

Met Council February 22, 2012

Improving mobility

Easing congestion

Strengthening our communities



Today's Topics





- 2011 Lessons Learned
- 2012 construction look ahead
 - Civil East
 - Civil West
 - Operations & Maintenance Facility
 - Systems
 - Light Rail Vehicles



2011 Lessons Learned





Vehicle Traffic and Access



Issue: North/South Lane Restrictions

- Phased intersection construction to maintain through traffic
- 2-3 month impact to intersections







Action: Full Closure of Select Intersections

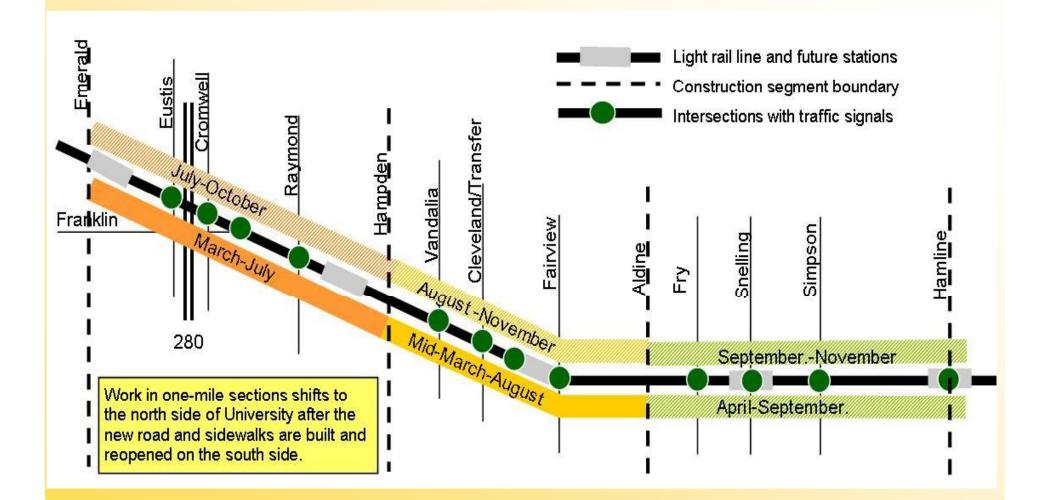
- Expedite work over 2-4 weeks
- Use variable message signs to provide detour directions
- Provide maps showing detours







Issue: Length of Work Zones

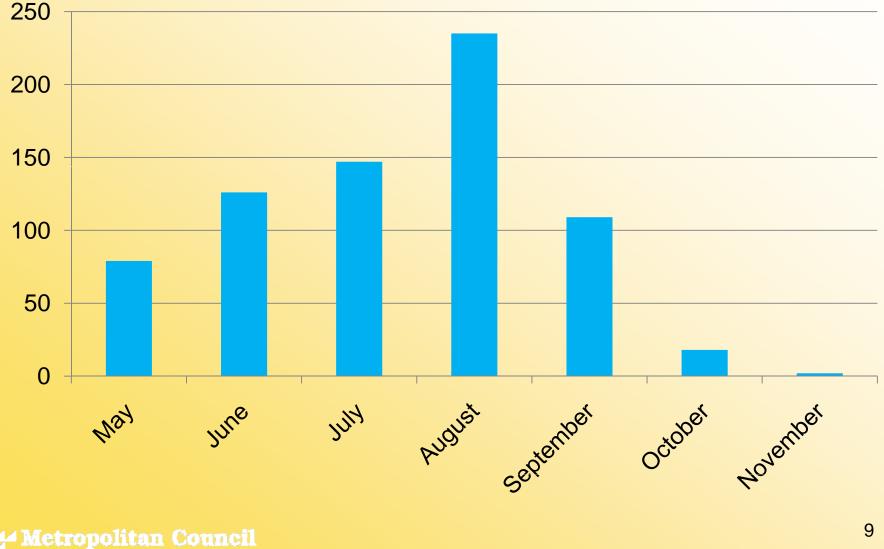




Issue: Idle work zones (CE)



Action: New Workers Added By Month



Action: Link construction zone size with crew resources (CE)



Action: Continue to have inspectors track issues; add CCPO staff





Pedestrian Access



Issue: No Accessible Ramp to Bus Stop

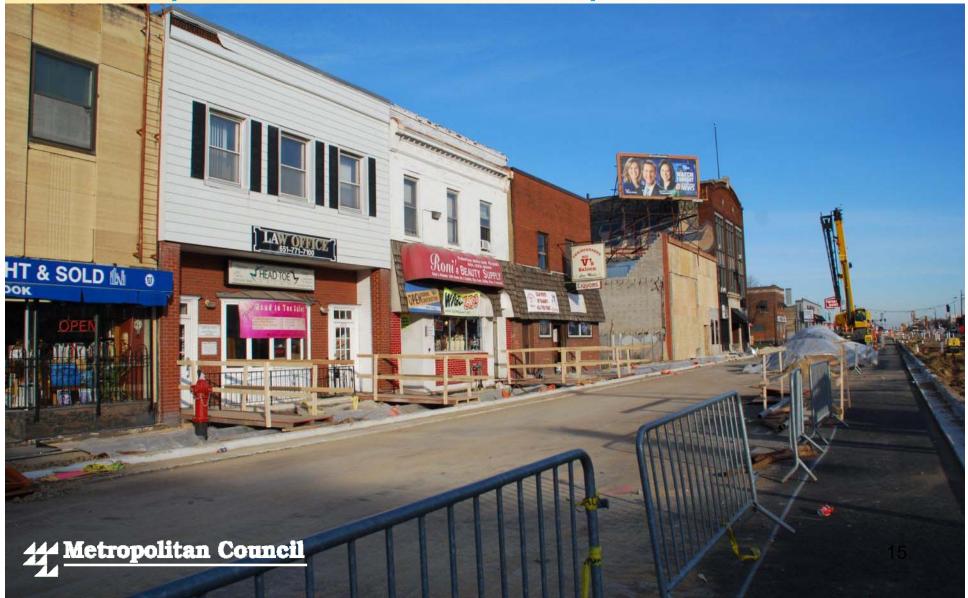


Action: Temp bus stop with ramp and protective railings, barriers and trash cans

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Issue: Utility installation and sidewalk replacement affected ped access



Action: Use ADA temp bridges to provide ped access during sidewalk construction



Issue: Confusing signage







Action: Use proper signage



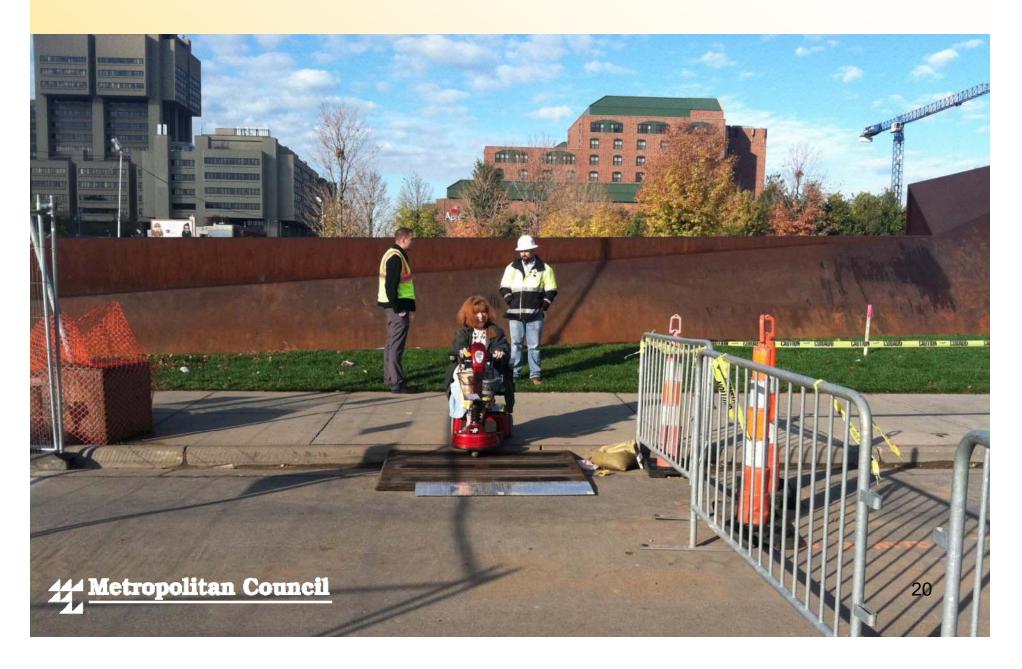
Issue: Maintaining Temporary Sidewalks and Access (CE)







Action: Conduct ADA Field Checks





Outreach



24-hour Hotline

 Over 100 signs posted throughout the corridor

Central Corridor Light Rail Transit Construction Hotline 651-602-1404 www.centralcorridor.org



Weekly Construction Updates

Central Corridor Light Rail Transit

Light Rall Transit

St. Paul - University Avenue West Construction Update April 16-22, 2011



Support corridor businesses: Dine out and catch a show



Dan Simonson (left) and James Thissen of Caffe Biaggio wart passers-by to know that they can still dine at the Italian restaurant at 2356 University Ave. W. in St. Paul despite LRT construction on the street in front of them

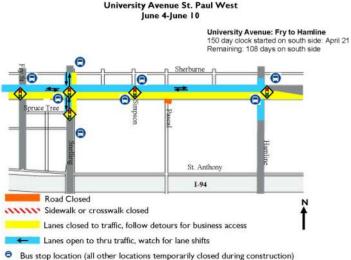
For more ideas, go to: www.discovercentralcorridor.com or www.twitter.com/discovercclrt

Highlights and Upcoming Work

- Snelling is reduced to one lane in each direction between Spruce Tree and Sherburne, lanes shifted to west side of Snelling
- University at Snelling reduced to one lane in each direction on the south side of the road.
- Construction preparation along University between Aldine and Syndicate will start the week
 of April 18 and construction is anticipated to begin starting the week of April 25.
- Highway 280 will be closed April 29-May 2 for bridge work.
- Crews start work on retaining wall on south side of University between Prior and Cleveland; sidewalk on south side of University closed. Use sidewalk on the north side of University as alternate route.

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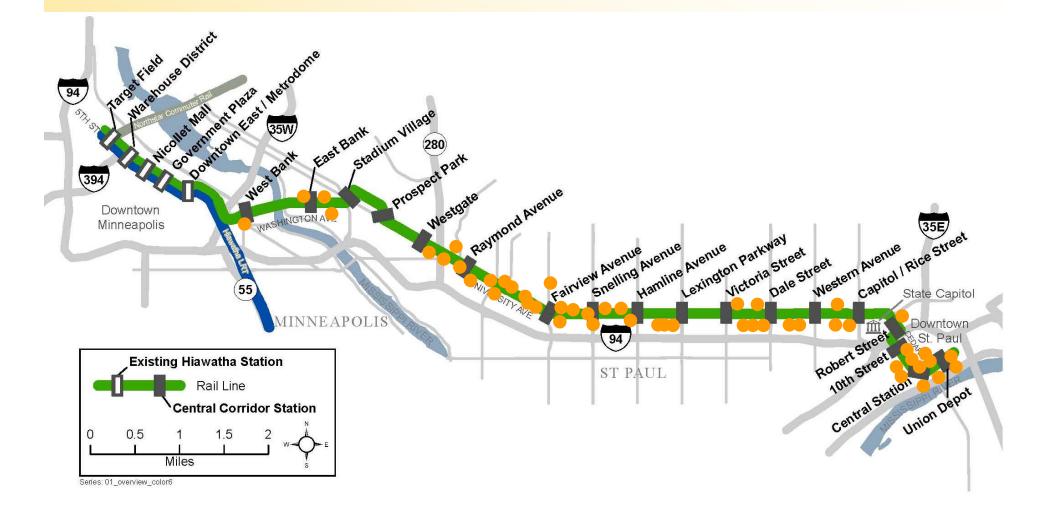
Signalized Intersections

Traffic details

- Crews continue paving and working on the intersections of University with Berry, Eustis, Cromwell, and Franklin; watch for delays.
- Snelling between Spruce Tree and Sherburne reduced to one lane each way.
- Utility work begins on the east side of Hamline at the intersection with University; watch for lane shifts.
 Construction crews continue to work on east side of Raymond between University and Wabash; impacts
- Construction crews continue to work on east side of Raymond between University and vvabash, impacts include lane shifts and removal of on-street parking.
- University between Emerald and Hamline traffic shifted to north side of University onto three lanes: one eastbound, one westbound lane and a shared center lane for left turns.
- Twelve cross streets in the construction zone are signalized for full traffic movements: Eustis, Cromwell, Franklin, Raymond, Vandalia, Cleveland, Prior, Fairview, Fry, Snelling, Simpson and Hamline. These streets will be reduced to one lane each way at the intersection with University and some on-street parking will be removed to allow for lane shifts. All other cross streets south of University closed; signage directs vehicles to alternative access to businesses.
- Access to the Midway Shopping Center maintained from St. Anthony via Pascal, from University via Simpson and driveways off of Snelling and Hamline.



Locations of Construction Posters





Working with businesses on access plans



"Open For Business" Signs

- Placement
- **Durability**







2012 Construction Look Ahead



Civil East Construction Starts



University Avenue Emerald to Hamline Construction



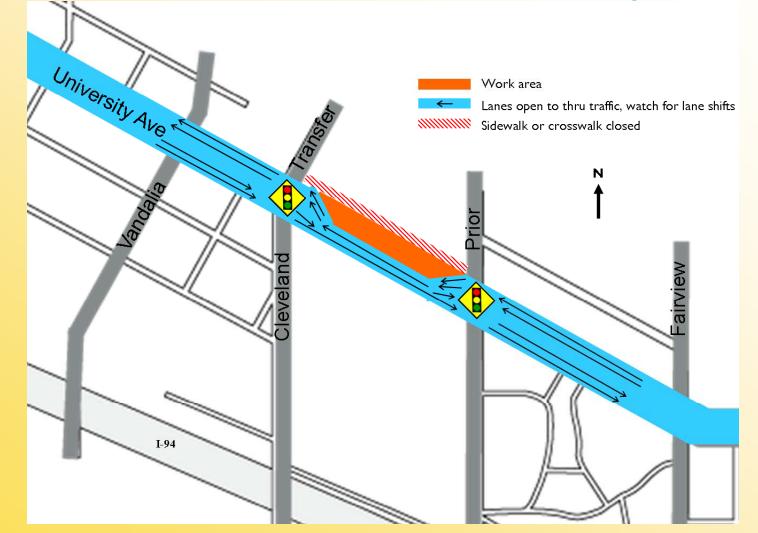
Central Corridor

Light Rail Transit

- Cleveland to Prior north side roadway construction
 - Traffic shifted to south side
 - Complete early summer
- Cleveland to Hamline trackwork
 - Intermittent lane closures
 - Complete midsummer
- University Ave. bridge over TH280
 - Southside bridge deck mill and overlay
 - Complete early summer



University Avenue Cleveland to Prior Traffic Impacts





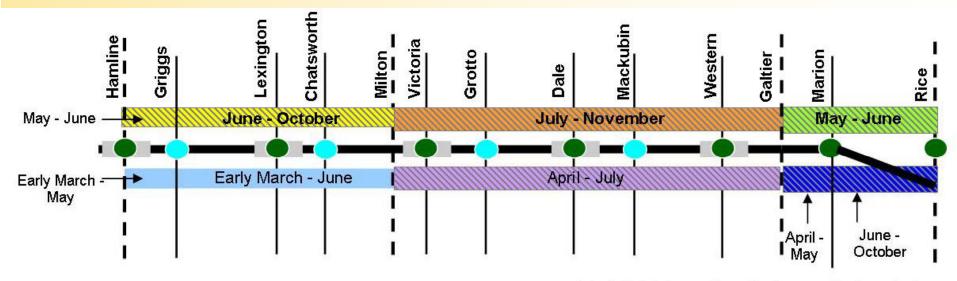
University Avenue Hamline to Rice Construction throughout 2012



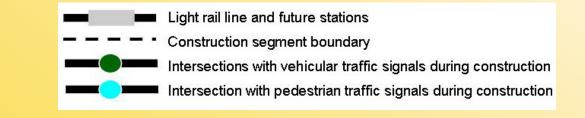
- Relocation and installation of underground utilities
 - Reconstruction of roadway and intersections
 - Installation of new traffic signals and streetlights
 - Construction of stations at Hamline, Lexington, Victoria, Dale, Western and Capitol/Rice Street
- Installation of new landscaping



University Avenue Hamline to Rice Traffic Impacts



Actual start dates and length of segments dependent on contractor crew availability and weather.





University Avenue Stage 1 – South Side

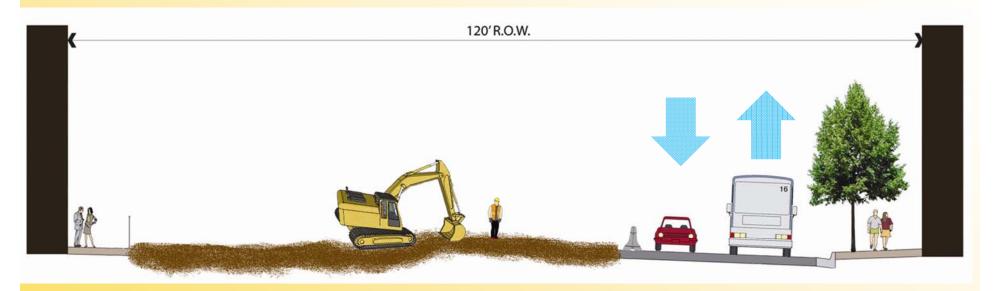


Work starts on first 2/3 of street

- Maintain pedestrian access by keeping at least 4-5' of sidewalk open, providing temporary walkways
- Maintain one lane of traffic in each direction
- Coordinate with businesses and property owners to maintain access



University Avenue Stage 2 – North Side

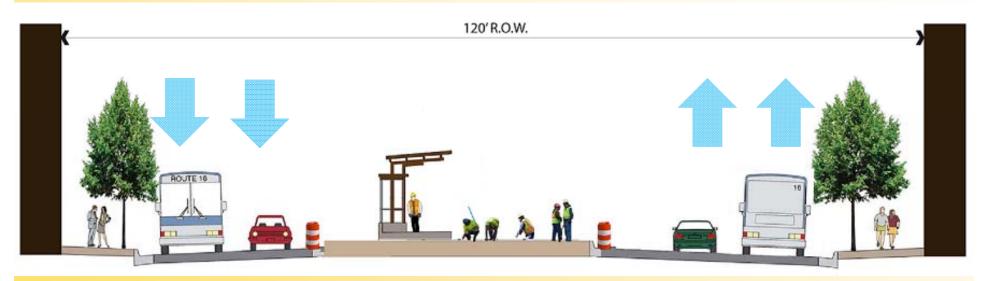


Work shifts to the other side of the street

- Maintain pedestrian access by keeping at least 4-5' of sidewalk open, providing temporary walkways
- Maintain one lane of traffic in each direction
- Coordinate with businesses and property owners to maintain access



University Avenue Stage 3 - Center



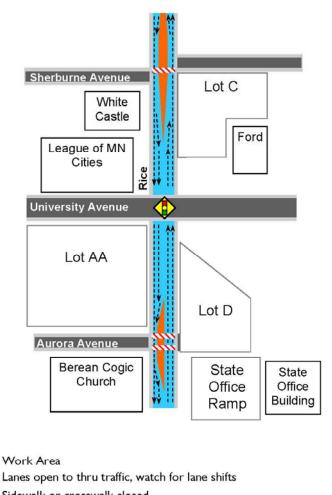
Work continues in the middle of the right-of-way after road and sidewalk are restored

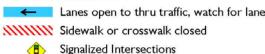
Construct stations
Install systems and OCS poles
Lay and weld track

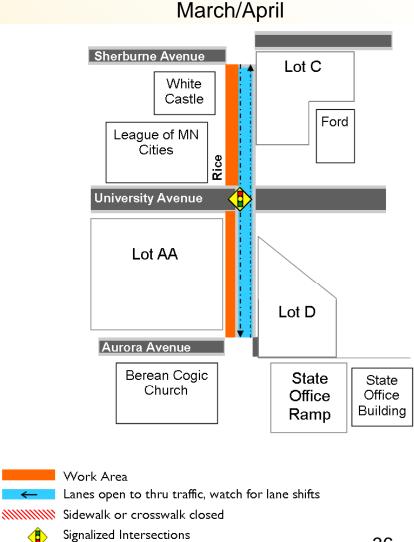
Conduct integrated testing

University Avenue Rice Xcel Work

February/March







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University Avenue Rice to Robert March – April Construction



- Advanced work
- Intermittent activities
 - Removals
 - Temporary shoring
 - Advanced utility work
 - Retaining walls
- Expectations
 - Maintain 1-lane of traffic in each direction
 - Monitor noise and vibration
 - Adjust construction methods to minimize noise and vibrations

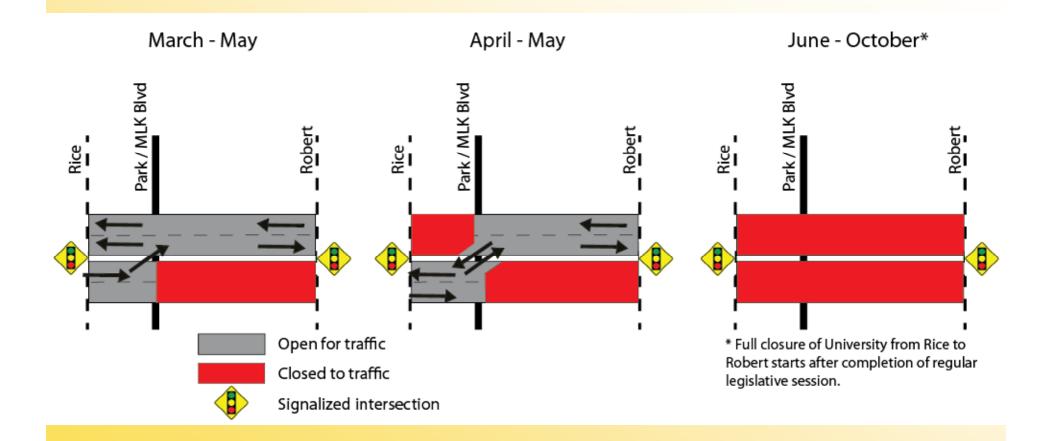


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University Avenue Rice to Robert Heavy Construction After Regular Session Ends

- Activities
 - Utility relocation
 - Coordinate with State on proposed tunnel construction, if approved
 - Excavation for trackwork
 - Road and sidewalk construction
- Expectations
 - University Avenue closed for light rail construction for up to 120 days;
 Construction extension required if tunnel is approved
 - Pedestrian access maintained via 38
 Cedar and Rice

University Avenue Rice to Robert Traffic Impacts





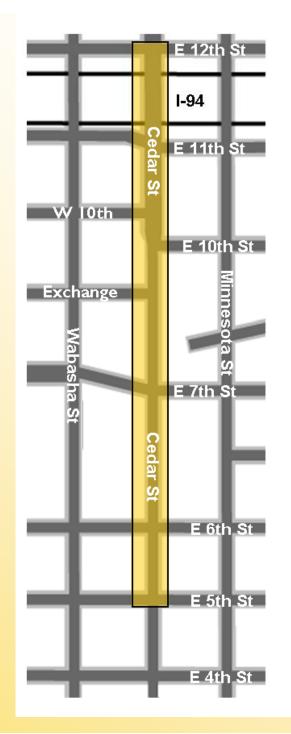
Cedar Street 12th Street to 4th Street Construction



- Relocation and installation of underground utilities
- Reconstruction of roadway and intersections
- Reconstruction of sidewalk
- Installation of new traffic signals and street lights
- Construction of embedded track
 - Floating slab track from 10th to 7th
- Construction of stations at 10th Street and Saint Paul Central

Cedar Street 12th St – 4th St

- Traffic Impacts
 Cedar Street closed to through traffic late Eeb - Nov /Dec
 - traffic late Feb. Nov./Dec.
- Intermittent full and partial intersection closures
- Access maintained to parking ramps and loading docks
- Sidewalk maintained on at least one side of Cedar
- Crosswalks maintained across at least one side of each intersection





Cedar Street 12th Street to 4th Street Intersection Closures

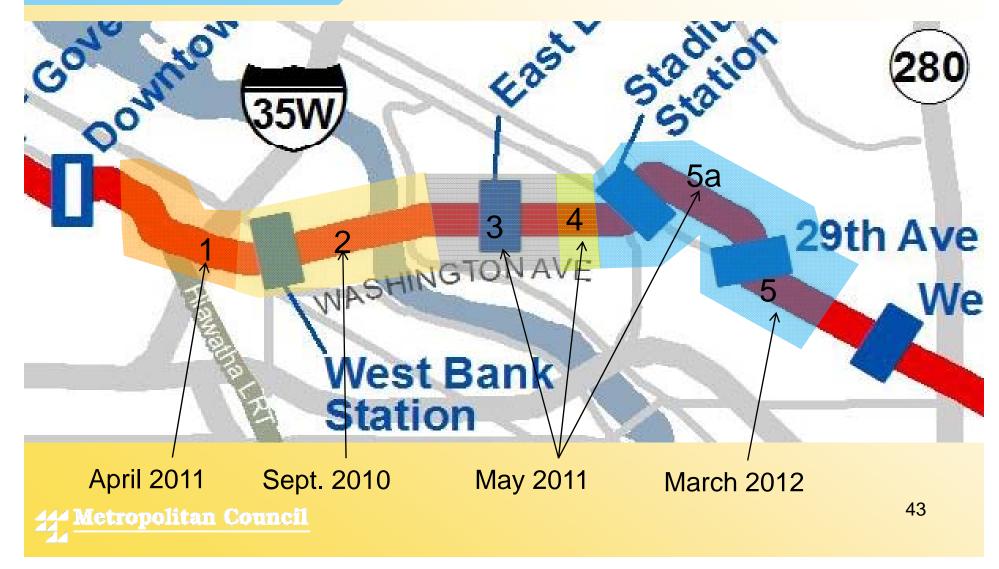
- 1. March,
 - Cedar & 11th Street (4 weeks)
 - Cedar & Sixth Street (8 weeks)
- 2. April,
 - Cedar & 10th Street (16 weeks)
- 3. May,
- Fourth & Minnesota (2 weeks)
 July,
 - Fifth & Cedar (2 weeks)
- 5. July,
 - 12th Street & Cedar (2 weeks)
- 6. July,
 - 11th Street again (4 weeks)
- 7. August,
 - Seventh & Cedar (4 weeks)





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Civil West Construction Starts

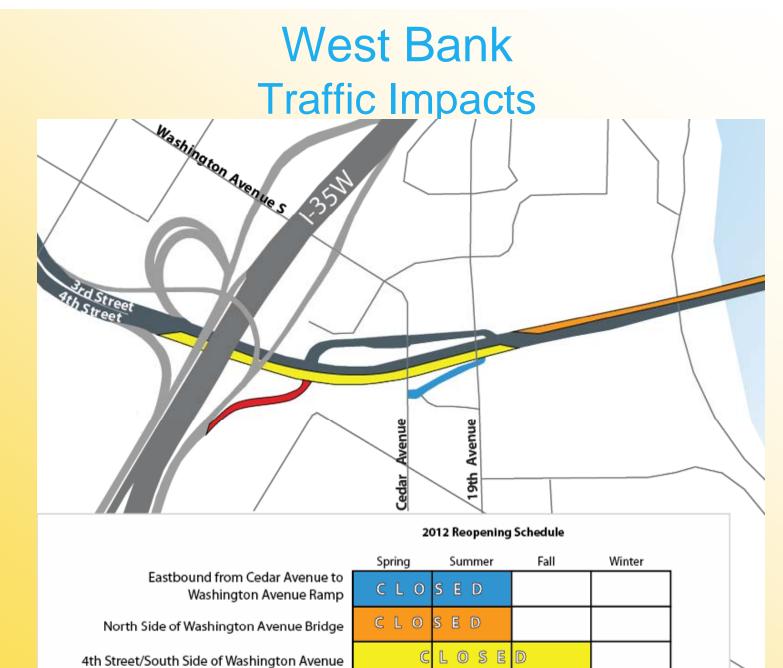


West Bank Construction



- Continue work on Washington Avenue between Hiawatha LRT connection and Washington Avenue Bridge
 - Resume road work March 2012
 - Continue West Bank Station work





Northbound I-35 W to East Bank Ramp

Metro

45

CLOSED





Washington Ave. Bridge Construction and Traffic Impacts

- Construction continues on north side of bridge; traffic deck
 - One lane traffic in each direction on south side of bridge
 - Pedestrian and bicycle traffic consolidated to south side of upper pedestrian deck
- Construction continues on north side of bridge; traffic deck
 - Several short term full closures will occur over the summer
 - One lane traffic in each direction on outside lanes of bridge

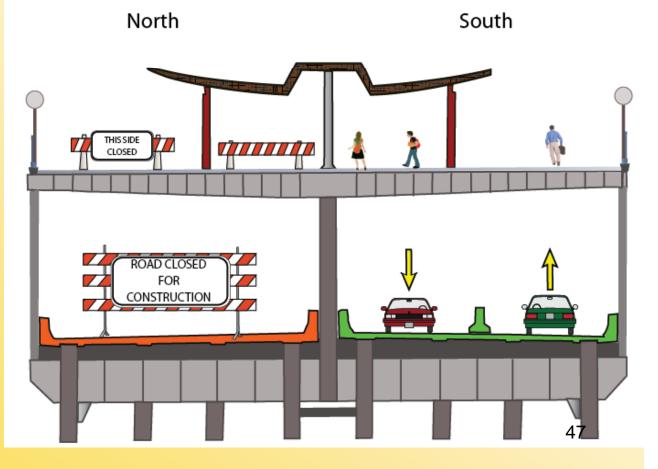
Washington Ave. Bridge Traffic Impacts

Washington Avenue Bridge Current Configuration



Central Corridor Light Rail Transit





Washington Ave. Bridge Traffic Impacts

Washington Avenue Bridge Late Summer 2012 through 2014

South

48

ZONE

North



Central Corridor Light Rail Transit



Washington Ave. Bridge **Traffic Impacts** Central Corridor Light Rail Transit **Washington Avenue Bridge Final Configuration 2014** North South **Metropolitan Council**

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- Work continues between Pleasant and Walnut
- Relocation and installation of underground utilities
- Reconstruction of roadway/transit mall
- Reconstruction of sidewalk
- Installation of traffic signals, street lighting and landscaping
- Construction of embedded track
- Reconstruction of East Bank Station
- Construction of storm sewer drop shaft on East River Parkway

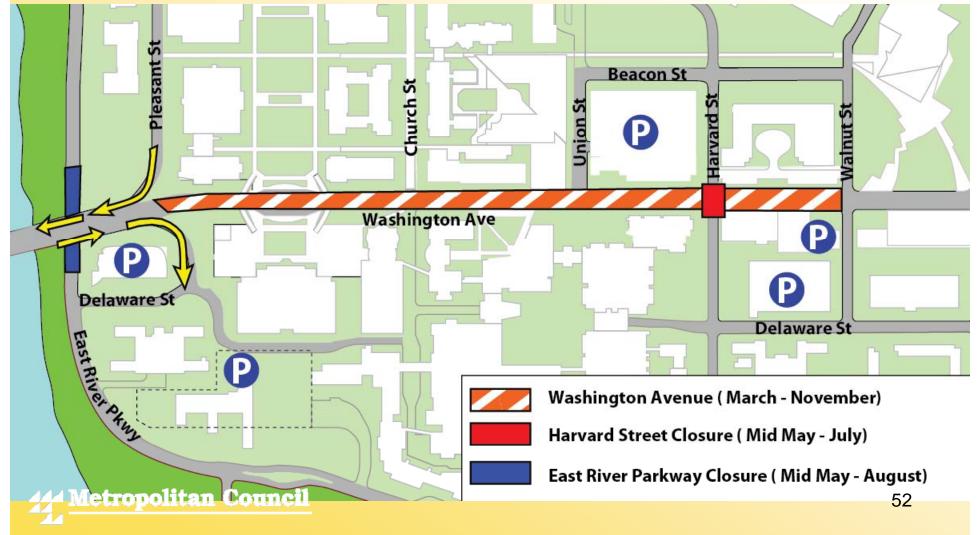
East Bank Traffic Impacts



- Work continues between Pleasant and Oak Street
- Oak Street intersection restricted to one southbound lane for ~8 weeks
- Harvard closes mid May for 7 8 weeks
- Walnut remains open while Harvard is closed
- East River Parkway closed mid May through August



East Bank Washington Avenue West of Oak Traffic Impacts





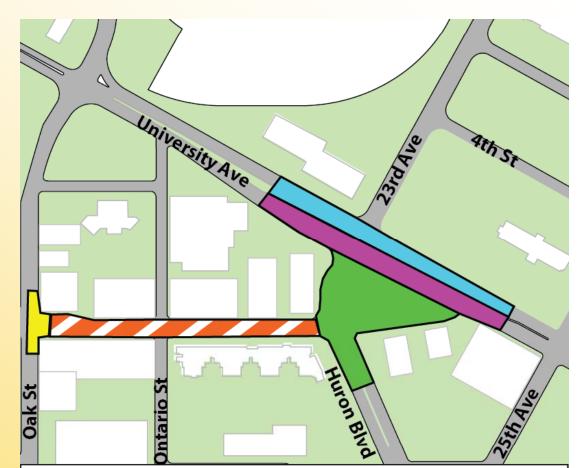
Stadium Village Washington Avenue East of Oak to Huron Blvd Construction

- Relocation and Installation of underground utilities
- Reconstruction of roadways and intersections
- Reconstruction of sidewalk
- Installation of new traffic signals, street lighting and landscaping
- Construction of embedded track
- Construction of Stadium Village Station



Stadium Village Washington Ave East of Oak Huron Blvd Traffic Impacts

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Washington Avenue Closure (March - August) Northbound Oak Street Closure (March - Mid May) Huron Boulevard Closure (Mid May - August) University Avenue Southside (April - August) University Avenue Northside (August - November)



University Avenue 29th Avenue to Emerald Construction

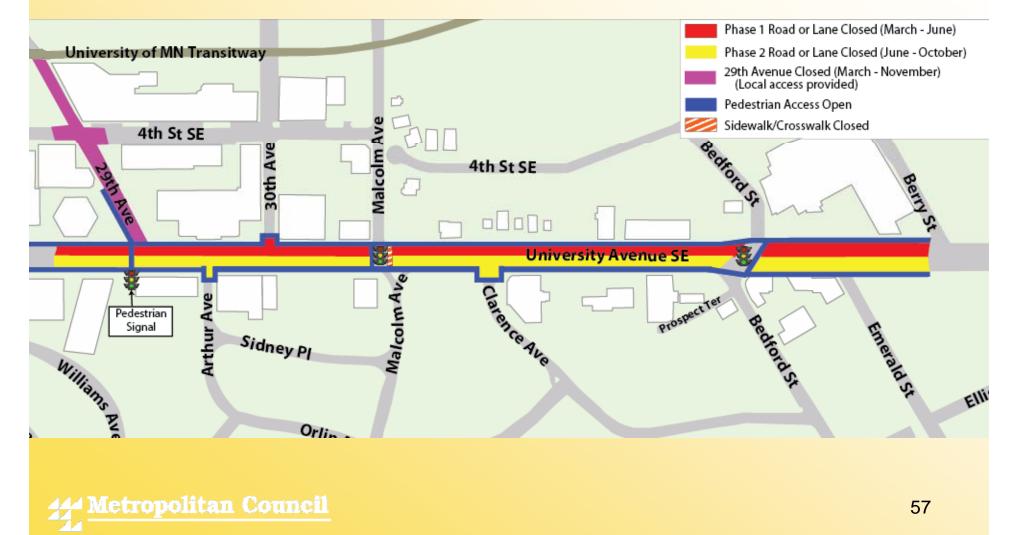
- Relocation and installation of underground utilities
- Reconstruction of roadway and intersections
- Reconstruction of sidewalk
- Installation of new traffic signals and street lights
- Construction of embedded track
- Construction of Prospect Park Station on 29th Avenue
- Installation of new landscaping



University Avenue 29th to Emerald **March Traffic Impacts**



University Avenue 29th to Emerald Traffic Impacts



Operations and Maintenance Facility

- <image>
- Complete build out of the structural elements
 - Place new floor slab
 - Complete interior walls
 - Complete roof
 - Complete utility installation
 - Partially complete interior track work
 - Begin yard work
 - Remove surcharge
 - Install TPSS #13
 - Install subsurface utilities

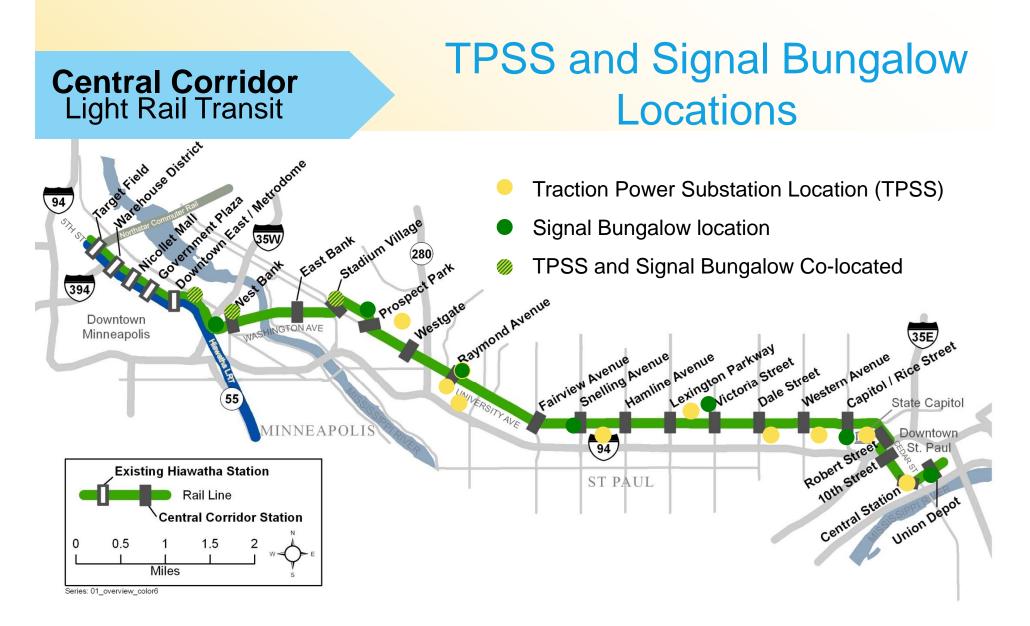


Systems



- Prepare/install Traction Power Substations
- Begin to install station communications and electrical systems
- Begin installation of Overhead Catenary System poles
- Continue retrofitting and testing at Rail Control Center







LRV Contract 2012 Schedule

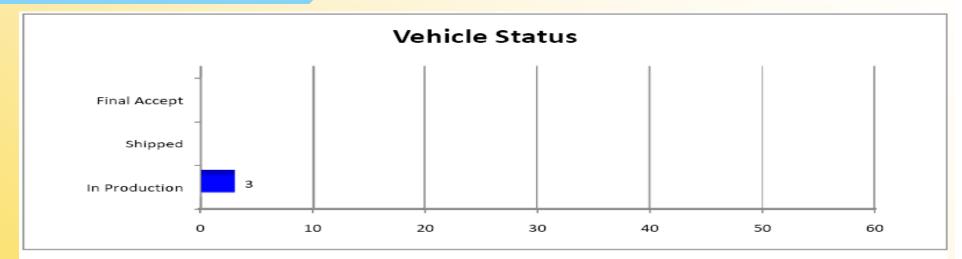


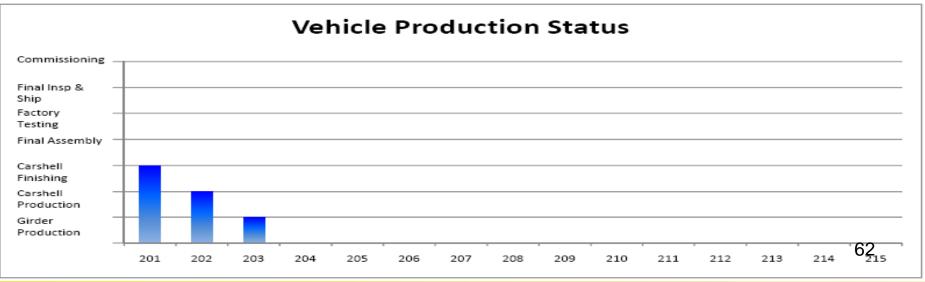
- LRV Production Steps
 - Girder Production
 - Carshell Production
 - Carshell Finishing
 - Final Assembly
 - Factory Testing
 - Final Inspection & Shipment
 - Commissioning



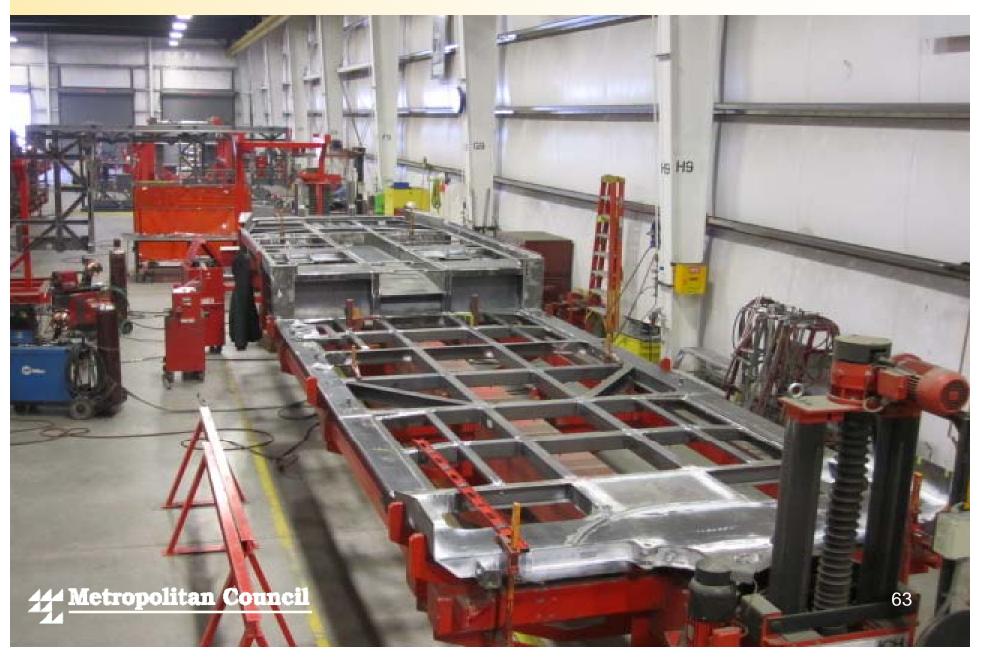
March 2012

Central Corridor Light Rail Transit

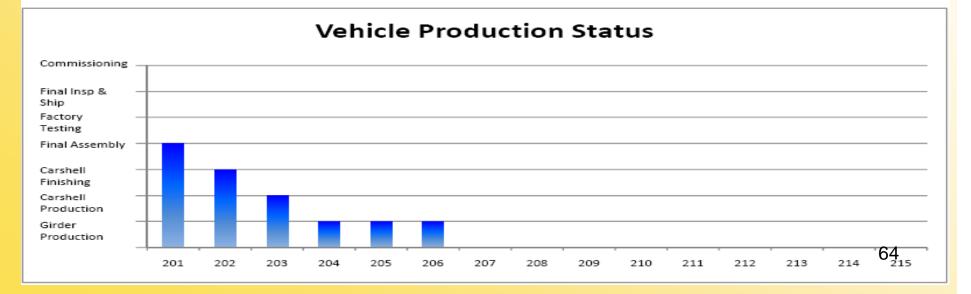




#201B car Floor in Floor Integration Fixture



Vehicle Status Final Accept In Production 6 10 20 30 40 50 60



May 2012

#201 C Car Has Been Primed



Flooring Installed in Car Shell Finishing

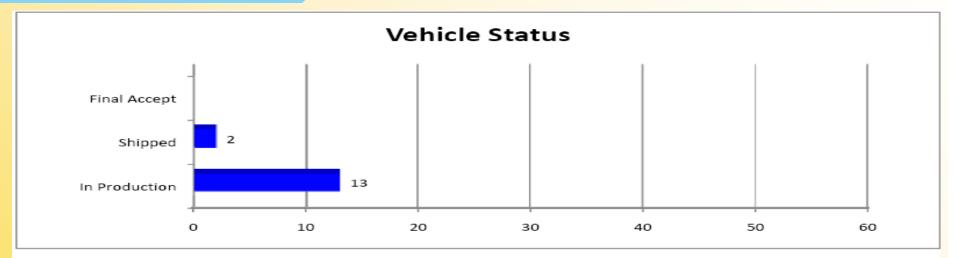


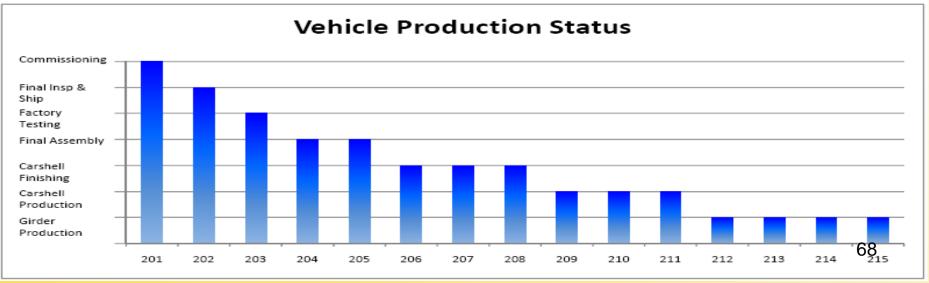
Cladding Installed in Carshell Finishing



September 2012

Central Corridor Light Rail Transit



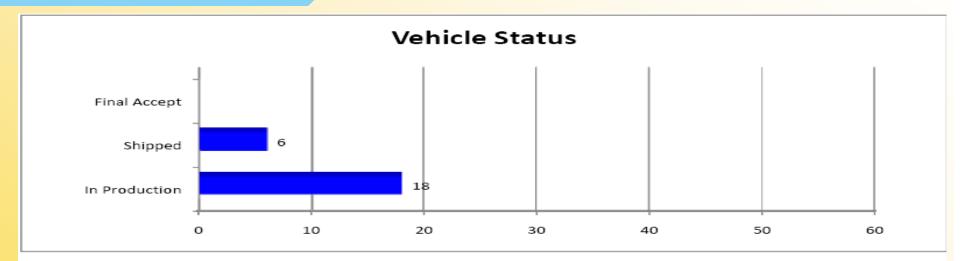


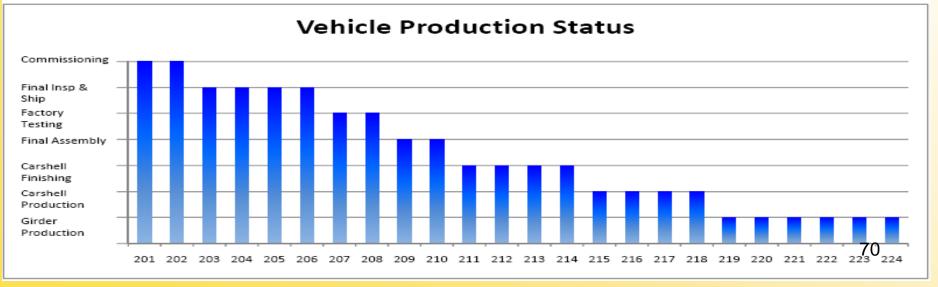
Shipped by Rail on Flat Car



December 2012

Central Corridor Light Rail Transit





LRV Delivery Schedule

- Aug 2012 (1) Sep 2012 (2) Oct 2012 (2) Nov 2012 (2) Dec 2012 (4) Jan 2013 (6) Feb 2013 (8) Mar 2013 (10) Apr 2013 (13) May 2013 (16) Jun 2013 (20) July 2013 (24) Aug 2013 (28) Sep 2013 (32) Oct 2013 (38) Nov 2013 (42) Dec 2013 (44) Jan 2014 (48) Feb 2014 (52) Mar 2014 (56)
- Apr 2014 (59)





More Information

Check out our website:

www.centralcorridor.org



Contact the Central Corridor Project Office:

- 540 Fairview Avenue North St. Paul,MN 55104
 - Construction Hotline: 651-602-1404
 - Comment Line: 651-602-1645
- Email: centralcorridor@metc.state.mn.us