

# Metropolitan Council Business Item #2021-210

August 25, 2021







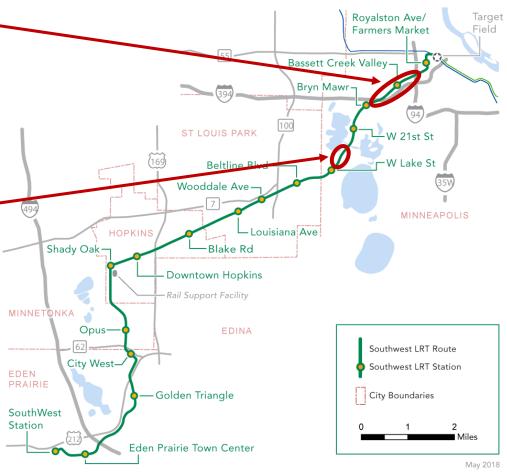


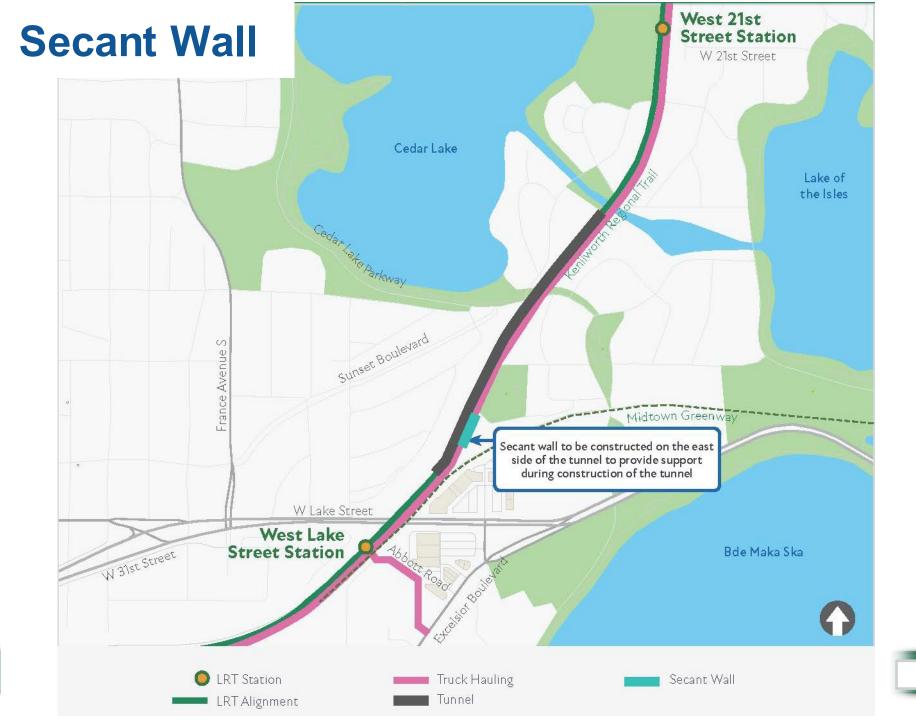




### **Civil Construction Challenges**

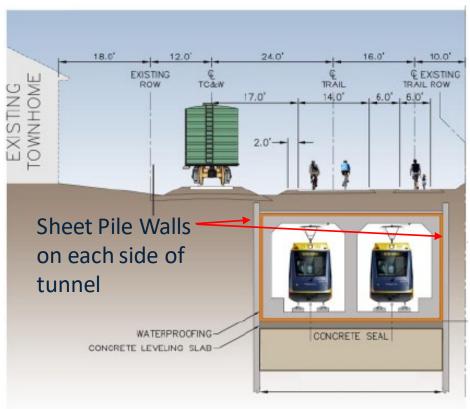
- Corridor Protection Wall
  - Required per BNSF agreement
  - Required environmental clearance which was completed after civil construction contracting
  - Added to the Civil Construction Contract by change order
- Secant Wall
  - Unforeseen soil conditions (settling during initial tunnel construction)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



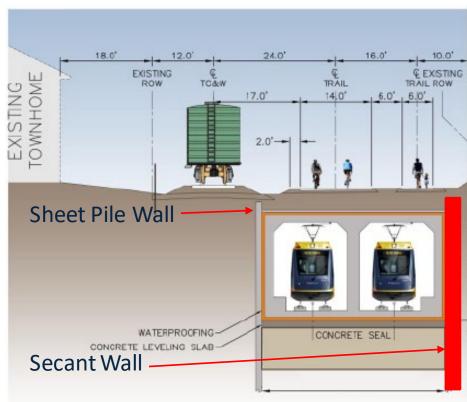


#### **Kenilworth Tunnel Construction**

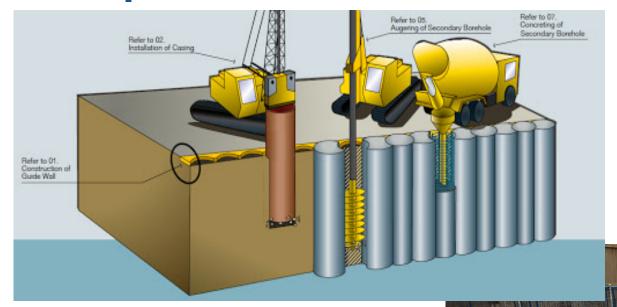
Original Plan



Modified Plan at Cedar Isles Condominium and Parking Ramp



## **Example of Secant Wall Construction**





Minneapolis: Kenilworth Tunnel





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