Project Overview:
Shingle Creek/West Mississippi Watershed Management Commission

March 8, 2018
Agenda

• Project Overview
• Project Timeline
• Water Resources Overview
• Shingle Creek & West Mississippi WMC Overview
• Stormwater Management
• Community Outreach
METRO System: All-Day, Frequent Service

- Light Rail Transit
  - Blue Line
  - Green Line
  - Green Line Extension
  - Blue Line Extension
- Bus Rapid Transit
  - Red Line
  - Orange Line
  - Gold Line
Project Overview

- 11 new LRT stations
- 13.5 miles of double track
- 27,000 est. rides by 2040
- Serving Brooklyn Park, Crystal, Robbinsdale, Golden Valley & Minneapolis
- One seat ride from Brooklyn Park to Bloomington
METRO Blue Line Extension

- Will provide single seat trips to downtown Minneapolis, Minneapolis – St. Paul International Airport, and Mall of America

- Connections to the University of Minnesota and St. Paul via the Green Line
Project Timeline

- Project Development
- Environmental/Municipal Consent
- Engineering
- Full Funding Grant Agreement
- Heavy Construction
- Passenger Operations
Funding Sources: $1.536 Billion Budget

- Hennepin County: 34.6%
- Counties Transit Improvement Board: 49%
- MnDOT: 9.7%
- Brooklyn Park: 0.06%
- State: 0.53%
- Federal Transit Administration: 0.53%
- HCRRA: $85.56M (5.6%)
Water Resources Overview

- Located within Shingle Creek, West Mississippi and Bassett Creek Watershed Management Commission jurisdictions
SCWMC & WMWMC Overview

- Stormwater Management BMPs
- Infiltration Rates
- Additional Non-Corridor Treatment
- Shingle Creek Crossing
- Floodplain Impacts & Mitigation at Shingle Creek and Setzler Pond
- N610 Stormwater Management
Stormwater Management BMPs

• Stormwater BMPs consists of: filtration, infiltration, underground detention and retention, tree trenches, bioretention, and wet detention basins.

• Project goal is to meet water quality and volume control standards for linear projects
  - 1.3” runoff from net new impervious infiltrated to meet WQ (60% TP and 85% TSS) and volume control, or
  - 1” volume control and NURP (2.5”) WQ

• Project goal is to meet existing 2-year, 10-year, and 100-year, 24-hour Atlas 14 peak discharge rates
Stormwater Management BMPs Map
Infiltration Rates

- Minnesota Stormwater Manual: 8.3 inch/hour maximum infiltration rate

- NPDES Permit: For amended or disturbed soils the maximum infiltration rate is 4.1 inch/hour

- MPCA Project Specific Discussions: due to the soil types in SC/WMWMC, MPCA to allow a design rate of 6 inch/hour
Additional Non-Corridor Treatment

- Occurs at:
  - Shingle Creek Pond
  - NHCC Underground
  - Candlewood Pond
Additional Non-Corridor Treatment

- Occurs at:
  - Shingle Creek Pond
  - NHCC Underground
  - Candlewood Pond
Shingle Creek Crossing

12'x9' Box Culvert, 1' Buried Replaces 74" Arch

54'' RCP for Critter Crossing and Flood Flows
Floodplain Impacts & Mitigation: Shingle Creek
Floodplain Impacts & Mitigation: Seztler
Floodplain Impacts & Mitigation: Wetlands
North of 610 Stormwater Management
Community Outreach Coordinators

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More Information

METRO BLUE LINE EXTENSION

Bottineau Transitway – Minneapolis & Northwestern Communities

The METRO Blue Line Extension (LRT) will operate northwest from downtown Minneapolis through north Minneapolis, Golden Valley, Robbinsdale, Crystal and Brooklyn Park, drawing riders northwest of Brooklyn Park. The proposed alignment is primarily in grade and will feature up to 11 new stations in addition to project Heidi Station and also 12 miles of double track. The line will interline with the METRO Blue Line and connect Minneapolis and the region’s northwest suburbs with existing LRT on the METRO Green Line, future LRT on the METRO Green Line Extension, bus rapid transit on the METRO Blue Line, the Northstar commuter rail line and local express buses.

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