

# METRO Green Line Extension: Virtual Town Hall City of Minnetonka

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March 9, 2022



# Today's topics

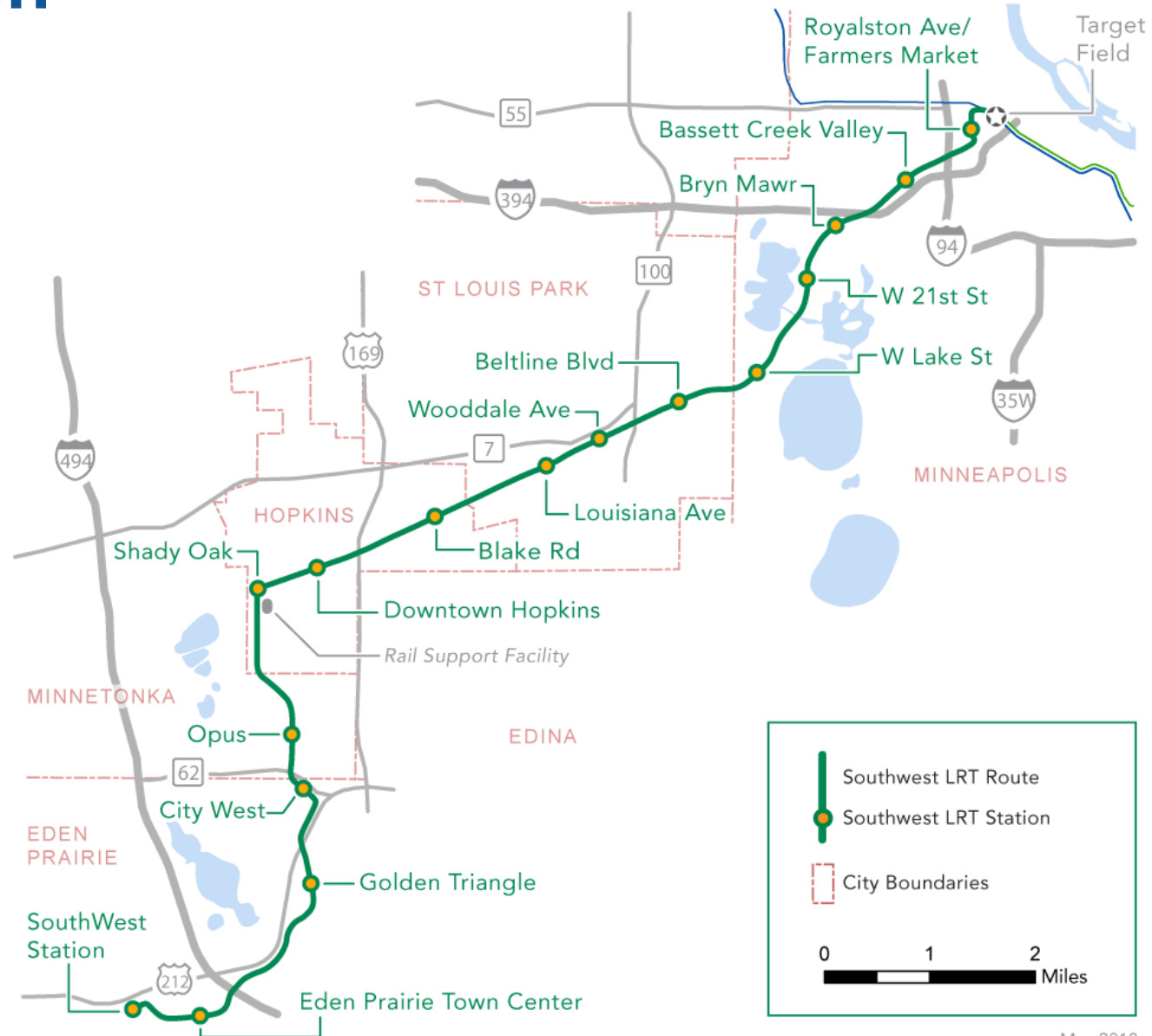
- Project Overview
- Project Update
- 2021 Construction Recap
- 2022 Construction Highlights
- Systems Overview
- Communications & Outreach



# Project Overview

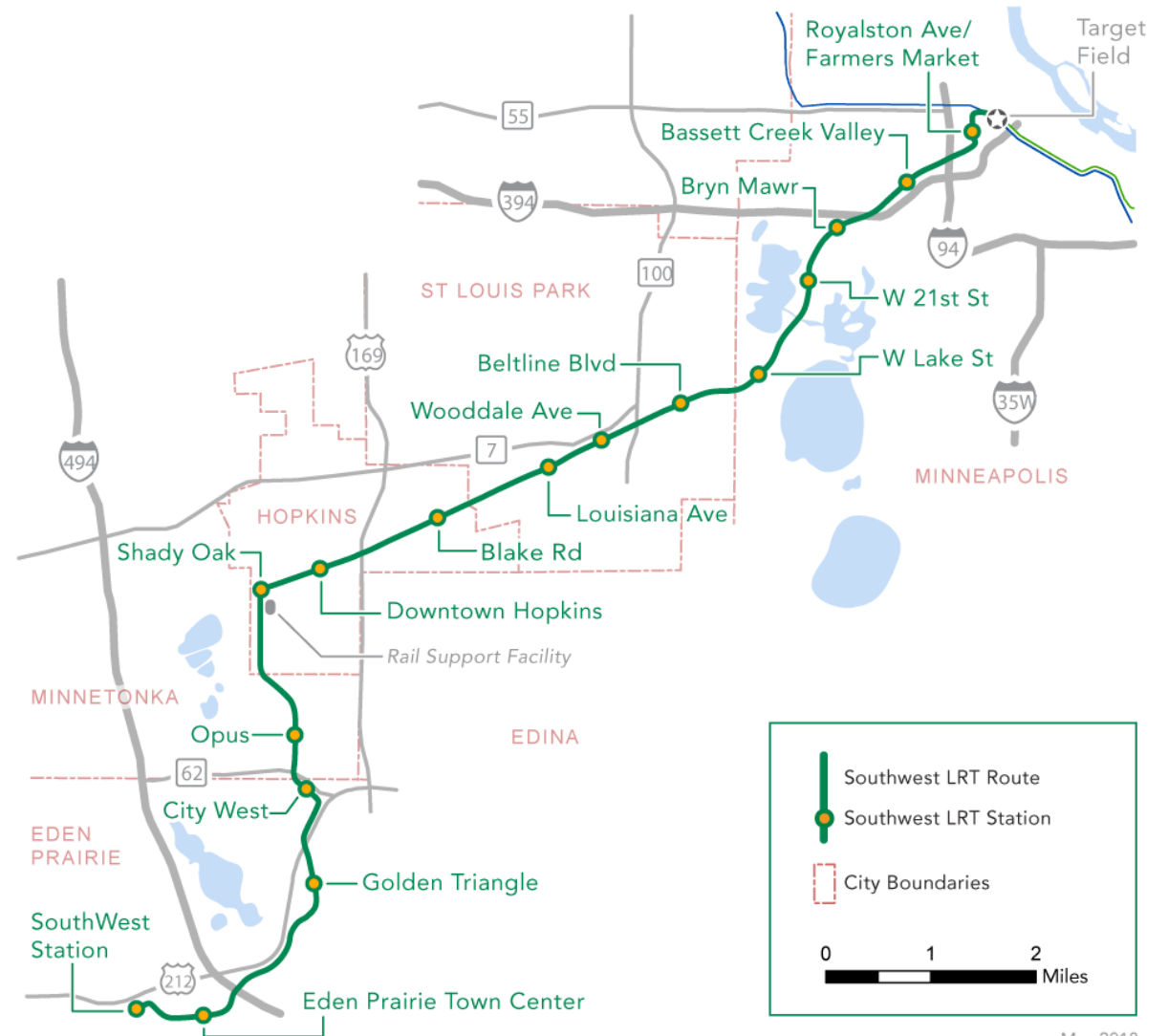
# METRO Green Line Extension

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



# METRO Green Line Extension Scope

- 16 new stations
- 44 structures
  - 29 new bridges: LRT, pedestrian, roadway, freight
  - 7 existing bridges with modifications
  - 6 pedestrian tunnels
  - 2 cut and cover tunnels:
    - TH 62 582 ft., Kenilworth 2,236 ft.
- 15 at-grade LRT crossings
  - Includes 5 shared crossings w/freight rail
- 127 retaining walls
- Track: ~182,000 TF
- 7.8 mi shared LRT and freight rail corridor

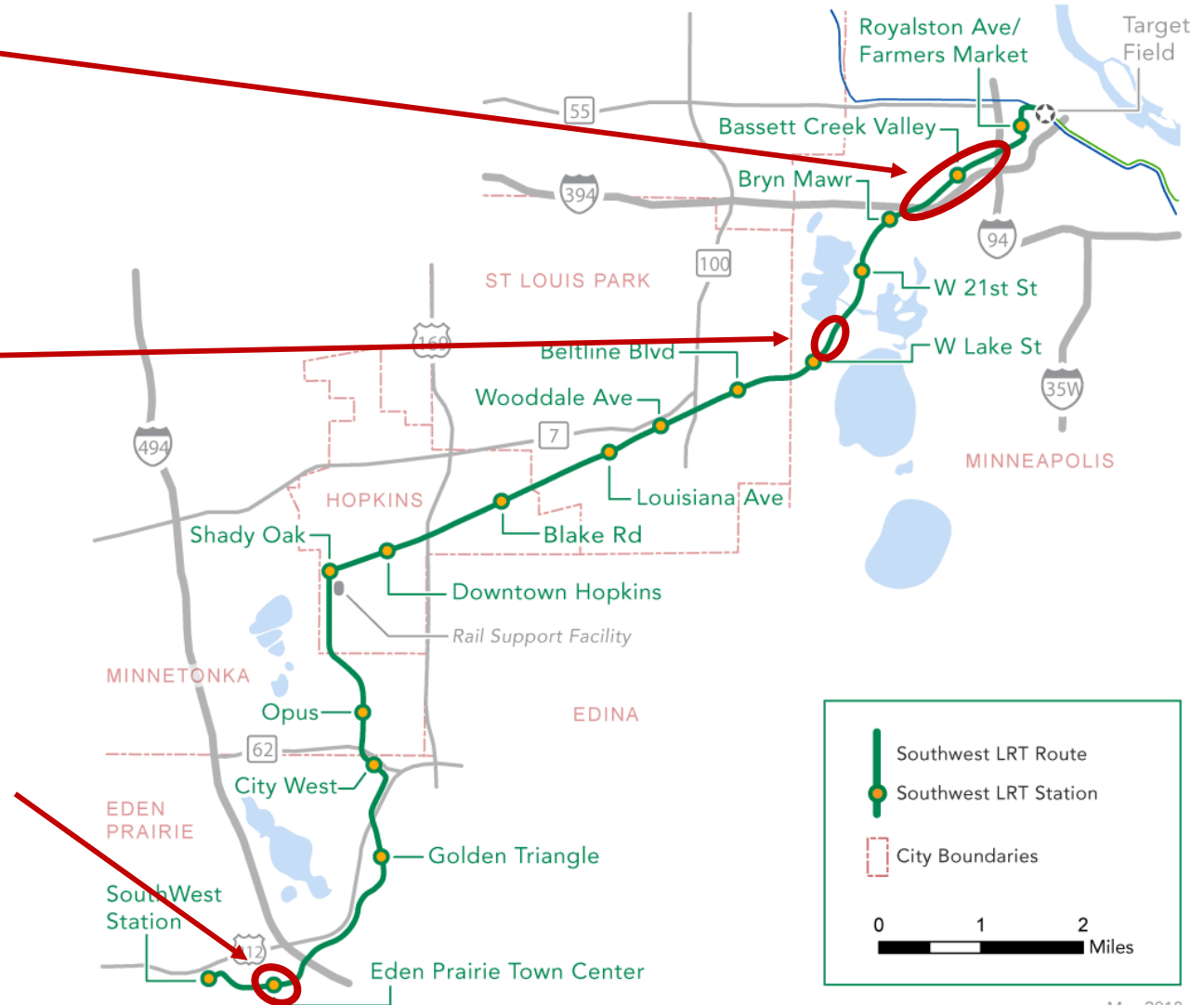


May 2018

# Project Update

# Civil construction challenges: Key issues

- **Corridor protection wall**
  - Added to the civil construction contract by change order
  - Adds significant time to the construction schedule in Minneapolis
- **Secant pile (retaining) wall**
  - Unforeseen soil conditions (settling during initial tunnel construction) necessitated an alternative construction method
  - This was a major change that sets the overall completion of civil construction due to complexity of construction involved
- **Eden Prairie Town Center Station**
  - Added to the civil construction contract by change order



May 2018

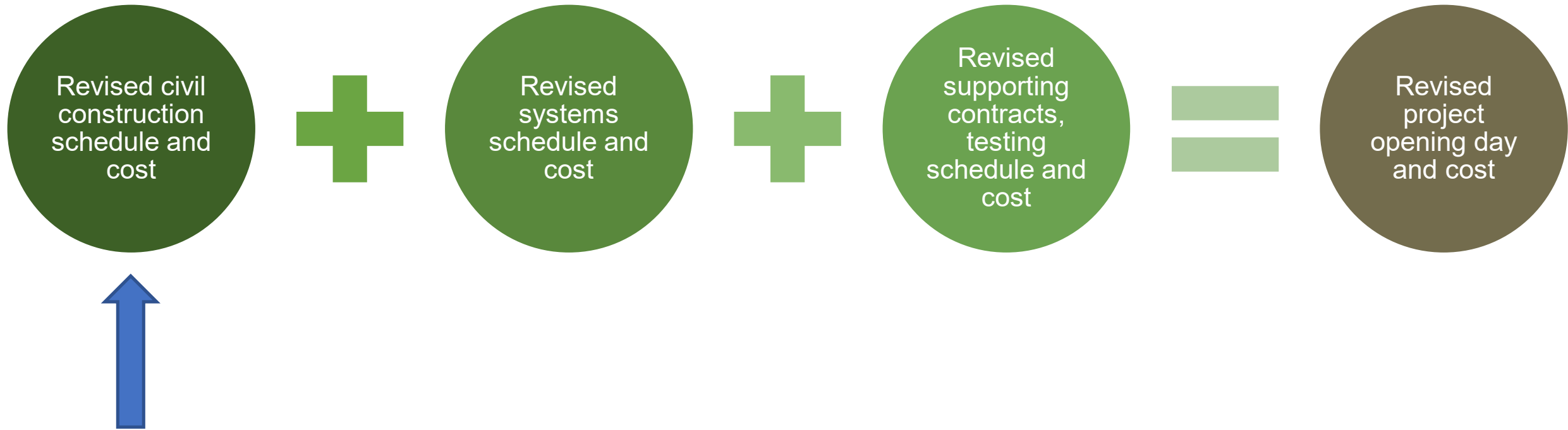
# Civil construction cost and schedule



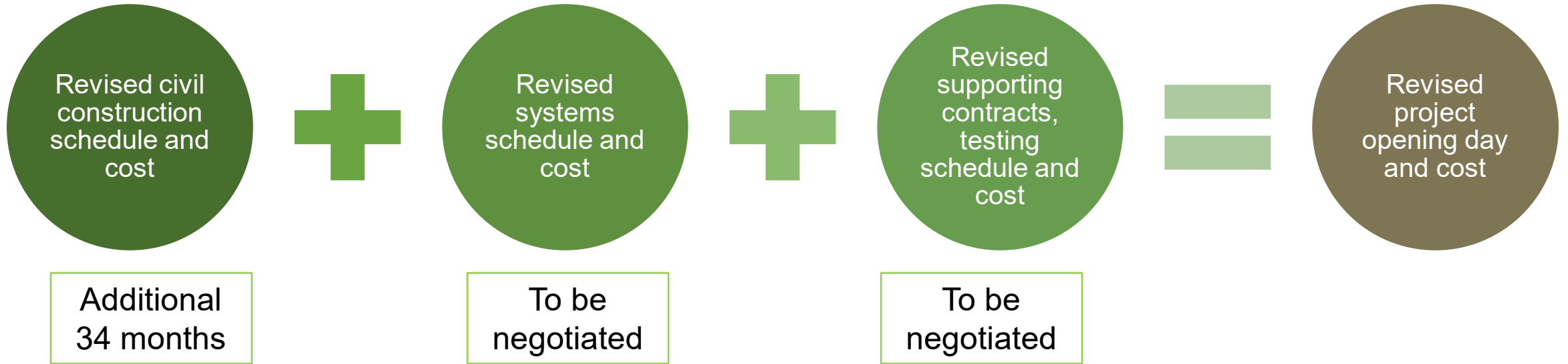


# Revised project schedule and cost process: Current step

- Taken together, these issues impact:
  - Other Green Line Extension contracts
  - Staffing, supplies, overhead, etc.
  - Overall project schedule and cost



# Project costs & schedule



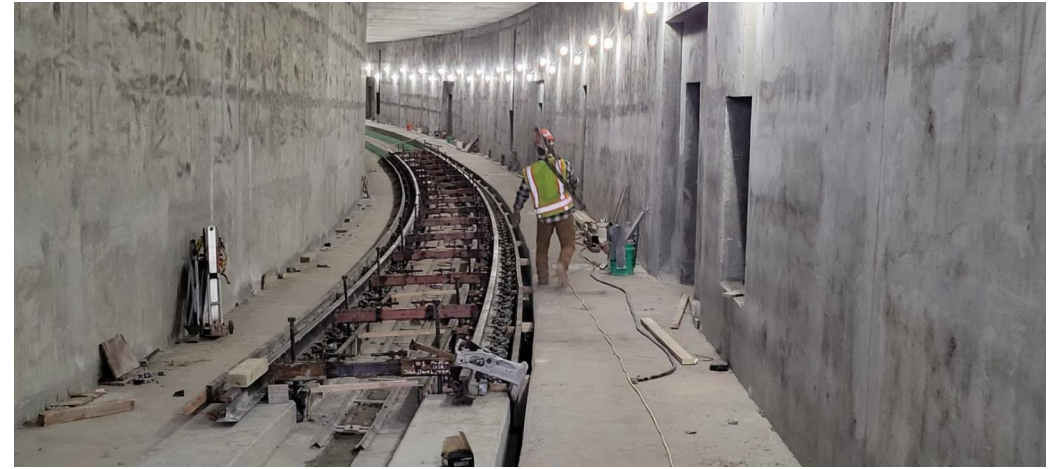
- Revised project costs will be known when all agreements are finalized
- Project opening day in 2027

# Project budget

- The Green Line Extension has undergone cost cutting measures already, we are building a well-constructed line that meets the needs of our communities
- With the project 60% complete meaningful reductions are not available
- Additional funding will be needed to complete the project
  - We are working with partners to identify available funding solutions
  - We will not be asking city partners to contribute more
  - Stopping the project would be more costly

# How Do Costs Compare?

- Compared to our peer group of metropolitan areas including Seattle, Portland, and Houston, our costs are currently at or below their similar projects
  - Previous Green Line Extension: ~\$152 million per mile
  - Revised Green Line Extension: \$180 million to \$190 million per mile
  - Peer projects: between \$200 million and \$500 million per mile



*LRT track in the Highway 62 LRT tunnel*



*LRT track at the Downtown Hopkins Station*

# National Comparisons

LRT Project	Length in Miles	Number of Stations	Cost Per Mile
Twin Cities METRO Green Line Extension	14.5	16	\$180 - \$190 million
Pittsburg: North Shore	1.2	3	\$560 million
Seattle: U-Link	3.2	2	\$511 million
Seattle: East Line	13.9	10	\$259 million
Portland: Orange Line	7.3	10	\$243 million
Los Angeles: Expo Line Phase 2	6.6	7	\$225 million
Houston: Green Line	3.2	7	\$223 million

Source: Eno Center for Transportation, "A Blueprint for Building Transit Better"

# \$2+ Billion in Permitted & Planned Community Development

**Elevate At SouthWest Station, Eden Prairie**



**The Moline at Downtown Hopkins Station**



**Minnetonka Station at Opus Station**



**Beltline Station Development, St. Louis Park**

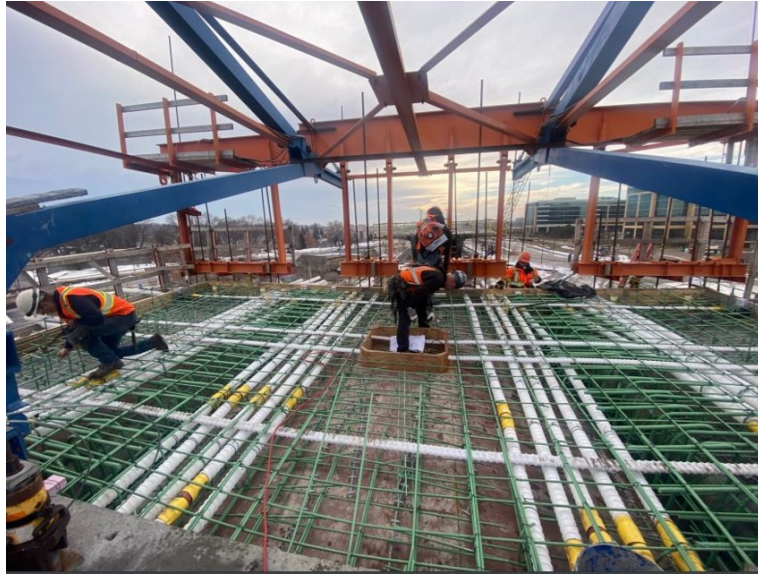


# Disadvantaged Business Enterprise

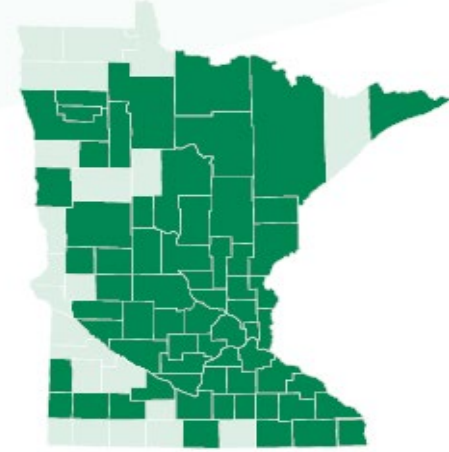
Construction Contract Description	DBE Billed to Date	DBE Percentage Achieved*
Civil: 16%	\$134.2 Million	20.9%
Systems: 12%	\$10.9 Million	16%
Franklin OMF: 15%	\$7.5 Million	19.1%
<b>OVERALL ACHIEVEMENT: 15%</b>	<b>\$152.8 Million</b>	<b>20.4%</b>

*\*As of November 30, 2021*

# Green Line Extension = Statewide Jobs



\$ **53,170,758**  
IN PAY GOING TO  
**65** of the **87** MINNESOTA COUNTIES  
SO FAR



*\*As of July 2021*



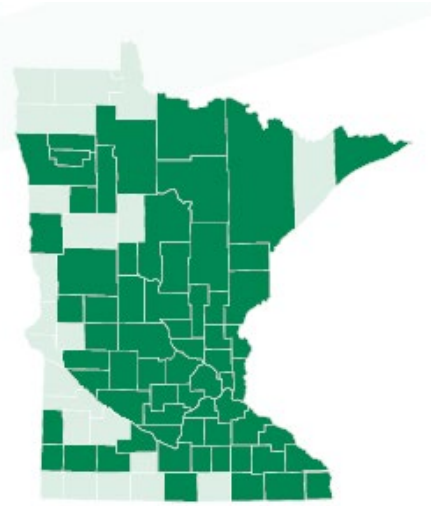


# Statewide economic benefits

- Putting people to work:
  - More than 1.8 million hours worked
  - Paychecks for Minnesotans worth more than \$53.1 million and growing
  - Employing folks from 75% of counties statewide
  - \$134 million billed by Disadvantage and Business Enterprise companies (20.9%) for civil construction activities, exceeding the goal of 16%
  - Project will support 7,500 construction and construction related jobs and \$350 million in payroll to be reinvested in communities throughout the Twin Cities and the state

**65 of 87**

**Minnesota counties have someone bringing home a Green Line Extension paycheck**



# 2021 Construction Recap

# Accomplished by end of 2021: LRT construction sequencing

✓ Done!



## Utilities

- Excavation
- Relocation / installation

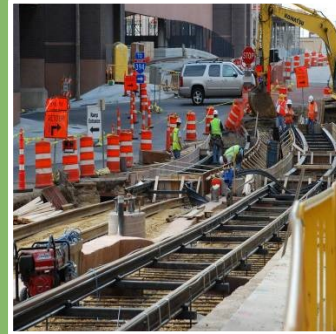
✓ Done!



## Site Prep

- Clear buildings
- Establish work zones, detours

60% Complete



## Structures, track, stations

- Track beds
- Track
- Buildings
- Roadwork
- Trails

~2% Complete



## Systems

- Overhead catenary
- Safety & security
- Ticket vending

Prior to revenue service



## Testing

- Safety
- Comms
- Operator training

Outreach & Communications

# Construction highlights: 2021

- Civil construction: 60% complete
- Under construction:
  - 25 bridges completed or underway out of 29
  - 8 tunnels underway out of 8
  - 114 retaining walls completed or under construction out of 131
- 95% of 946 private utilities completed
- 75% of nearly 1,300 public utilities completed
- Completed all 15 building demolitions
- Systems contractor mobilized and in design and procurement
- Franklin Operation & Maintenance facility modifications are nearly complete
- 26 of 27 Light Rail Vehicles delivered

# LRT stations underway

- 11 stations underway of 16
  - When complete will allow a stress-free commute from Eden Prairie to downtown Minneapolis
    - Consistent commute time, unimpacted by traffic
  - Improved connections to regional destinations such as Minneapolis Grand Rounds, Methodist Hospital, Downtown Hopkins, UnitedHealth Group's Optum corporate campus, Eden Prairie Center



*Shady Oak Station*

*Downtown Hopkins Station*



# Opus LRT Corridor, Minnetonka



# TH 62 Shift for LRT Tunnel, Minnetonka

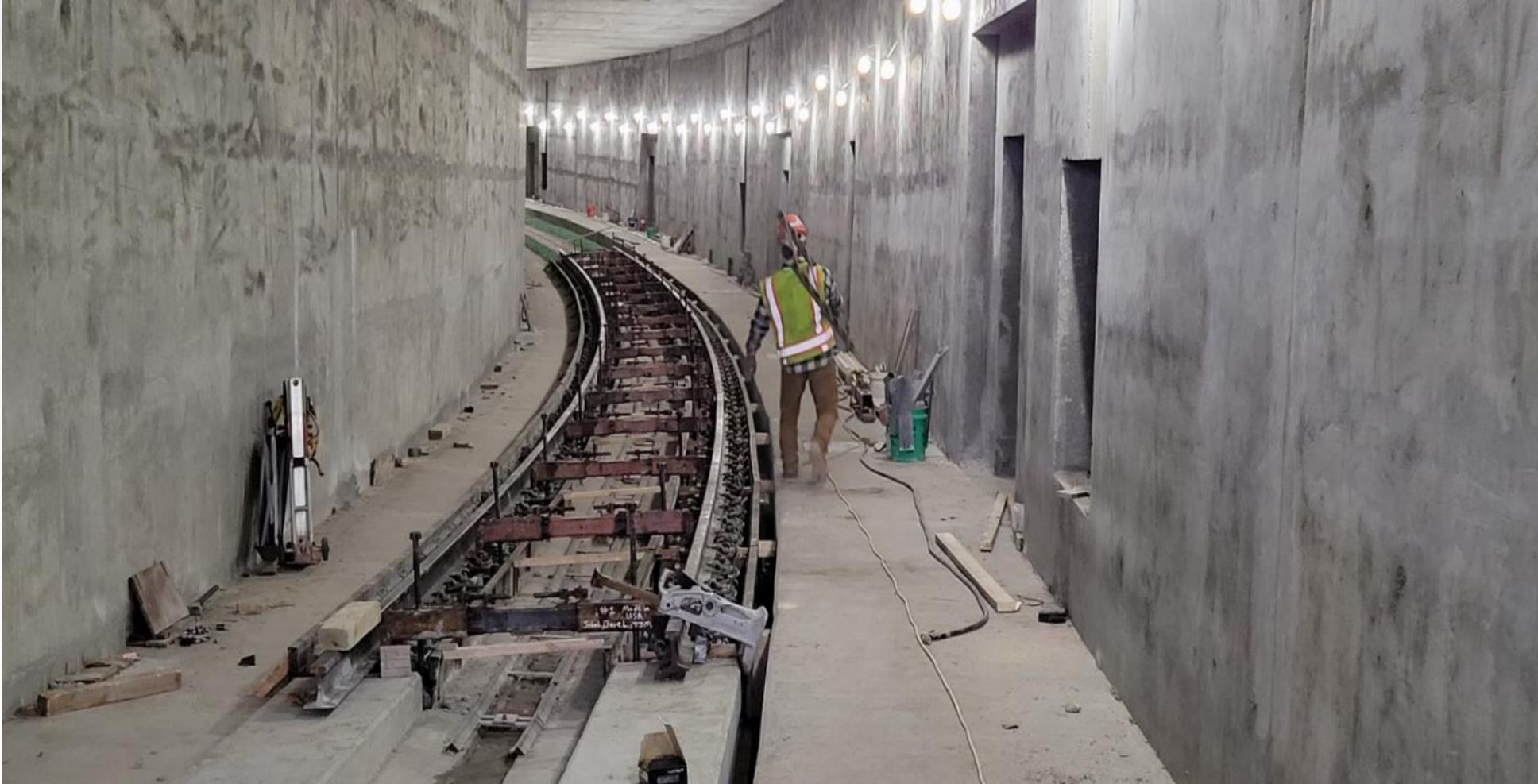


# LRT Tunnel at TH 62, Minnetonka





# TH 62 LRT Tunnel



# Opus Station, Minnetonka



# Retaining Walls, Minnetonka



# Smetana Bridge, Minnetonka



# , Minnetonka Hopkins LRT Bridge

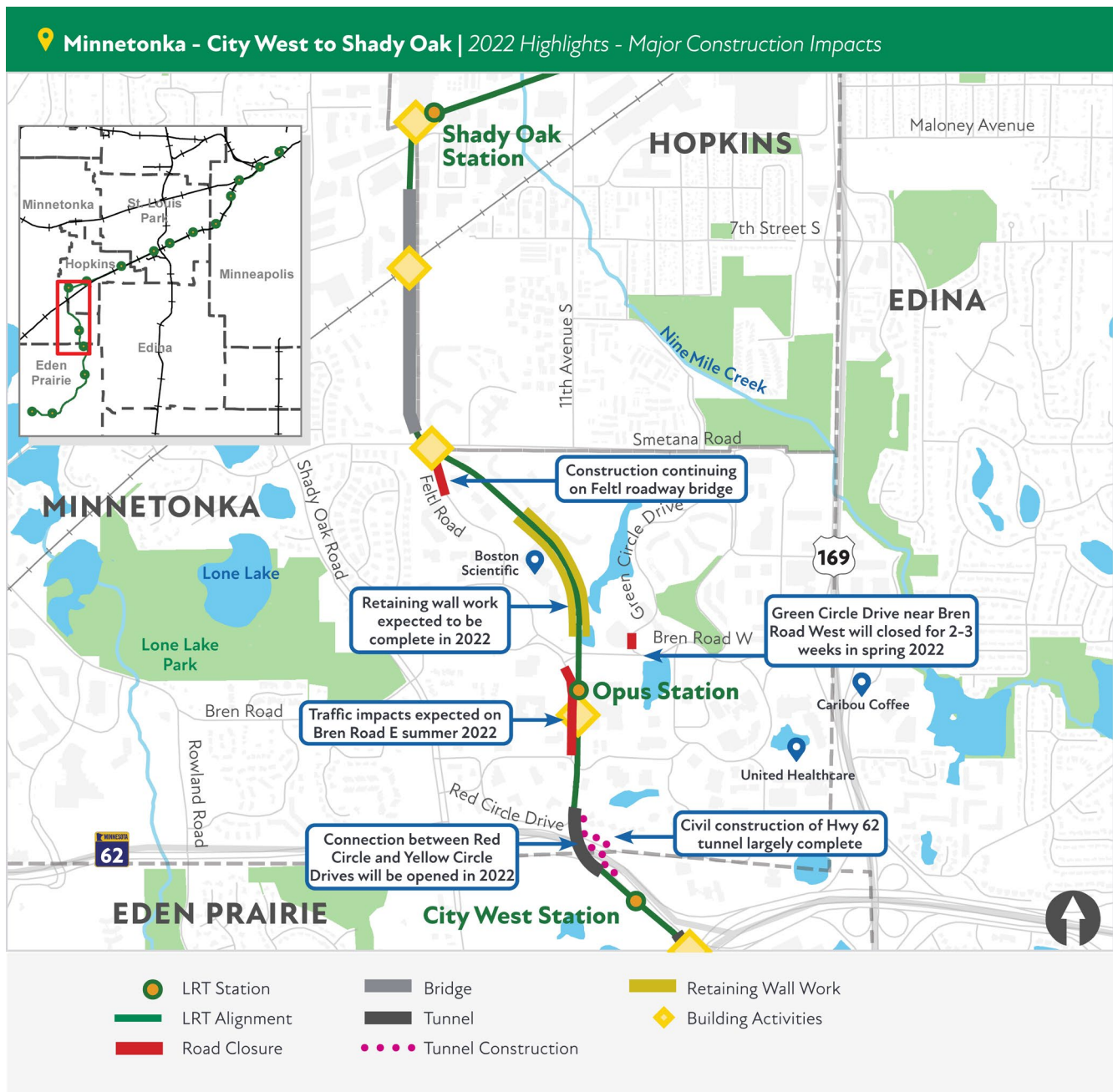


# , Minnetonka Hopkins LRT Bridge



# 2022 Construction Overview

# 2022 Minnetonka Construction Activity Map





# Minnetonka: 2022 Construction Highlights

- Bridges and Tunnel
  - Highway 62 LRT tunnel: trackwork
  - Minnetonka-Hopkins LRT bridge: forming, trackwork and finishing work
  - Feltl Road bridge: walls, deck/track work, and finishing work underway
- Traffic Impacts
  - Current traffic impacts on Red and Yellow Circle Drives and Feltl Road will remain into fall/winter 2022
  - A short-term closure of Green Circle Drive to complete road repairs
  - A short-term closure to complete LRT track crossings at Bren Road West
- Trackwork
  - Trackwork will continue between Highway 62 LRT tunnel and Smetana bridge



*Highway 62 LRT Tunnel*

# Minnetonka: 2022 Construction Highlights

- Station
  - Opus Station: finishing work is underway
- Systems (Electrical) Work
  - Systems construction will begin
- Completion Milestones
  - Red Circle Drive, Yellow Circle Drive, Green Circle Drive and Feltl Road are expected to be in their final condition this year
  - All retaining walls are expected to be substantially completed this year
  - Opus Station will be substantially completed this year



*Opus Station, Minnetonka*

# Systems Contract Work

# Systems Contractor

- Aldridge Parsons Joint Venture (APJV)
- -Project Team Management ≈ 25
- -Project Craft Workers ≈ 40-50
- -Subcontractors ≈ 25



# Foundation work for Traction Power Substation (TPSS)



# Finished TPPS Stations



# Inside a TPSS Station



# Communications and Outreach



# 2021 Communications

- Construction updates: 16,600+ subscribers; 46% open rate
- Hotline: 19 calls from Minnetonka residents
  - 612-373-3933
- Hundreds more non-hotline calls and emails from community members to outreach staff
  - Email: [James.Mockovciak@metrotransit.org](mailto:James.Mockovciak@metrotransit.org)
- Construction Information Workgroup meetings: 4
- Public Walking Tours: 3



West Metro Home Remodeling Fair, Feb. 27

# Upcoming Community Outreach

- Public construction tours
  - Running spring, summer, fall as weather allows
  - Efforts to connect with schools and youth groups
  - Virtual tours
- Pop-up events
- Continued weekly/bi-weekly construction updates



Louisiana Ave in St. Louis Park



Prairie Center Drive in Eden Prairie

## **MORE INFORMATION**

**Website:** [GreenLineExt.org](https://GreenLineExt.org)

**Email:** [swlrt@metrotransit.org](mailto:swlrt@metrotransit.org)

**Twitter:** [@GreenLineExtMN](https://twitter.com/GreenLineExtMN)

**Instagram:** [@GreenLineExtMN](https://www.instagram.com/GreenLineExtMN)