

SOUTHWEST

Green Line LRT Extension



# LRT STATION DESIGN

March 24, 2015



# Today's Topics

- LRT Station 101
  - § Station Site Elements
  - § Station Platform Elements
- Station Design Approach
- Station Open Houses



# LRT Station 101

## Station Site Elements

# Station Site Elements

- Park-and-Ride
- Kiss-and-Ride
- Bus Facilities
- Landscape/Streetscape
- Stormwater BMPs
- Wayfinding
- Site Lighting
- Bike Parking
- Vertical Circulation

# Station Site



*Blue Line 28<sup>th</sup> Avenue Station*

# Park-and-Ride (surface lot)



*North Star Anoka Station*

# Parking Structure



*Blue Line 28<sup>th</sup> Ave Station*

# Passenger Drop Off



*Blue Line 38<sup>th</sup> Street Station*

# Bus Facilities



Blue Line 46<sup>th</sup> Street Station

# Bus Operator Facilities



*Blue Line 46<sup>th</sup> Street Station*

# Landscape/Streetscape



*Green Line Capitol/Rice Street Station*

# Stormwater BMPs: Rain Garden



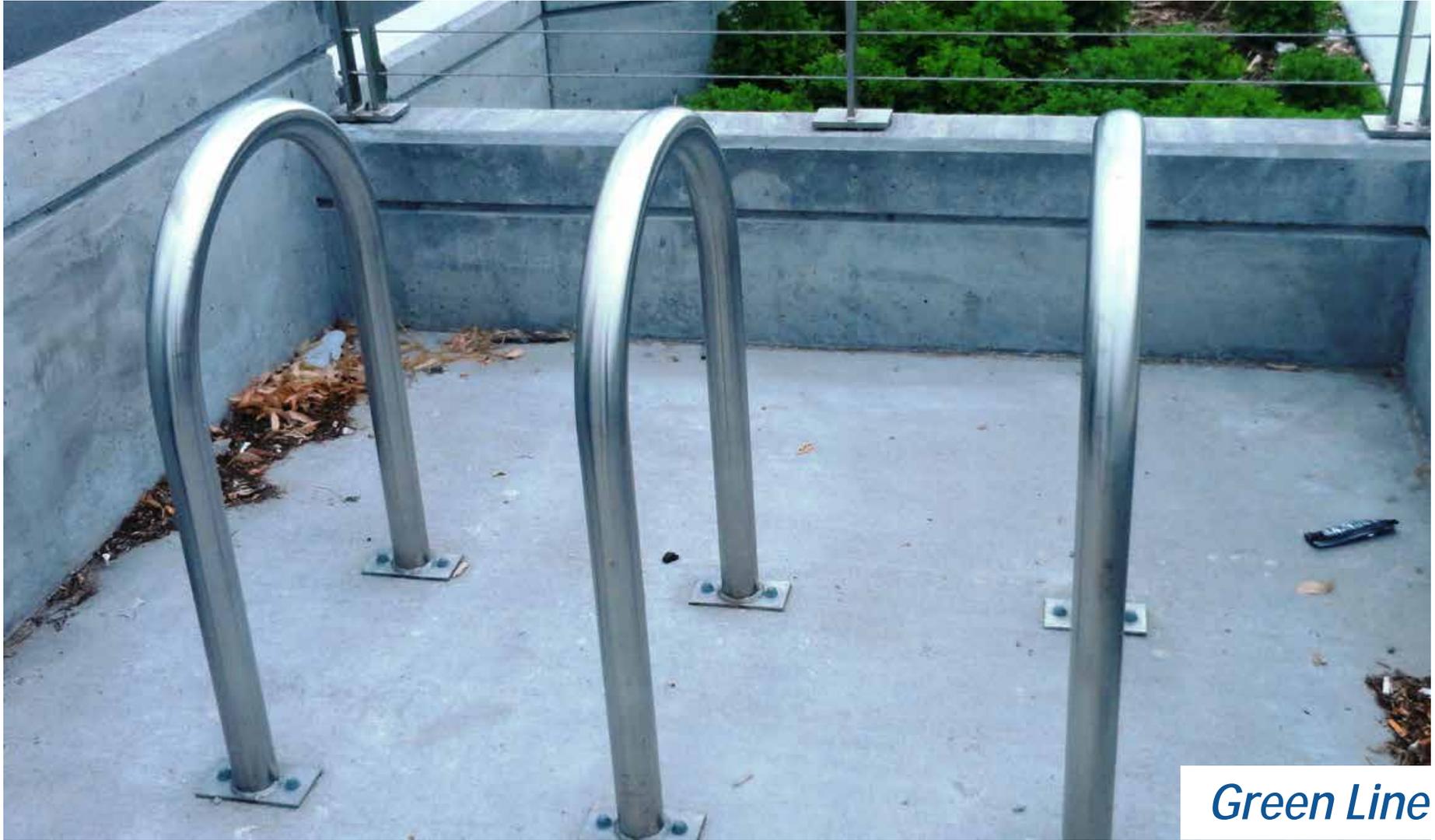
*Green Line*

# Site Lighting



*North Star Coon Rapids Station*

# Bike Parking



*Green Line*

# Bike Parking



*Blue Line 46<sup>th</sup> Street Station*

# Vertical Circulation



*Green Line West Bank Station*



# LRT Station 101

## Station Platform Elements

# Platform: Center



*Blue Line 38<sup>th</sup> Street Station*

# Platform: Side



*Blue Line 50<sup>th</sup> St/Minnehaha Park Station*

# Station Elements: Defining Features

- Canopy
- Structure
- Enclosure
- Platform
- Lighting
- Access Ramp & Railings
- Tactile Warning Edge
- Emergency Phone
- Security Cameras
- Intertrack Fencing
- Active Warning Devices
- Overhead Catenary System
- Communication Cabinet
- Identification Sign
- Kiosk Map & Schedule
- Smart Card Validator & Ticket Vending Machine
- Variable Message Signs
- Speakers
- Heaters
- Furnishings
- Integrated Public Art

# Platform Canopy and Structure



*Green Line Prospect Park Station*

# Passenger Waiting Enclosure



*Green Line Capitol/Rice Street Station*

# Station Elements: Safety Features

- Canopy
- Structure
- Enclosure
- Platform
- Lighting
- Access Ramp & Railings
- Tactile Warning Edge
- Emergency Phone
- Security Cameras
- Intertrack Fencing
- Active Warning Devices
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# Lighting



*Green Line Union Depot Station*

# ADA Compliant Access Ramp & Railing



*Blue Line Fort Snelling Station*

# Tactile Warning Edge



# Emergency Phone & Security Cameras



# Intertrack Fencing



*Green Line*

# Active Warning Devices



*Green Line*

# Station Elements: LRT Systems Features

- Canopy
- Structure
- Enclosure
- Platform
- Lighting
- Access Ramp & Railings
- Tactile Warning Edge
- Emergency Phone
- Security Cameras
- Intertrack Fencing
- Active Warning Devices
- Overhead Catenary System
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# Overhead Catenary System: On-Platform



*Blue Line Target Field Station*

# Communication Cabinet



*Blue Line*

# Station Identification Signs



*Green Line*

# Station Identification Signs



*Blue Line*



*Green Line*

# Kiosk Map & Schedule: On-Platform



*Blue Line*

# Smart Card Validator & Ticket Vending Machine



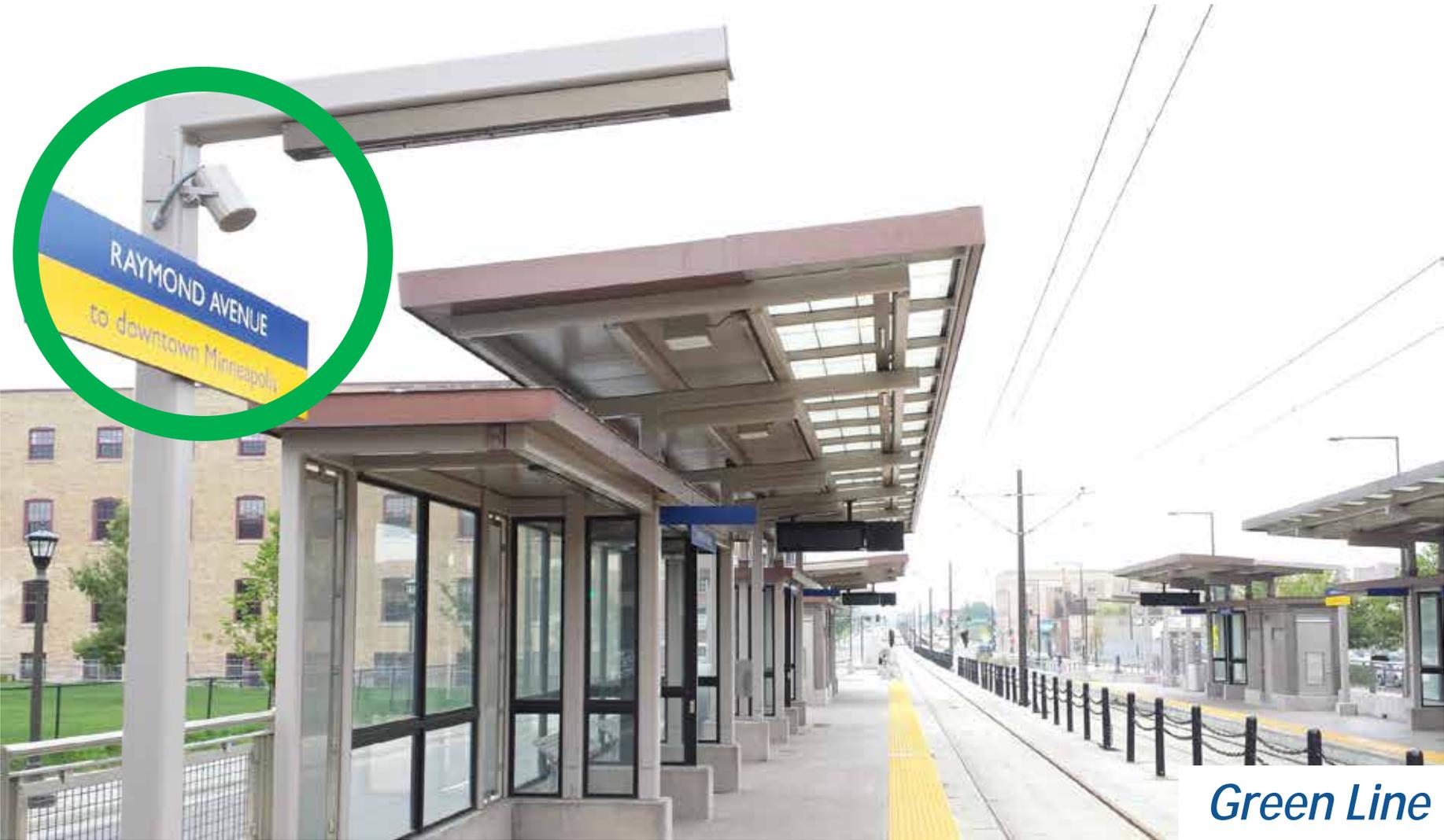
*Blue Line*

# Variable Message Signs



*Blue Line*

# Speakers



*Green Line*

# Station Elements: Passenger Amenities

- Canopy
- Structure
- Enclosure
- Platform
- Lighting
- Access Ramp & Railings
- Tactile Warning Edge
- Emergency Phone
- Security Cameras
- Intertrack Fencing
- Active Warning Devices
- Overhead Catenary System
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- Furnishings
- Integrated Public Art

# Heaters



# Furnishing: Seating



*Green Line*

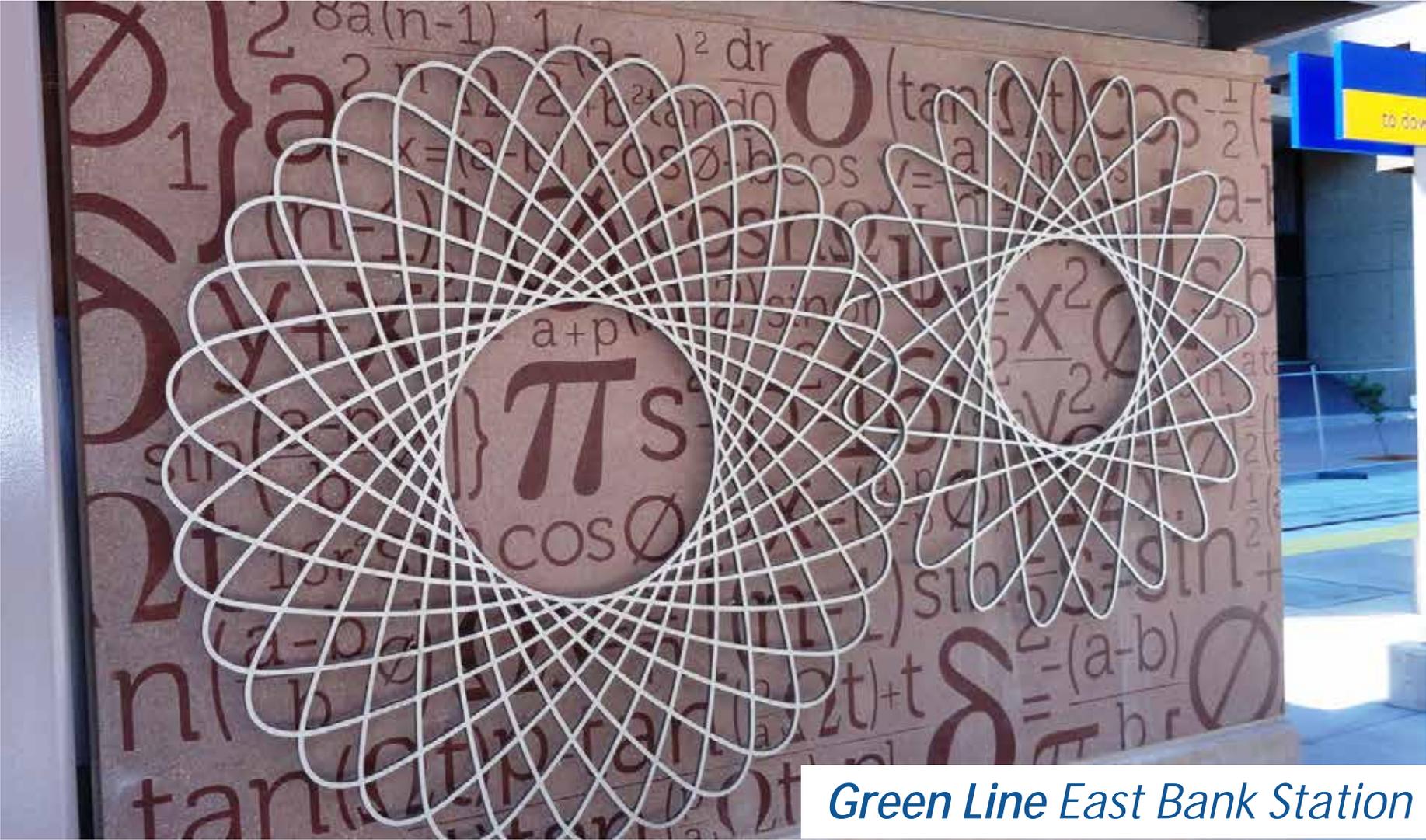
# Furnishings: Waste Receptacles/Recycling



*Green Line*



# Integrated Public Art



*Green Line East Bank Station*

# Integrated Public Art



*Green Line Lexington Pkwy Station*

# Integrated Public Art



*Green Line Prospect Park Station*

# Integrated Public Art



*Green Line West Bank Station*

# Station Design Approach

# Station Design Goals

- Acknowledge the different communities and station sites along the line
- Tie the stations together with a corridor-wide design approach
- Provide design consistency with the METRO Green Line
- Control construction and maintenance costs based on lessons learned from past projects

# Station Context



Business Park



Activity Center



Natural Landscape



Neighborhood



Corporate Campus



Downtown Neighborhood

# Station Design Approach

- Identify 4 station types based on station site characteristics
  - § Each station to be 1 of 4 unique station types
- Station site character contributors
  - § Public comments
  - § City, county, and park staff comments
  - § Previous Hennepin County station area planning – Transitional Station Area Action Plans (TSAAP)
  - § Southwest LRT Project Office staff station site observations

# Four Station Types

- Landscape Station
- Neighborhood Station
- Town Square Station
- Landmark Station

**Understated**



**Bold**

# Use Station Elements from the Green Line



*Green Line Dale Street Station*

# Station Prototypes

Landscape



Neighborhood



Town Square



Landmark



# Station Types

- Landscape Station:
  - § Located within a natural setting or a gateway to a significant natural features
  - § Architecturally understated and sensitive to its context
  - § Design engages with natural and recreational features



# Station Types

- Neighborhood Station:
  - § Located within a neighborhood/ urban village setting
  - § Architecturally sensitive to the pedestrian scale of the neighborhood
  - § Design engages with neighborhood contextual features



# Station Types

- Town Square Station:
  - § Located at a gateway to a major activity center
  - § Architecturally recognizable as a significant place in the community
  - § Design enhances public spaces



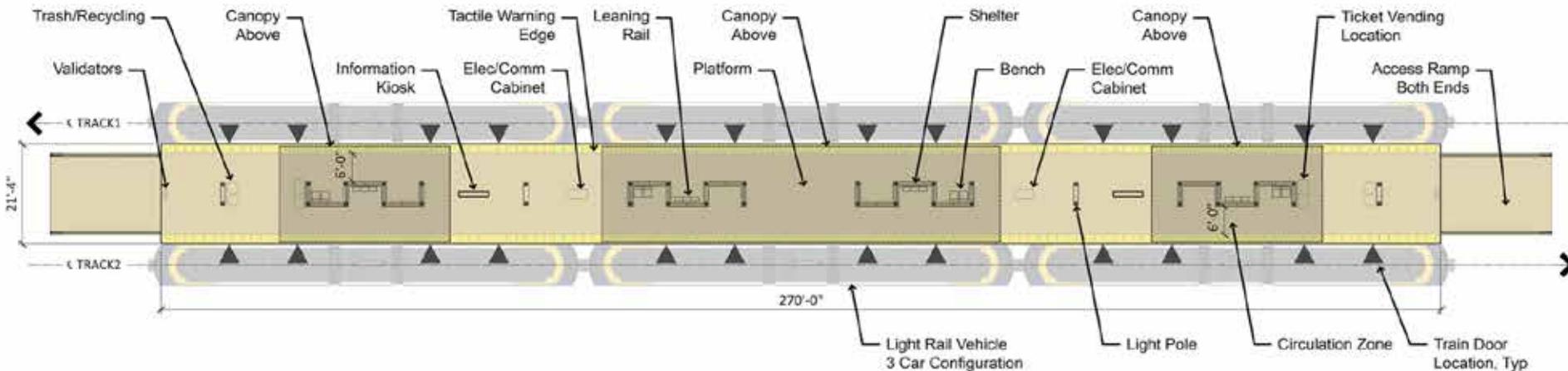
# Station Types

- Landmark Station:
  - § Located at a community amenity, institution or major employment area where a station might be less visible
  - § Architecturally recognizable as significant destination
  - § Design enhances the station visibility



# Station Design Consistency

- Station layout and location of features needs to be consistent for passenger use
- Typical center platform plan diagram:



# Station Design Flexibility

- 4 station types based on setting
- Adjustments to station types based on site specific conditions
- Additional use of station elements for wayfinding
- Color, texture and pattern
- Integrated Public Art
  - § On-platform
  - § Off-platform

# Station Design Input

- The Southwest Project Office (SPO) is looking for your input on:
  - § Significant station site characteristics
  - § Suggested station type locations
  - § Station prototypes

# Station Open House

# Station Open House Schedule

- Minneapolis Stations

- § Dunwoody College of Technology, 818 Dunwoody Blvd.

- Thursday, April 2: 5:30 – 7:30PM

- Wednesday, April 8: 7:30 – 9:30AM

- St. Louis Park Stations

- § St. Louis Park City Hall, 5005 Minnetonka Blvd.

- Wednesday, April 8: 5:30 – 7:30PM

- Eden Prairie Stations

- § Eden Prairie City Center, 8080 Mitchell Road

- Thursday, April 9: 5:30 – 7:30PM

- Hopkins & Minnetonka Stations

- § Hopkins City Hall, 1010 1<sup>st</sup> Street S.

- Tuesday, April 14: 5:30 – 7:30PM

# More Information

Online:

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