

Corridor Management Committee

September 7, 2016







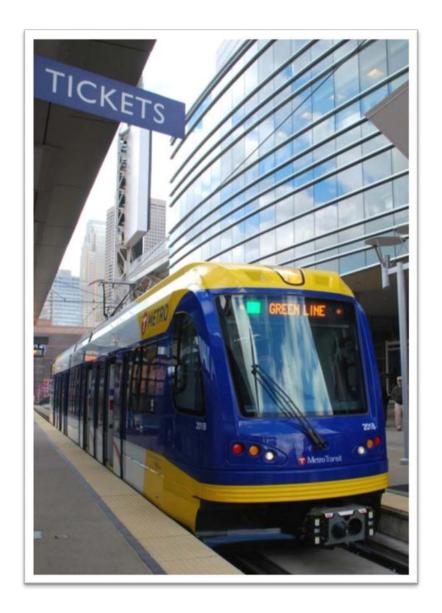






Today's Topics

- Chair's Update
- Project Update
 - Milestones achieved
 - Look ahead
- Construction Contracts
 Overview
- Next Meeting: Nov 2



Chair's Update

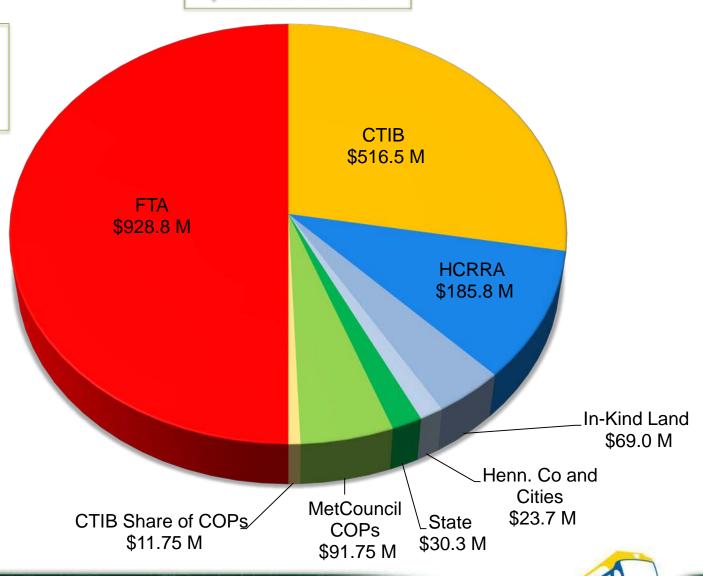


Funding Sources

September 2016

\$1.858 Billion

\$928.8 Million Local Funds Committed



What is a Certificate of Participation (COP)?

- A COP is a Revenue Agreement
 - The financial market provides upfront funds for project expenses
 - The Council agrees to make scheduled payments from revenues
- COP is not Debt
 - Investors rely upon the Council's credit history and expectation that Council will continue to annually budget funds and make scheduled payments



How Will COPs be Repaid

- \$103.5M Certificates of Participation
 - Up to \$91.75M from Transit Operating Revenues
 - At least \$11.75M from CTIB Revenues
- Annual Costs
 - \$4-5M Council Transit Operations
 - ~ \$600,000 CTIB



Project Update



Project Milestones Completed

- Environmental reviews complete
 - Final Environmental Impact Statement
 - Record of Decision
 - FEIS Determination of Adequacy
- 90% of engineering and design complete
- Light Rail Vehicle procurement in negotiations
- Funding commitments for 100% (\$928.8 M) of the local share complete
- Application for Entry into Engineering complete



Milestones Look Ahead:

Milestone	Rev. 10.0 Submitted 8/19/16
FTA Approves Entry into Engineering	Nov 2016
Complete 100% Design Package for Civil	Dec 2016
Submit FFGA Application	Early 2017
Complete 100% Design Package for Systems	March 2017
Complete 100% Design Package for OMF	May 2017
FTA Approves FFGA	July 2017
Heavy Construction	2017-2020
Revenue Service	2021

Construction Contracts Overview



5 Main Contracts

- Civil
- Systems
- Operations and Maintenance Facility (OMF)
- Light rail vehicles (LRV)
- Fare Collection



- 15 Stations
 - Vertical Stations
 - West Lake St.
 - Bryn Mawr
 - Bassett Creek Valley





- Park-and-rides
 - 7 Surface lots with a total of 1,747 spaces
 - 1 Ramp at SouthWest Station with 2 elevators



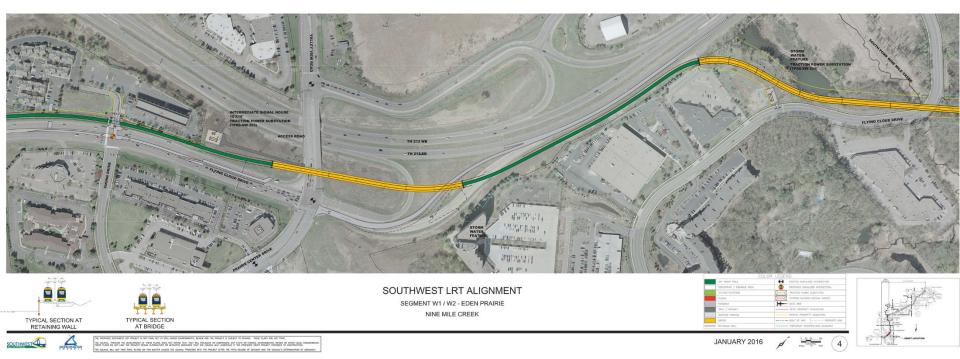




- 44 structures
 - 29 new bridges (LRT, Pedestrian, Roadway, Freight)
 - 7 existing bridges with modifications
 - 6 pedestrian tunnels
 - 2 cut and cover tunnels (TH62 582 ft., Kenilworth 2,236 ft)
- 110 retaining walls
- Track (153,440 TF)



Valley View and Nine Mile Creek Bridges





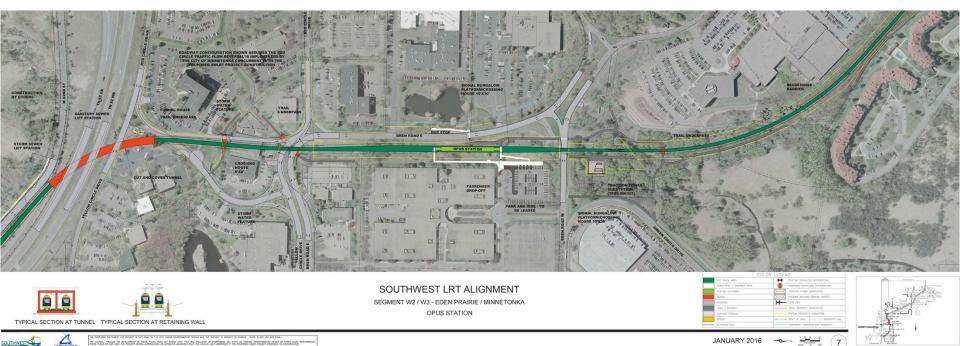
Valley View Bridge



Nine Mile Creek Bridge

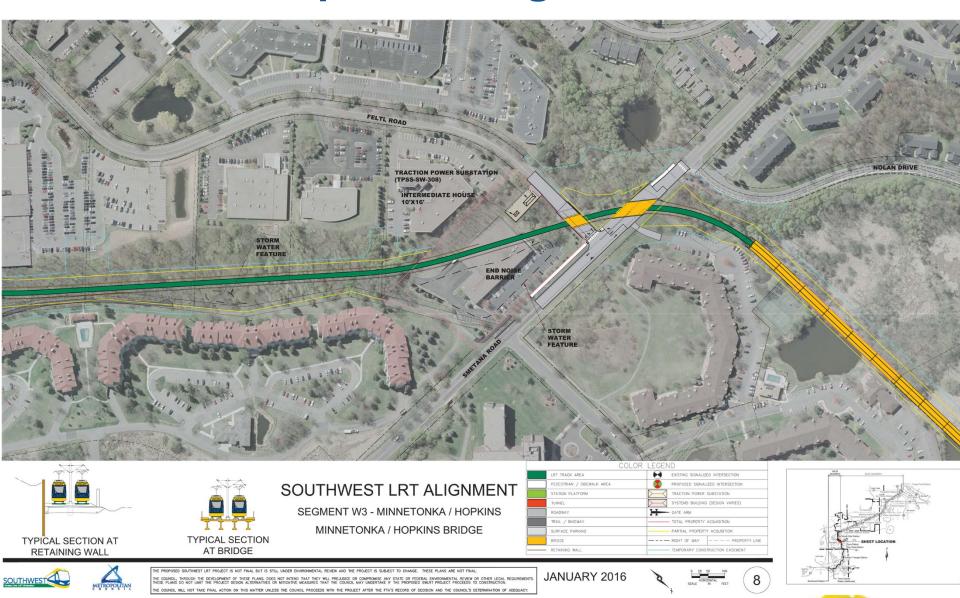


Tunnel Under TH 62





Minnetonka-Hopkins Bridge

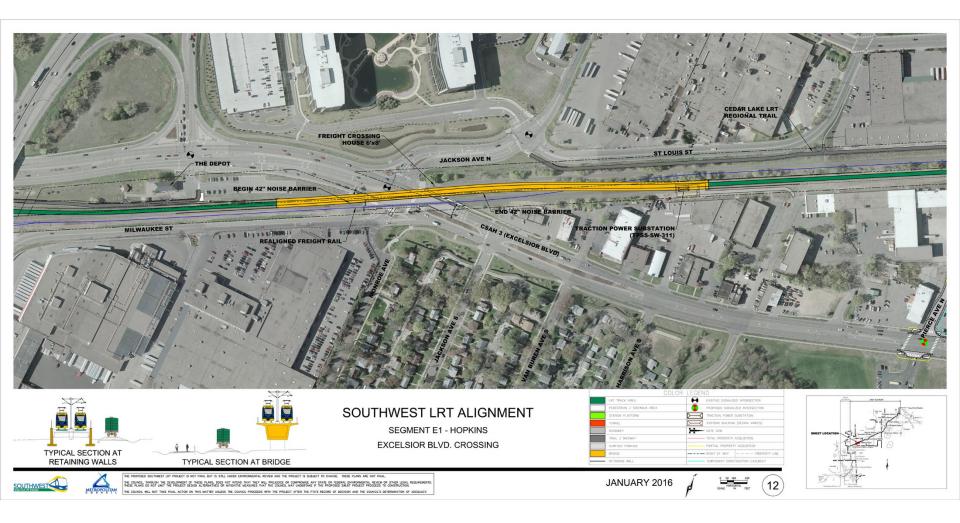




Minnetonka-Hopkins Bridge



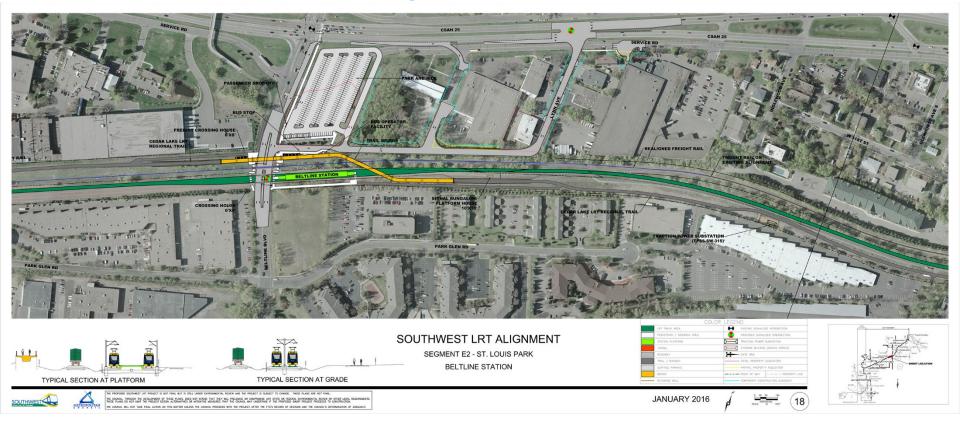
Excelsior Blvd Bridge



Excelsior Blvd Bridge



Beltline Boulevard Station





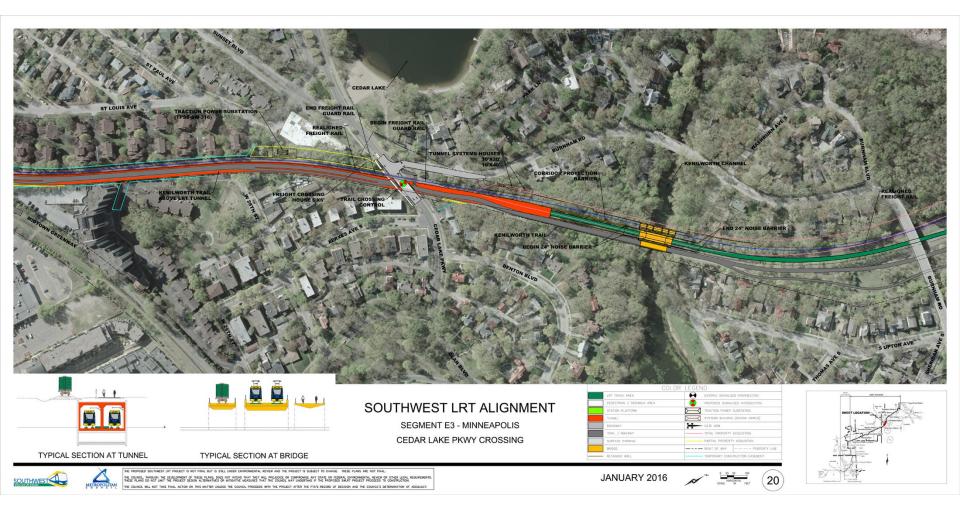
Beltline Boulevard Station

268 space surface park-and-ride lot





Kenilworth Corridor



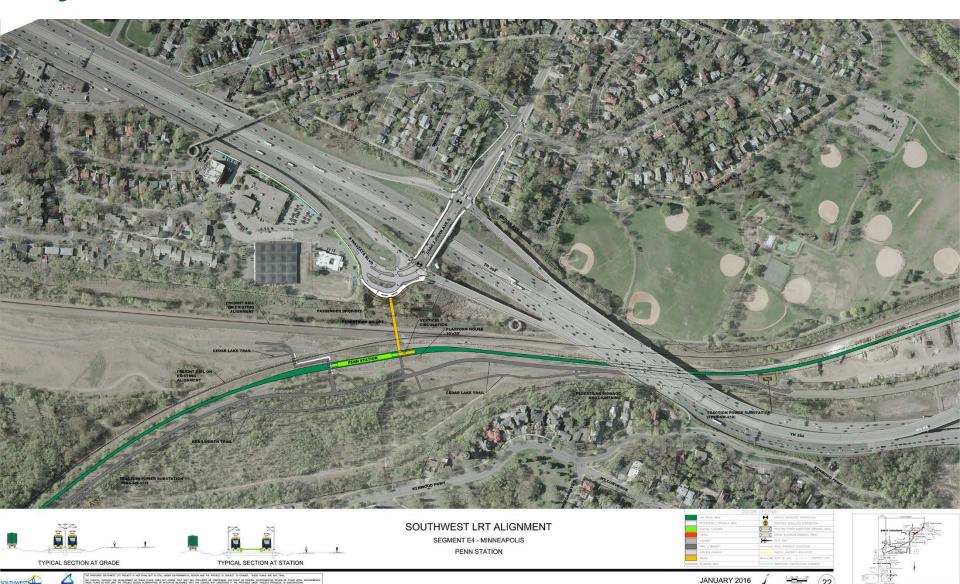


Kenilworth Corridor: North Portal





Bryn Mawr Station





Bryn Mawr Station

One elevator and pedestrian bridge from station platform to passenger drop off area at Penn Ave







- Demolition of 14 existing buildings
- Soil improvements
- Roadways and trails
- Systemwide cable trough/ductbank/foundations
- Utilities and drainage
- Urban design and landscaping
- Freight (BNSF, TCWR and CP)



Systems Contract



Systems Contract Scope

- Systems site work
- Traction power substations (TPSS)
 - 19 TPSS on main line
 - 2 at the OMF
- 3 Tunnel systems houses
 - 2 for Kenilworth tunnel
 - 1 for TH 62 tunnel
- Overhead contact system
- LRT and freight signaling systems
- Tunnel facilities systems
 - Tunnel power
 - Ventilation

- Communications systems
 - Supervisory Control and Data Acquisition (SCADA)
 - Rail Control Center (RCC)
 - Radio
 - Public Announcement/Variable Message Signs
 - Intrusion detection
 - Close Circuit TV (CCTV)
 - Emergency call boxes
 - Telephones
 - Building Management Systems
- SWLRT systems integration



Traction Power Substation





Signaling Systems





Security Features



Security camera



Emergency phone



OMF Contract

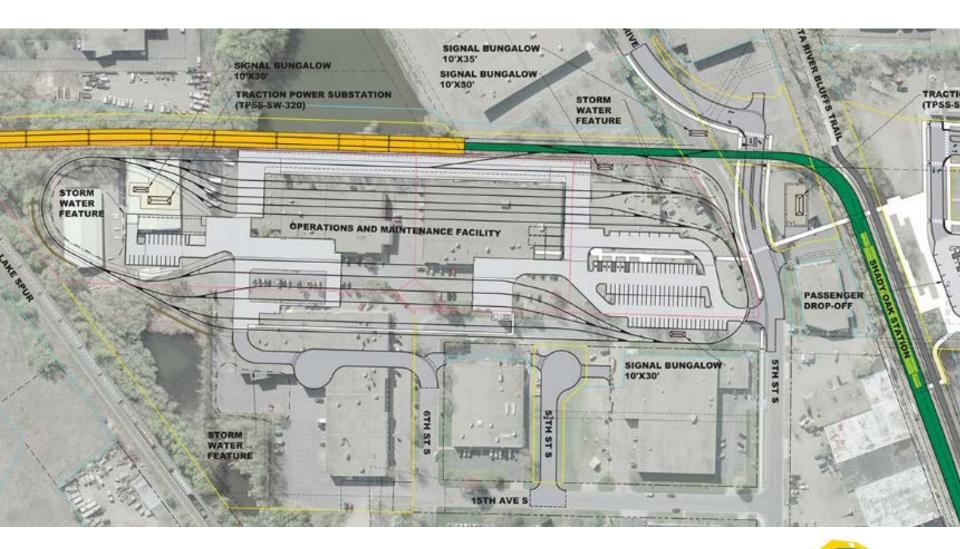


OMF Contract Scope: Construction

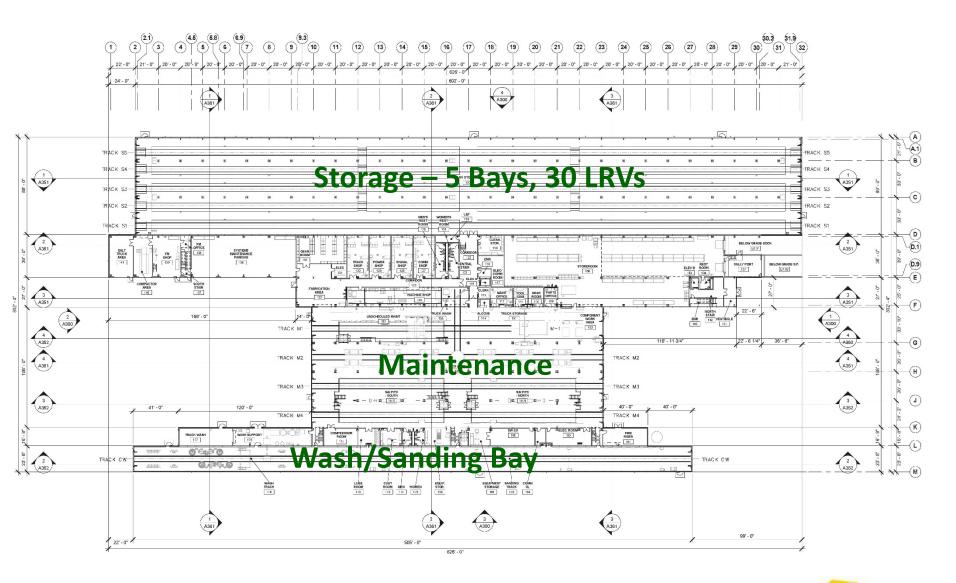
- Demolition of 6 existing buildings
- Soil improvements
- Yard track
- OMF building (2 story, 162,356 s.f.)
- Access roads
- Systemwide electrical cable trough/ductbank/foundations
- Utilities and drainage
- Urban design and landscaping



Operations and Maintenance Facility



Operations and Maintenance Facility Layout



Operations and Maintenance Facility



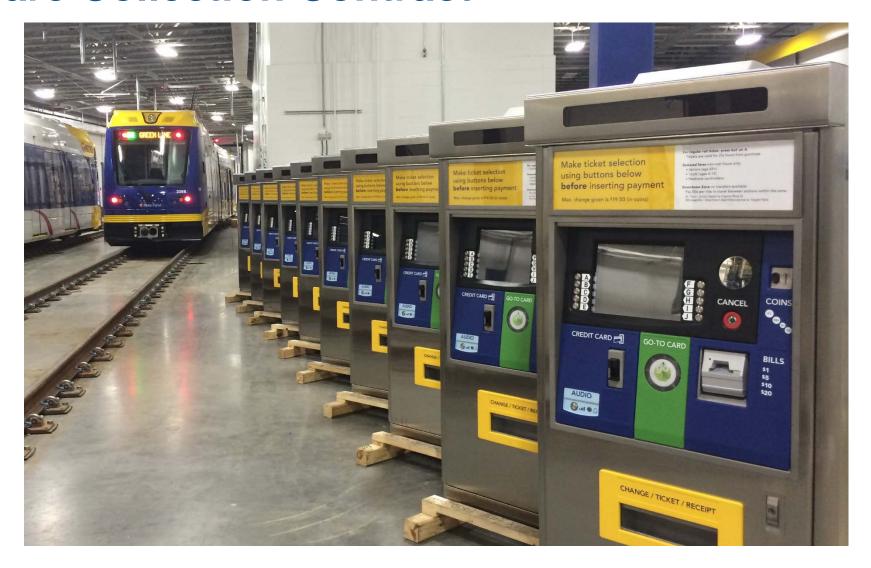
Light Rail Vehicles Contract



Light Rail Vehicles Scope

- Type III LRVs
 - Base order: 27
 - Options: Up to 50
- Evaluation: In progress with single proposer
- Limited Notice to Proceed: Q4 2016

Fare Collection Contract





Fare Collection Scope

- Ticket Vending Machines (TVM): 43
- Smart Card Validators: 66
- Conduit provided for 30 future TVMs in Civil contract

More Information

Online:

www.SWLRT.org

Email:

SWLRT@metrotransit.org

Twitter:

www.twitter.com/southwestlrt

