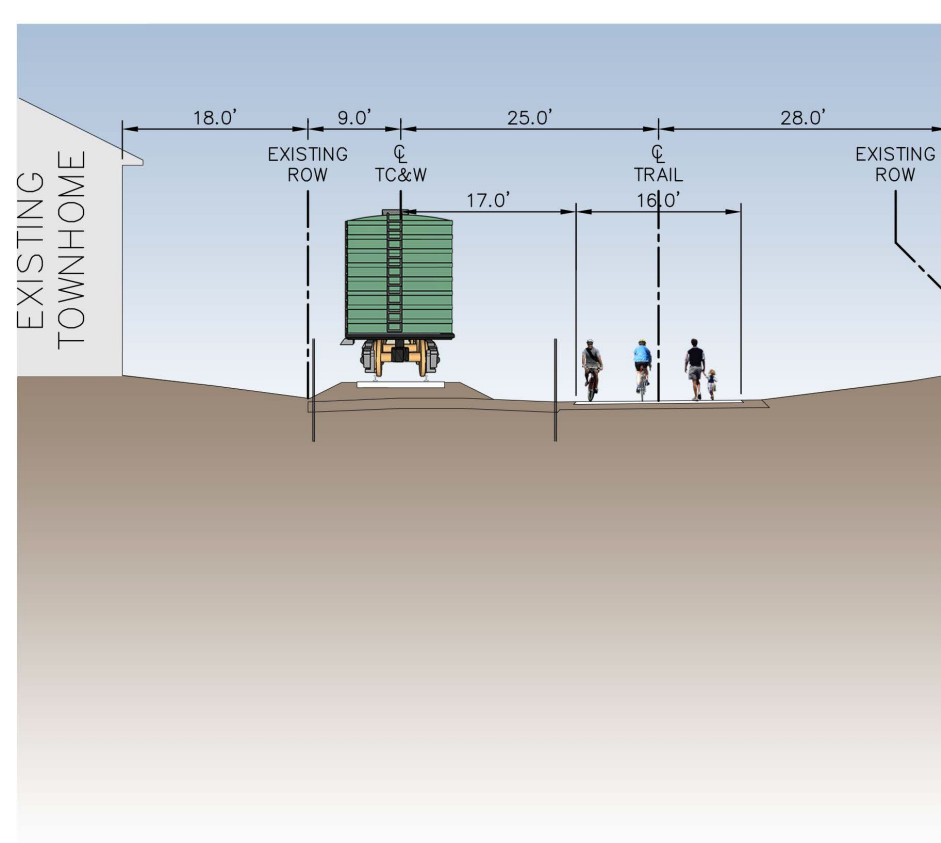


# Kenilworth LRT Construction

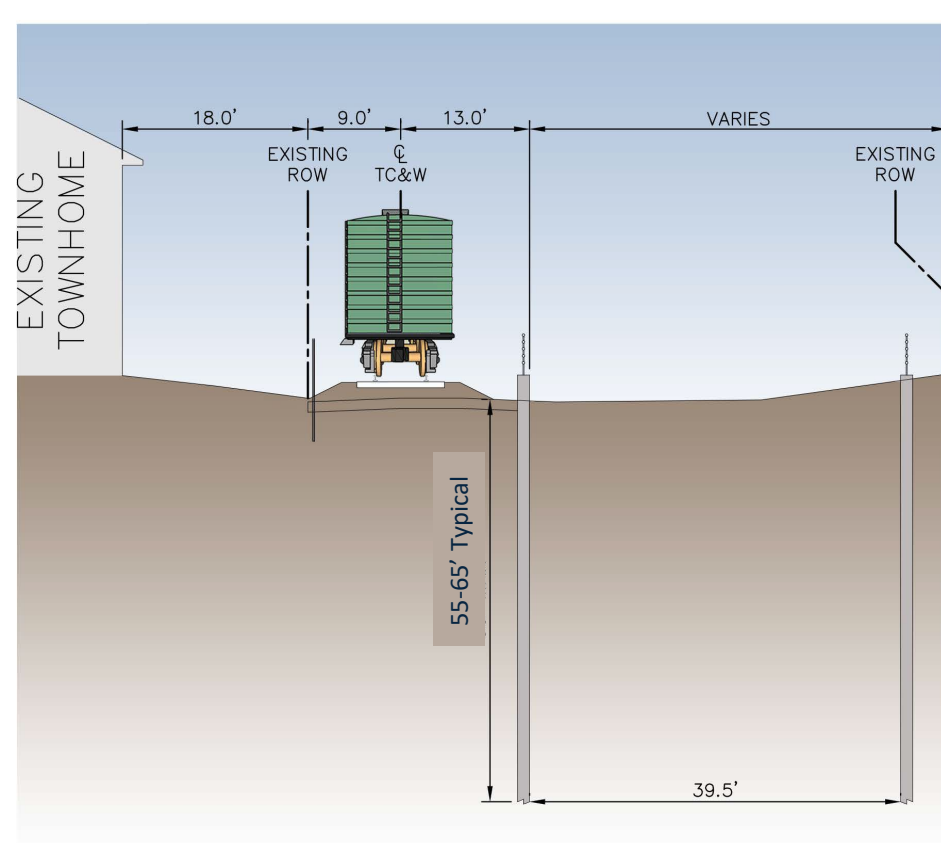
- The tunnel is constructed using a “cut-and cover” method
  - A trench is excavated,
  - The tunnel is then constructed, and
  - The tunnel is then covered up
- The 2,780 feet long tunnel is divided into 30 segments or cells that are generally 100 feet in length
- There are different work activities going at any one time in seven consecutive cells, creating a work area over 700 feet long

# Tunnel Construction Steps

## Base Condition



## Sheeting





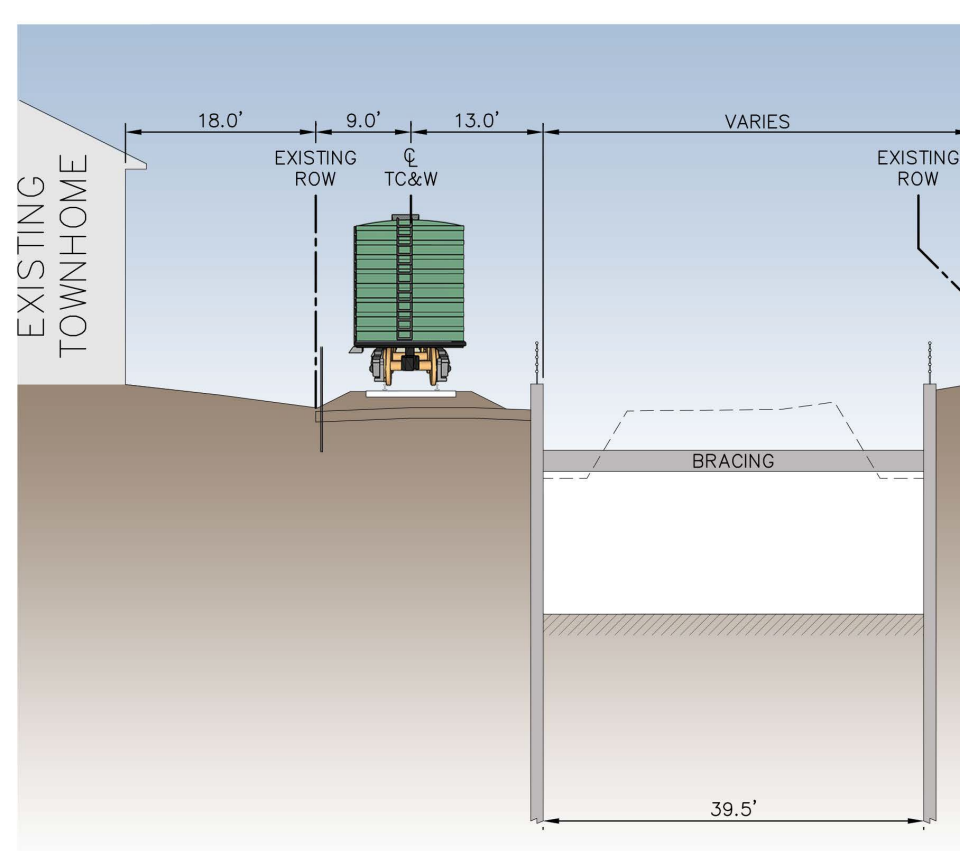
# Kenilworth LRT Tunnel

- Installing sheeting

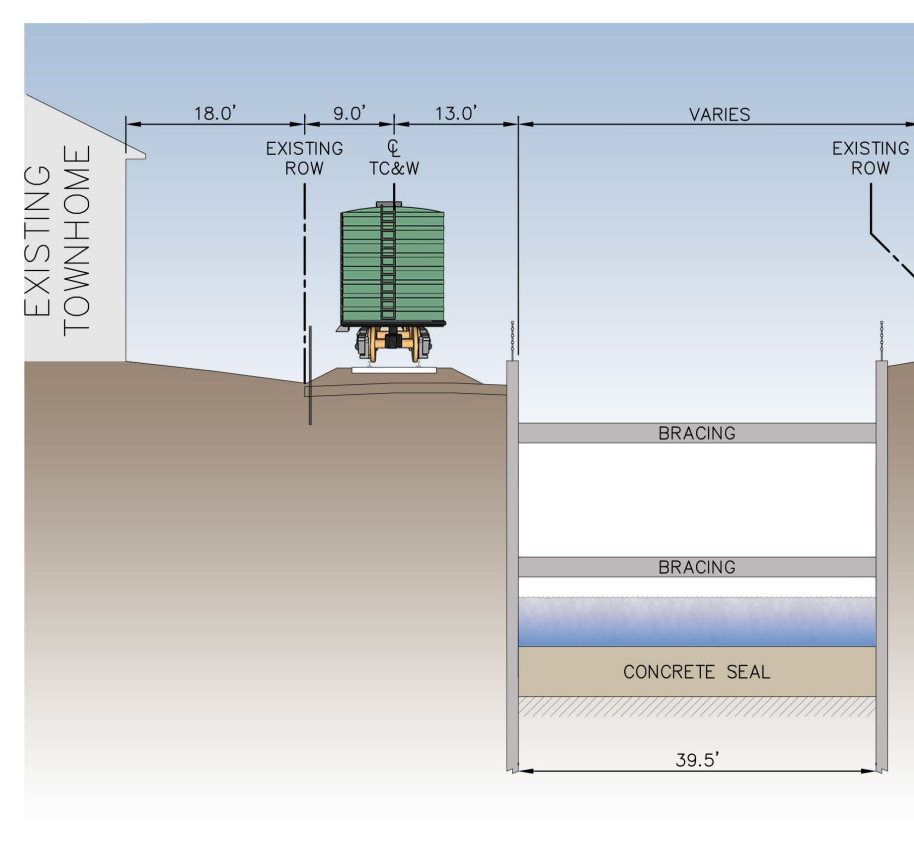


# Tunnel Construction Steps

## Bracing and Excavation



## Concrete Tremie Seal





# Kenilworth LRT Tunnel

- Tremie seal concrete pour







# Kenilworth LRT Tunnel

- Placement of concrete for the tunnel floor



# Kenilworth LRT Tunnel

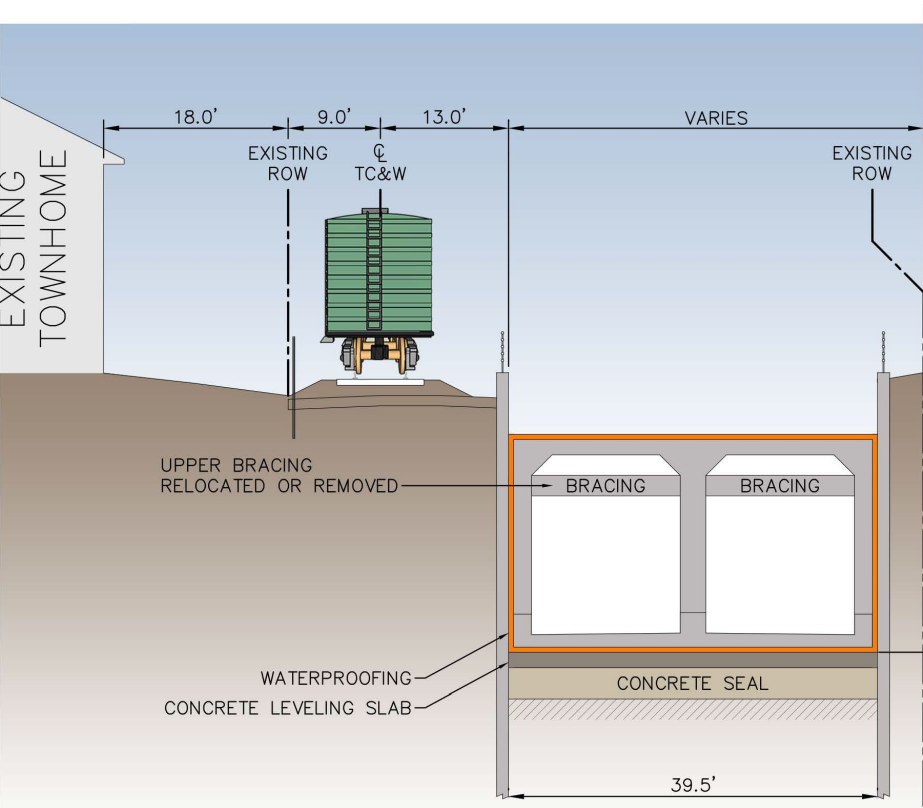
- Applying shotcrete to sheeting



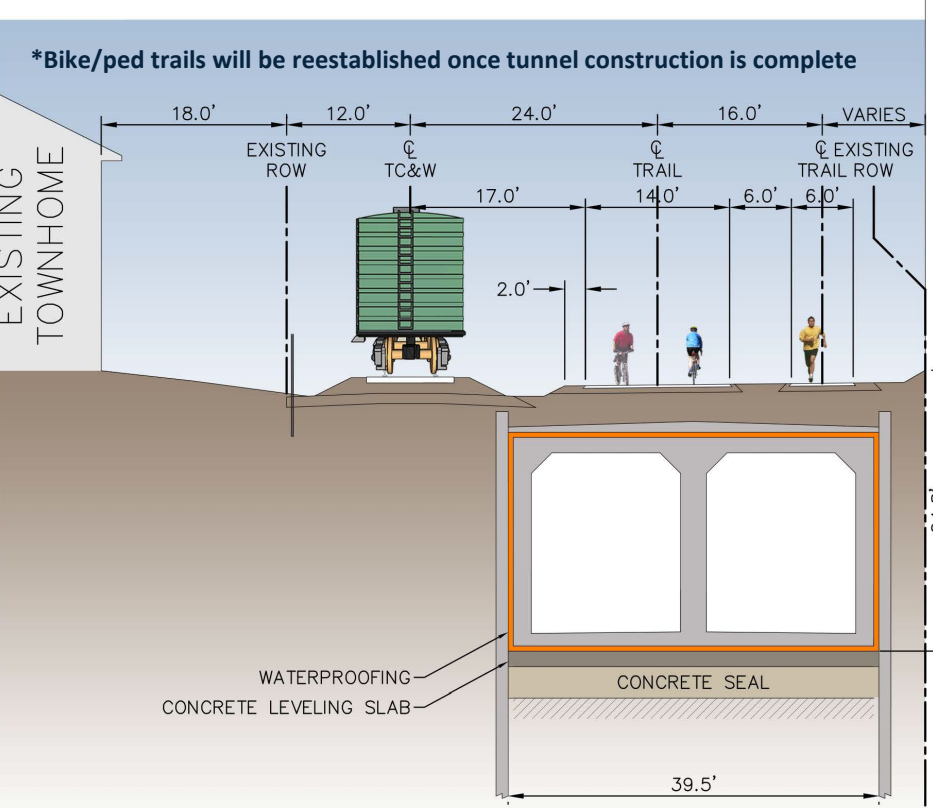


# Tunnel Construction Steps

## Concrete Walls and Roof



## Backfill and Restoration



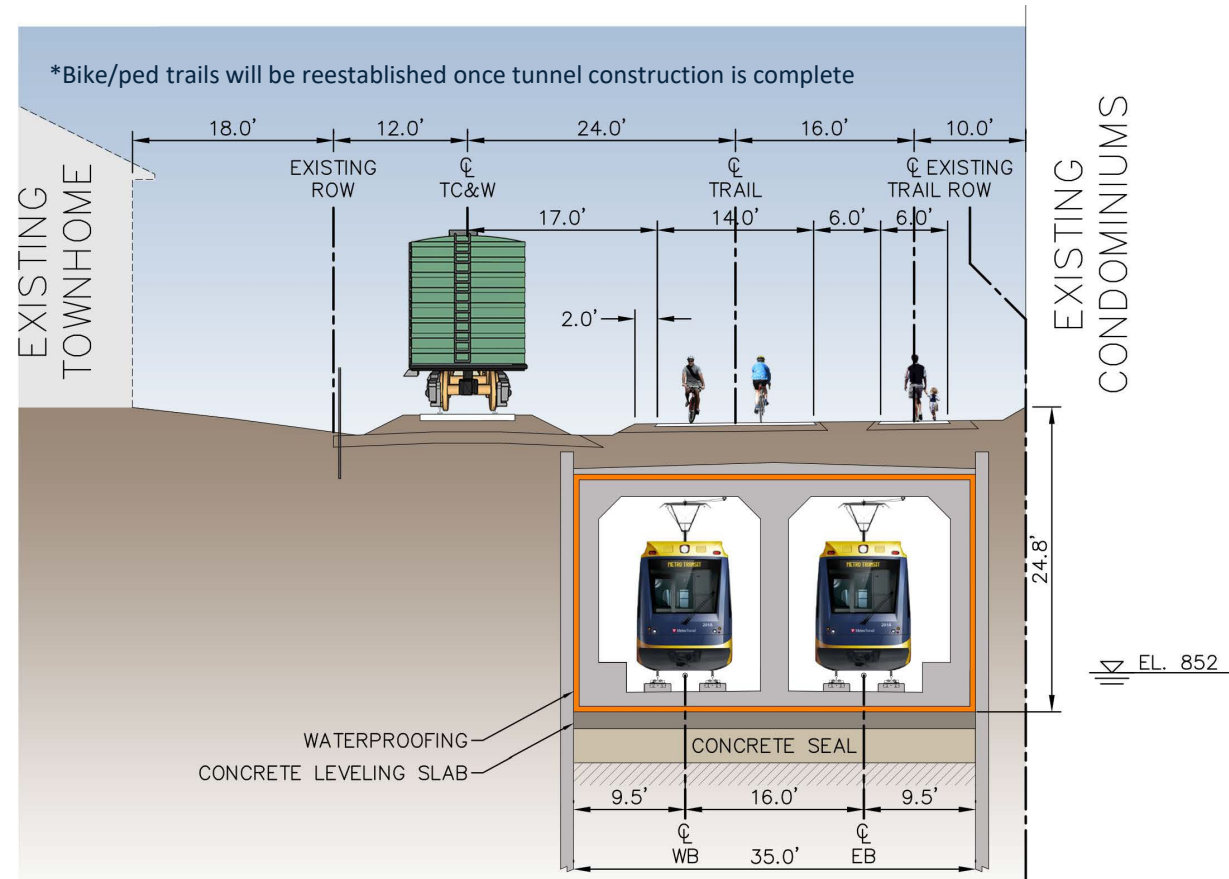
# Kenilworth LRT Tunnel

- Construction of tunnel walls and roof



# Tunnel Construction Steps

## Construction of Tunnel Interior and Completion



# Cedar Lake Parkway Closure

- To date, there have been three closures to accommodate freight rail work and tunnel preparatory activities
- In the design phase we estimated that the closure would last about 180 days
- Tunnel construction conditions require an estimated closure duration, from early February to mid November, about 298 days








# CLP Closure - Challenges

- Access and space constraints
  - Due to the linear and limited access construction must progress in a specific way
  - There are different work activities going at any one time in seven consecutive cells, creating a work area over 700 feet long
  - Secant wall construction further limits access
- Other considerations
  - Under water inspection of sheet piles is required to ensure there are no openings between the sheets
  - This increases the time between completion of excavation and pouring the tremie seal

# CLP Closure Phasing, Work Area

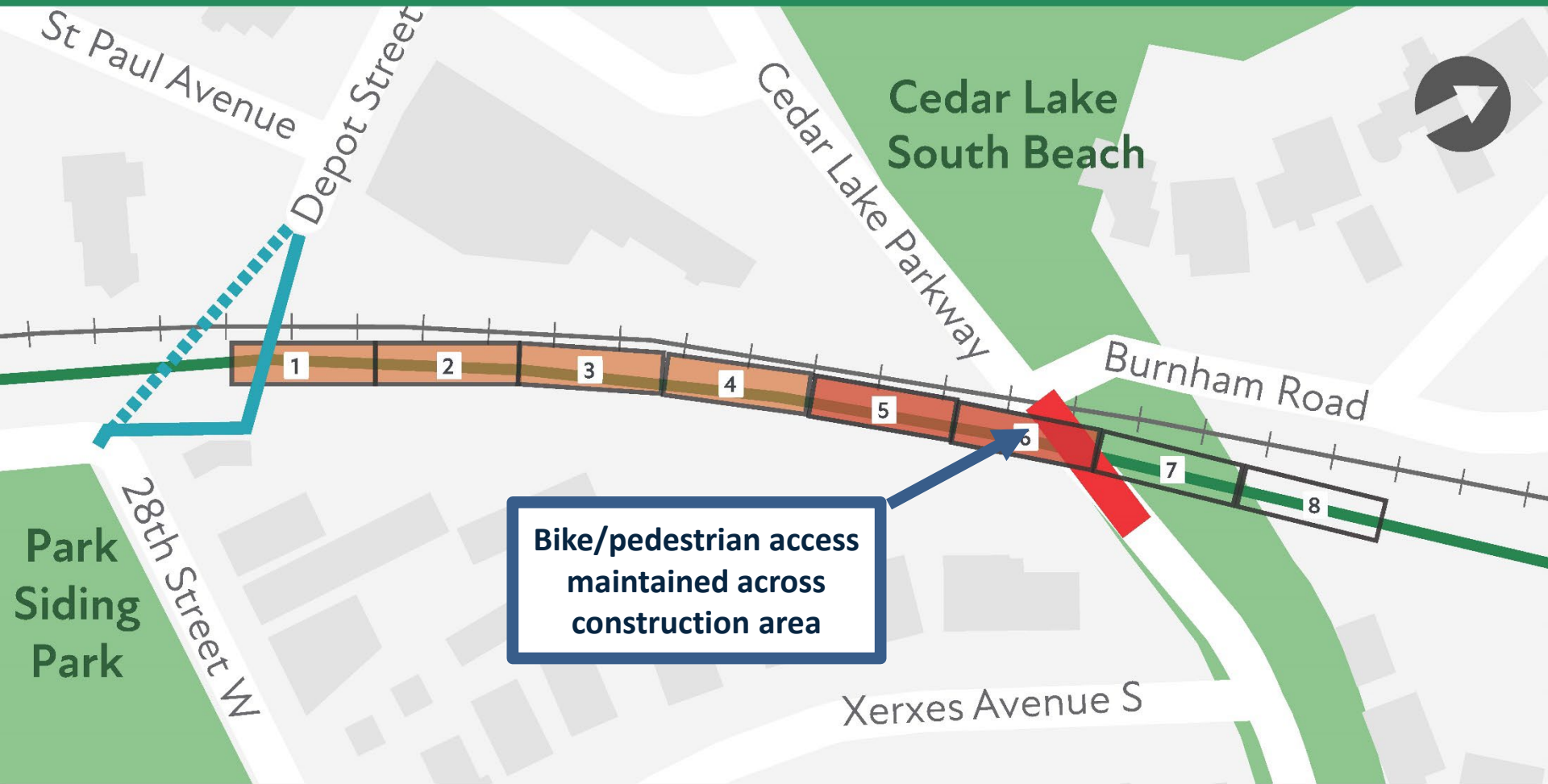
## Minneapolis - Cedar Lake Parkway Closure | Overview



-  LRT Station
-  LRT Alignment
-  Tunnel
-  Road Closure
-  Construction Area for Cedar Lake Parkway Closure

# CLP Closure Phasing

Minneapolis - Cedar Lake Parkway Closure

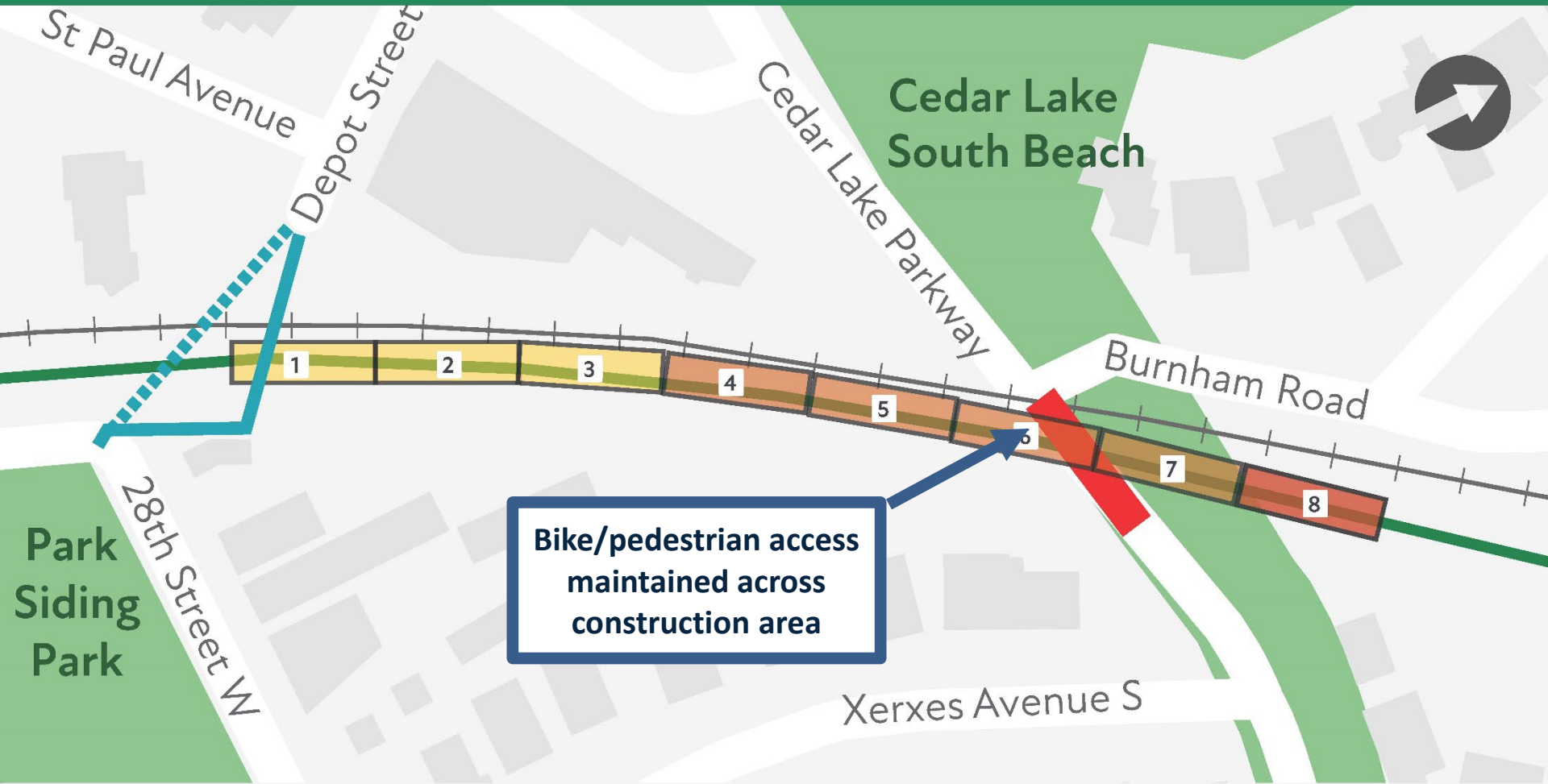


**Bike/pedestrian access maintained across construction area**

- LRT Alignment
- Road Closure
- Construction
- Restoration
- Current MCES Sanitary Force Main
- Future MCES Sanitary Force Main

# CLP Closure Phasing

Minneapolis - Cedar Lake Parkway Closure

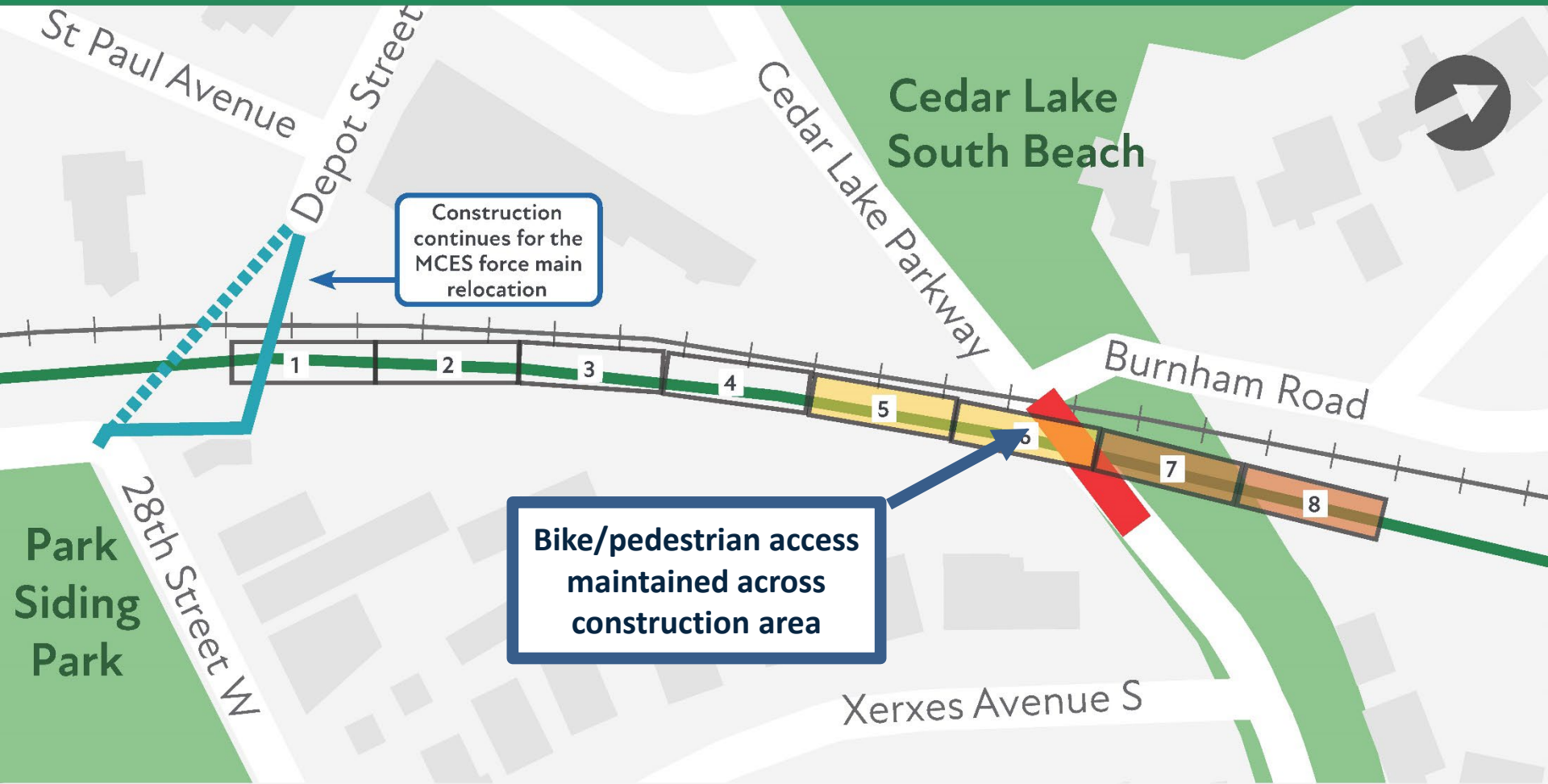


- LRT Alignment
- Road Closure
- Construction
- Restoration
- Current MCES Sanitary Force Main
- Future MCES Sanitary Force Main



# CLP Closure Phasing

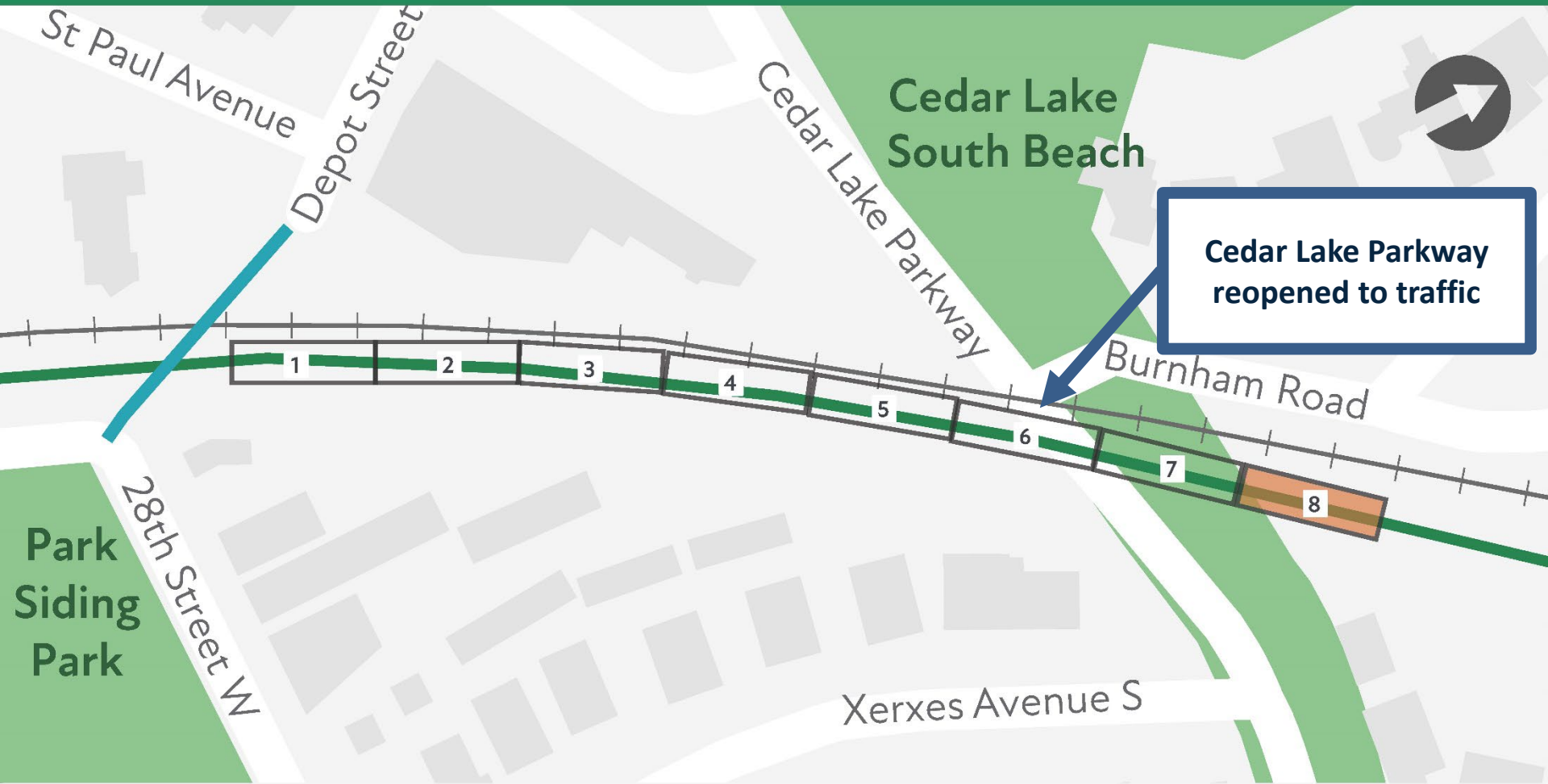
Minneapolis - Cedar Lake Parkway Closure




- LRT Alignment
- Road Closure
- Excavation
- Construction
- Restoration
- Current MCES Sanitary Force Main
- Future MCES Sanitary Force Main

# CLP Closure Phasing

Minneapolis - Cedar Lake Parkway Closure



-  LRT Alignment
-  Excavation
-  Construction
-  Restoration
-  New MCES Sanitary Force Main

# CLP Closure - Detours

- Pedestrian and Bicycle Detours
  - Staged to accommodate progress of construction activities
  - Working with City and Park Board staff on access details
  - Communications from Project Office via GovDelivery to announce shifts in detours
- Automobile Detours
  - Using detour routes from previous closures
  - Burnham Road temporarily converted to two-way traffic between Burnham Boulevard and Sheridan Avenue South
  - Lake of the Isles Parkway temporarily converted to two-way traffic between Dean Parkway and West 24<sup>th</sup> Street
  - Access to Xerxes Avenue alley and Benton Boulevard will be maintained

# CLP Closure – Ped/Bike Detours



**Phase 2 Detour - Bike/ pedestrian access via new path from Depot Street to Park Siding Park**

**Phase 1 Detour - Bike/ pedestrian access across north side of Cedar Lake Parkway only**

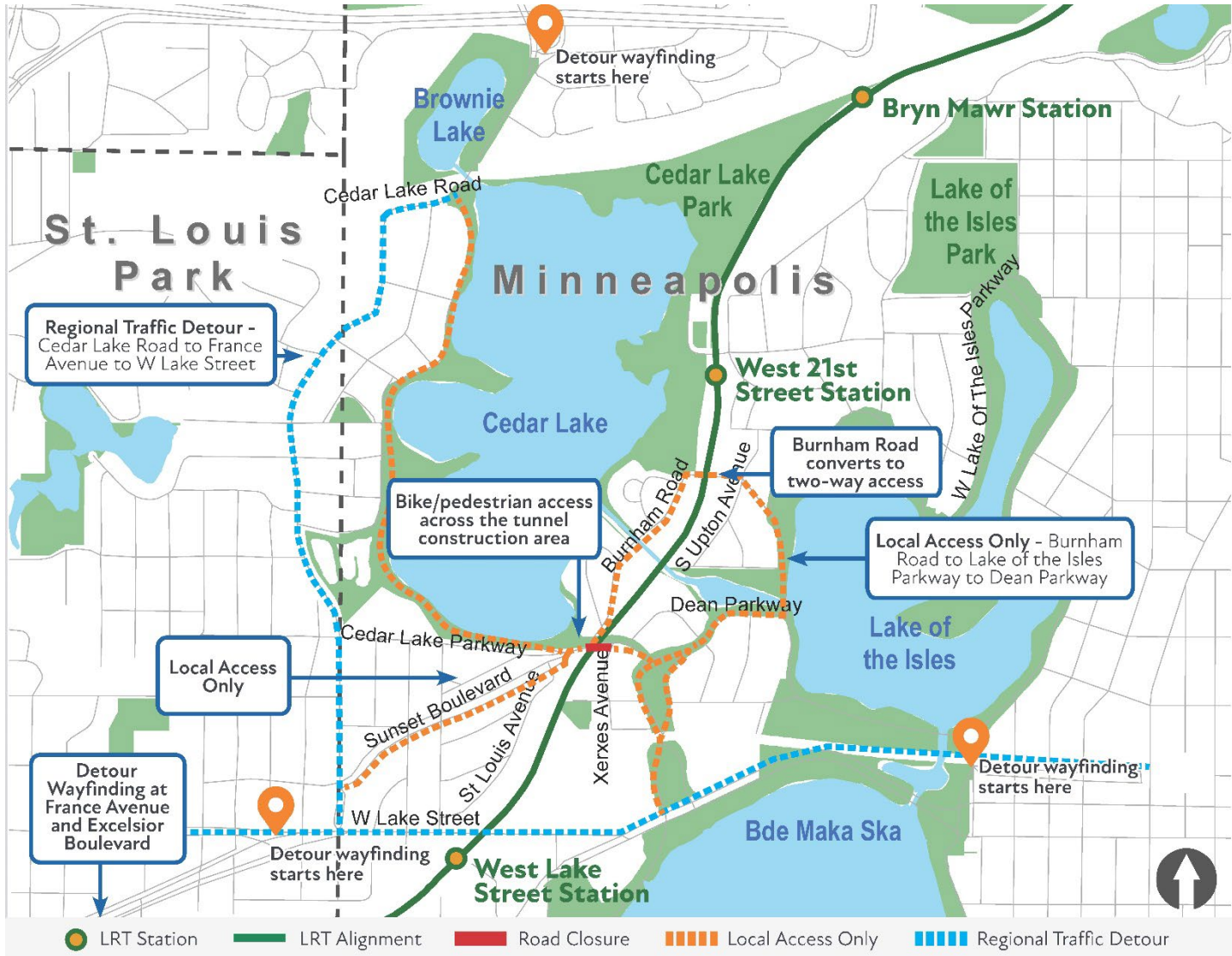
**Phase 3 Detour - Bike/ pedestrian access via new path across freight/LRT tracks to Cedar Lake Parkway**

- LRT Alignment
- Road Closure
- Phase 1 Detour
- Phase 2 Detour
- Phase 3 Detour





# CLP Closure – Automobile Detours



# Q&A

# More Information

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