Community & Business Advisory Committees

October 26, 2015
Today’s Topics

• Recap of July 2015 Project Scope and Cost Estimate Overview

• Project Scope Presentation
  ß Technical Issue Recommendations
  ß Revised Scope Summary

• Project Scope Discussion

• Next Steps
Recap of July 2015 Project Scope and Cost Estimate Overview
Cost Uncertainty By Project Phase

- DEIS Municipal Consent
- Project Development
- Engineering
- Construction

% Design Complete: 1% 15% 30% 60% 100%
Cost Uncertainty: 0% 35% 70% 100%

% Design Complete
Cost Uncertainty

DEIS Municipal Consent Project Development Engineering Construction
Cost Estimates and Budget Timeline

**C O S T E S T I M A T E**

- **DEIS Cost Estimate**
  - 1% Engineering
  - August 2014
- **Updated Cost Estimate**
  - 15% Engineering
  - December 2015
- **Project Budget**
  - 30% Engineering
  - August 2016

**B U D G E T**

- **Enter Project Development**
- **Begin Municipal Consent**
- **Apply to Enter Engineering**

**Cost Estimates and Budget Timeline**
### DEIS Cost Estimate Assumptions

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<th>Assumption</th>
<th>Value</th>
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<tr>
<td>DEIS Cost Estimate (1% Eng.)</td>
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<tr>
<td>Total Project Contingency</td>
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<td>Escalation Factor</td>
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<td>Base Year Estimate</td>
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<td>Forecast Year</td>
<td>2017</td>
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<td>(mid-point of construction)</td>
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Technical Issue Recommendations

#1 - 16
Project Scope Refinement During Project Development

• Resolves issues identified by Technical Advisory Group during DEIS
• Reflects input and coordination:
  Ø DEIS: 1,231+ public comments
  Ø City/County/Agency: 105+ Issue Resolution Team meetings
  Ø Advisory Committees: TPAC, BAC, CAC, CMC
  Ø 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
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
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 and Penn Avenue: Looking northeast
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
  Ø 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
Technical Issue #5: Golden Valley Alignment
Golden Valley Alignment: Recommendation

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

Grimes Pond
Technical Issue #6: Robbinsdale Station
Robbinsdale Station: Recommendation

• Center station platform south of 42\textsuperscript{nd} 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 42\textsuperscript{nd} Ave
• At-grade pedestrian crossing at 41\textsuperscript{st} Ave N
• At-grade roadway and LRT crossing at 42\textsuperscript{nd} 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
Technical Issue #7A: West Broadway Crossing
West Broadway Crossing: Recommendation

• Roundabout on east side of LRT alignment
  ß Quiet zone ready design
  ß Maintain full access to 48th Ave/Welcome Ave
West Broadway Crossing Recommendation
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
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
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
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:
  β Shift existing Xcel 115 kV transmission line to new poles west of BNSF track

• North of Indiana Substation:
  β 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
TPSS Locations: Brooklyn Park

MAP OF TPSS LOCATIONS IN 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 Noblesville
- CV Kokomo Valley
- M Indianapolis

METRO Blue Line LRT Extension TPSS
Technical Issue #16: Parks
Parks: Recommendation

• Continue coordination with park agencies on:  
  ß Sochacki Park  
  ß Trails connections  
  ß Theodore Wirth Regional Park  
  ß 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
  ß CMC: Oct 29
  ß CAC: Nov 2
  ß BAC: Nov 3

• Seek recommendation/resolution on project scope and cost estimate
  ß CMC: Nov 12

• Request approval on scope and cost estimate
  ß Transportation Committee: Nov 23
  ß 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

Website: BlueLineExt.org
Email: BlueLineExt@metrotransit.org
Twitter: @BlueLineExt