

SOUTHWEST

Green Line LRT Extension



SWLRT/Kenilworth Corridor Virtual Public Meeting



September 14, 2021



Today's Agenda

- Welcome
 - Laura Cederberg, CIDNA Chair
 - Charlie Zelle, Metropolitan Council Chair
- Project Update
 - Construction Milestones
 - Construction Challenges
 - Kenilworth Area Construction Update
 - Q&A



Welcome

Construction Milestones

SWLRT Construction Milestones

- Project is over 50% complete
- First light rail tracks laid at Downtown Hopkins Station
- Systems work commencing on west half of alignment
- Light rail vehicles: 23 of 27 delivered

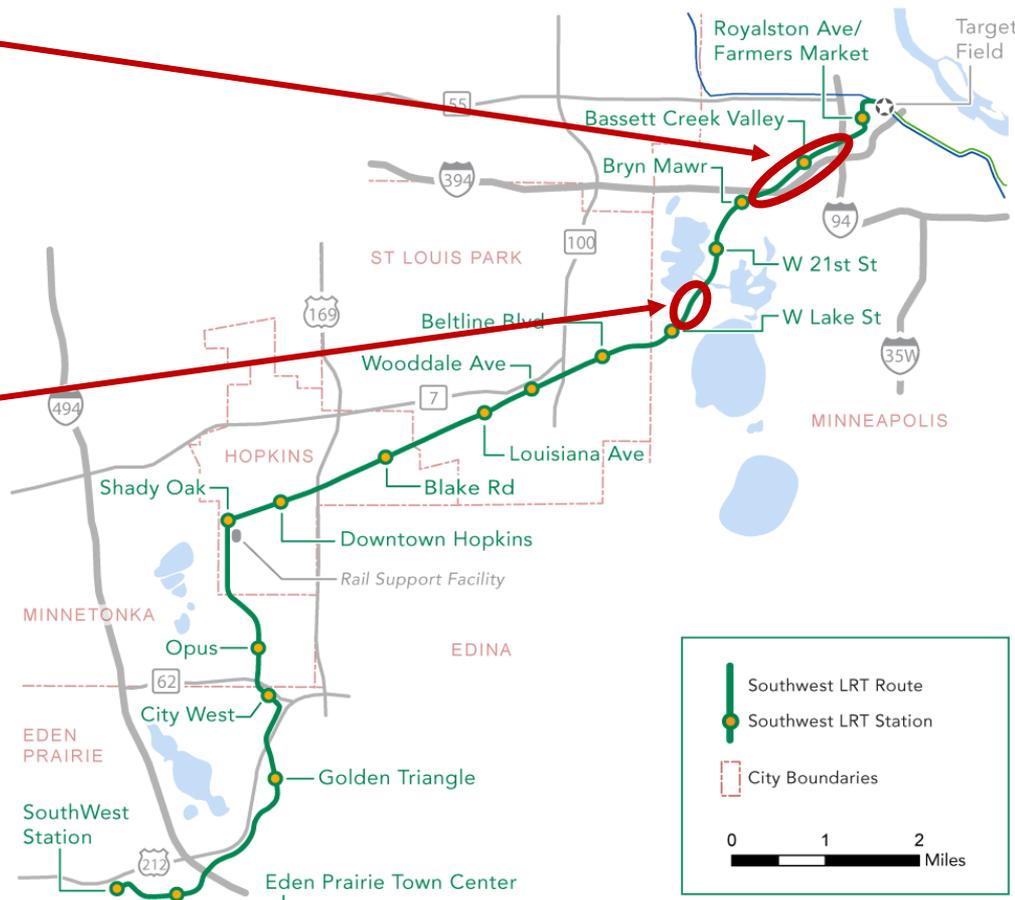


Aug. 24: Senator Tina Smith & FTA Administrator Nuria Fernandez visit SWLRT

Construction Challenges

Construction Challenges

- **Corridor Protection Wall**
 - Required per BNSF agreement
 - Required environmental clearance which was completed after civil construction contracting
 - Added to the Civil Construction Contract by change order
- **Secant Wall**
 - Unforeseen soil conditions (settling during initial tunnel construction) necessitated an alternative construction method
 - Adding to the Civil Construction Contract by change order
- These issues impact other SWLRT contracts and the project schedule



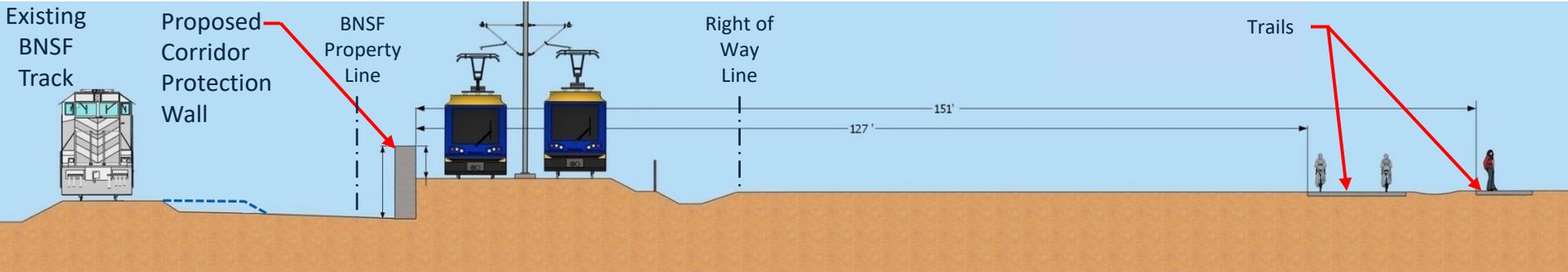
Construction Challenges

- Both elements are major projects by themselves and have a significant impact on the project's cost and schedule
- Next steps:
 - Corridor Protection Wall
 - Continue construction
 - Kenilworth Tunnel
 - Complete change order processes
 - Grouting sheet separation: Completed, work is underway
 - Secant wall
 - Sheet installation delay
 - Tunnel construction re-sequencing
 - Update project schedule
 - Determine impacts to Civil, Systems & SCADA (communications) contracts
 - Reach agreement on schedule and associated costs
 - Complete change order process to update schedule

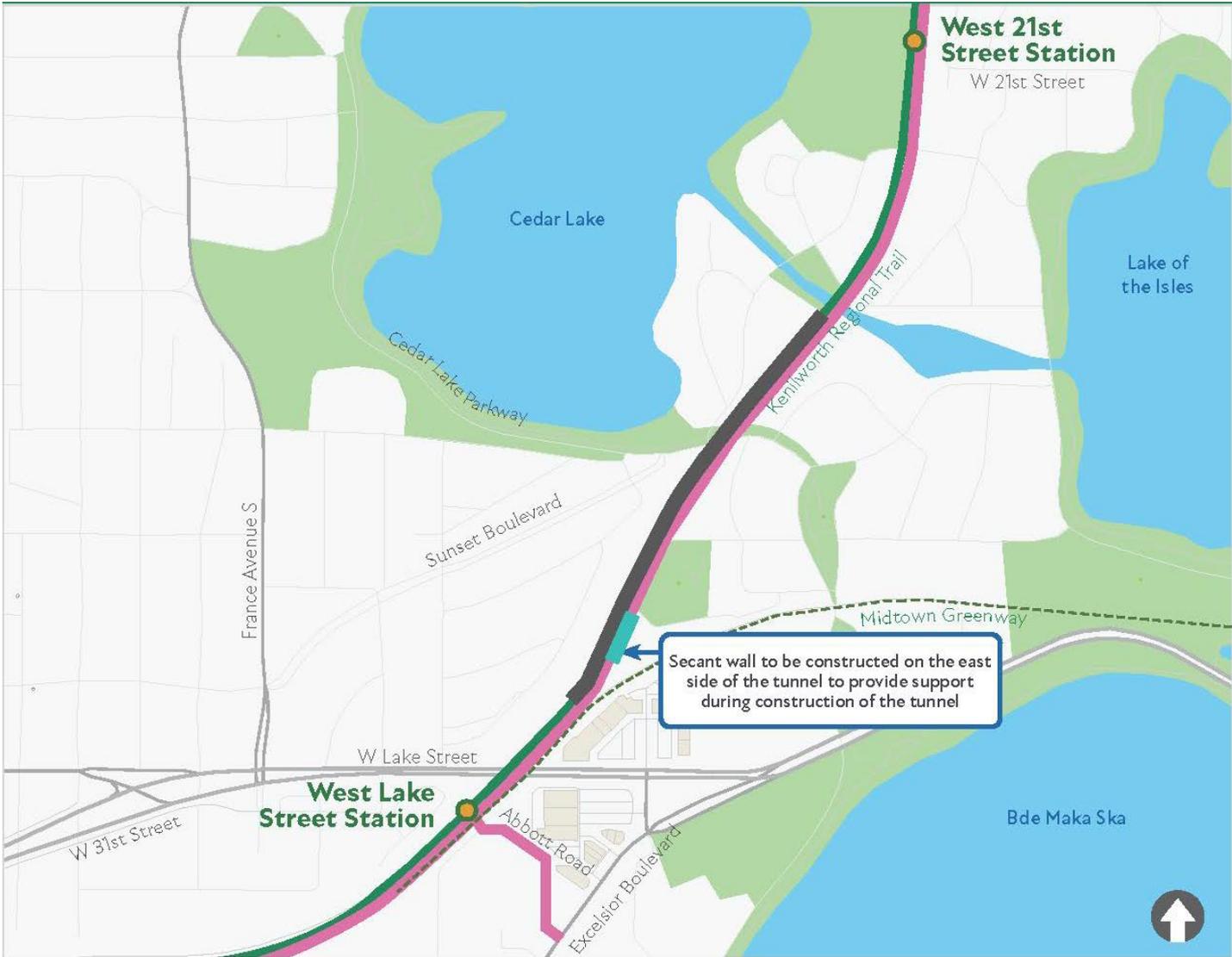
Corridor Protection Wall



Example of section near Bryn Mawr Meadows



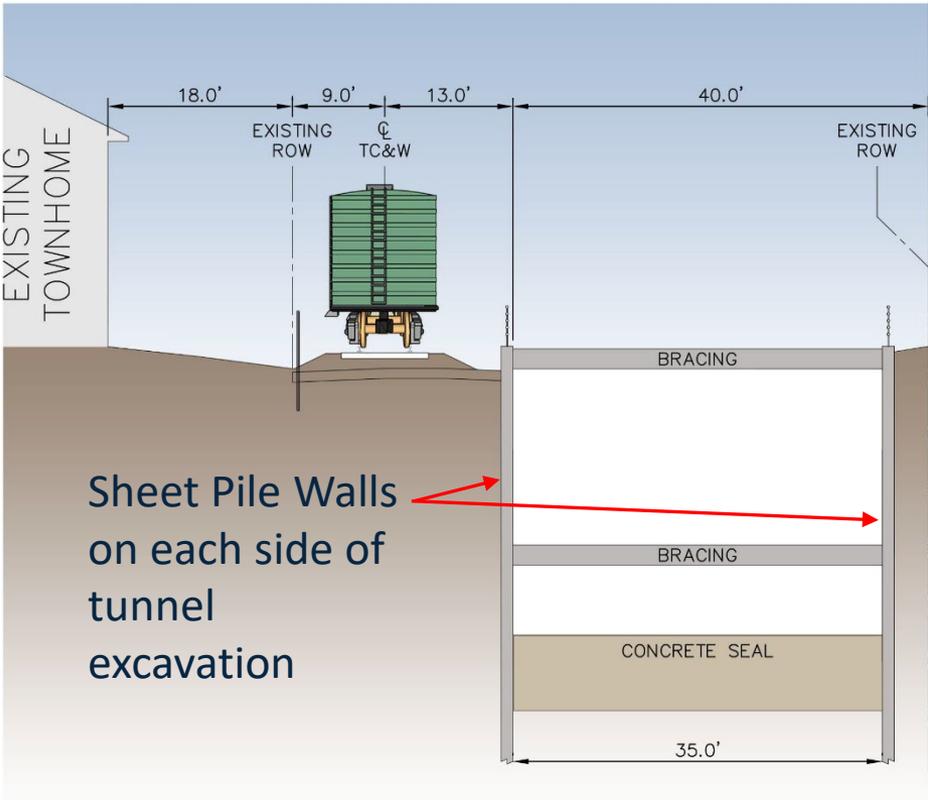
Secant Pile Wall



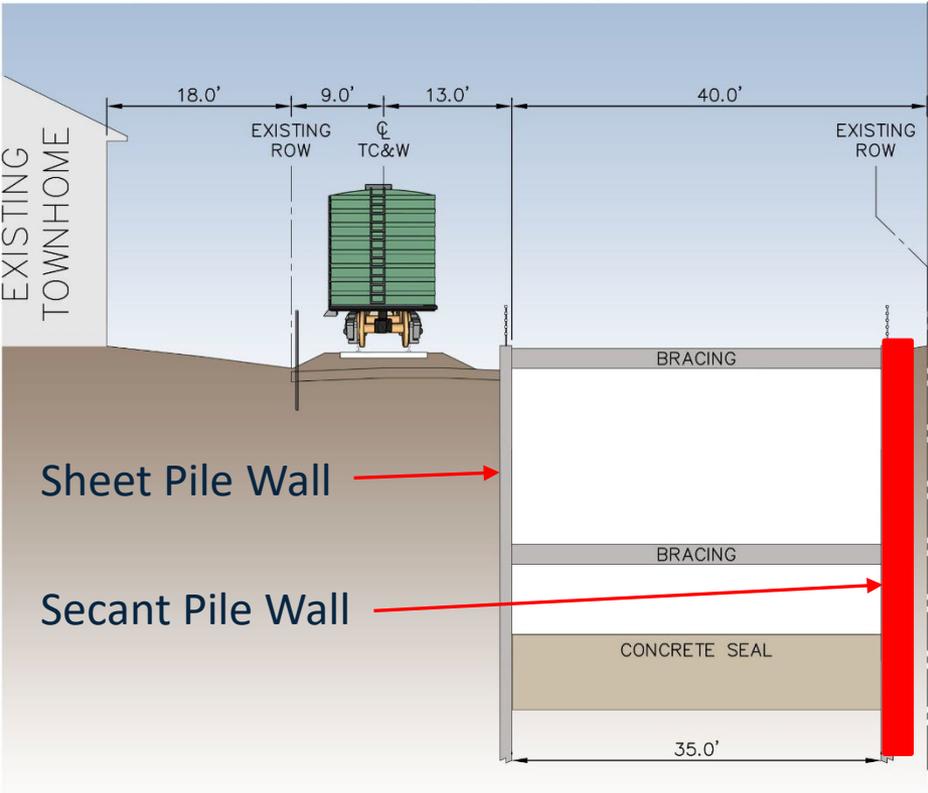
- LRT Station
- LRT Alignment
- Truck Hauling
- Tunnel
- Secant Wall

Kenilworth Tunnel Construction

Original Plan



Modified Plan at Cedar Isles Condominium and Parking Ramp



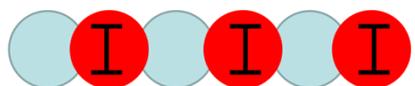
Sheet Pile Walls
on each side of
tunnel
excavation

Sheet Pile Wall
Secant Pile Wall

Sheet Pile Wall in Plan View

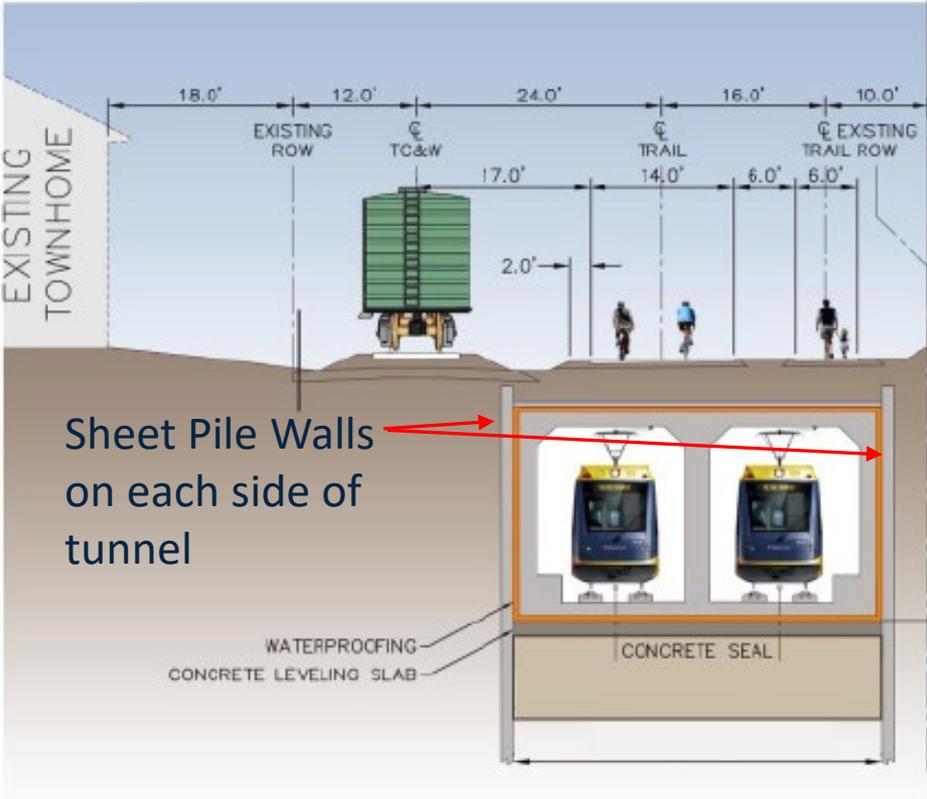


Secant Pile Wall in Plan View

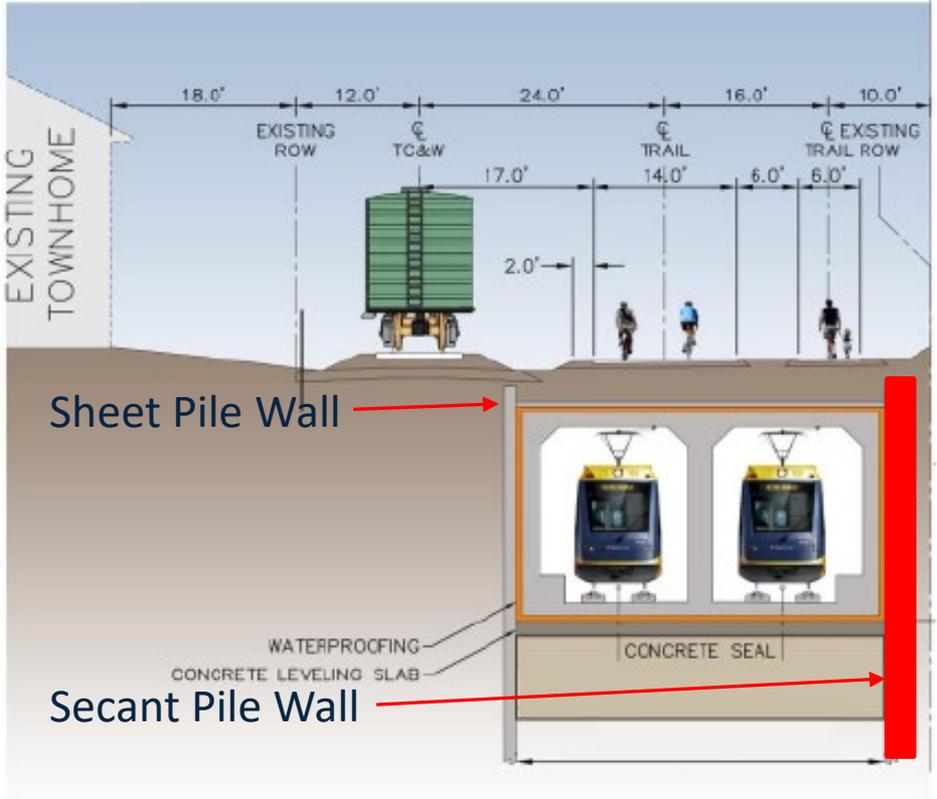


Kenilworth Tunnel Construction

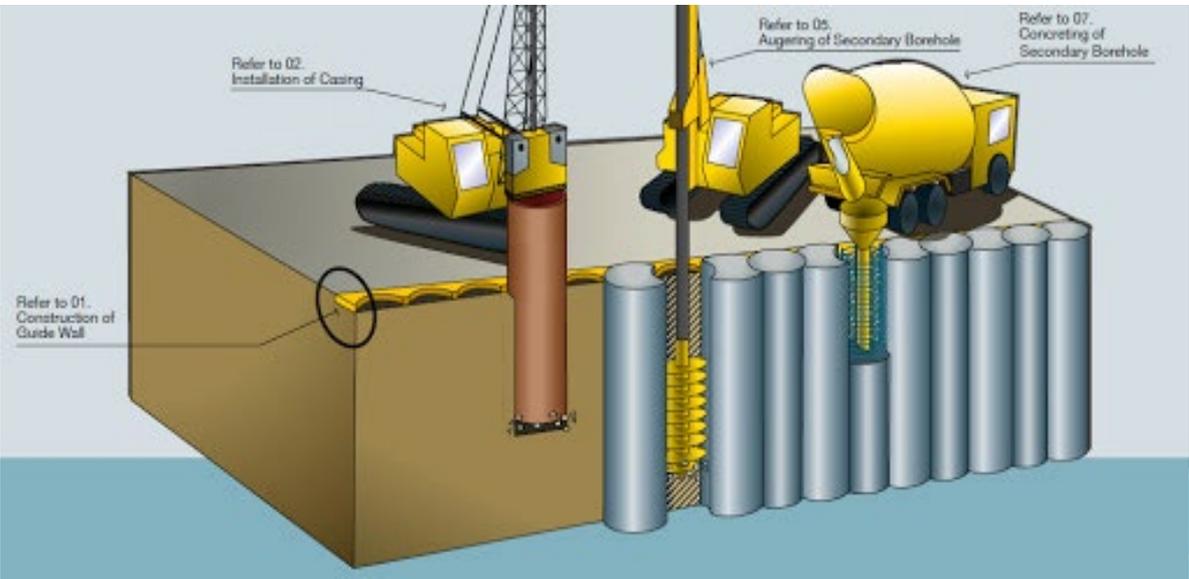
Original Plan



Modified Plan at Cedar Isles Condominium and Parking Ramp



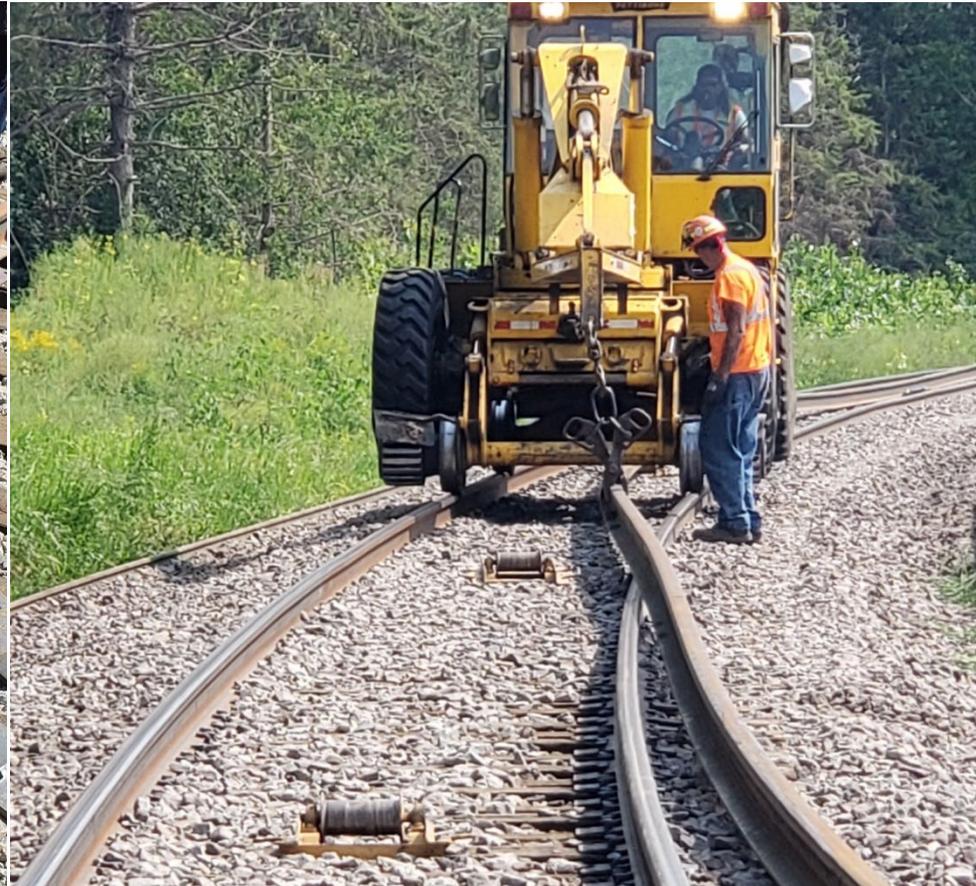
Example of Secant Wall Construction



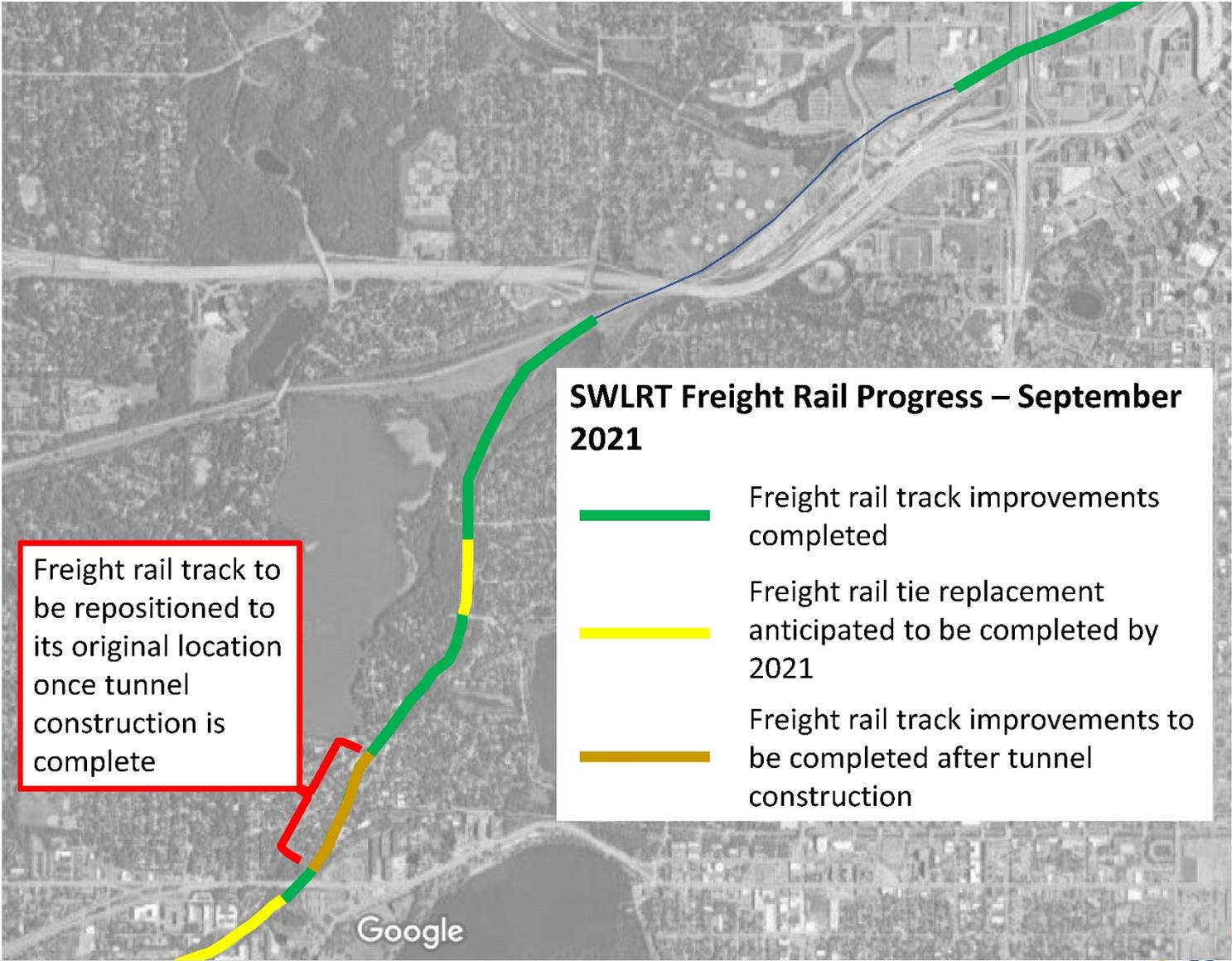
Kenilworth Area Construction Activities

Kenilworth Freight Rail Work

- Crews upgrading the freight rail near West Lake Street Station



Kenilworth Freight Rail Work

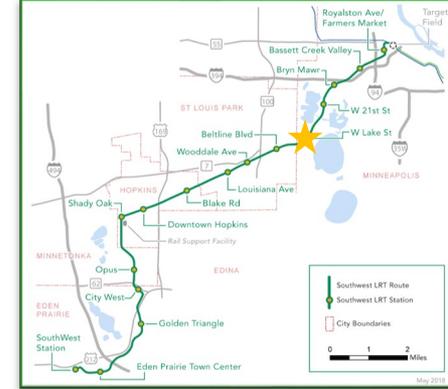


Kenilworth Freight Rail Work

- Anticipated Upcoming Work in 2021:
 - Tie replacement
 - Regular maintenance
- Challenges
 - Coordination with freight rail schedules during regular working hours
- Impacts to Community
 - Noise and occasional vibration from rail maintenance equipment, such as spiking and tamping, and material (ballast) transfer

West Lake Street Station Area

- Lightweight concrete for soil correction work where station platform will eventually be constructed

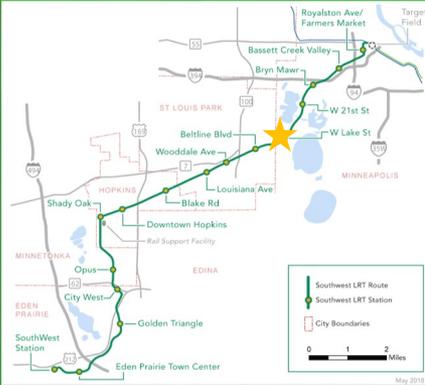


West Lake Street Station Area

- Anticipated Upcoming Work in 2021:
 - Station construction
 - Pier protection work at West Lake Street bridge
- Challenges
 - Coordination with freight rail
 - Coordination with private development construction
- Impacts to Community
 - Continued use of temporary trail facilities
 - Hauling traffic through Chowen/Abbott area
 - Constant noise and occasional vibration

Kenilworth LRT Tunnel

- Placement of concrete for the tunnel floor

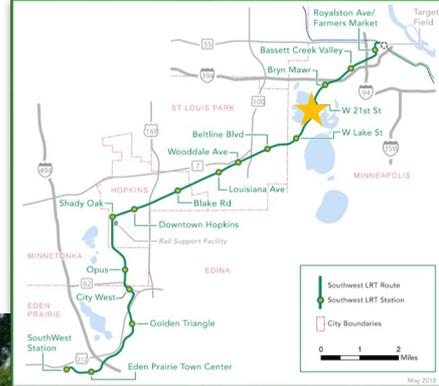


Kenilworth LRT Tunnel

- Anticipated Upcoming Work in 2021:
 - Jet-grouting
 - Excavation
 - Concrete (tunnel floor, walls, roof)
- Challenges
 - Access and space limitations
 - Water management
- Impacts to Community
 - Short-term closure of Cedar Lake Parkway
 - Hauling traffic
 - Constant noise and occasional vibration

Cedar Lake Channel/West 21st Street Station Area

- LRT Bridge Abutments & Deck Formwork

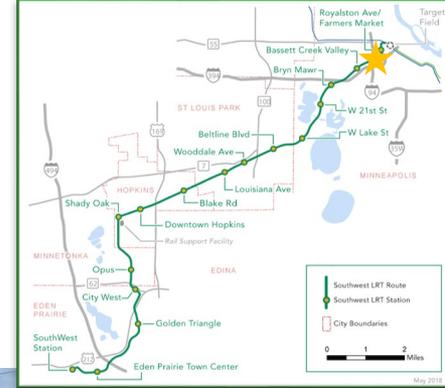


Cedar Lake Channel/W 21st St Station Area

- Anticipated Upcoming Work in 2021:
 - Cedar Lake Channel LRT bridge beam-setting
 - Excavation
 - Concrete placement
 - 21st Street Station construction
- Challenges
 - Close proximity to residences
 - Water management
- Impacts to Community
 - Short-term fall closure of Cedar Lake Channel, coordinated with MPRB
 - Occasional noise and vibration

Bryn Mawr Station Area

- Foreground: Excavation for Bryn Mawr pedestrian bridge pier foundation
- Background: Underground water utility relocation



Bryn Mawr Station Area

- Anticipated Upcoming Work in 2021:
 - Bryn Mawr Station construction
 - Corridor protection wall construction
- Challenges
 - Construction adjacent to and over freight rail
- Impacts to Community
 - High-vibration work on retaining walls
 - Continued use of temporary trail facilities
 - Hauling traffic intersecting with trail traffic
 - Noise for Kenwood and Bryn Mawr residents

Upcoming 2022 Construction Activities

- West Lake Street Station
 - Vertical circulation structures
- LRT Tunnel Construction
 - Long-term closure of Cedar Lake Parkway
- Cedar Lake Channel Trail Bridge
- 21st Street Station roadway work
- Bryn Mawr Station
 - Pedestrian bridge construction
 - Retaining walls
 - Short-term closure of Wayzata Boulevard and Penn Avenue for roadwork

Q&A

More Information

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