

## Corridor Management Committee Meeting

March 12, 2014







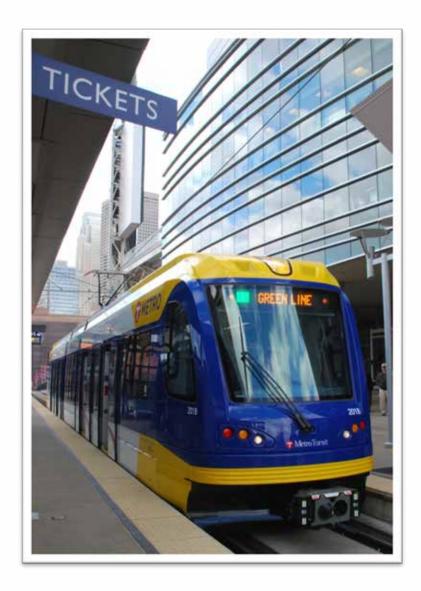






#### **Today's Topics**

- Welcome
- Resolution Thanking Commissioner Dorfman
- October 9, 2013 CMC Project Scope and Budget Recap
- Resolution of Support: Downtown Hopkins Station
- Southwest Station Update
- Responses to February 20 CMC Meeting
- Shallow Tunnel Update
- Surface Transportation Board Staff Meeting Update
- Railroad/Shippers' Comments
- Communications/Outreach Update
- Adjourn





# October 9, 2013 CMC Project Scope and Budget Recap

#### **SWLRT Project Development Technical Issues**

Revision 04: 28 May 2013

#### Technical Issues:

- 1. Eden Prairie Alignment
- 2. Nine Mile Creek Crossing
- 3. Golden Triangle Station
- Shady Oak Road & TH 212 Crossing
- 5. City West Station & TH 62 Crossing
- 6. Opus Station
- 7. Opus Hill/Minnetonka-Hopkins Bridge
- 8. Shady Oak Station

#### 9. PEC West/PEC East Interface Point

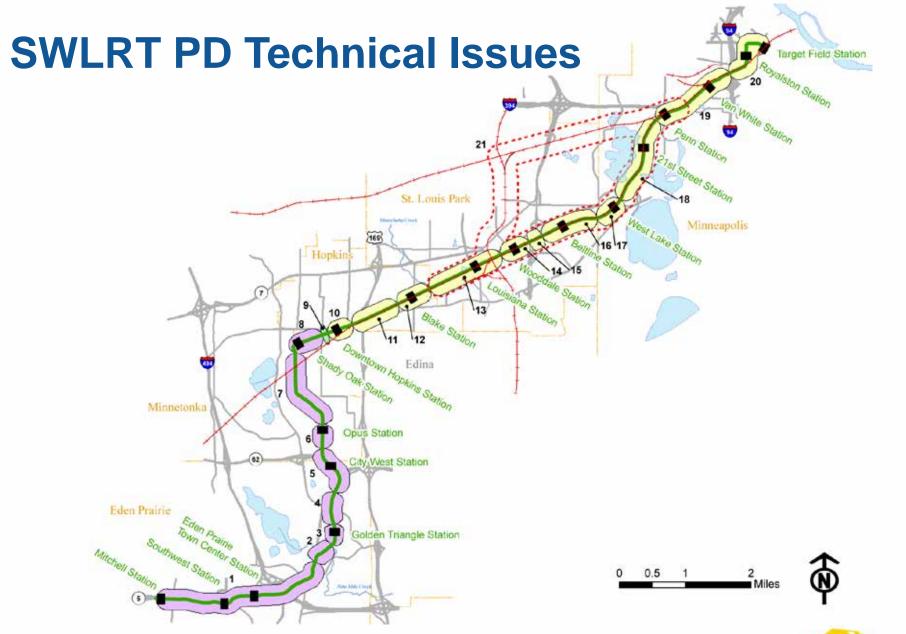
- 10. Downtown Hopkins Station
- 11. Excelsior Blvd. Crossing
- 12. Blake Station
- 13. Louisiana Station
- 14. Wooddale Station
- 15. TH 100
- 16. Beltline Station
- 17. West Lake Station
- 18. Kenilworth Corridor
- 19. Bassett Creek Valley Corridor
- 20. Royalston Station/Interchange Project Coordination
- 21. Freight Rail Co-location/Relocation Alternatives

PEC West
PEC East
Joint PEC West/PEC East

#### System-wide Technical Issues (not shown):

- 22. Traction Power Substation and Signal Bungalow Locations
- 23. Operation & Maintenance Facility (OMF) Location
- 24. Park & Ride, Kiss & Ride and Bus Layover Locations
- 25. Trails and LRT Interface Coordination







#### **Technical Issues: 2-20, 22, 24 and 25**

 At it's October 9 meeting, the CMC voted to recommend to the Council as presented to the CMC on August 7 and August 28, 2013



#### **Technical Issues: 2013 CMC Actions**

- At it's September 4 meeting, the CMC voted to recommend to the Council:
  - § TI #1: Eden Prairie Alignment: Comp Plan Alignment to Southwest Station
  - § TI #21: Removal of the Deep Bore LRT Tunnel option from further consideration
- At it's September 11 meeting, the CMC voted to recommend to the Council:
  - § TI #23: Hopkins Site 9A for the OMF location
- At it's October 9 meeting, the CMC voted to recommend to the Council:
  - § TI #21: Shallow LRT tunnels through the Kenilworth Corridor



#### **Project Budget Recommendation**

SWLRT Base Project

\$1.390 B

Freight Rail

Common Elements

\$.090 B

Kenilworth Shallow LRT Tunnel

\$.160 B

Scope/Cost Reductions

(\$.087 B)

SWLRT Adjusted Budget

\$1.553 B\*

\*Includes 27% contingency allowance



# TI #23: Operations and Maintenance Facility (OMF) Update

#### **Hopkins: Downtown Hopkins Station**

- Provide additional amenities
  - § Landscape and hardscape elements
  - § Enhanced bike facilities
- Prioritize additional civic plaza elements as contingency funds are available
- Identify non-project funding to help implement the ARTery project along 8th Ave from the station platform to Mainstreet

#### **Downtown Hopkins Station**

- Parking facility incorporates TOD redevelopment opportunities
- Compliments historic Mainstreet district and ARTery plans
- Improves pedestrian and bicycle facilities
- Proposed \$7 M CMAQ grant is matched with \$1.75 M of local funds





# Resolution of Support: Downtown Hopkins Station CMAQ Funding Request

## **TI #1: Southwest Station Update**

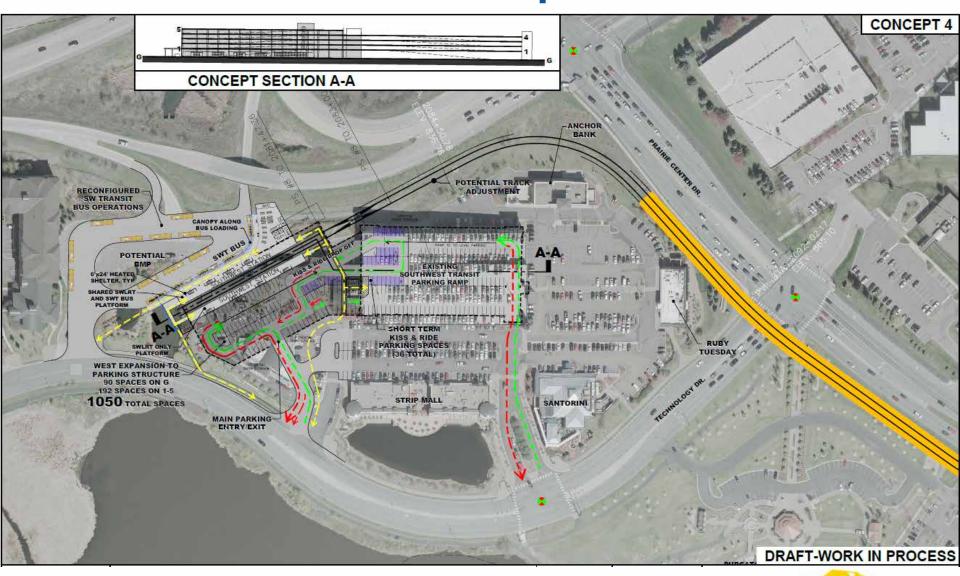


#### October 9, 2013 CMC Resolution

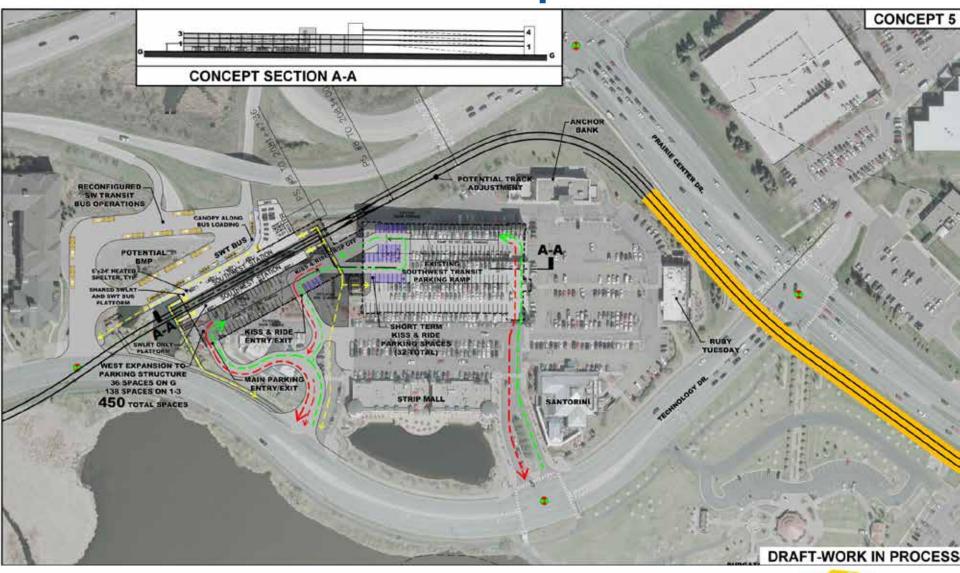
 Calls on SPO to design SWLRT so as not to preclude a future LRT extension from Southwest Station to Mitchell Road



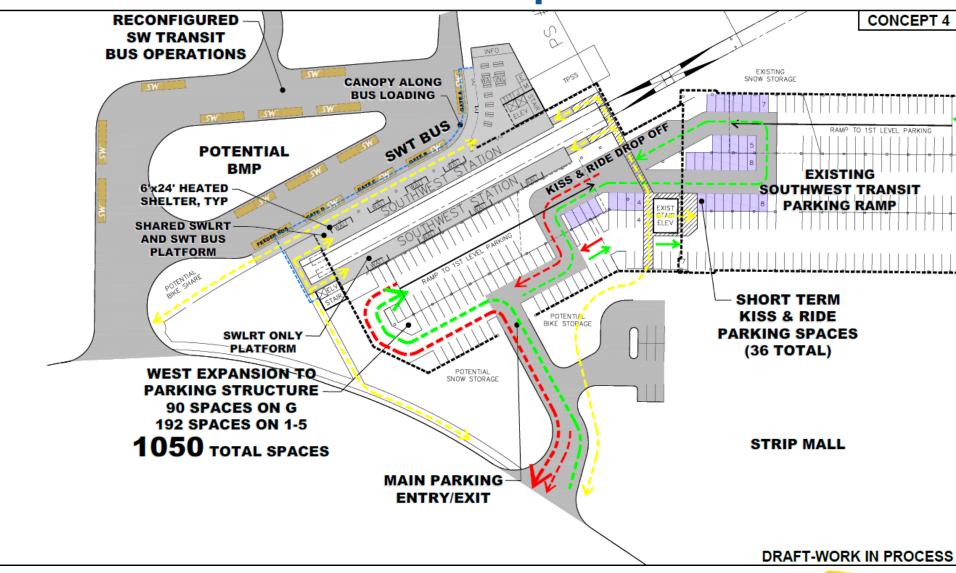
#### **Southwest Station: Concept #4**



### **Southwest Station: Concept #5**



#### **Southwest Station: Concept #5**



### **February 20 CMC Questions**



## Freight Rail Relocation Draft Report Discussion

- Safety considerations
- Property impacts
- Cost
- Railroad operational considerations
- Developable land
- Additional community considerations

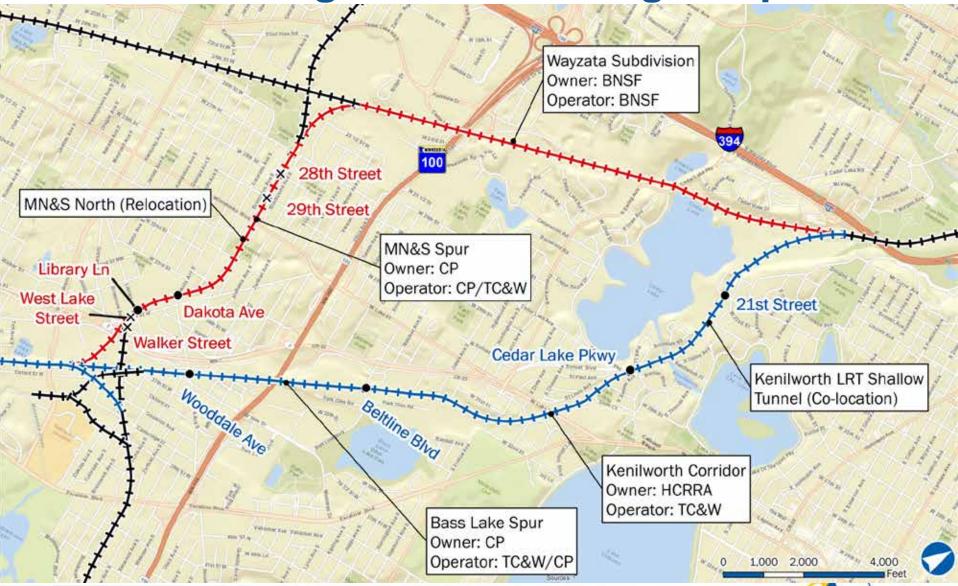


Safety Considerations	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
Freight Rail	4 FR at-grade crossings (existing and proposed):  •Wooddale  •Beltline  •Cedar Lake  •21st  •ADT: 33,600	<ul> <li>6 FR at-grade crossings (existing):</li> <li>•Walker</li> <li>•Library</li> <li>•Lake</li> <li>•Dakota</li> <li>•29<sup>th</sup></li> <li>•28th</li> <li>•ADT: 15,000</li> </ul> 2 FR at-grade crossings (proposed): <ul> <li>•Library</li> </ul>
		<ul><li>Library</li><li>Dakota</li></ul>

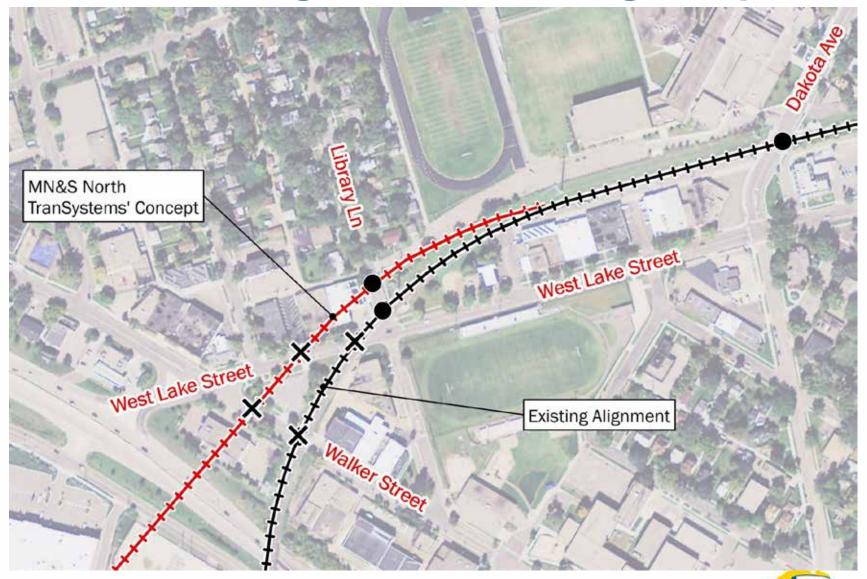
Safety Considerations	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
LRT	<ul><li>2 LRT at-grade crossings with FR:</li><li>•Wooddale</li><li>•Beltline</li></ul>	3 LRT only at-grade crossings at roadways:  •Wooddale  •Beltline  •21st
	FR at station areas:  •Wooddale  •Beltline  •West Lake	No FR at station areas:  •Wooddale  •Beltline  •West Lake  •21st



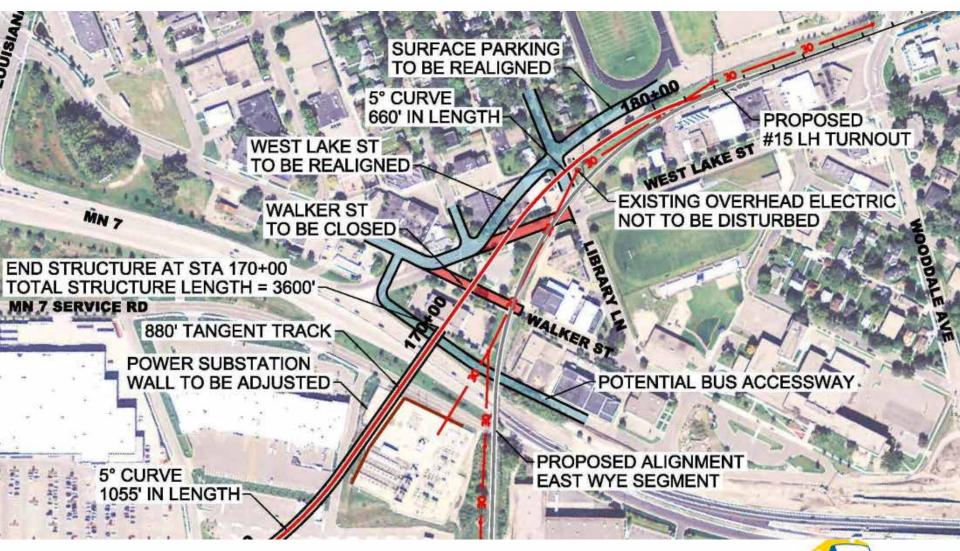
**At-Grade Freight Rail Crossings Map** 



#### **At-Grade Freight Rail Crossings Map**



## **TranSystems' Concept MN&S North Relocation**



Proximity to Proposed Freight Rail Track Route	Kenilworth LRT Shallow Tunnels* (Co-location)	MN&S North** (Relocation)
Number of school buildings within 150' of FR tracks	0	1
Number of residential units within 150' of FR tracks	750	240

<sup>\*</sup>Along Bass Lake Spur/Kenilworth Corridor from Louisiana Ave. to Cedar Lake Junction

<sup>\*\*</sup> Along proposed MN&S North route/BNSF from Louisiana Ave. to Cedar Lake Junction



Property Impacts*	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
Full permanent acquisitions requiring relocation:  • Residential	0	6
Private Business	0	7
• Schools	0	1

<sup>\*</sup>Numbers do not include acquisitions required for LRT Louisiana Station or Southerly Connection, which are common to both options



Cost (M) (\$YOE)	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
Base Cost	\$150 - \$160	\$130 - \$140
Common Elements	\$85 - \$90	\$90 - \$100
TOTAL	\$235 - \$250	\$220 - \$240

## TranSystems' MN&S North Concept Unaccounted Costs: \$20 - \$25 M\*

- Additional retaining walls for LRT: \$2 \$3M
  - Seconda Blake to Louisiana
- Additional Right-of-Way: \$12 \$15M
  - Skunk Hollow Rail Customer
  - § Property along North Frontage Road
  - § 27<sup>th</sup> Street Properties
- Bass Lake Spur/Kenilworth freight track removal: \$1M
  - MN&S to Cedar Lake Junction
- North Cedar Lake Trail Bridge (Iron Triangle): \$5 \$6M

<sup>\*</sup> NOTE: does not include Xcel substation impacts



Capital Cost (M) (\$YOE)	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
Base Cost	\$150 - \$160	\$130 - \$140
Common Elements	\$85 - \$90	\$90 - \$100
TranSystems' Safety Recommendations	\$5-\$10	Included in Base Cost
Unaccounted Costs*		\$20 - \$25
TOTAL	\$240 - \$260	\$240 - \$265

<sup>\*</sup> NOTE: does not include Xcel substation impacts



Kenilworth LRT Shallow MN&S North **Tunnels** (Relocation) (Co-location) Increased operations and Maintenance costs **Operating Cost** maintenance costs for for an additional Considerations 5,400 LF of FR bridge ventilation, lighting and structure and 81,000 other tunnel systems square feet of FR retaining walls

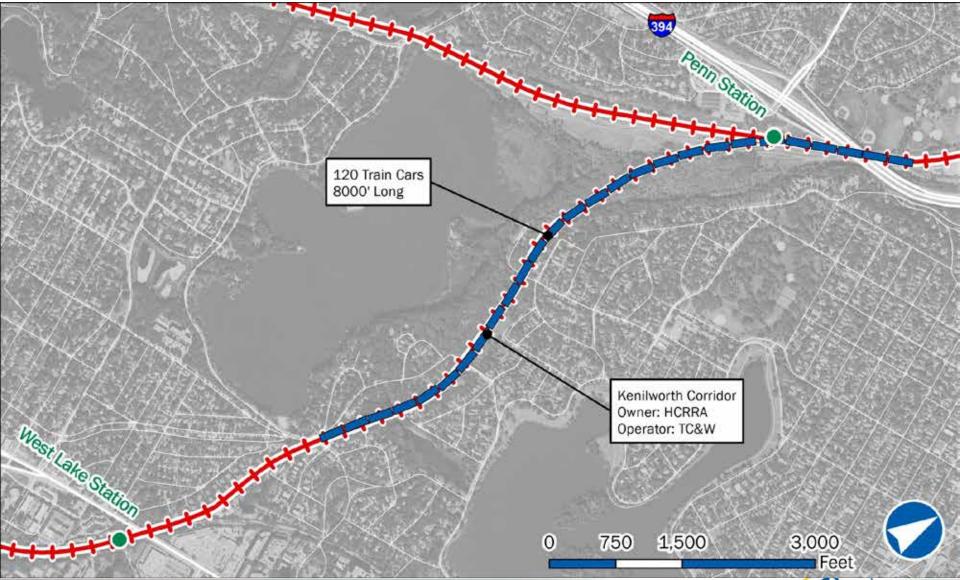
#### Freight Rail Operations – MN&S North



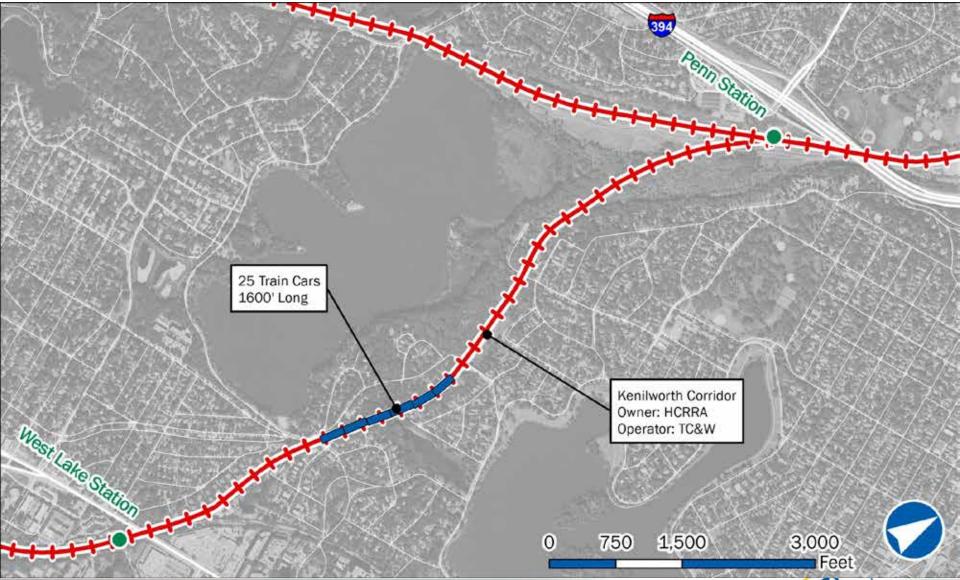
#### Freight Rail Operations – MN&S North



#### Freight Rail Operations – Kenilworth



#### Freight Rail Operations – Kenilworth



	Kenilworth LRT Shallow Tunnels (Co-location)	MN&S North (Relocation)
Developable Land  Feasibility of Joint Development (JD) concept of PnR over rail corridor with FR at Beltline station decreases possibly requiring PnR to locate on 2 acres of land otherwise available for redevelopment  Net impact: reduction of 2 acres of developable land	(JD) concept of PnR over rail corridor with FR at Beltline station decreases possibly requiring PnR to locate on 2 acres of land	Removal of FR from transit corridor could open up approx. 1 acre of land for redevelopment at Wooddale and about 3 acres of land combined at Beltline and West Lake for a total of approx. 4 acres
	Loss of approx. 3 acres of developed land due to full property impacts of reroute  Feasibility of JD concept of PnR over rail corridor without FR at Beltline increases approx. 2 acres of land for redevelopment	
		Net impact: addition of approx. 3 acres of developable land

Additional Community Considerations

Kenilworth
LRT Shallow Tunnels
(Co-location)

MN&S North (Relocation)

**CMC Discussion** 

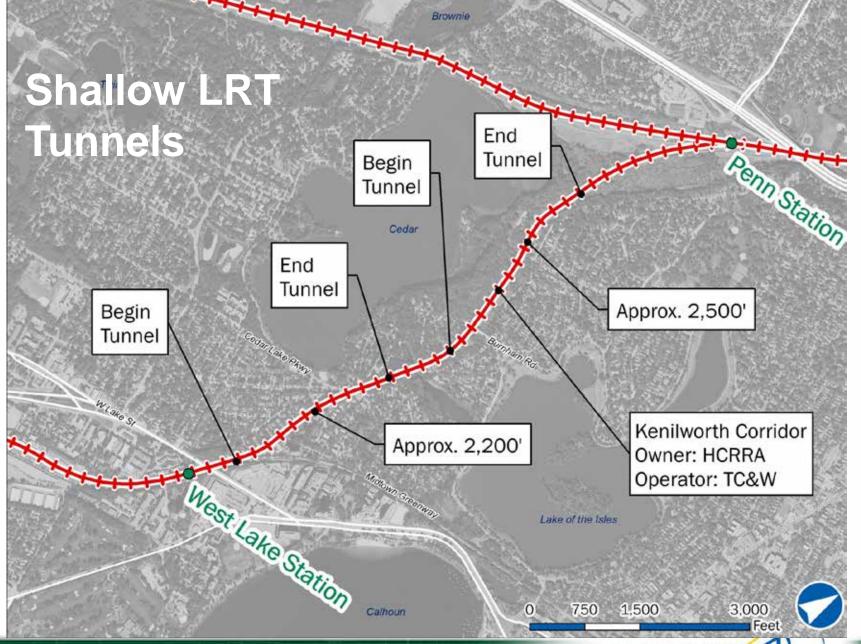
## **Shallow Tunnel Update**



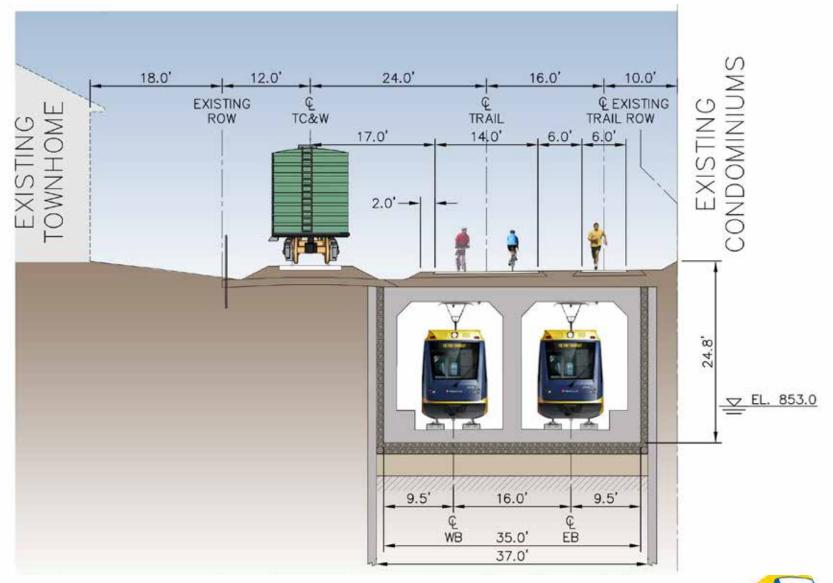
# Feb 5, 2014 Minneapolis Park and Recreation Board Resolution

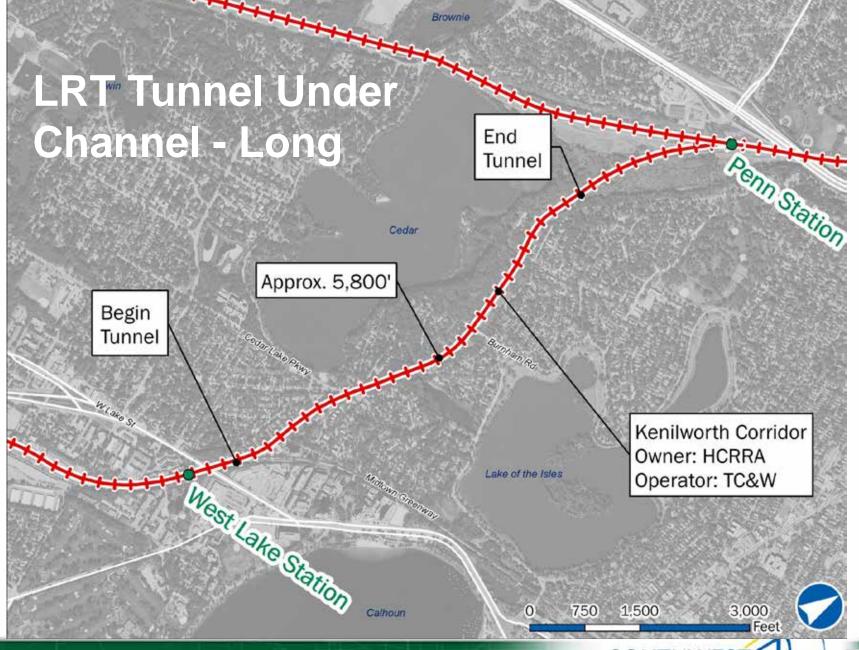
 Requests SPO to conduct a detailed engineering feasibility study and cost comparison of tunneling under the Kenilworth Channel as part of the shallow LRT tunnels option



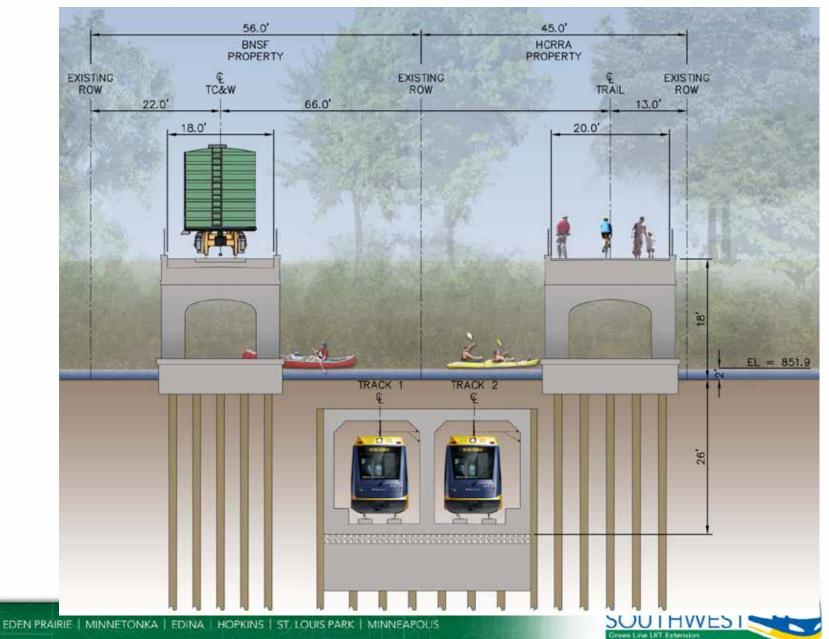


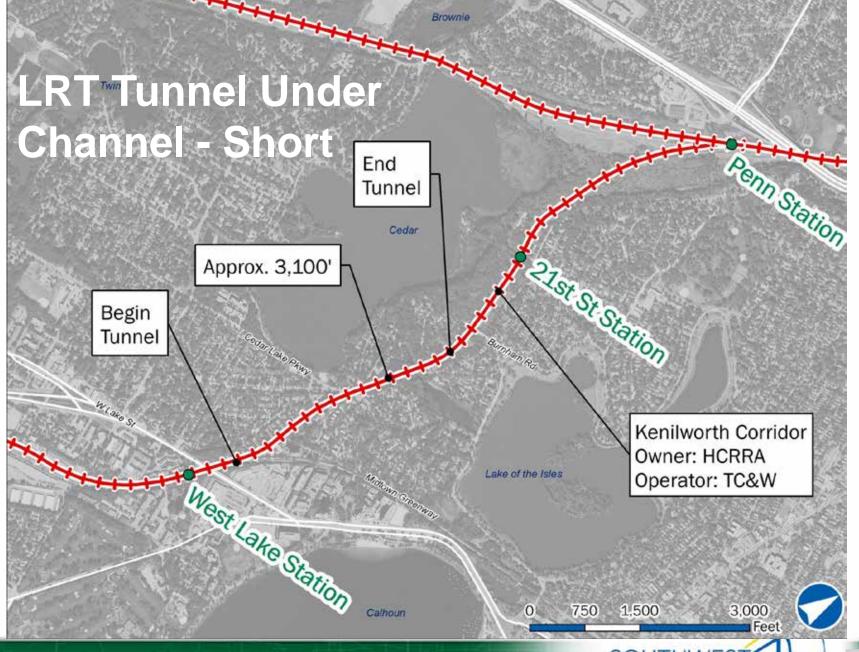
### **Kenilworth Shallow LRT Tunnel**





### **Kenilworth Shallow LRT Tunnel – Under Channel**





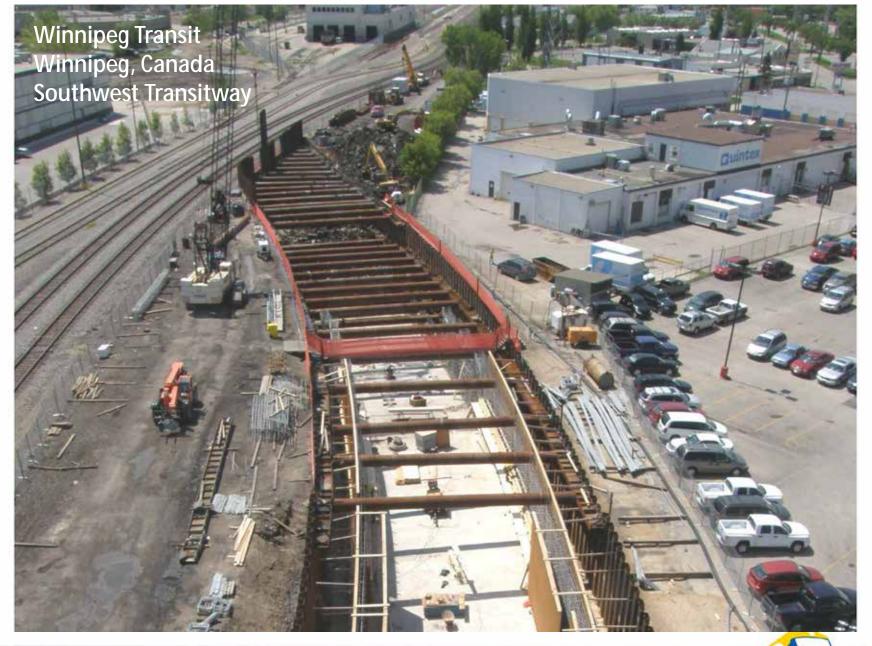














### **Deep Tunnel Under Kenilworth Channel**

- Requires extensive retaining walls and bracing to support tunnel excavation
- Access to channel temporarily blocked during summer and winter conditions during construction
- Requires re-vegetation of channel embankments after the tunnel is constructed
- Requires additional one year of construction
- Requires additional cost:
  - § Long Tunnel: \$65 \$85M
  - § Shorter Tunnel: \$30 \$40M



# Surface Transportation Board Staff Meeting Recap

### Railroad/Shippers' Comments



# Communications and Outreach Update

### **Communications and Outreach Update**

- Business Advisory Committee Report
- Community Advisory Committee Report
- Public comments received on draft reports



#### **More Information**

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