

SOUTHWEST

Green Line LRT Extension



# Committee of the Whole

February 15, 2017



EDEN PRAIRIE | MINNETONKA | EDINA | HOPKINS | ST. LOUIS PARK | MINNEAPOLIS

# Today's Topics

- Project Update
- Civil Construction Overview
  - Scope
  - Construction Outreach & Communications
  - DBE/Workforce



# Major Project Milestones

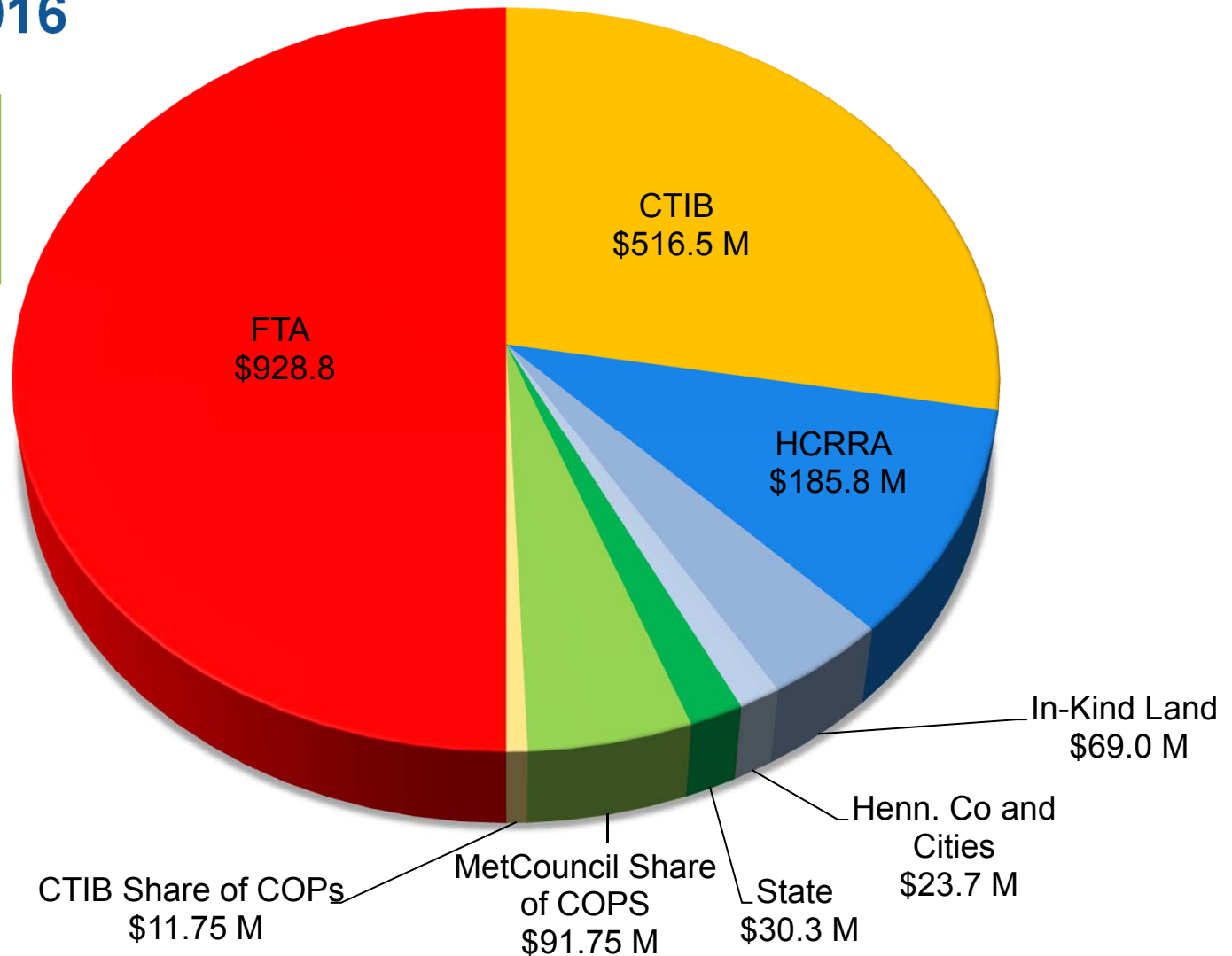
Element	Timeframe
Complete Civil Construction Package	January 2017
Complete Systems Construction Package	March 2017
Complete OMF Construction Package	May 2017
Anticipated Start of Civil Construction	Q3 2017
Anticipated Start of Systems Construction	Q3 2017
Anticipated Start of OMF Construction	Q3 2017
Full Funding Grant Agreement	Mid 2017
Heavy Construction	2017-2020
Revenue Service	2021

# Funding Sources

## September 2016

**\$1.858 Billion**

**\$928.8 Million  
Local Funds  
Committed**



# Civil Construction Overview

# Civil Contract Scope

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



# Civil Contract Scope

- Park-and-rides
  - 7 Surface lots with a total of 1,747 spaces
  - 1 Ramp at SouthWest Station: 450 spaces, 2 elevators



# Civil Contract Scope

- 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)
- 117 retaining walls
- 153,440 ft. of track
- Demolition of 14 existing buildings
- Soil improvements
- Roadways & trails
- Utilities & drainage
- Urban design & landscaping
- Freight (BNSF, TCWR & CP)



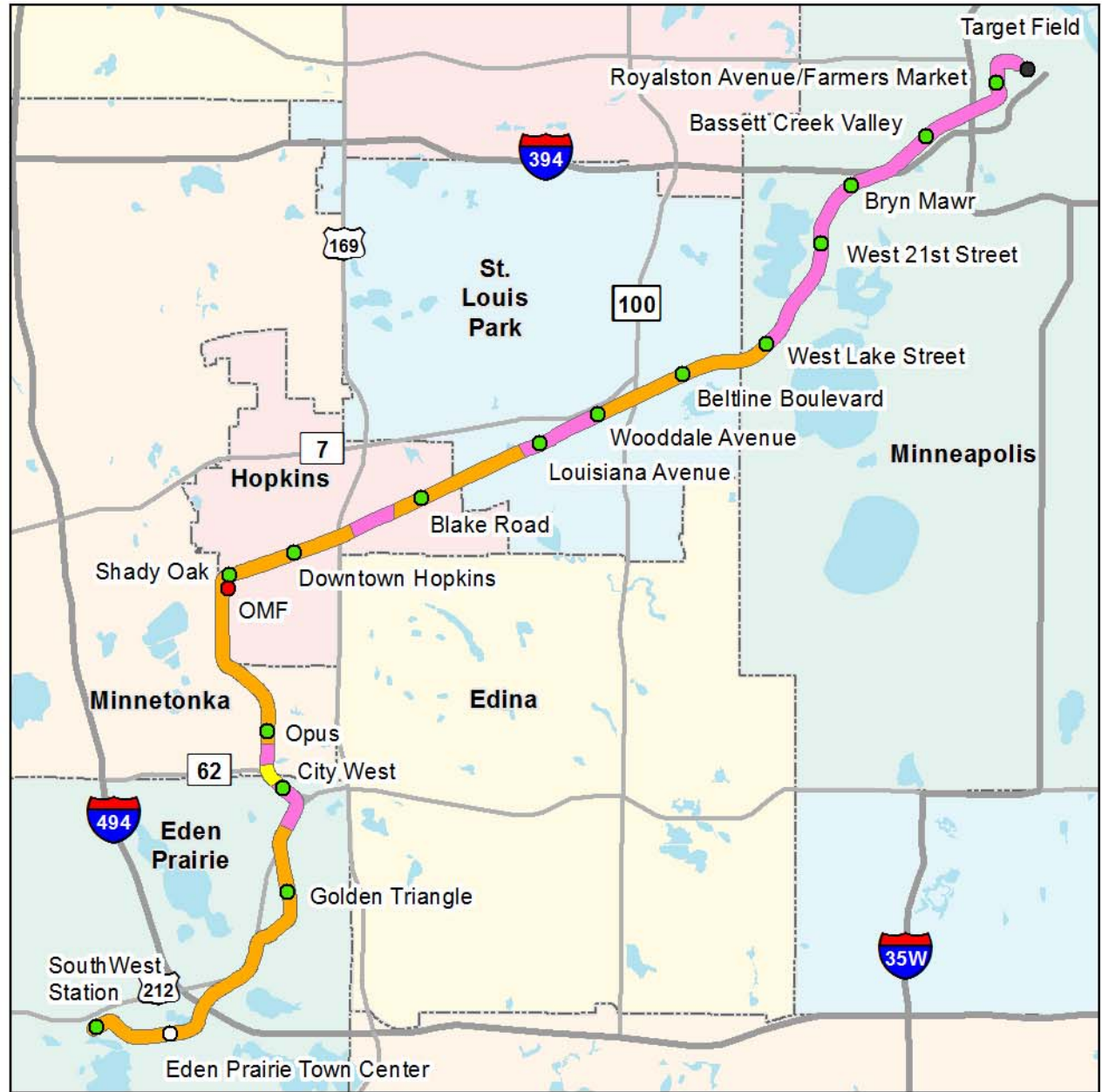
# Southwest LRT Construction Phasing

## LRT Stations

- New
- Deferred
- Existing

## Civil Construction Phasing

- Start: Second half of 2017  
Completion: Mid 2019
- Start: Second half of 2017  
Completion: Late 2019
- Start: Second half of 2017  
Completion: Early / Mid 2020
- Operation and Maintenance Facility (OMF)



# Construction Outreach and Communications

# Construction Outreach/Communications

- Best practices:
  - Outreach coordinators
  - Construction information workgroups
  - 24-hour hotline
  - Property/business owners meetings
  - Open houses/neighborhood meetings
  - Construction tours
  - Social media/website/media
  - Ads
  - Signage



# New Tools

- Construction cameras
- Construction tours
- Social media
- Mobile-friendly web tool



# Disadvantaged Business Enterprise & Workforce

# Project Goals

- DBE subcontracting goal for civil: 16%
- Workforce participation goals:
  - 32% minority
  - 6% female
- SWLRT DBE achievement to date:
  - 9 professional services contracts: \$165 million
  - Goals range from 15% -19%
  - \$20 million DBE work completed: 17.22%



# DBE/Workforce Outreach

- Jan 10: Great Minds Workshop
  - Brainstormed barriers to participation
  - Discussed strategies to increase participation
- Workgroups scheduled for February 21 & 22
- Create joint DBE/Workforce Oversight Committee



# Workforce Outreach

- Coordination with trade unions, schools, training organizations
- Developing a LRT MNCAP training program
- Creating a job seeker database registration





# More Information

Online:

[www.SWLRT.org](http://www.SWLRT.org)

Email:

[SWLRT@metrotransit.org](mailto:SWLRT@metrotransit.org)

Twitter:

[www.twitter.com/southwestlrt](http://www.twitter.com/southwestlrt)

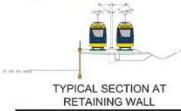


# Back-up Slides

# Valley View and Nine Mile Creek Bridges



**SOUTHWEST LRT ALIGNMENT**  
SEGMENT W1 / W2 - EDEN PRAIRIE  
NINE MILE CREEK



COLOR KEY

Green	10' TRACK AREA	Red	EXISTING SHARED RIGHT-OF-WAY
Light Green	PROPOSED / EXISTING AREA	Orange	PROPOSED SHARED INTERSECTION
Yellow	EXISTING ROADWAY	Blue	STATION POWER SUBSTATION
Red	ROAD	White	STATION BUILDING (OPTIONAL) AREA
Orange	STATION	Black	DATE LINE
Blue	STATION POWER SUBSTATION	Yellow	EXISTING PROPERTY ACQUISITION
White	STATION BUILDING (OPTIONAL) AREA	Yellow	PROPOSED PROPERTY ACQUISITION
Black	DATE LINE	Black	RIGHT OF WAY
Yellow	EXISTING PROPERTY ACQUISITION	Black	PROPERTY LINE
Yellow	PROPOSED PROPERTY ACQUISITION	Black	PROPERTY LINE
Black	RIGHT OF WAY	Black	PROPERTY LINE
Black	PROPERTY LINE	Black	PROPERTY LINE



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THE PROPOSED SOUTHWEST LRT PROJECT IS NOT FINAL, BUT IS STILL UNDER ENVIRONMENTAL REVIEW AND THE PROJECT IS SUBJECT TO CHANGE. THESE PLANS ARE NOT FINAL. THE PLANS AND DESIGN OF THIS PROJECT ARE SUBJECT TO CHANGE WITHOUT NOTICE AND THE DESIGN AND CONSTRUCTION OF THIS PROJECT IS SUBJECT TO CHANGE. THE DESIGN WILL BE FINAL AFTER THE NEPA PROCESS AND THE PROJECT AFTER THE PERMITS PROCESS AND THE DESIGN'S SYNCHRONIZATION OF AGREEMENT.

# Valley View Bridge

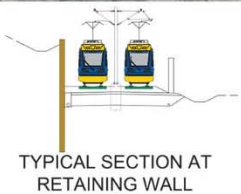
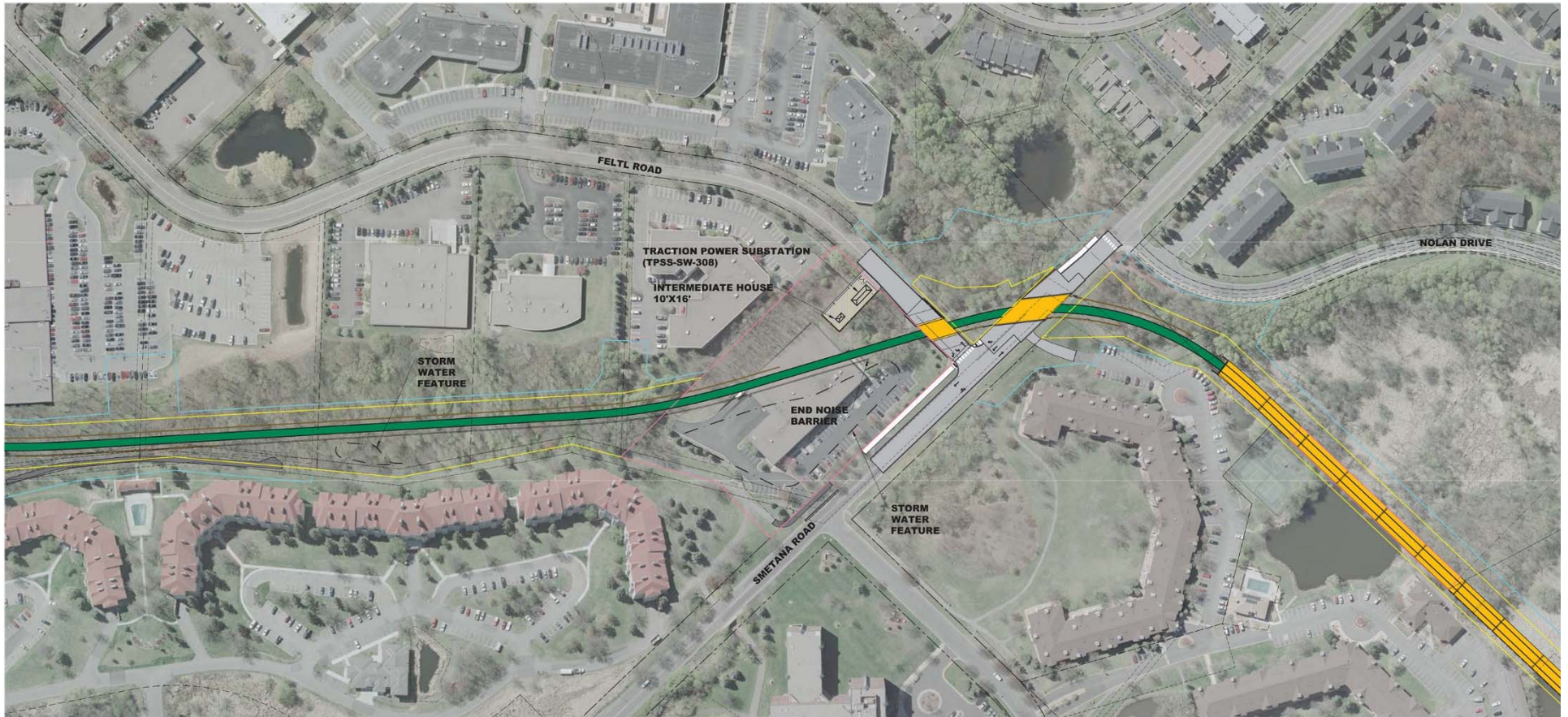


# Nine Mile Creek Bridge





# Minnetonka-Hopkins Bridge



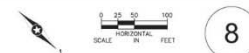
## SOUTHWEST LRT ALIGNMENT SEGMENT W3 - MINNETONKA / HOPKINS MINNETONKA / HOPKINS BRIDGE

COLOR LEGEND			
	LRT TRACK AREA		EXISTING SIGNALIZED INTERSECTION
	PEDESTRIAN / SIDEWALK AREA		PROPOSED SIGNALIZED INTERSECTION
	STATION PLATFORM		TRACTION POWER SUBSTATION
	TUNNEL		SYSTEMS BUILDING (DESIGN VARIES)
	ROADWAY		GATE ARM
	TRAIL / BIKEWAY		TOTAL PROPERTY ACQUISITION
	SURFACE PARKING		PARTIAL PROPERTY ACQUISITION
	BRIDGE		RIGHT OF WAY
	RETAINING WALL		PROPERTY LINE
			TEMPORARY CONSTRUCTION EASEMENT



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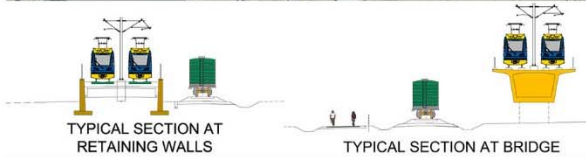
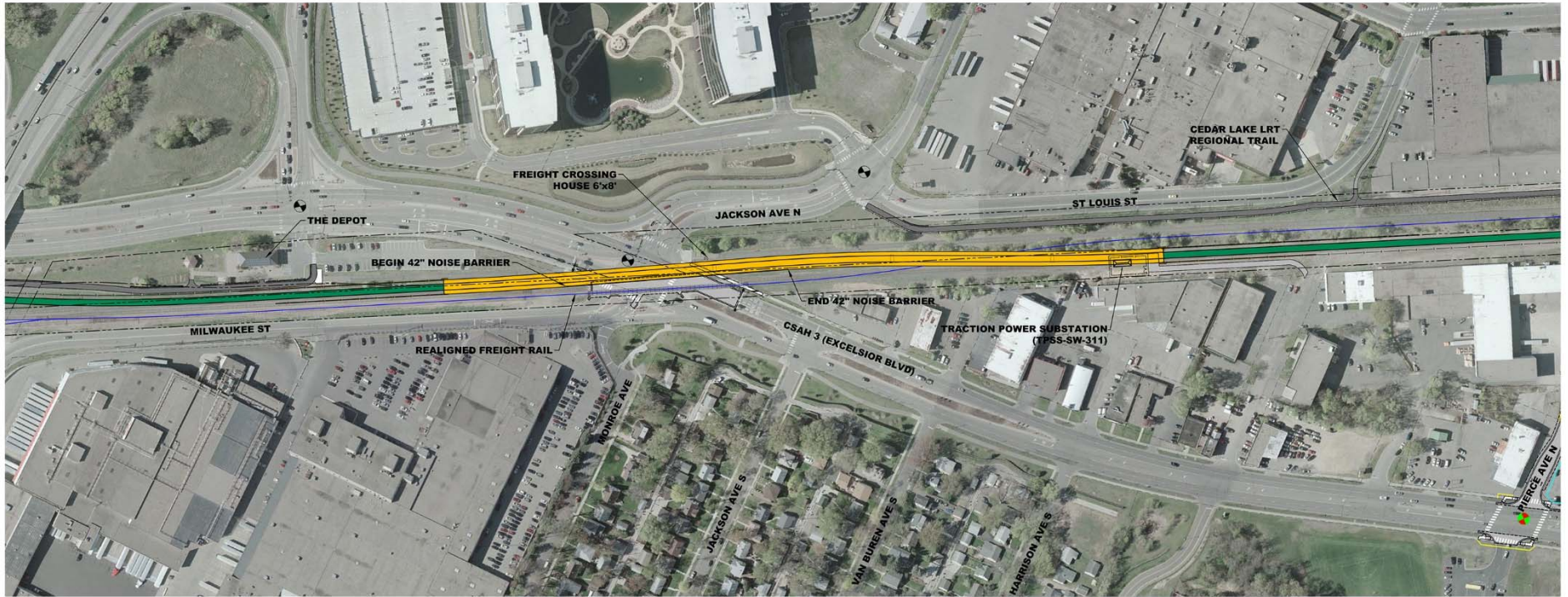
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# Minnetonka-Hopkins Bridge



# Excelsior Blvd Bridge



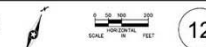
## SOUTHWEST LRT ALIGNMENT SEGMENT E1 - HOPKINS EXCELSIOR BLVD. CROSSING

COLOR LEGEND	
[Green Box]	LRT TRACK AREA
[Light Green Box]	PEDESTRIAN / SIDEWALK AREA
[Yellow Box]	STATION PLATFORM
[Red Box]	TUNNEL
[Grey Box]	ROADWAY
[Blue Box]	TRAIL / BIWAY
[Orange Box]	SURFACE FINISH
[Yellow Box]	BRIDGE
[Black Box]	RETAINING WALL
[Green Circle]	EXISTING SIGNALIZED INTERSECTION
[Red Circle]	PROPOSED SIGNALIZED INTERSECTION
[Black Square]	TRACTION POWER SUBSTATION
[Black Square]	SYSTEMS BUILDING (DESIGN VARIET)
[Black Square]	GATE ARM
[Red Line]	TOTAL PROPERTY ACQUISITION
[Yellow Line]	PARTIAL PROPERTY ACQUISITION
[Dashed Line]	RIGHT OF WAY
[Dotted Line]	PROPERTY LINE
[Blue Line]	TEMPORARY CONSTRUCTION EASEMENT



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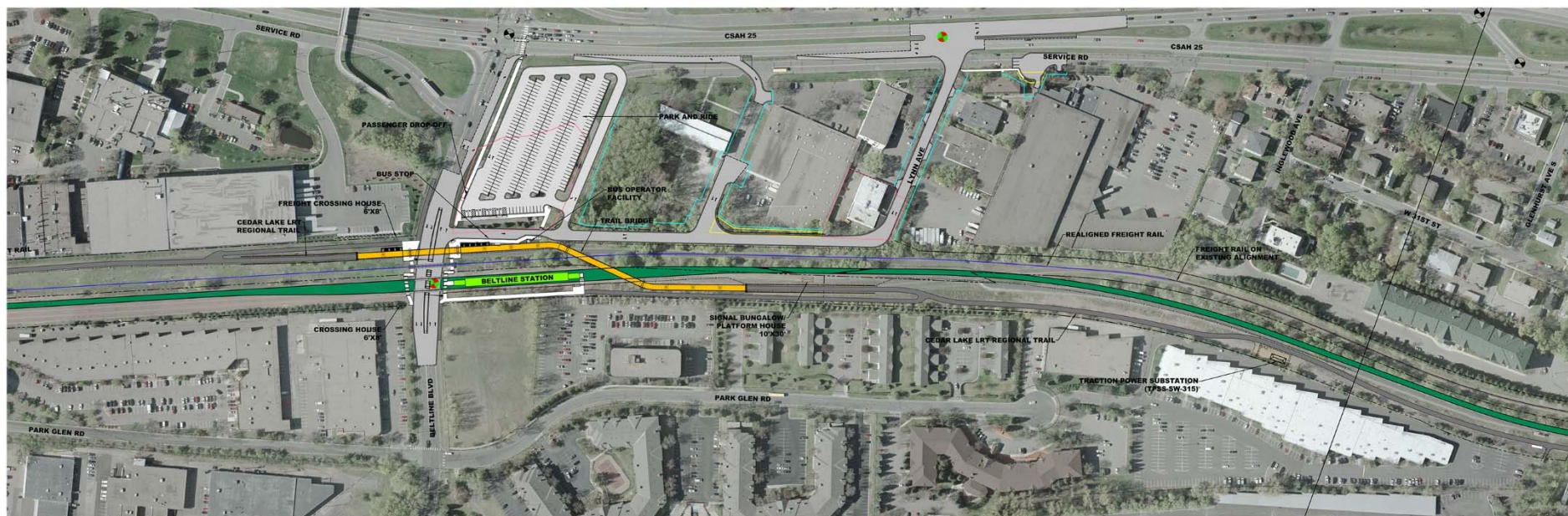




# Excelsior Blvd Bridge



# Beltline Boulevard Station



**SOUTHWEST LRT ALIGNMENT**  
SEGMENT E2 - ST. LOUIS PARK  
BELTLINE STATION

COLOR LEGEND	
[Green line]	LRT TRACK AREA
[Light green area]	BIKEWAY / SIDEWALK AREA
[Red area]	STATION PLATFORM
[Yellow area]	SIGNAL
[Grey area]	ROADWAY
[Blue area]	TRAIL / BIKEWAY
[Orange area]	SURFACE PARKING
[Light blue area]	BRIDGE
[Dark blue area]	RETAINING WALL
[Red circle with black dot]	EXISTING SIGNALIZED INTERSECTION
[Red circle with red dot]	PROPOSED SIGNALIZED INTERSECTION
[Black rectangle]	TRACTION POWER SUBSTATION
[Black rectangle with 'S']	SYSTEM BUILDING DESIGN (SMBD)
[Red dashed line]	USE OF WAY
[Yellow dashed line]	TOTAL PROPERTY ACQUISITION
[Orange dashed line]	PARTIAL PROPERTY ACQUISITION
[Blue dashed line]	RIGHT OF WAY
[Light blue dashed line]	PROPERTY USE
[Light green dashed line]	TEMPORARY CONSTRUCTION EASEMENT



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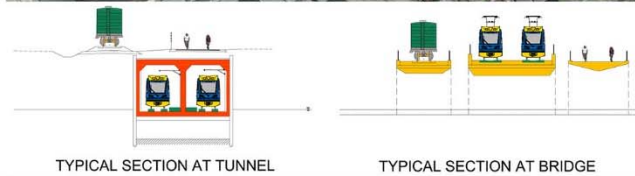
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# Beltline Boulevard Station

- 268 space surface park-and-ride lot



# Kenilworth Corridor



**SOUTHWEST LRT ALIGNMENT**  
SEGMENT E3 - MINNEAPOLIS  
CEDAR LAKE PKWY CROSSING

COLOR LEGEND	
[Green Box]	LRT TRACK AREA
[White Box]	PEDESTRIAN / SIDEWALK AREA
[Yellow Box]	STATION PLATFORM
[Red Box]	TUNNEL
[Orange Box]	ROADWAY
[Grey Box]	TRAIL / BIKEWAY
[Yellow Box]	SURFACE PAVING
[Orange Box]	BRIDGE
[Grey Box]	RETAINING WALL
[Green Circle]	EXISTING SIGNALIZED INTERSECTION
[Red Circle]	PROPOSED SIGNALIZED INTERSECTION
[Green Square]	TRACTION POWER SUBSTATION
[Yellow Square]	SYSTEMS BUILDING (DESIGN VARIES)
[Black Line]	GATE ARM
[Red Line]	TOTAL PROPERTY ACQUISITION
[Orange Line]	PARTIAL PROPERTY ACQUISITION
[Dashed Line]	RIGHT OF WAY
[Dotted Line]	PROPERTY LINE
[Blue Line]	TEMPORARY CONSTRUCTION EASEMENT



**SOUTHWEST METROPOLITAN**

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SCALE: HORIZONTAL 1" = 100' VERTICAL 1" = 10'

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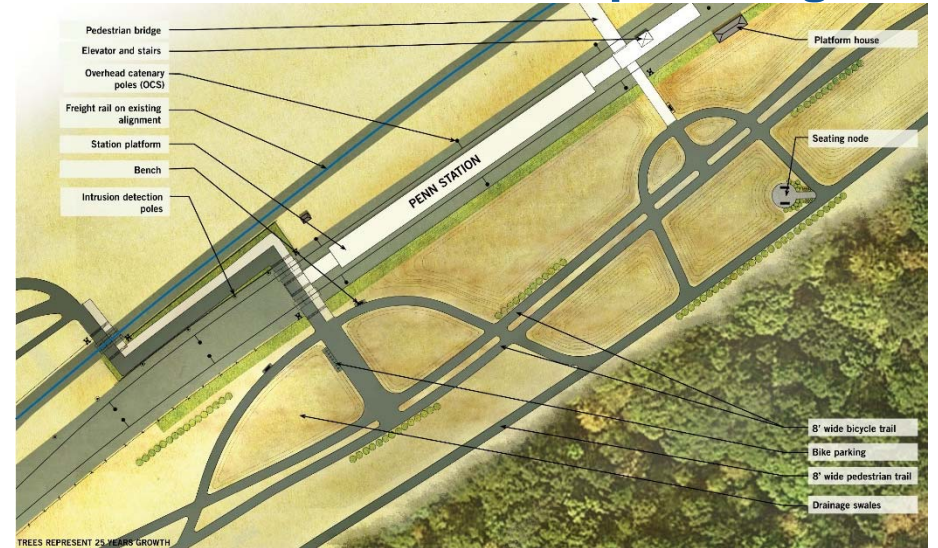
# Kenilworth Corridor: Landscaping Plan



## View Towards 21<sup>st</sup> Street Station



## Penn Station Landscape Design



# Kenilworth Corridor: North Portal





# Bryn Mawr Station

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

