



Community & Business Advisory Committees

October 26, 2015



Today's Topics

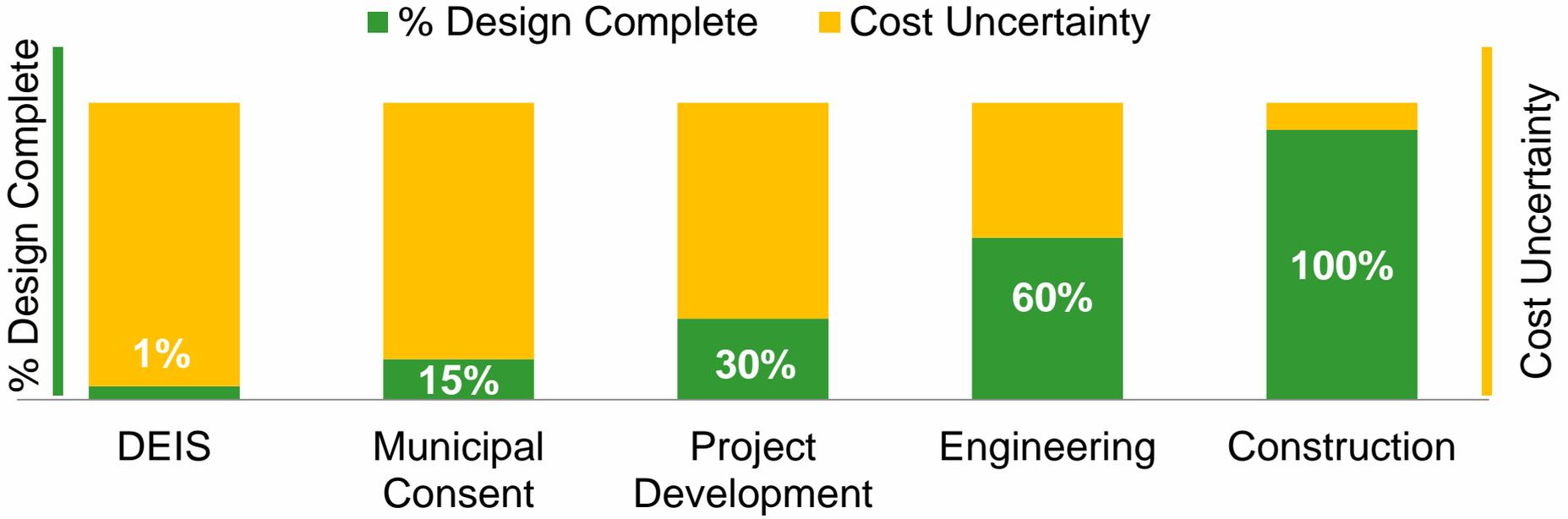
- Recap of July 2015 Project Scope and Cost Estimate Overview
- Project Scope Presentation
 - § Technical Issue Recommendations
 - § Revised Scope Summary
- Project Scope Discussion
- Next Steps



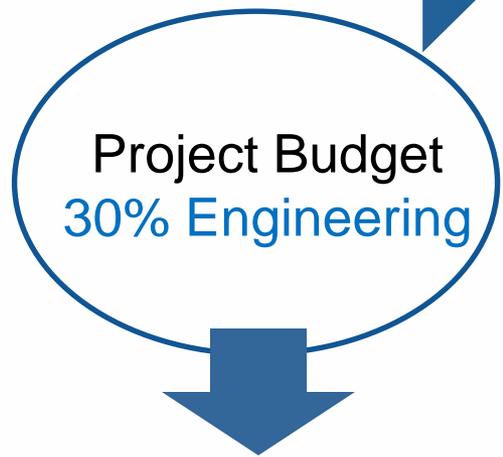
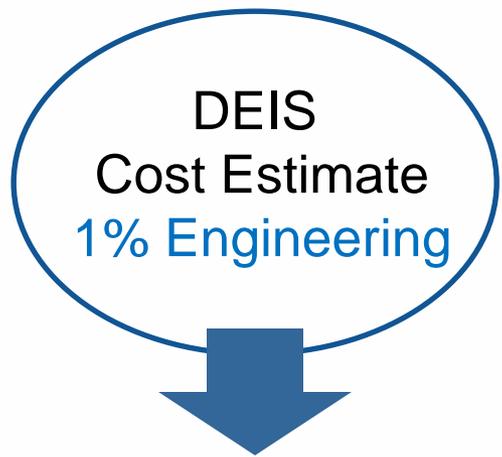
Recap of July 2015 Project Scope and Cost Estimate Overview



Cost Uncertainty By Project Phase



Cost Estimates and Budget Timeline



DEIS Cost Estimate Assumptions

DEIS Cost Estimate (1% Eng.)	\$1.002 B
Total Project Contingency	34%
Escalation Factor	3%
Base Year Estimate	2012
Forecast Year	2017 (mid-point of construction)



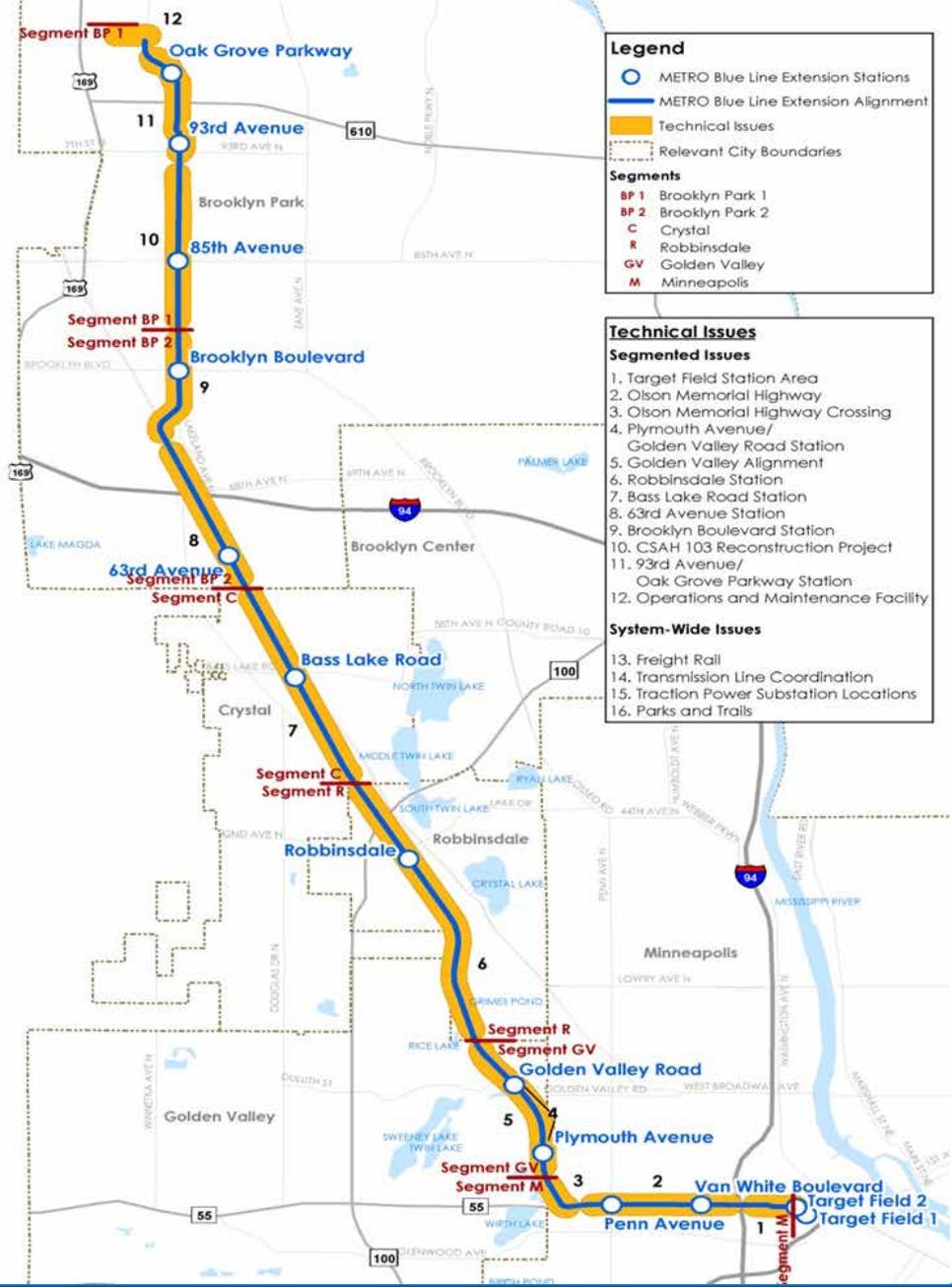
Technical Issue Recommendations #1 - 16



Project Scope Refinement During Project Development

- Resolves issues identified by Technical Advisory Group during DEIS
- Reflects input and coordination:
 - § DEIS: 1,231+ public comments
 - § City/County/Agency: 105+ Issue Resolution Team meetings
 - § Advisory Committees: TPAC, BAC, CAC, CMC
 - § Public: 14 public open houses (1,600+ attendees; 530+ public comments) and 112+ community meetings
- Establishes scope for Municipal Consent Plans and Final Environmental Impact Statement
- Provides context for continued discussions with stakeholders





Legend

- METRO Blue Line Extension Stations
- METRO Blue Line Extension Alignment
- Technical Issues
- Relevant City Boundaries

Segments

- BP 1 Brooklyn Park 1
- BP 2 Brooklyn Park 2
- C Crystal
- R Robbinsdale
- GV Golden Valley
- M Minneapolis

Technical Issues

Segmented Issues

1. Target Field Station Area
2. Olson Memorial Highway
3. Olson Memorial Highway Crossing
4. Plymouth Avenue/
Golden Valley Road Station
5. Golden Valley Alignment
6. Robbinsdale Station
7. Bass Lake Road Station
8. 63rd Avenue Station
9. Brooklyn Boulevard Station
10. CSAH 103 Reconstruction Project
11. 93rd Avenue/
Oak Grove Parkway Station
12. Operations and Maintenance Facility

System-Wide Issues

13. Freight Rail
14. Transmission Line Coordination
15. Traction Power Substation Locations
16. Parks and Trails



Technical Issue #1: Target Field Station Connection

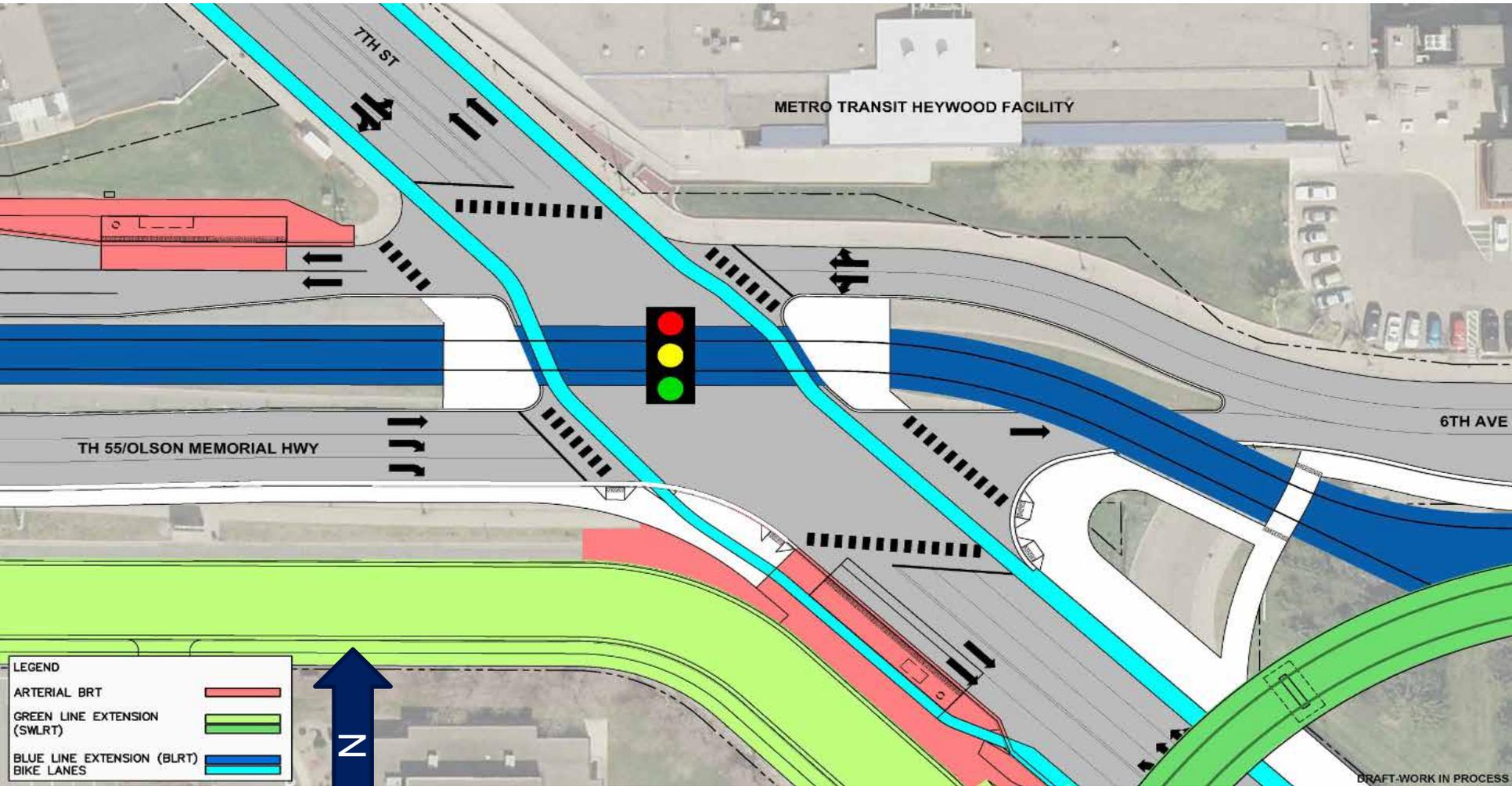


Target Field Station Connection: Recommendation

- Tracks cross to center median east of 7th Street
- Tracks at-grade through 7th Street intersection
- LRT center running on TH55/Olson Memorial Highway



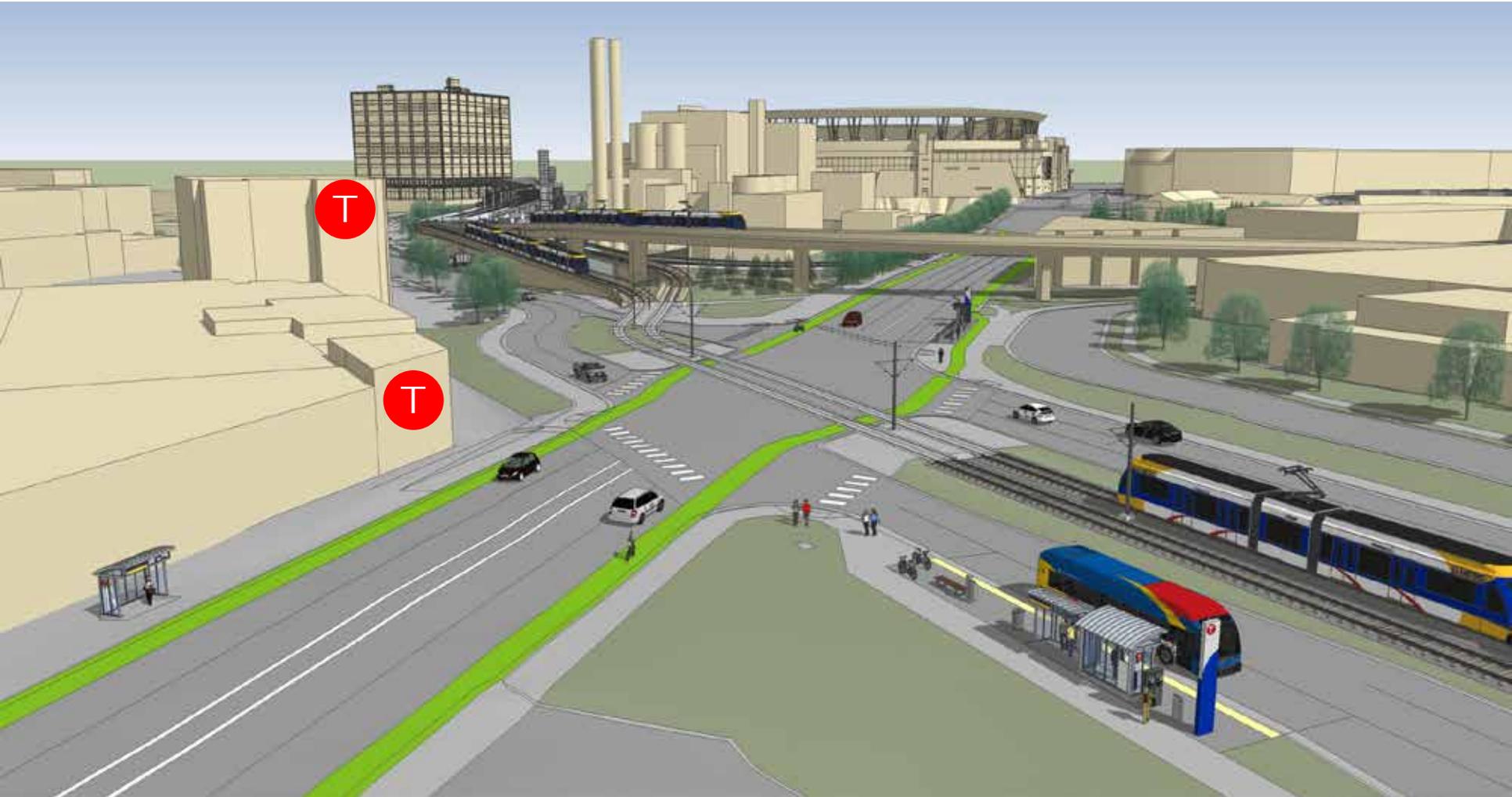
7th Street and Olson Memorial Highway Intersection



DRAFT-WORK IN PROCESS



Target Field Station Connection Viewed Through 7th Street Intersection



Technical Issue #2: Olson Memorial Highway



Olson Memorial Highway: Recommendation

- 6-lane principal arterial
- Center running LRT
- 10' boulevards
- 6' sidewalk on both sides
- 3 mid-block pedestrian crossings
- Preserve space for future 12' cycle track on north side



Olson Memorial Highway



Draft - Work in Progress

Olson Memorial Highway and Penn Avenue: Looking northeast



Olson Memorial Highway



Olson Memorial Highway between Newton Avenue and Oliver Avenue: Looking northwest



Technical Issue #3: Olson Memorial Highway Crossing



Olson Memorial Highway Crossing: Recommendation

- Maintain eastbound Olson Memorial Highway bridge over freight corridor
- Reconstruct westbound Olson Memorial Highway bridge over freight corridor
- Center running LRT
- LRT transitions to freight rail corridor under new westbound Olson Memorial Highway bridge



Olson Memorial Highway Crossing



Technical Issue #4: Plymouth Ave/Golden Valley Rd Station



Plymouth Ave/Golden Valley Rd Station: Recommendation

- Advance design of Plymouth Ave and Golden Valley Rd stations, include in cost estimate
 - § Golden Valley Rd Station parking not included in cost estimate
- Continue coordination with Minneapolis Park and Recreation Board on property impacts and design of potential Golden Valley Rd station park and ride



Plymouth Ave Station



LEGEND

- Right of Way
- Property Line
- LRT
- Sidewalk
- Freight
- Freight Access Road
- Retaining Wall
- Bridge
- + Bus Stop

Golden Valley Rd Station

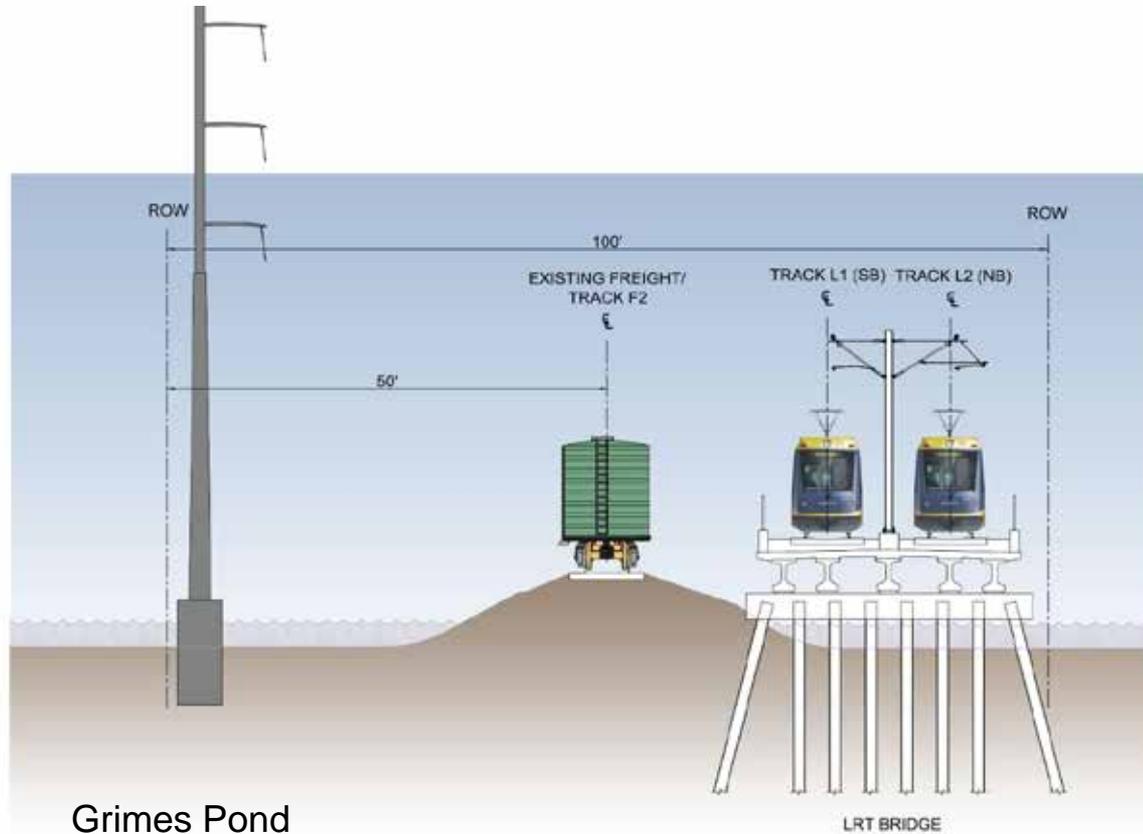


Technical Issue #5: Golden Valley Alignment



Golden Valley Alignment: Recommendation

- Minimize floodplain impacts by retaining freight rail on existing embankment and constructing LRT bridges



Technical Issue #6: Robbinsdale Station



Robbinsdale Station: Recommendation

- Center station platform south of 42nd Ave N
- Park and ride with 550 spaces adjacent to station incorporates existing transit center function, provides opportunity for development
- Traffic improvements to West Broadway and 42nd Ave
- At-grade pedestrian crossing at 41st Ave N
- At-grade roadway and LRT crossing at 42nd Ave N with gates



Robbinsdale Station: Station, Parking Ramp & Development Opportunities



Technical Issue #7: Bass Lake Road Station

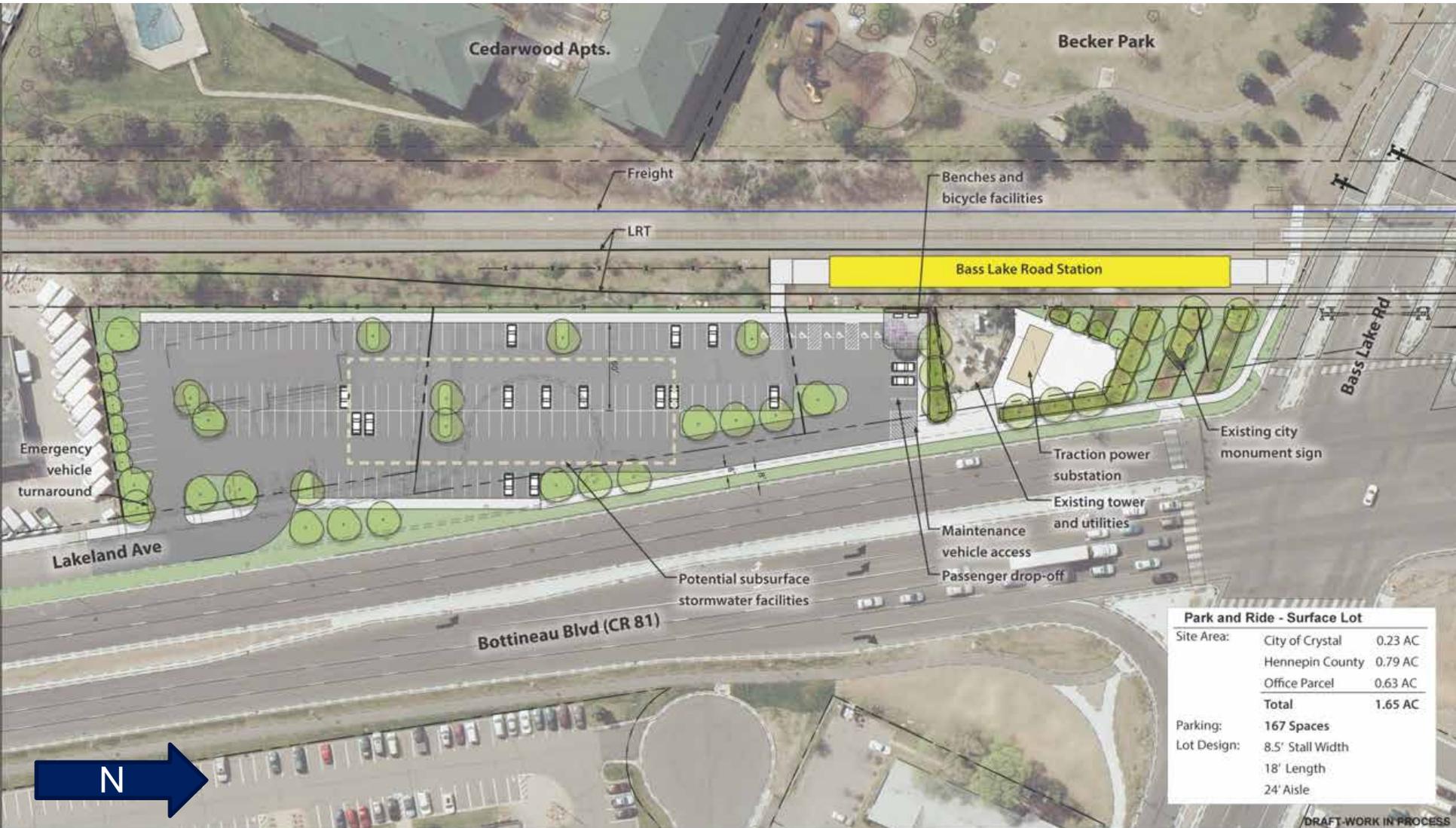


Bass Lake Rd Station: Recommendations

- Center station platform south of Bass Lake Rd
- Surface park and ride lot with 170 spaces
- At-grade roadway and LRT crossing at Bass Lake Rd



Bass Lake Rd Station



Park and Ride - Surface Lot		
Site Area:	City of Crystal	0.23 AC
	Hennepin County	0.79 AC
	Office Parcel	0.63 AC
	Total	1.65 AC
Parking:	167 Spaces	
Lot Design:	8.5' Stall Width	
	18' Length	
	24' Aisle	

DRAFT - WORK IN PROCESS



Technical Issue #7A: West Broadway Crossing



West Broadway Crossing: Recommendation

- Roundabout on east side of LRT alignment
 - § Quiet zone ready design
 - § Maintain full access to 48th Ave/Welcome Ave



West Broadway Crossing Recommendation



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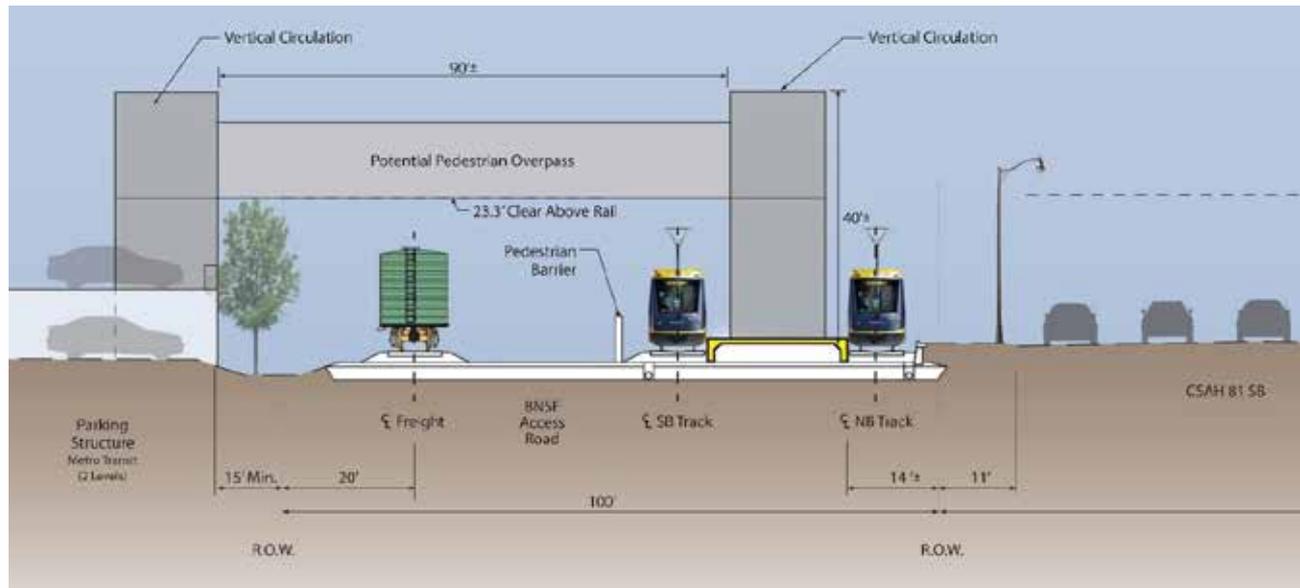


Technical Issue #8: 63rd Ave Park & Ride



63rd Ave Park & Ride: Recommendation

- Center station platform north of 63rd Ave
- Existing park and ride with 565 spaces
- Bus stops on 63rd Ave
- Pedestrian overpass from parking ramp over freight and LRT track to platform



63rd Ave Park & Ride



Technical Issue #9: Brooklyn Boulevard Station

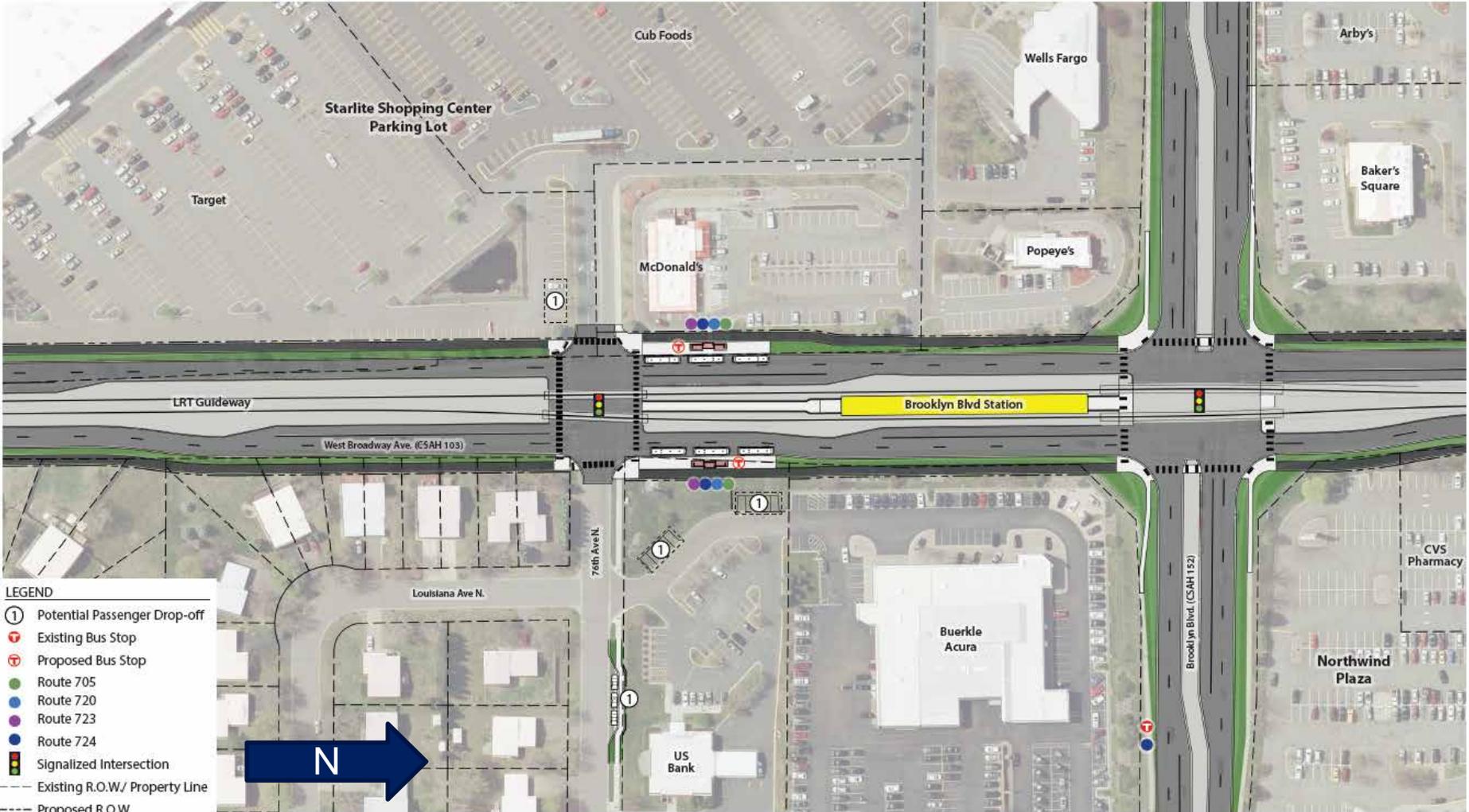


Brooklyn Blvd Station: Recommendation

- Center station platform south of Brooklyn Blvd
- Pedestrian access
 - § Access from traffic signal at Brooklyn Blvd
 - § Access from traffic signal at 76th Ave North
- Bus stops on West Broadway and Brooklyn Blvd



Brooklyn Boulevard Station



- LEGEND**
- ① Potential Passenger Drop-off
 - 🚏 Existing Bus Stop
 - 🚏 Proposed Bus Stop
 - Route 705
 - Route 720
 - Route 723
 - Route 724
 - 🚦 Signalized Intersection
 - - - Existing R.O.W/ Property Line
 - - - Proposed R.O.W.



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Technical Issue #9A: LRT Crossing of CR 81 at 73rd Ave



LRT Crossing of CR 81 at 73rd Ave: Recommendation

- Add LRT bridge over CR 81 north of 73rd Ave N
 - § Addresses safety and maintenance concerns



Technical Issue #10: West Broadway (CSAH 103) Reconstruction Project



West Broadway Reconstruction: Recommendation

- Reconstruct West Broadway from Candlewood Dr to 93rd Ave by Hennepin County
- Center running LRT constructed as part of BLRT project
- Continued coordination with Hennepin County



West Broadway Reconstruction: Recommendation



Technical Issue #11: 93rd Ave/Oak Grove Parkway Station



93rd Ave/Oak Grove Parkway Stations: Recommendation

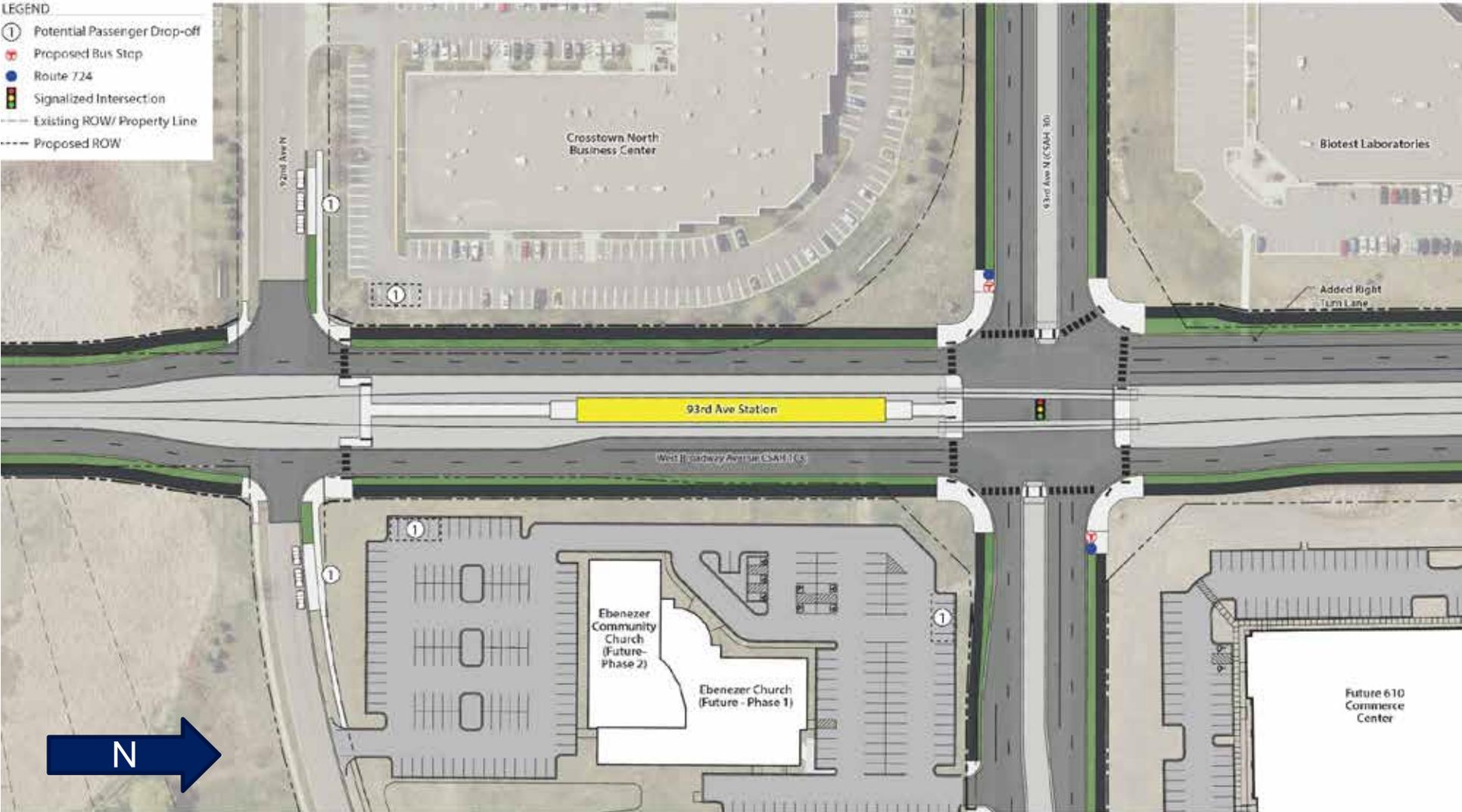
- 93rd Ave Station: Center station platform south of 93rd Ave
- Oak Grove Parkway Station: Center station platform and 850 space park and ride
- Roadway
 - § Construct West Broadway with wide center median to account for Xcel transmission lines
 - § Construct Oak Grove Parkway from Target Campus to 101st west of operations and maintenance facility
 - § Construct Main Street and access to ramp
 - § Develop cost participation for roadway improvements



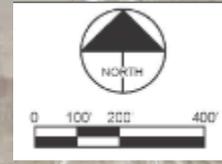
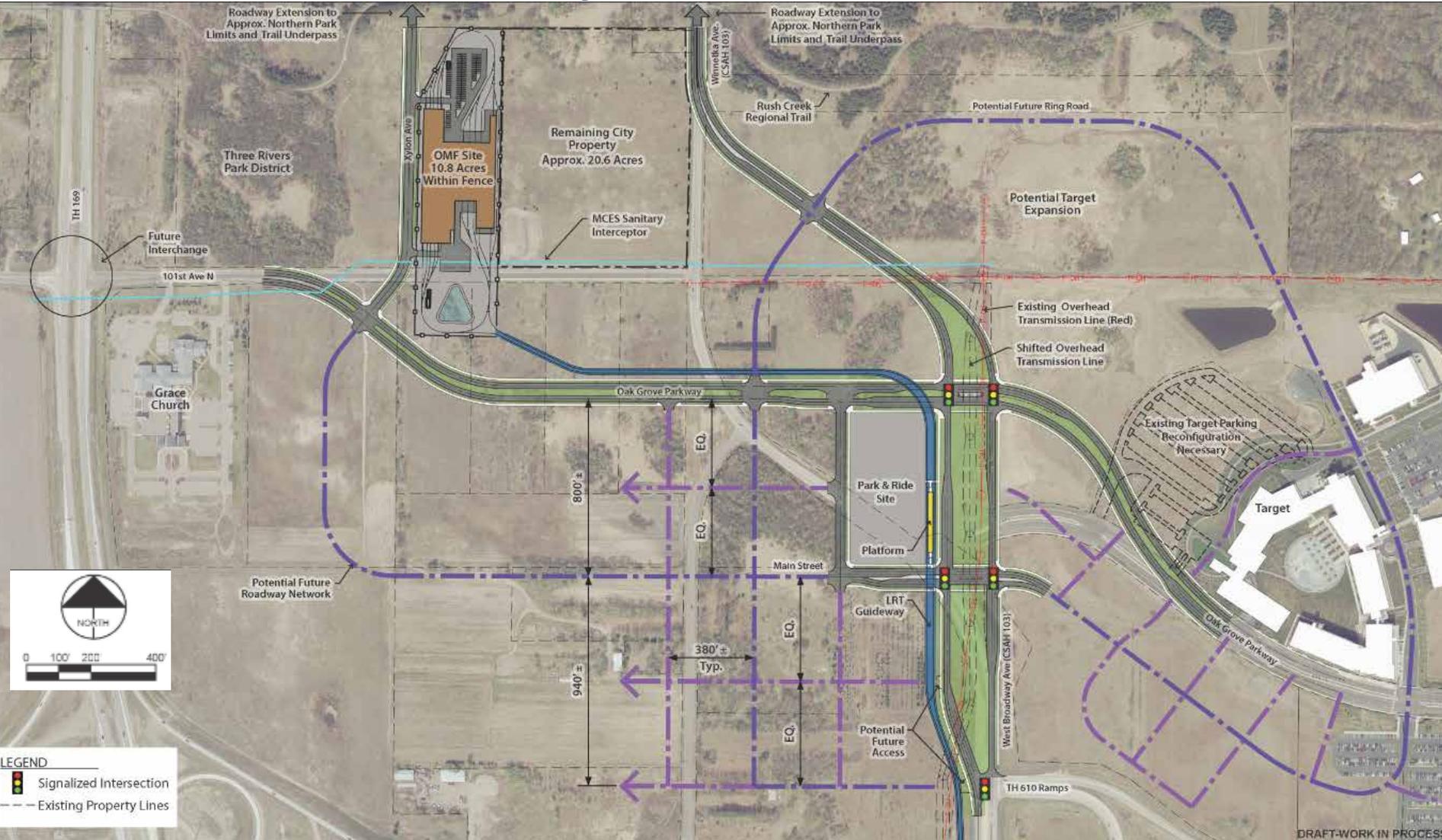
93rd Ave Station

LEGEND

- ① Potential Passenger Drop-off
- Ⓡ Proposed Bus Stop
- Route 724
- 🚦 Signalized Intersection
- Existing ROW/ Property Line
- - - Proposed ROW



Oak Grove Parkway Station



LEGEND
 Signalized Intersection
 Existing Property Lines

DRAFT WORK IN PROCESS



Technical Issue #12: Operations and Maintenance Facility (OMF) Location

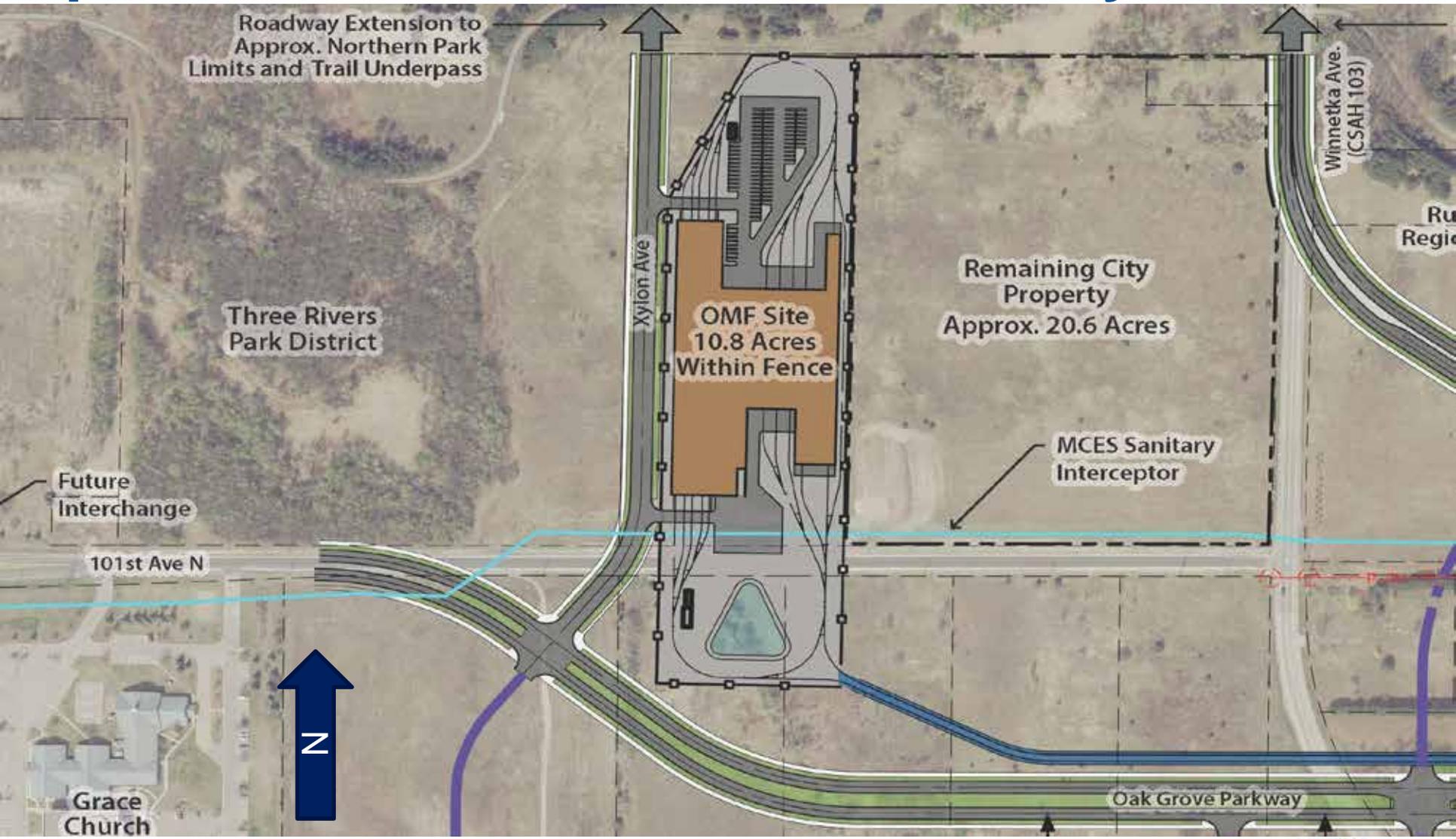


OMF Location: Recommendation

- Operations and Maintenance Facility near 101st Ave N and new Xylon Ave N in north/south orientation



Operations and Maintenance Facility



Technical Issue #13: Freight Rail



Freight Rail: Recommendation

- Operate LRT on approximate eastern 50 feet of railroad right-of-way
- Design site-appropriate corridor protection treatments
 - § Ditch (moat), retained embankment or wall
- Reconstruct 4 roadway bridges over BNSF corridor
 - § Plymouth Ave
 - § Theodore Wirth Pkwy
 - § Golden Valley Rd
 - § 36th Ave
- Design freight/LRT/road grade crossings as quiet zone ready

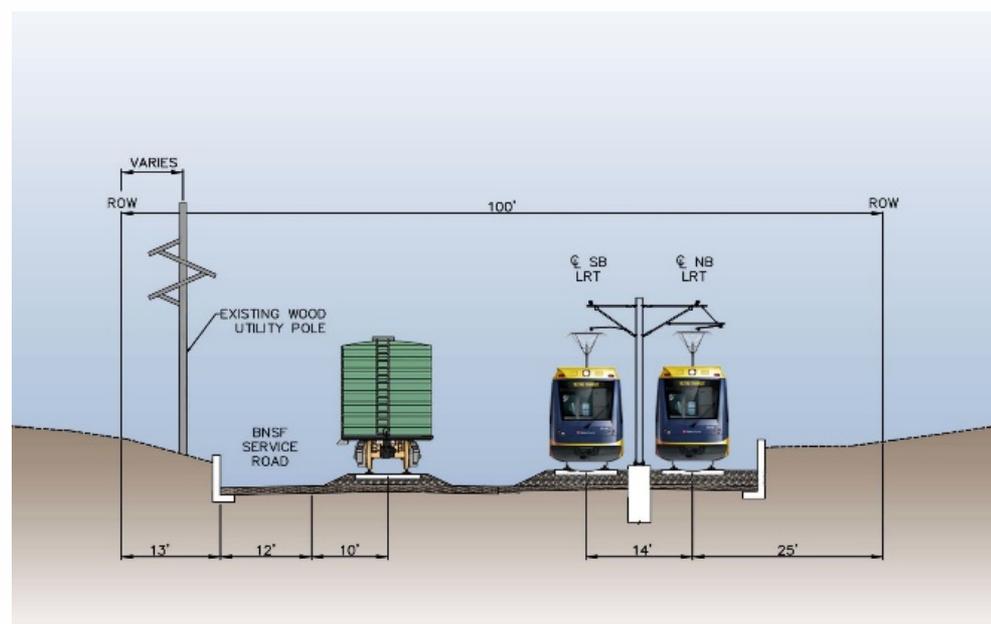
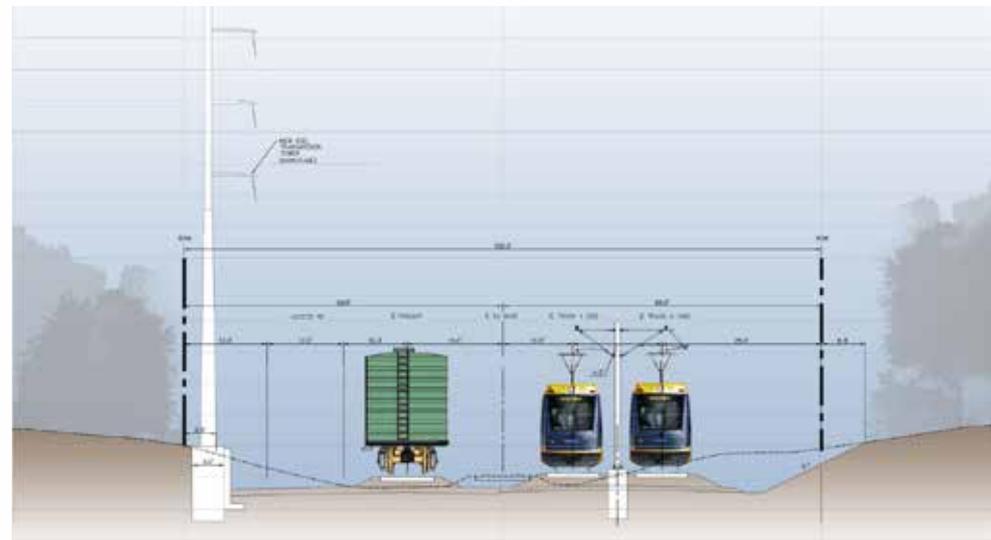


Technical Issue #14: Transmission Line Coordination



Transmission Line Coordination: Recommendation

- South of Indiana Substation:
 - § Shift existing Xcel 115 kV transmission line to new poles west of BNSF track
- North of Indiana Substation:
 - § Leave existing Xcel 115 kV transmission line in-place west of BNSF track



Technical Issue #15: Traction Power Substations (TPSS) Locations



TPSS Locations: Recommendation

- 17 TPSS locations identified along LRT corridor
- Continue working with project stakeholders to finalize locations through continued design process



Standard TPSS: Blue Line



TPSS Locations: Minneapolis, Golden Valley, Robbinsdale and Crystal



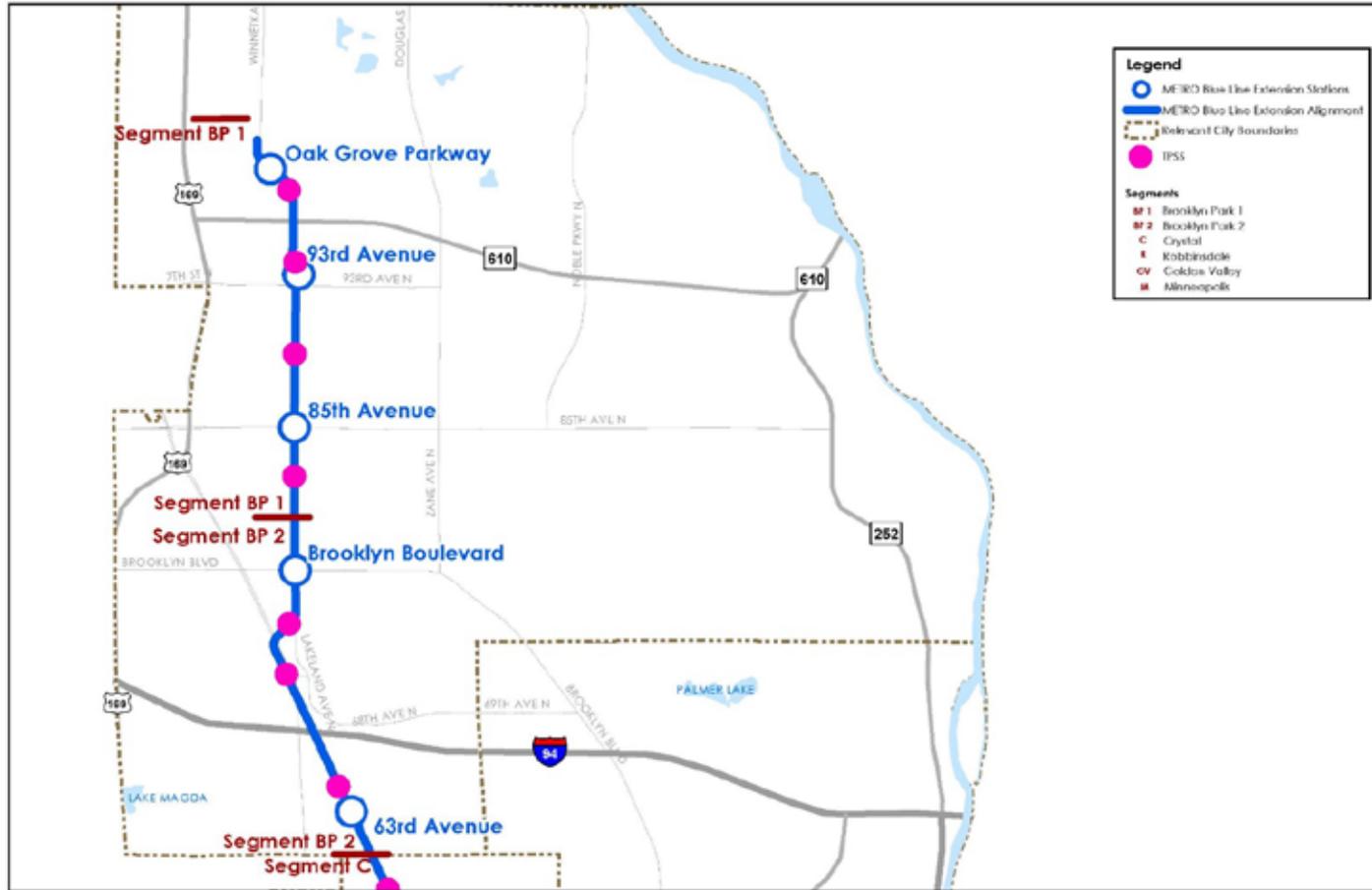
METRO Blue Line LRT Extension TPSS



0 0.5 1 Miles



TPSS Locations: Brooklyn Park



Legend

- METRO Blue Line Extension Stations
- METRO Blue Line Extension Alignment
- Relevant City Boundaries
- TPSS

Segments

- BP 1 Brooklyn Park 1
- BP 2 Brooklyn Park 2
- C Crystal
- E Edenbridge
- CV Golden Valley
- M Minneapolis



METRO Blue Line LRT Extension TPSS



Technical Issue #16: Parks



Parks: Recommendation

- Continue coordination with park agencies on:
 - § Sochacki Park
 - § Trails connections
 - § Theodore Wirth Regional Park
 - § Right of way and construction impacts



Project Recommendation Summary



Project Recommendation Summary

- Target Field Station connection
- 7th St at-grade traffic signal crossing
- I-94 bridge rehabilitation to accommodate LRT
- **Olson Memorial Highway reconstruction ***
- Van White Station
- Penn Ave Station
- Westbound OMH (TH 55) bridge reconstruction
- **Plymouth Ave Station and vertical circulation ***
- Golden Valley Rd Station and vertical circulation

* New scope requirement, not in DEIS cost estimate



Project Recommendation Summary

- **Grimes Pond and Golden Valley Pond LRT structures ***
- **Roadway bridge reconstruction ***
 - § Plymouth Avenue
 - § Theodore Wirth Parkway
 - § Golden Valley Road
 - § 36th Avenue
- Robbinsdale Station and park and ride structure
- LRT bridge construction over TH 100
- LRT bridge construction over CP Rail
- Bass Lk Rd Station and **surface park and ride facility ***

* New scope requirement, not in DEIS cost estimate



Project Recommendation Summary

- 63rd Ave Station and **pedestrian overpass (over freight to platform) ***
- **LRT bridge construction over CR 81 at 73rd Ave ***
- West Broadway reconstruction from 74th Ave to Candlewood
- Brooklyn Blvd Station
- 85th Ave Station
- 93rd Ave Station
- **Roadway network north of TH 610 ***
- Oak Grove Pkwy Station and park and ride structure
- Operations and Maintenance Facility

* New scope requirement, not in DEIS cost estimate



Project Recommendation Summary: Corridor Wide

- 28 light rail vehicles **(2 more than DEIS) ***
- 13.5 miles of ballasted double LRT tracks
- 8 miles of ballasted single freight track
- **Freight rail corridor protection treatments ***
- System elements
 - § Traction Power Substations
 - § Rail Signal System
 - § 10 at-grade shared (freight/LRT) crossings
- Right of Way acquisition
- Poor soils mitigation

* New scope requirement, not in DEIS cost estimate



Project Scope Discussion

- Any items that need clarity?
- Does the presentation provide sufficient detail?
- Any questions?



Next Steps



Project Scope and Cost Rollout: Next Steps

- Present recommended scope and cost estimate/seek input
 - § CMC: Oct 29
 - § CAC: Nov 2
 - § BAC: Nov 3
- Seek recommendation/resolution on project scope and cost estimate
 - § CMC: Nov 12
- Request approval on scope and cost estimate
 - § Transportation Committee: Nov 23
 - § Metropolitan Council: Dec 9



A Look Ahead: Design & Engineering

- Dec 2015: Submit Municipal Consent Plans for City and County Review
- Mar 2016: Complete Municipal Consent Approval Process
- Aug 2016: Finalize 30% Design Plans and Specs
- Aug 2016: Apply to Enter Engineering



More Information



The screenshot shows the Metropolitan Council website's navigation menu with 'TRANSPORTATION' selected. Below the menu is a photograph of a blue and yellow METRO bus at a station. The main content area features a sidebar with a dropdown menu for 'METRO BLUE LINE EXTENSION' containing links for Route, Stations, Environmental, Timeline, and Project Partners. The main text area is titled 'METRO BLUE LINE EXTENSION' and 'Bottineau Transitway – Minneapolis & Northwestern Communities'. It describes the LRT line's route from downtown Minneapolis through north Minneapolis, Golden Valley, Robbinsdale, Crystal, and Brooklyn Park. A 'Latest News' section mentions that the Met Council can begin designing the extension, and a 'Route' section includes a link to a map for more information.

Website: BlueLineExt.org

Email: BlueLineExt@metrotransit.org

Twitter: [@BlueLineExt](https://twitter.com/BlueLineExt)

