METRO Green Line Extension: Virtual Town Hall
City of Minnetonka

James Mockovciak
March 9, 2022
Today’s topics

- Project Overview
- Project Update
- 2021 Construction Recap
- 2022 Construction Highlights
- Systems Overview
- Communications & Outreach
Project Overview
METRO Green Line Extension

• 14.5 miles
• 16 stations
• Single seat trips to downtown Minneapolis, U of M, St. Paul
• Connections to Airport and Mall of America via Blue Line
METRO Green Line Extension Scope

- **16 new stations**
- **44 structures**
  - 29 new bridges: LRT, pedestrian, roadway, freight
  - 7 existing bridges with modifications
  - 6 pedestrian tunnels
  - 2 cut and cover tunnels:
    - TH 62 582 ft., Kenilworth 2,236 ft.
- **15 at-grade LRT crossings**
  - Includes 5 shared crossings w/freight rail
- **127 retaining walls**
- **Track: ~182,000 TF**
- **7.8 mi shared LRT and freight rail corridor**
Project Update
Civil construction challenges: Key issues

• Corridor protection wall
  ▪ Added to the civil construction contract by change order
  ▪ Adds significant time to the construction schedule in Minneapolis

• Secant pile (retaining) wall
  ▪ Unforeseen soil conditions (settling during initial tunnel construction) necessitated an alternative construction method
  ▪ This was a major change that sets the overall completion of civil construction due to complexity of construction involved

• Eden Prairie Town Center Station
  ▪ Added to the civil construction contract by change order
Civil construction cost and schedule

Original civil construction schedule & cost + New civil construction agreement & change orders = Revised civil construction schedule and costs
Revised project schedule and cost process: Current step

• Taken together, these issues impact:
  ▪ Other Green Line Extension contracts
  ▪ Staffing, supplies, overhead, etc.
  ▪ Overall project schedule and cost
Project costs & schedule

- Revised project costs will be known when all agreements are finalized
- Project opening day in 2027
Project budget

- The Green Line Extension has undergone cost cutting measures already, we are building a well-constructed line that meets the needs of our communities
- With the project 60% complete meaningful reductions are not available
- Additional funding will be needed to complete the project
  - We are working with partners to identity available funding solutions
  - We will not be asking city partners to contribute more
  - Stopping the project would be more costly
How Do Costs Compare?

• Compared to our peer group of metropolitan areas including Seattle, Portland, and Houston, our costs are currently at or below their similar projects
  ▪ Previous Green Line Extension: ~$152 million per mile
  ▪ Revised Green Line Extension: $180 million to $190 million per mile
  ▪ Peer projects: between $200 million and $500 million per mile
## National Comparisons

<table>
<thead>
<tr>
<th>LRT Project</th>
<th>Length in Miles</th>
<th>Number of Stations</th>
<th>Cost Per Mile</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twin Cities METRO Green Line Extension</td>
<td>14.5</td>
<td>16</td>
<td>$180 - $190 million</td>
</tr>
<tr>
<td>Pittsburg: North Shore</td>
<td>1.2</td>
<td>3</td>
<td>$560 million</td>
</tr>
<tr>
<td>Seattle: U-Link</td>
<td>3.2</td>
<td>2</td>
<td>$511 million</td>
</tr>
<tr>
<td>Seattle: East Line</td>
<td>13.9</td>
<td>10</td>
<td>$259 million</td>
</tr>
<tr>
<td>Portland: Orange Line</td>
<td>7.3</td>
<td>10</td>
<td>$243 million</td>
</tr>
<tr>
<td>Los Angeles: Expo Line Phase 2</td>
<td>6.6</td>
<td>7</td>
<td>$225 million</td>
</tr>
<tr>
<td>Houston: Green Line</td>
<td>3.2</td>
<td>7</td>
<td>$223 million</td>
</tr>
</tbody>
</table>

Source: Eno Center for Transportation, “A Blueprint for Building Transit Better”
$2+ Billion in Permitted & Planned Community Development

Elevate At SouthWest Station, Eden Prairie

The Moline at Downtown Hopkins Station

Minnetonka Station at Opus Station

Beltline Station Development, St. Louis Park
## Disadvantaged Business Enterprise

<table>
<thead>
<tr>
<th>Construction Contract Description</th>
<th>DBE Billed to Date</th>
<th>DBE Percentage Achieved*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Civil: 16%</td>
<td>$134.2 Million</td>
<td>20.9%</td>
</tr>
<tr>
<td>Systems: 12%</td>
<td>$10.9 Million</td>
<td>16%</td>
</tr>
<tr>
<td>Franklin OMF: 15%</td>
<td>$7.5 Million</td>
<td>19.1%</td>
</tr>
<tr>
<td><strong>OVERALL ACHIEVEMENT: 15%</strong></td>
<td><strong>$152.8 Million</strong></td>
<td><strong>20.4%</strong></td>
</tr>
</tbody>
</table>

*As of November 30, 2021
Green Line Extension = Statewide Jobs

$53,170,758
IN PAY GOING TO
65 of the 87 MINNESOTA COUNTIES
SO FAR

*As of July 2021
Statewide economic benefits

• Putting people to work:
  ▪ More than 1.8 million hours worked
  ▪ Paychecks for Minnesotans worth more than $53.1 million and growing
  ▪ Employing folks from 75% of counties statewide
  ▪ $134 million billed by Disadvantage and Business Enterprise companies (20.9%) for civil construction activities, exceeding the goal of 16%
  ▪ Project will support 7,500 construction and construction related jobs and $350 million in payroll to be reinvested in communities throughout the Twin Cities and the state

65 of 87 Minnesota counties have someone bringing home a Green Line Extension paycheck
2021 Construction Recap
Accomplished by end of 2021: LRT construction sequencing

✓ Done!

Utilities
- Excavation
- Relocation / installation

✓ Done!

Site Prep
- Clear buildings
- Establish work zones, detours

60% Complete

Structures, track, stations
- Track beds
- Track
- Buildings
- Roadwork
- Trails

~2% Complete

Systems
- Overhead catenary
- Safety & security
- Ticket vending

Prior to revenue service

Testing
- Safety
- Comms
- Operator training

Outreach & Communications
Construction highlights: 2021

• Civil construction: 60% complete
• Under construction:
  ▪ 25 bridges completed or underway out of 29
  ▪ 8 tunnels underway out of 8
  ▪ 114 retaining walls completed or under construction out of 131
• 95% of 946 private utilities completed
• 75% of nearly 1,300 public utilities completed
• Completed all 15 building demolitions
• Systems contractor mobilized and in design and procurement
• Franklin Operation & Maintenance facility modifications are nearly complete
• 26 of 27 Light Rail Vehicles delivered
LRT stations underway

• 11 stations underway of 16
  ▪ When complete will allow a stress-free commute from Eden Prairie to downtown Minneapolis
    – Consistent commute time, unimpacted by traffic
  ▪ Improved connections to regional destinations such as Minneapolis Grand Rounds, Methodist Hospital, Downtown Hopkins, UnitedHealth Group's Optum corporate campus, Eden Prairie Center
Opus LRT Corridor, Minnetonka
TH 62 Shift for LRT Tunnel, Minnetonka
LRT Tunnel at TH 62, Minnetonka
TH 62 LRT Tunnel
Retaining Walls, Minnetonka
Smetana Bridge, Minnetonka
Minnetonka Hopkins LRT Bridge
Minnetonka Hopkins LRT Bridge
2022 Construction Overview
2022 Minnetonka Construction Activity Map
Minnetonka: 2022 Construction Highlights

• Bridges and Tunnel
  ▪ Highway 62 LRT tunnel: trackwork
  ▪ Minnetonka-Hopkins LRT bridge: forming, trackwork and finishing work
  ▪ Feltl Road bridge: walls, deck/track work, and finishing work underway

• Traffic Impacts
  ▪ Current traffic impacts on Red and Yellow Circle Drives and Feltl Road will remain into fall/winter 2022
  ▪ A short-term closure of Green Circle Drive to complete road repairs
  ▪ A short-term closure to complete LRT track crossings at Bren Road West

• Trackwork
  ▪ Trackwork will continue between Highway 62 LRT tunnel and Smetana bridge
Minnetonka: 2022 Construction Highlights

- **Station**
  - Opus Station: finishing work is underway

- **Systems (Electrical) Work**
  - Systems construction will begin

- **Completion Milestones**
  - Red Circle Drive, Yellow Circle Drive, Green Circle Drive and Feltl Road are expected to be in their final condition this year
  - All retaining walls are expected to be substantially completed this year
  - Opus Station will be substantially completed this year
Systems Contract Work
Systems Contractor

- Aldridge Parsons Joint Venture (APJV)
  - Project Team Management ≈ 25
  - Project Craft Workers ≈ 40-50
  - Subcontractors ≈ 25
Foundation work for Traction Power Substation (TPSS)
Finished TPPS Stations
Inside a TPSS Station
Communications and Outreach
2021 Communications

• Construction updates: 16,600+ subscribers; 46% open rate
• Hotline: 19 calls from Minnetonka residents
  ▪ 612-373-3933
• Hundreds more non-hotline calls and emails from community members to outreach staff
  ▪ Email: James.Mockovciak@metrotransit.org
• Construction Information Workgroup meetings: 4
• Public Walking Tours: 3

West Metro Home Remodeling Fair, Feb. 27
Upcoming Community Outreach

• Public construction tours
  ▪ Running spring, summer, fall as weather allows
  ▪ Efforts to connect with schools and youth groups
  ▪ Virtual tours

• Pop-up events

• Continued weekly/bi-weekly construction updates
MORE INFORMATION

Website: GreenLineExt.org
Email: swlrt@metrotransit.org
Twitter: @GreenLineExtMN
Instagram: @GreenLineExtMN