METRO
Gold Line
BRTOD Plans

Maplewood Station
BRTOD Plan Elements

City Council Work Session
October 25, 2018
Agenda

1. Maplewood Station BRT Project Status
2. Draft Development & Circulation Plans
3. Discussion
BRT Preliminary Engineering
Gold Line BRT Project Process

Completed

- Transit needs analysis
- Analysis to identify routes
- Finalize route, general station locations, and transit type (bus rapid transit)

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>2010</td>
<td>Transit needs analysis</td>
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<tr>
<td>2012</td>
<td>Analysis to identify routes</td>
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<tr>
<td>2016</td>
<td>Finalize route, general station locations, and transit type (bus rapid transit)</td>
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Current

- Project Engineering (42 Months)
- BRTOD planning (18 Months)
- Gold Line construction

Public Engagement

Gold Line opening day 2024
Maplewood Station—Preliminary Engineering (September 2018)
Maplewood Station—Preliminary Engineering (September 2018)
Maplewood Station—Preliminary Engineering (looking west)
Bus Rapid Transit Oriented Development Plans
(1/2 mile of the stations)
Led by partner cities and Washington/Ramsey Counties
Increase Ridership through Improved Access and Transit-Oriented Development
Corridor Vision

- Unified, complimentary, yet diverse stations
- Safe, direct, and convenient network of walking and biking station access routes
- Vibrant and equitable station areas where people desire to live, work, shop, and recreate
**Neighborhood**

Established residential areas with fewer opportunities for transit-oriented in fill or development

**Employment**

Established employment centers that provide family-wage jobs and high transit ridership opportunities

**Mixed use Neighborhood**

Established or significant redevelopment opportunities for neighborhood-scale residential, retail, and employment

**Commerce**

Established commercial centers that are corridor and region-serving

Station Typologies
**Corridor Trail**
12’ Trail (10’ min.) adjacent to BRT or parallel route

**Collector Trail**
12’ Trail (10’ min.)
Existing and planned trails

**Station Access**
Sidewalks, buffered/protected bike lanes, & trails

**Neighborhood Access**
Sidewalks, and painted bike markings

**Street Hierarchy**
Gold Line Corridor Concept
Maplewood Employment Station

Provides transit access to:

- 3M campus
- Maplewood neighborhoods
- Battle Creek Park
Maplewood Employment Station

Within the Maplewood Station area, there are fewer opportunities for new transit-oriented development compared to other corridor stations.

To maximize transit ridership, BRT walking and biking station access improvements are essential.
<table>
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<tr>
<th>Phase 1-</th>
<th>Issues &amp; Opportunities</th>
<th>Oct 2017</th>
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<td>Phase 2-</td>
<td>Preliminary Station Area Concepts</td>
<td>Feb 2018 (Council) Mar 2018 (3M On-line) Apr 2018 (Neighborhood)</td>
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<td>Phase 4-</td>
<td>Draft BRTOD Plan</td>
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Key Issue:

No walking and biking routes currently exist to the station
Issues and Opportunities (Community Engagement-- October 2017)

Key Issue:
No walking and biking routes currently exist to the station.

Key Opportunities:

Establish the station as a ‘gateway’ to jobs and recreation

- Explore a walk and bike bridge over I-94 to the station
- Link the station to Battle Creek Park
- Improve existing arterial trails by providing safe crosswalks at all McKnight Road and Century Avenue intersections
Few vacant, underutilized or redevelopment sites with ¼ mile of station

Proposed Mixed Use Community Designation within ½ mile (Draft 2040 Comprehensive Plan)

Preliminary Development Concepts (Community Engagement: Feb–Apr 2018)
Preliminary Circulation Concepts (Community Engagement: Feb-Apr 2018)

- 3M/Maplewood Station
- Battle Creek Regional Park
- Upper Afton Park
- 5 Minute Walk
- 1/4 Mile Radius

Station Access-
Corridor Trail

Station Access-
Walk and Bike Bridge

Station Access-
Neighborhood Access
3M Employee Survey Summary

Station Access-Corridor Trail (579 Responses)
- 96% Approval (573 support trail)

Station Access- Walk and Bike Bridge (305 Responses)
- 91% Approval (279 support bridge)

Battle Creek Park Improvements (305 Responses)
- 70% Walk and bike bridge (239 mention bridge as future park improvement)
Draft Circulation & Development Plans
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<th>Description</th>
<th>Date/Events</th>
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<td>Phase 3</td>
<td>Draft Development and Circulation Plans</td>
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Circulation Plan - Typical Condition

Corridor Trail - Hudson Road

BEFORE

3M Property
Hudson Road
Right-of-way
Hudson RD

No trail and BRT

AFTER

3M Property
Hudson Road
Right-of-way

Add 10' trail and 10' landscaped boulevard w/

Add BRT

Corridor Trail - Hudson Road
Station Access (Maplewood Bridge)
Maplewood Station—Preliminary Engineering (looking west)

Station platform
Station platform
Corridor Trail
BRT Guideway

Rendering: Crandall Arambula
Maplewood Station & Bridge

Bridge (to Neighborhood & Battle Creek Park)

Pedestrian Bicycle Trail (ramp to station)

Corridor Trail

BRT Guideway

Sidewalk to 3M

Rendering: Crandall Arambula
Berm provides separation between station and 3M.
Pedestrian and Bicycle Bridge
(w/ landscaped planter, buffer and fence)

12’ Trail

Maplewood Bridge
Pedestrian and Bicycle Bridge

Maplewood Bridge—Looking north
Maplewood Bridge Crossing Preliminary Cost Estimate— $7 Million
Regional Bike Trail Network (RBTN)

Meets Metropolitan Council Designation Criteria

- Trail and bridge improves access for walking and biking of all abilities
- Connects major employment centers, regional parks, and transit system
- Reduces barriers along and across I-94
Development Plan

Draft 2040 Comprehensive Plan accommodates some station area transit-oriented development:

- Mixed Use Community Designation for commercial properties along Century Avenue (allows mix of uses including multi-family residential and professional office)
Proposed Mixed Use Community Designation within ½ mile
(Draft 2040 Comprehensive Plan)
Foster “missing middle” transit supportive residential infill

Consider Draft 2040 Comprehensive Plan addition that allows accessory dwellings, duplex, triplex, and townhome uses within the station area single family residential neighborhoods
Allow Accessory Dwellings, Duplex, Triplex and Townhome

Potential Update- 2040 Comprehensive Plan
Draft Implementation Plan
## Maplewood Station BRTOD Phases & Engagement

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Draft Implementation

Potential policy and code updates

- ‘Missing middle’ land use changes
- Identify Corridor Trail as a regional bike transportation network
- Update future land use map and description
Draft Implementation

Potential Maplewood Bridge projects

- Identify potential funding sources
  - Metropolitan Council
  - Public/Private Partnerships
  - Capital Improvement Plan

- Coordination
  - MnDOT
  - Ramsey County
  - Others
METRO Gold Line BRTOD Plans

Maplewood Station BRTOD Plan Elements

City Council Review Session
October 25, 2018