

# **Central Corridor Transit Service Study Final Plan Report**

Metro Transit November 2012

**Revised Feburary 2014** 

## **EXECUTIVE SUMMARY**

The Central Corridor light-rail transit (LRT) project will open in 2014 and operate between downtown Minneapolis and downtown St. Paul, serving the University of Minnesota and University Avenue corridor. The new line – known as the METRO Green Line – is expected to provide an estimated 13.2 million annual rides by 2030 and models project that about 40 percent of METRO Green Line customers will ride bus service to LRT stations.

In anticipation of the opening of METRO Green Line service, Metro Transit conducted a study of bus service in the Central Corridor. This report provides the recommended plan for expansion and integration of the current bus service network with METRO Green Line service to maximize the overall effectiveness and efficiency of transit service in the area and ensure that overall transit service is maintained or improved for neighborhoods along the line.

## **DEMOGRAPHICS AND EXISTING SERVICE**

The Central Corridor Transit Service Study Area is bounded by the Mississippi River on the south, I-35E on the east, Larpenteur/East Hennepin avenues on the north and by Hiawatha Avenue, East Lake Street and the Mississippi River on the west. The Study Area is almost completely urban, including downtown Minneapolis, downtown St. Paul and the University of Minnesota, and covering many neighborhoods of St. Paul, Minneapolis and the suburbs of Lauderdale, Falcon Heights and Roseville. The population of the Study Area is about 246,000 and as of 2008, there were about 357,600 jobs in the Study Area. This represents about 8.6 percent of the population and 22 percent of the employment in the entire metropolitan area.

The Study Area is particularly known for its concentration of post-secondary educational campuses and the concentrations of student populations. There are about 91,000 students at the colleges and universities in the Study Area. Significant educational institutions include the University of Minnesota (Minneapolis and St. Paul campuses), Augsburg College, Concordia University, Hamline University, Macalester College, St. Paul College, St. Catherine's University, the University of St. Thomas and William Mitchell College of Law.

The routes included in the study include all those that operate a significant portion of their total service in the study area and also provide a connection to the METRO Green Line. This includes routes 2, 3, 6, 8, 16, 21, 50, 53, 62, 63, 65, 67, 68, 71, 84, 87, 94, 134, 144 and 262. Express routes 353, 355, 365, 375 and 452 are also included because they serve Huron Station. Several other routes provide service in the study area but do not provide a connection to the METRO Green Line. These routes are not included in the study, but are included on maps and other materials for reference. Public transit service provided by the University of Minnesota, including the Campus Connector and circulator routes, are not included in this study.

The <u>Central Corridor Transit Service Study Existing Conditions Report</u> examined the markets and unmet opportunities that exist for current transit service in the Study Area.

It documented the development patterns, major attractions and destinations in the Study Area as well as current and future travel patterns. The service assessment identified that routes in the study area are characterized by

- Good overall existing route network design and coverage,
- Some gaps in the cross-town grid network,
- Good ridership during all times of the day and day of week, and
- A lack of adequate frequency and span of service on some routes.

## PUBLIC INVOLVEMENT

## Pre-Concept Plan Outreach

As part of evaluating existing service and gathering community input to develop a concept plan, Metro Transit worked with stakeholders, including transit customers and community/neighborhood groups, to share the Central Corridor Transit Service Study objectives, gather feedback on how transit is currently performing and identify opportunities for improvements to transit service. This included gathering data regarding existing travel behaviors in the study area.

The four primary ways used to gather public input for the study were:

- 1. A series of meetings with neighborhoods and community groups, residents and businesses
- 2. Three public open houses
- 3. A public input form on the Metro Transit website
- 4. Trusted Advocates contracted by the District Councils Collaborative of Saint Paul and Minneapolis (DCC)

Major travel patterns and service improvement themes voiced by stakeholders included:

- Frequency improvements on Raymond Avenue and Dale Street
- Easier neighborhood-to-neighborhood travel without having to transfer in downtown
- Better timed connections in general
- New cross-town routes, such as on Lexington Parkway in St. Paul

## Concept Plan Outreach

Staff used the feedback received during the pre-Concept Plan outreach to develop a concept service plan, which became the topic of a formal public review period. As in the previous phase, Metro Transit used several different outreach strategies to reach different stakeholders to ensure broad public engagement. The five primary ways used to communicate the concept plan and gather public input were:

- 1. Contact neighborhoods and community groups, residents and businesses
- 2. Notices to current customers and general public
- 3. Five public meetings
- 4. A variety of public input methods, such as comment cards and email
- 5. Trusted Advocates

Metro Transit received more than 800 comments from 650 contacts. Feedback from stakeholders and public comments identified areas in the plan that warranted modification. The greatest number of comments were about proposed Route 83. There were 176 comments regarding this route, including a mix of positive and negative feedback. Most of the negative feedback came from residents on Lexington Parkway south of Jefferson Avenue. One of the common suggestions was to extend Route 83 north to Como Park. Other comments suggested that the route extend farther to serve those living north of the park.

Route 94 was the route that received the second highest number of comments (85). The primary concerns with this route were the loss of midday service, a longer commute time, and loss of Route 94 stops at Marion Street near Ravoux Hi-Rise and at Snelling Avenue. Other concerns included the elimination of Route 144, the potential loss of Huron Station connections to the U of M, clarification regarding the future of the Route 62 deviation along Demont Avenue and safety on light rail and University Avenue.

The Concept Plan was modified to address many of the concerns highlighted by public comments, while staying within the project operating budget. Specifically, five routes were altered in response to public comment. An open house was held on Oct. 10, 2012 to share Concept Plan modifications with the community.

## **KEY PLAN OBJECTIVES AND STRATEGIES**

Evaluation of existing conditions in the Study Area and consideration of the most common topics from the public input process suggest five primary opportunities to improve the productivity and effectiveness of transit service in the Study Area:

- Strengthen the bus route network grid. Connect bus routes with trains at key METRO Green Line stations.
- Improve service frequency. Given a choice, most people will choose more frequent service within reasonable walk distances.
- Enhance off-peak service. Increasingly, people need to travel outside the traditional rush-hour commute periods.
- Improve bus-to-bus connectivity. Improve connections to other Study Area bus routes.
- Improve bus service to major destinations. Major destinations were identified by public input forms.

These basic observations led to the following service design principles in the concept and recommended plan:

• Provide convenient and reliable bus and train connections at key METRO Green Line stations.

- Generally improve the frequency of connecting bus service to every 20 minutes seven days a week, which is compatible with the METRO Green Line's 10-minute frequency.
- Expand the hours of service for all bus routes that connect with the METRO Green Line seven days a week.
- Reduce transit service redundancy between bus and LRT in the Central Corridor and shift resources from reduced bus service on University Avenue and I-94 to improve connecting bus service.
- Improve the transit connectivity among the many colleges and universities in the Study Area.
- Provide faster, more direct service to major destinations in the Study Area.
- Fill in the north-south cross-town bus route network.

## **PROPOSED SERVICE CHANGES**

The primary emphasis of the Recommended Plan is to reduce service on bus routes whose service will be replaced by METRO Green Line trains and to shift those resources into improved coverage, frequency and hours of service on bus routes connecting with rail. Improving the frequency of service will improve the reliability of the routes and connections between routes. Bus frequencies should be compatible with those of the METRO Green Line to provide reliable and consistent connections.

The Recommended Plan includes the following service proposals:

#### University Avenue Corridor (Routes 16, 50, 94)

The METRO Green Line will be the primary east-west service in the corridor and will replace existing Route 50 limited-stop bus service. A scaled-back local Route 16 will continue to operate parallel to the METRO Green Line between downtown St. Paul and Oak Street on the east end of the University of Minnesota campus. Route 16 will be rerouted via Marion Street and the St. Paul College area, no longer directly serving the State Capitol. From approximately 1:00 a.m. to 5:00 a.m., when rail service will not operate, Route 16 will be extended to downtown Minneapolis.

Route 94 currently provides express service on I-94 between downtown Minneapolis and downtown St. Paul. Select trips also serve Snelling Avenue and/or Marion Street and the State Capitol area. After the METRO Green Line begins operations, Route 94 will operate only during weekday rush hours and midday, operating non-stop between the two downtowns.

## East-West Connections (Routes 3, 8, 63, 67)

East-west routes that parallel the University Avenue corridor will be adjusted to improve connections with the METRO Green Line. Route 3 will be re-routed from Wabasha to Minnesota Street from Kellogg to 10th Street. Route 63 will be extended from the University of St. Thomas area to Raymond Avenue Station via Cretin Avenue.

Route 8 will be combined with Route 67. The new Route 67 will serve Franklin Avenue between Hiawatha Avenue (METRO Blue Line) and University Avenue, University

Avenue between Raymond Avenue Station and Fairview Avenue Station, then follow the existing route on Fairview and Minnehaha avenues to downtown St. Paul, ending there. Existing Route 67 service south of downtown St. Paul will become part of Route 62 and will maintain current levels of frequency and span of service.

#### North-South Connections (Routes 65, 83, 84, 87)

The north-south routes that currently intersect the University Avenue corridor at Dale Street, Snelling Avenue and Raymond Avenue will be improved to make more frequent connections with the METRO Green Line, and a route on Lexington Parkway will be reintroduced.

Route 65 will continue to operate from Rosedale Transit Center via County Road B and Dale Street to Selby Avenue. Route 65 will no longer directly serve downtown St. Paul via Selby Avenue and instead will continue on Dale Street to Grand Avenue.

New Route 83 will operate on Lexington Parkway between Jefferson and Horton/Como Avenue at Como Park. The new service on Lexington Parkway enhances the grid network, filling a two-mile gap between Snelling and Dale. South of Jefferson Avenue, Route 83 will travel via Jefferson Avenue - Edgcumbe Road – Randolph Avenue – I-35E – W. 7th Street – Montreal Avenue. North of Como Avenue, Route 83 will be extended via Horton Avenue to Hamline Avenue to Larpenteur and Lexington avenues.

Route 84 on Snelling Avenue will be improved to operate every 10 minutes between Rosedale and Ford Parkway. South of Ford Parkway, two local routings (D and H branches) will be combined into one branch serving both Montreal Avenue and the West 7th and Davern Street area using current routings. Service to 46th Street Station (METRO Blue Line) on Ford Parkway will continue to operate.

Route 87, which serves Rosedale, Raymond and Cleveland avenues and the U of M's St. Paul campus, will also provide more frequent service. New evening and weekend service will be added.

#### Limited Stop Commuter Routes (Routes 134, 144)

In addition to all-day local service, Metro Transit currently operates rush-hour only commuter-oriented service on both Snelling and Cleveland/Cretin avenues. The span of service on Route 134 on Cleveland/Cretin avenues will be reduced on the fringe of rush hours but will remain unchanged for the most popular work start and ends times. Route 144 will be eliminated. Alternate service is available via Route 84 and the METRO Green Line.

#### No Significant Changes (Routes 2, 6, 21, 53, 68, 71, 262)

Based on the results of the study, no route structure or major change in frequency or span of service is planned on routes 2, 21, 53, and 262. There will be a minor route extension on Route 6 from Oak Street and Washington Avenue to Stadium Village Station. Routes 68 and 71, which were not included in the Concept Plan, will be rerouted via 14th Street between Jackson and Robert streets to make direct connection with the METRO Green Line at Robert Street Station.

#### Huron Station (Routes 50, 94, 134, 353, 355, 365, 375, 452)

Currently, select westbound express routes serve Huron Station at I-94 and Huron Boulevard between 7:30 a.m. and 9:20 a.m., offering a connection with Route 50 to the U of M campus. A local connection between Huron Station and the U of M main campus will be provided.

#### **PLAN IMPACTS**

The Metro Transit team worked extensively to refine the proposal to minimize negative impacts on current customers. While retaining good coverage, the Recommended Plan reinforces the simplified route structure implemented in earlier Sector plans and reinvests resources into areas and at times of the day where additional service is warranted.

There are several segments of routes where service is eliminated or reduced. In all cases, alternate transit service is within a quarter-mile of residents and businesses along these routes.

Metro Mobility service hours within the study area may be impacted by changes outlined in this plan. This door-through-door service for the disabled is mandated by the Americans with Disabilities Act and is provided by the Metropolitan Council. Since Metro Mobility's service hours and areas are determined by the fixed-route transit network, changes to the fixed route service hours or routings impact Metro Mobility's complementary paratransit services as well.

The Recommended Plan has also been evaluated in accordance with Federal Transit Administration (FTA) Title VI guidelines to understand its impacts on low-income and minority populations. This evaluation finds that the recommended changes do not disparately impact these populations.

#### **TRANSIT SERVICE RESOURCES**

The bus service proposed in the Central Corridor Transit Service Study Recommended Plan is generally equivalent to existing bus service levels in the Study Area. Resources saved by reducing or eliminating bus routes whose trips will be served by the new rail service will be shifted to improve the coverage, frequency and hours of service on bus routes connecting with rail. Some additional service improvement priorities are included in the "Future Considerations" section of the plan and may be implemented when funding is available.

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## **INTRODUCTION: STUDY PURPOSE AND PROCESS**

The Central Corridor light-rail transit (LRT) project will open in 2014 and operate between downtown Minneapolis and downtown St. Paul, serving the University of Minnesota and University Avenue corridor. The new line – known as the METRO Green Line – is expected to provide an estimated 13.2 million annual rides by 2030 and models project that about 40 percent of the METRO Green Line customers will ride bus service to stations.

In anticipation of the opening of METRO Green Line service, Metro Transit conducted a study of bus service in the Central Corridor. The study recommends changes to existing transit service in the Central Corridor to be implemented at the same time as the start of rail service. These recommended service changes will include expansion and integration of the current bus service network with METRO Green Line service to maximize the overall effectiveness and efficiency of transit service in the area and ensure that overall transit service is maintained or improved for neighborhoods along the line.

This report provides the recommended plan for the Central Corridor Transit Service Study. It has been developed based on review of existing and future demographics, development and overall transit demand in the Central Corridor. Planners solicited public comments through multiple channels and incorporated that input into the concept plan. This concept plan was presented to the public. Public reaction was sought and received through a formal public hearing process. This input was reviewed and considered as planners further developed the plan. The Recommended Plan will be presented to the Metropolitan Council for their approval in November 2012. The final plan will be implemented by the start of METRO Green Line operations in 2014.

## CHAPTER ONE: STUDY AREA TRANSIT SERVICE AND DEMOGRAPHICS

The first step in preparing a recommended plan for a major service change is to review existing conditions, including existing population and employment demographics, major development patterns, transit service and ridership, and other relevant elements.

## **CURRENT NETWORK STRUCTURE**

As of February 2012, transit service in the Study Area consisted of:

- 14 local and eleven express or limited-stop bus routes
- Over 1700 weekday in-service hours
- Over 90,000 weekday rides or one-third of Metro Transit's system-wide weekday ridership

Among these routes, as in most of the Metro Transit network, there are two distinct route structures. "Base" service operates all day and "peak" service operates only during weekday rush-hour periods. See **Figure 1**.

## **Base Route Structure**

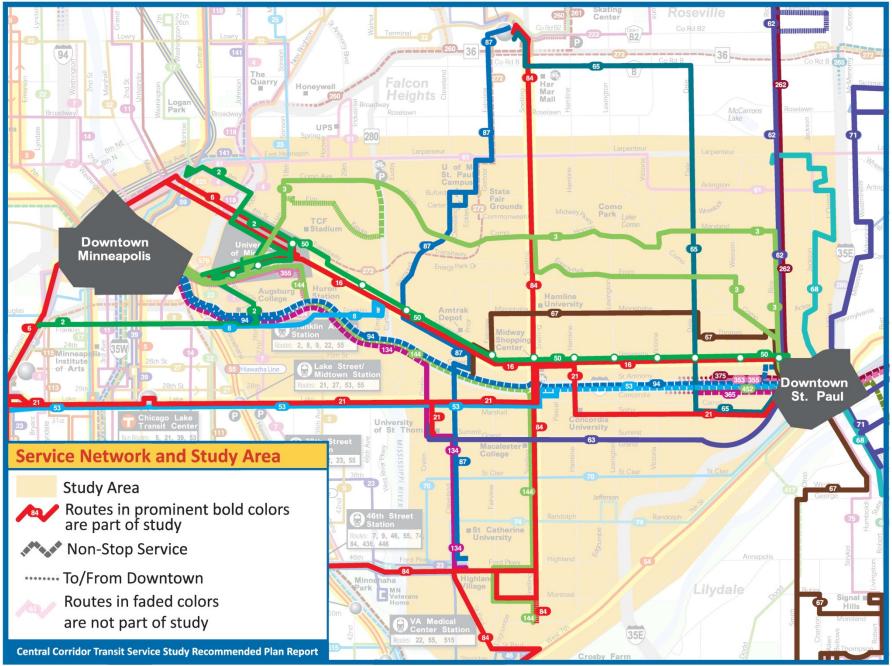
The base route structure in the Study Area is designed to meet a variety of transportation needs. The overall structure is both radial, that is, oriented east-west to downtown St. Paul and/or Minneapolis, and a grid of north-south cross-town routes perpendicular to the radial routes. Radial routes are usually one-half to one mile apart and cross-town routes are spaced about one to two miles apart. North of University Avenue, most of these routes extend to Roseville and terminate at Rosedale Transit Center. Rosedale Transit Center is a timed-transfer point where eight local routes make timed connections.

Most services operating during off-peak periods are local routes that serve six to eight bus stops per mile. There is one all-day express route in the Study Area, linking downtown Minneapolis and downtown St. Paul seven days a week.

## **Peak Route Structure**

During peak hours, the base network remains, generally with improved service levels, and is overlaid by additional peak-only commuter routes. Peak-only routes from the Highland and Merriam Park areas of St. Paul offer local pick-up from these neighborhoods then operate non-stop to the University of Minnesota and downtown Minneapolis or St. Paul. These routes operate in addition to base local routes, either on the same street or on close parallel streets. For example, on Snelling Avenue, Route 84 provides base local service and Route 144 provides peak limited-stop commuter service to Minneapolis. On Cleveland Avenue, Route 87 provides base local service and on Cretin Avenue, a close parallel street, Route 134 provides the peak limited-stop service to Minneapolis. On Lake Street/Marshall Avenue, Route 21 provides base local service and Route 53 provides peak limited-stop service to downtown St. Paul.

#### Figure 1 Existing Service and Study Area



## CURRENT SERVICE FREQUENCIES AND HOURS OF SERVICE

Transit route coverage and hours of service in the Study Area on weekdays generally meet service standards defined in the 2030 Transportation Policy Plan, with a few significant exceptions.

Along University Avenue, Route 16 operates every 12 minutes at peak times and every 10 minutes midday and early evening. Route 50 operates every 12 minutes at peak times and very limited service at other times. Route 16 service operates 24 hours a day. In the remainder of the Study Area, coverage and frequency varies by time of day and day of the week. During weekday peak periods, coverage is good. During off-peak times, however, many routes do not operate or operate only limited hours, with several significant corridors or streets that do not have service at certain off-peak times. Some areas have relatively low populations or population densities that do not generate enough ridership to need more service, but other areas in this category do have sufficient densities to warrant additional service.

## **RIDERSHIP AND ROUTE PERFORMANCE**

A comprehensive bus stop-level data collection effort was undertaken to inventory existing transit use and to develop a better understanding of the current travel patterns in the Study Area. The numbers of passengers getting on and off the bus at each stop was surveyed on weekday, Saturday, and Sunday service periods for each route. All of the scheduled bus trips – 1,998 weekday, 751 Saturday and 455 Sunday – were sampled multiple times. Data collection was completed during the winter and spring of 2010. Details about existing service and ridership can be found in the Central <u>Corridor Transit Service Study Existing Conditions Report</u>. Note that while routes 68 and 71 do have minor changes included in this study, they are not included in most of the details or statistics of the report because they operate primarily outside of the Study Area..

On weekdays, 1,568 in-service hours are provided in the Study Area. Approximately 45 percent of in-service hours are provided during the rush hours (6 to 9 a.m. and 3 to 6:30 p.m.), with the remaining 55 percent of hours are provided during at other times. An average of about **90,000** bus boardings occur each weekday, with 19 percent occurring during a.m. rush hours, 38 percent during the midday period and 25 percent during p.m. rush hours. The number of boardings per in-service hour is fairly constant throughout the day which demonstrates that the level of transit service in the Study Area is reasonably well matched with the distribution of demand throughout the day.

On weekends, 897 in-service hours are operated each Saturday and 609 in-service hours each Sunday in the Study Area. Approximately 60 percent of these hours are provided between 9 a.m. and 6 p.m. An average of about 45,600 boardings occur each Saturday, with 65 percent occurring between 9 a.m. and 6 p.m. On Sunday, an average of about 29,400 boardings occur with 70 percent occurring between 9 a.m. and 6 p.m. Like weekdays, the average number of boardings per in-service hour throughout the day on weekends is also fairly even, demonstrating that service is reasonably well matched with demand throughout the day.

Ridership by stop and residential/employment densities in the Study Area are mapped on **Figure 2** –Weekday, **Figure 3** – Saturday and **Figure 4** – Sunday.

## **DEMOGRAPHICS AND LAND USE**

The study area for the Central Corridor Transit Service Study is bounded by the Mississippi River on the south, I-35E on the east, Larpenteur/East Hennepin avenues on the north and by Hiawatha Avenue, East Lake Street and the Mississippi River on the west. The Study Area is almost completely urban, including downtown Minneapolis, downtown St, Paul and the University of Minnesota, and covering many neighborhoods of St. Paul, Minneapolis and the suburbs of Lauderdale, Falcon Heights and Roseville. In the neighborhoods immediately adjacent to the Green Line, the population is around 164,000. The 2010 population of the Study Area is about 245,000 residents and as of 2008 there were about 357,600 jobs. This represents 8.6 percent of the population and 22.4 percent of the employment in the seven-county metropolitan area.

Staff analyzed the various forms of demographics and land use in the Study Area that would be expected to influence transit use, including:

- Population density
- Employment density
- Retail centers
- Youth population
- Seniors population
- Households in poverty
- Minority population
- Major trip generators

In general, the analysis showed that the Study Area is densely developed and has demographic characteristics that are consistent with high transit usage. In addition there are many high traffic activity centers within the study area, most of which are located along University Avenue.

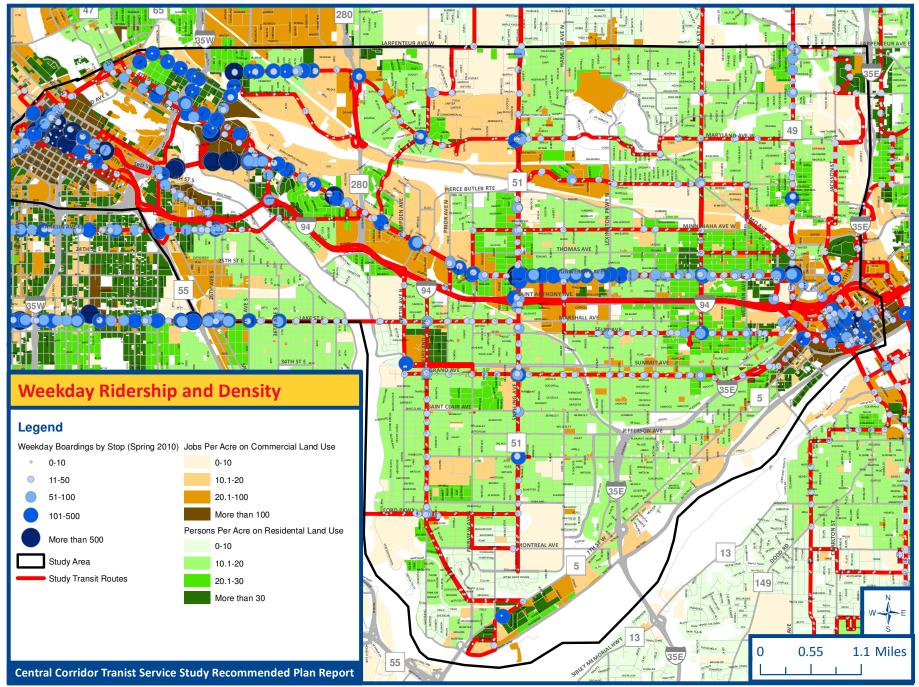
While several factors influence the propensity to use transit, the primary predictors of transit ridership are density of development at the origin and destination of trips. Transit markets in the seven-county Twin Cities region are identified using the Transit Market Index, which is calculated using three factors: 1) population density 2) employment density and 3) automobile availability. The Transit Market Index measures the potential market for transit services in a given area. Different types and levels of transit services are appropriate for each transit market area. **Figure 5** illustrates the transit market areas found in the Study Area.

Transit Market Area I has the highest density of population, employment and people without access to automobiles. Therefore, Market Area I is able to support the most intensive level of transit service. Transit Market Area II has high to moderately high population and employment densities yielding an area that is conducive to fixed-route transit operations, but not as intensive as in Market Area I. Most of the Study Area

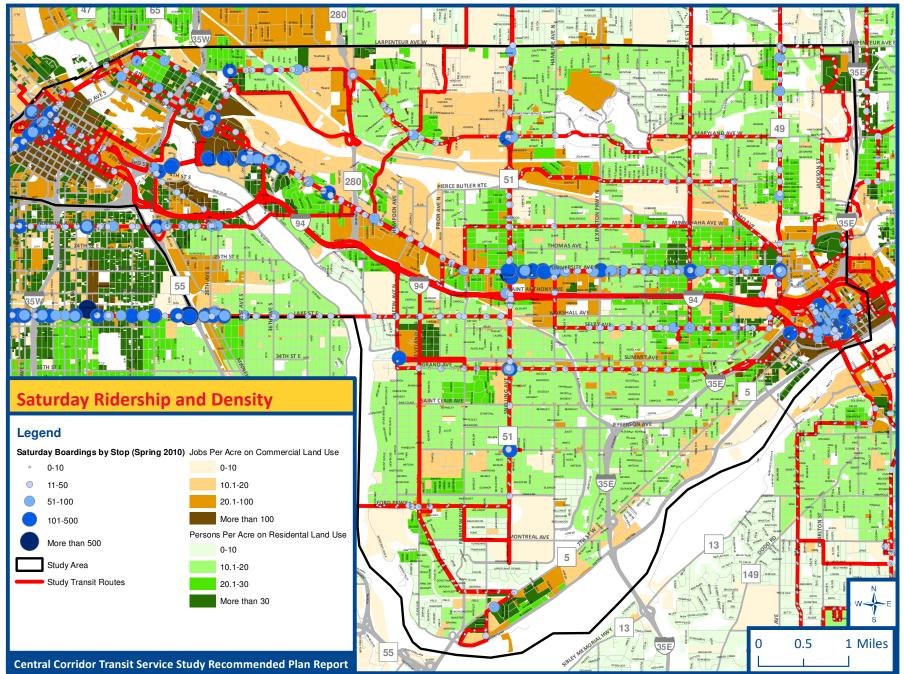
within one mile north and south of University Avenue between the University of Minnesota and the State Capitol and including Downtown St. Paul and Downtown Minneapolis lies in Transit Market Area I, and opportunities exist in those areas to add significantly more population. The City of St. Paul is pursuing policies that are supportive of intensification of the corridor's population density, especially between Fairview Avenue and Rice Street. The City of Minneapolis is planning for more jobs to be concentrated in the southeast area of the city, mainly to the north of University Avenue.

The Study Area is particularly known for its concentration of post-secondary educational campuses and the concentrations of student populations, persons aged 20 – 24 years. These are the post-secondary schools are in the Study Area, with full time students, both under-graduate and graduate level: The University of Minnesota – Minneapolis, University of Minnesota – St. Paul, the Associated Colleges of the Twin Cities (ACTC): Augsburg College, Hamline University, Macalester College, St. Catherine's University - St. Paul, St. Catherine's University – Minneapolis, University of St. Thomas – Minneapolis and St. Thomas – St. Paul. Other significant educational institutions include the College of Visual Arts, Concordia University, William Mitchell College of Law and St. Paul College. There are a total of about 91,550 students at all the post-secondary schools in the Study Area. Students are more likely to use and to benefit from improved transit service. **Figure 6** includes a map of these institutions along with population ages 20 to 24 years old.

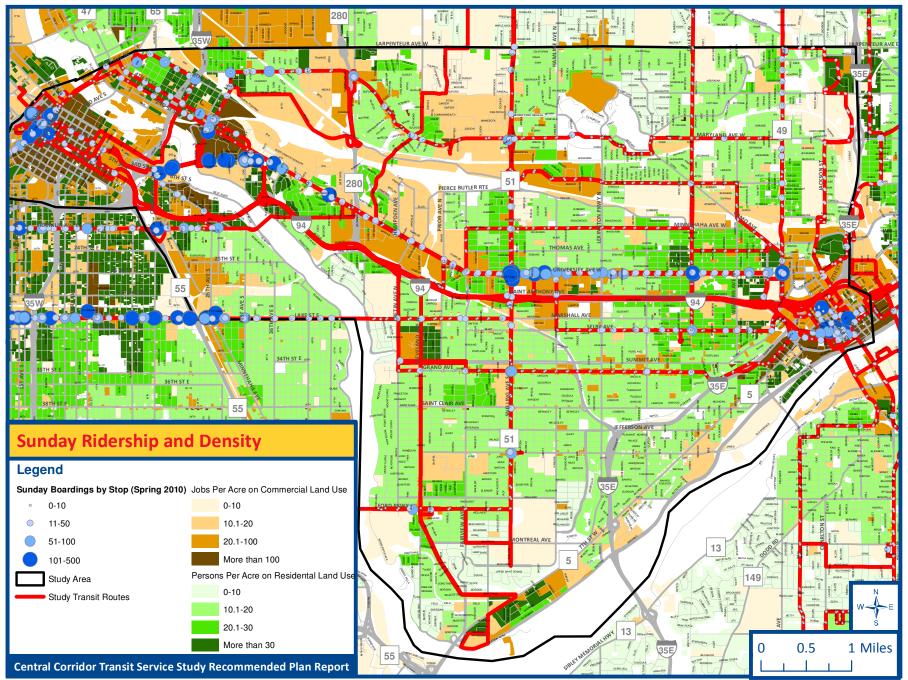
## Figure 2 Weekday Ridership and Density



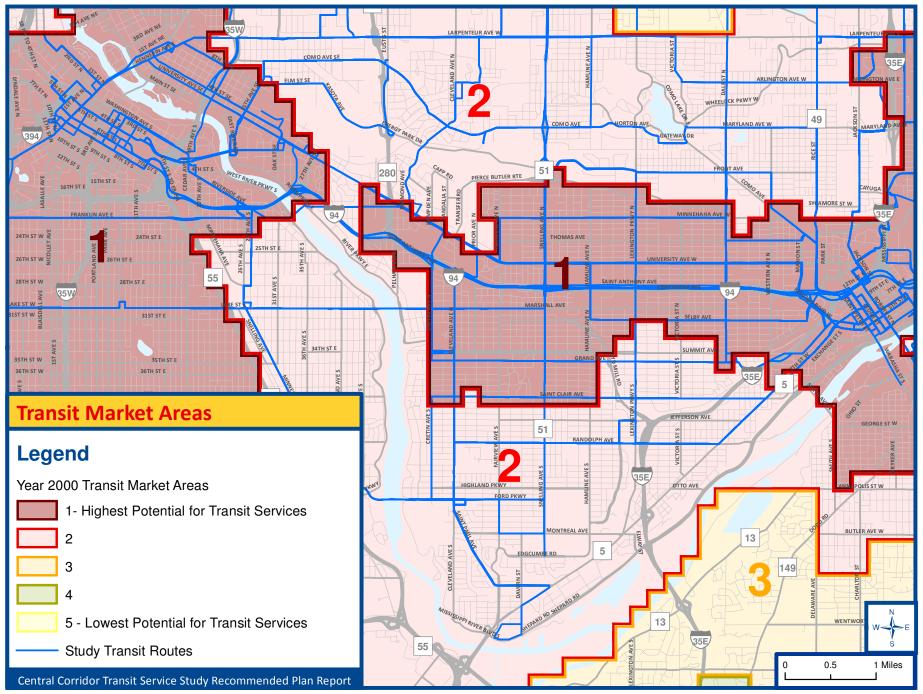
## Figure 3 Saturday Ridership and Density



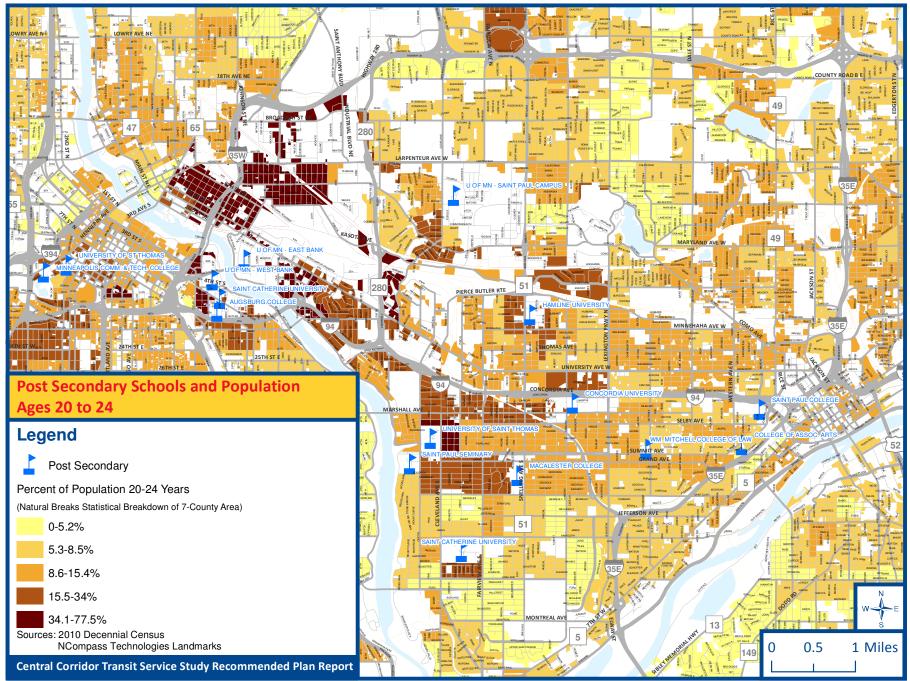
## Figure 4 Sunday Ridership and Density



#### Figure 5 Transit Market Areas



## Figure 6 Post Secondary Schools and Population Ages 20 to 24



## CHAPTER TWO: PUBLIC INVOLVEMENT IN SERVICE PLAN DEVELOPMENT

A commitment to community engagement is a guiding principle at Metro Transit and public involvement is at the core of the Central Corridor Transit Service Study. Metro Transit spent significant effort identifying key stakeholders and connecting with the communities of the Central Corridor transit study area to inform development of the concept plan.

## **PRE-CONCEPT PLAN OUTREACH**

In order to ensure board public engagement, Metro Transit used several different outreach strategies to reach different stakeholders before drafting a concept plan. The four primary ways used to gather public input were:

- 1. A series of meetings with neighborhoods and community groups, residents and businesses
- 2. Three public open houses
- 3. A public input form on the Metro Transit website
- 4. Trusted advocates contracted by the District Councils Collaborative of the Saint Paul and Minneapolis (DCC)

## STAKEHOLDER OUTREACH MEETINGS

Key stakeholders in the Central Corridor Transit Service Study Area include the Minneapolis neighborhood associations and St. Paul District Councils. The study area includes nine Minneapolis neighborhoods (Marcy Holmes, Downtown East, Downtown West, Loring Park, Elliot Park, Cedar-Riverside, Seward, University, Prospect Park) and 12 St. Paul District Councils (St. Anthony Park, Como, North End, Hamline-Midway, Thomas-Dale (Frogtown), Union Park, Summit-University, Capital River, Macalester-Groveland, Summit Hill, West Seventh and Highland Park). All of these key stakeholder groups were offered an opportunity to be involved in the Central Corridor Transit Service Study.

In all, nearly 40 community/neighborhood groups were engaged and 700 individuals were involved in meetings to review previous transit service restructuring efforts, share the study objectives and gather feedback on how transit is currently performing. This effort brought stakeholders into the planning process at the earliest possible time. In addition, an important piece of the pre-concept plan work included gathering data regarding existing travel behaviors in the study area. A complete list of the specific community stakeholder groups, as well as attendance at each meeting, is available in a separate public involvement report available online.

This concept plan reflects travel behavior information and comments about current bus service received from customers and other stakeholders, sought by Metro Transit staff to inform this plan.

## **OPEN HOUSES**

At three open houses, staff presented information on the important aspects of existing demographic data and current transit service within the Central Corridor Transit Study Area. A dot map exercise in which open house attendees placed dots on over sized maps indicating their home, work, and two other commonly-traveled destinations, helped to start conversations and engage the public in the planning process. Metro Transit staff came away with a few key themes repeated by many open house attendees. First, that there was general satisfaction with existing transit service for major destinations such as the University of Minnesota, the two downtowns and the Midway shopping area. Also mentioned by open house attendees was the need to improve evening and weekend service span and frequency in more peripheral corridors in the study area, as well existing gaps in north-south transit service in St. Paul. The geographic focus of open house attendees varied by open house location, but these themes where common at each open house.

Open House Location	Open House Date	# of Attendees
Coffman Memorial Union (University of	March 3, 2012	28
Minnesota)		
Rondo Community Outreach Library (461 N.	March 8, 2012	28
Dale)		
J.J. Hill Magnet School (998 Selby Ave.)	March 20, 2012	23

## **PUBLIC INPUT FORM**

Paper and online versions of the Central Corridor Transit Service Input Form were created to collect data regarding where people travel within the study area. The input form asked questions regarding transit utilization, transfers, origin and destination, start and end times, trip purpose and suggested locations for new transit service. More than 3,300 online and paper public input forms were received through early May 2012.

Over half of the respondents or about 67 percent rode transit to destinations in the study area at least five days a week while 11 percent used transit six days a week and 14 percent used transit seven days a week. Only 3 percent of respondents indicated that they did not use transit. Around 90 percent of respondents indicated that their trip in the study area occurs on a weekday, while only 16 percent indicated trips on Saturdays and 10 percent indicated trips on Sundays. The seemingly contradictory responses to these two questions indicate a degree of non-traditional working schedules by some respondents. The most commonly referenced bus routes by respondents were the Routes 3, 16/50, 2, 144, 87 and 21. About 44 percent of respondents indicated that they transfer at least once and 16 percent transfer at least twice on their transit trip. The top trip purposes for trips in the study area were school (49 percent), work (39 percent), appointments and shopping (5 percent), and other (7 percent).

The results from the two open-ended questions are discussed below. A sample of the public input form and more specific detail on the survey responses is available in a separate public involvement report available on the study website.

## Question: Is there a location in the area currently not served by buses where service should be added?

Responses varied from general ideas to specific corridor and bus stop suggestions for improving transit access. Many respondents called for better north-south transit service in St. Paul in general, without naming specific corridors, while some listed many corridors or singled out specific corridors or areas.

The most common location-specific response was to add transit service on Lexington Parkway to connect destinations south of University Avenue or near Como Park with the Green Line. The second most common location-specific comment was for a new bus stop on the U of M's East Bank along Pleasant Street SE between Pillsbury Street SE and the Washington Avenue Bridge.

Other major north-south streets were also noted, ranging from requests to improve existing transit service on Snelling, Dale Street, and Raymond/ Cleveland avenues to requests for new service on streets such as Fairview Avenue, Hamline Avenue, Western Avenue, and Victoria Street. Some respondents specified locations on the U of M campus for new bus stops, including Appleby Hall, the Science Teaching and Student Services building, Smith Hall, Walter Library and the Scholar's Walk. A smaller number of respondents commented on general areas to improve transit service connectivity, with the most common being the Macalester-Groveland neighborhood in St. Paul.

Question: Please provide any suggestions you have that would help improve bus service in the Central Corridor. For example, is your service frequent enough, go where you wish, go early enough, late enough? Are transfers easy to make?

The most common service improvements were related to frequency of service, more hours of service (including weekends), faster service, better transfer connections, new service, safety, and improved waiting facilities.

<u>Frequency:</u> Frequency was the most common comment type in the online public input form. Many respondents specifically mentioned improving the frequency of weekend and evening services. Ninety respondents requested more frequency on routes 2, 3, 6 and 87.

<u>Hours of Service / Weekend Service:</u> Respondents called for increased hours of service and new or improved weekend frequency levels for almost every route in the study area, as well as future light rail service. Common requests include improving weekend service frequency on Route 3, adding evening and weekend service on routes 87 and 144, and better weekend and late night service on Route 63.

<u>On-Time Performance:</u> Another common comment was buses running late, particularly on routes 2, 3 and 16. Many respondents noted the frustration of overcrowded or late buses followed by empty buses or "bus bunching."

<u>Transfers:</u> Respondents commenting on transfers either noted a difficult existing transfer or emphasized the need for good connections with the Green Line. A significant number of respondents stated that transfers between Route 87 and most east-west routes in the study area were badly timed, and several respondents said they would not use transit if forced to transfer between Route 84 and the Green Line rather than use the Route 144.

<u>New Service:</u> Better service at Huron Station was a common request, as was the desire for a direct, one-seat service between Highland Park, Fort Snelling and the airport. Corridor-specific comments are included in the results for question nine.

<u>Facilities / Safety:</u> Many of the safety comments related to conditions on buses, but some noted feeling unsafe at bus stops at Snelling and near Sky Line Towers in St. Paul. Other facilities comments related to winter conditions at bus stops without heated shelters.

A large number of respondents noted satisfaction with existing transit service and coverage, some noting a reluctance to change service, particularly with Route 16. Many respondents in this category were eager for the end of light-rail construction and the start of Green Line service.

## **TRUSTED ADVOCATES OUTREACH**

The District Councils Collaborative of Saint Paul and Minneapolis (DCC) adapted the Trusted Advocate community engagement model used in Seattle, WA to support the Central Corridor Transit Service Study and increase the capacity to gather community input and create opportunities for long-term, sustainable engagement and interaction between Metro Transit and the diverse community in the study area. Trusted Advocates are "members of a specific ethnic, racial, cultural and/or other underrepresented group who are recognized by other members as trustworthy, approachable and effective, particularly navigating distance between the group and the majority community. " -- *Innovative Public Tools in Transportation Planning: Application and Outcomes* 

Trusted Advocates have strong connections to their communities, a background in community engagement, and the ability to advocate and educate within their communities. Nine individuals were contracted by the DCC to connect with individuals who lived, worked, attended school or participated in other activities within the study area. During engagement sessions to document travel behavior, some advocates chose to use the same tools as Metro Transit (public input forms, interactive activity) while others tailored their work to their own individual style of outreach and the individuals of their community.

Methods of engagement include one-on-one interviews, door knocking, tabling (staffing a table at a heavily trafficked location or event), kitchen table meetings/home visits, smallgroup meetings and community gatherings. The total number of individuals reached by each advocate ranged from 60 to 200. The trusted advocates held engagement sessions throughout the study area but were concentrated along the corridor. Engagement sessions were held in over 40 locations throughout the corridor including Cedar-Riverside, Prospect Park, Summit-University, Frogtown, Union Park, Como area and Macalester-Groveland.

In addition to gathering travel behavior data, trusted advocates documented other feedback during each engagement session. Some of these comments or concerns that were frequently shared by participants were related to overcrowded buses, operator behavior, safety concerns, travel time, the lack of availability of transit information due to language barriers or lack of internet access, waiting conditions, and a desire for more frequent service all days of the week.

A more detailed report of the Trusted Advocate Project is available in a separate public involvement report available on the study website.

## **CONCEPT PLAN OUTREACH**

Staff used the feedback received during the pre-Concept Plan outreach to develop a concept service plan, which became the topic of a formal public review period. As in the previous phase, Metro Transit used several different outreach strategies to reach different stakeholders to ensure broad public engagement. The five primary ways used to communicate the concept plan and gather public input were:

- 1. Contact neighborhoods and community groups, residents and businesses
- 2. Notices to current customers and general public
- 3. Five public meetings
- 4. A variety of public input methods, such as comment cards and email
- 5. Trusted Advocates contracted by the DCC

## CONCEPT PLAN STAKEHOLDER OUTREACH MEETINGS

When the concept plan was available, staff contacted key stakeholders in the Central Corridor Transit Service Study Area. In some cases, staff was invited to revisit appropriate neighborhood or District Council meetings to explain how the pre-concept plan data was used, and introduce residents to the Concept Plan. In other instances, this was an opportunity for those who might have passed on the opportunity to influence the study to connect with the project for the first time. In all cases, stakeholders were encouraged to study the Concept Plan and provide comment.

Before the conclusion of the public comment period, staff reconnected with all 40 of the initial community/neighborhood groups and a few others were added, including Como Park Community Council and the Como Park Zoo and Conservatory. This part of the

process not only continued the ongoing dialog with community members but also uncovered community concerns with some of the elements of the plan. It provided staff an opportunity to further investigate options for future consideration as the Concept Plan was revised.

## NOTICES TO CURRENT CUSTOMERS AND GENERAL PUBLIC

Information about the study and the Concept Plan was provided to current customers and the general public through these outlets:

- All project reports, process and project information were provided at metrotransit.org and at the Metropolitan Council Data Center.
- Key information from the project website and the Concept Plan was translated into Spanish, Somali and Hmong. The entire Concept Plan was available in Braille.
- Print versions of the Concept Plan report were available at all libraries in the Study Area and by request.
- 12,000 concept plan brochures –which included a comment card were distributed on buses and at schedule distribution outlets in the Study Area.
- Nearly 100 posters advertising the five public meetings were displayed in bus shelters along University Avenue and throughout the Study Area.
- A special card was attached to bus fareboxes in the Study Area to highlight the concept plan and public meetings.
- A letter was mailed to residents and business along new Route 83 informing them of proposed changes and ways to provide feedback.
- A press release was sent to local media. Articles appeared in the *Pioneer Press* and *Highland Villager* newspapers and online at mn2020.org, Transit for Livable Communities (tlcminnesota.org) and tcdailyplanet.net
- The June 2012 *Connect* customer newsletter, which is available on all buses and trains system wide, outlined the Concept Plan and provided ways to learn more and comment, including public meeting information.
- Operators and staff made onboard announcements, especially on routes 16, 50 and 94.

## **PUBLIC MEETINGS**

Five public meetings provided opportunities for attendees to learn about the Concept Plan, ask questions, and provide feedback. Two meetings were designated as official public hearings, although all meetings had the same format. Each meeting began with an open house format in which attendees could view maps of the proposed routes, ask questions and address concerns. A presentation of the Concept Plan was then given, including proposed routes and the rationale used in planning them. Attendees were given the opportunity to testify and provide comments. Brochures with postage-paid comment cards were available for attendees who preferred to provide written comments. The meetings were as follows:

Date	Location	Attendees
June 19	Brian Coyle Center	10
June 21	Central Corridor Resource Center	16
June 23	Goodwill/Easter Seals	16
June 26	Hennepin County Central Library (public hearing)	21
June 28	Rondo Community Library (public hearing)	28

## **METHODS OF PUBLIC INPUT**

People could use several methods to provide feedback on the Concept Plan. These included email, a brochure with postage-paid comment card that was available on buses and at schedule distribution outlets in the study area, calls to Customer Relations, fax, letter, petition, Twitter and Facebook. The comment card attached to the brochure asked which bus routes the respondents ride most often, the intersection closest to their home or work, and their thoughts on the plan. Respondents could provide further comments regarding frequency, hours of service, transfers, travel time, eliminated service and general comments. Paper and electronic version of the comment card were available to the public.

Metro Transit received more than 800 comments from 650 contacts. Comments received after 5 p.m. on July 23, 2012, were considered late but still included for consideration.

Туре	Count	
Email	239	
Comment Card	473	
Customer Feedback	44	
Letter	3	
Fax	1	
Petition	1 (45 signatures)	
Public Hearing Testimony	47	
Twitter	3	
Facebook	1	
Total	820	

Thischart provides the distribution of public comments received:

Public comment notes:

- A repeat responder is responsible for 21 percent of the comments
- There was 1 petition (45 signatures) opposing the proposed bus service on south Lexington Parkway (Route 83)
- There were 18 government officials, cities, or organizations responding about the restructuring
- 1. City of St. Paul
- 2. District Councils Collaborative of Saint Paul and Minneapolis
- 3. District 10 Como Park Community Council
- 4. Macalester Groveland Community Council
- 5. Canabury Condominium Association
- 6. Ramsey County
- 7. Como Park Regional Advisory Council
- 8. Como Town
- 9. District 6 Planning Council
- 10. District 12 Community Council

- 11. St. Anthony Park Community Council 12. Tri Area Block Club
- 13. Transit for Livable Communities
- 14. Como Zoo Conservatory
- 15. Smart Trips
- 16. Summit Hill Association
- Steve Elkins (Metropolitan Council Transportation Committee Chair)
- 18. ISAIAH

## TRUSTED ADVOCATE OUTREACH

In a parallel process, the trusted advocates contracted by the District Councils Collaborative of Saint Paul and Minneapolis (DCC) used their strong community connections to discuss the Concept Plan in meetings with individuals and small groups similar to those used to gather data in the pre-concept plan phase. In preparation for this work, trusted advocates received specialized training on the concept plan and were able to ask detailed questions to specifically address the anticipated questions and concerns of the communities they most associate with.

The trusted advocates reconvened meeting with the communities they made contact with in the first phase of work, making themselves available to gather feedback, identify concerns and assist with the submission of community formal public comment. As common themes and concerns emerged, trusted advocates helped connect Metro Transit with communities who could help understand problems with the Concept Plan and options for the revised and recommended plan. The methods for engagement for the trusted advocates continued to include one-on-one interviews, door knocking, tabling (staffing tables at events or gathering spaces), home visits, small-group meetings and community gatherings.

## **RECOMMENDED PLAN OUTREACH**

A public open house was held on Oct.10, 2012 at Rondo Community Library. This event provided the opportunity for stakeholders to hear about the changes and clarifications to the Concept Plan and ask questions. To promote the open house, posters were hung in bus shelters throughout the Study Area, information was available online and was emailed to stakeholders, and articles appeared in *Connect* and the *Pioneer Press*.

Date	Location	Attendees
October 10	Rondo Community Library	58

## **PUBLIC OUTREACH CONCLUSIONS**

Feedback from stakeholders and public comments identified areas in the plan that warranted modification. Metro Transit received the greatest number of comments about proposed Route 83. There were 176 comments regarding this route after the Concept Plan and 17 comments following the Recommended Plan. These comments included a mix of both positive and negative feedback. Most of the negative feedback following the Concept Plan came from residents on Lexington Parkway south of Jefferson Avenue, and following the Recommended Plan, from residents on Edgcumbe Road and Hamline Avenue. One of the common suggestions following the Concept Plan was to extend Route 83 north to Como Park. Other comments suggested that the route be extended farther to serve those living north of the park.

Route 94 received the second highest number of comments (85). The primary concerns with this route were the loss of midday service, a longer commute time and loss of the Route 94 stops at Marion Street near Ravoux Hi-Rise and at Snelling Avenue. Other concerns included the elimination of Route 144, the potential loss of Huron Station connections to the U of M, clarification regarding the future of the Route 62 deviation along Demont Avenue and safety on light rail and University Avenue.

The Concept Plan was modified to address many of the concerns highlighted by public comments, while staying within the project operating budget. Specifically, five routes were altered in response to public comment. No changes were made to the Recommended Plan following its availability to the public.

## CHAPTER THREE: KEY PLAN OBJECTIVES AND STRATEGIES

Evaluation of existing conditions in the Study Area and consideration of the issues identified through the public input process suggest five primary opportunities to improve the productivity and effectiveness of transit service in the Study area:

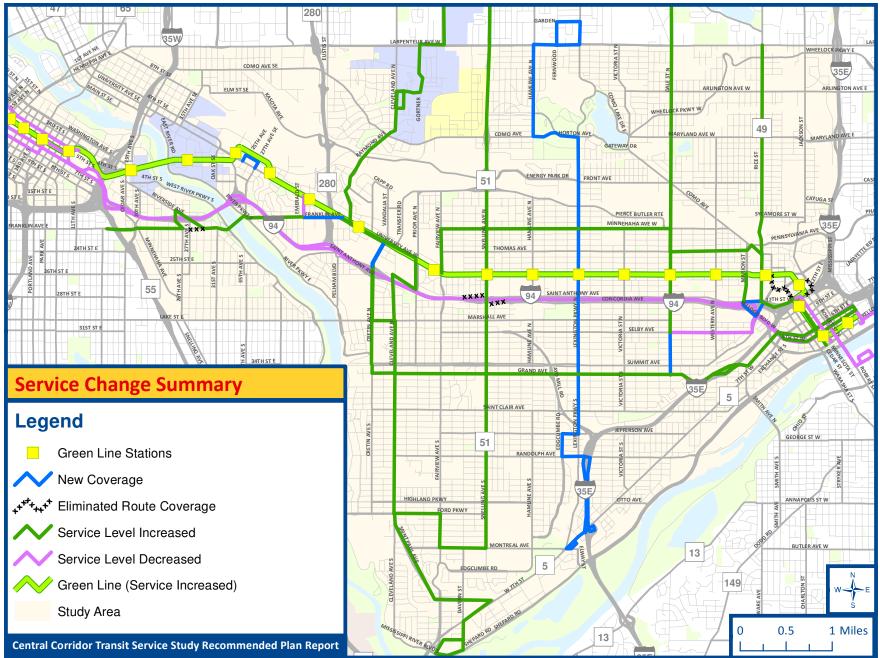
- Strengthen the bus route network grid. Connect bus routes with trains at key Green Line stations.
- Improve service frequency. Given a choice, most people will choose more frequent service within reasonable walk distances.
- Enhance off-peak service. Increasingly, people need to travel outside the traditional rush-hour commute periods.
- Improve bus-to-bus connectivity. Improve connections to other Study Area bus routes.
- Improve bus service to major destinations. Major destinations were identified by public input forms.

These basic observations led to the following service design principles in the recommended plan:

- Provide convenient and reliable bus and train connections at key Green Line stations.
- Generally improve the frequency of connecting bus service to every 20 minutes seven days a week, which is compatible with the Green Line's 10-minute frequency.
- Expand the hours of service for all bus routes that connect with the Green Line seven days a week.
- Reduce transit service redundancy between bus and LRT in the Central Corridor and shift resources from reduced bus service on University and I-94 to improve connecting bus service.
- Improve the transit connectivity among the many colleges and universities in the Study Area.
- Provide faster, more direct service to major destinations in the Study Area.
- Fill in the north-south cross-town bus route network.

Figure 7 illustrates how the Recommended Plan is designed to satisfy these principles.

#### Figure 7 Service Change Summary



## **CHAPTER FOUR: PROPOSED SERVICE CHANGES**

## **RECOMMENDED PLAN TRANSIT SERVICE NETWORK**

The primary emphasis of the Recommended Plan is to reduce service on those bus routes whose service will be replaced by Green Line service and to shift those resources into improved coverage, frequency and hours of service on bus routes connecting with rail. Improving the frequency of service will improve the reliability of the routes and the transfer connections between routes.

Under this plan, Route 50 is eliminated and service on Route 16 and 94 is reduced. A new route is introduced on Lexington Parkway (Route 83). At the same time, frequency is improved on four core local routes on weekdays (Routes 65, 67, 84 and 87), five on Saturdays (Routes 63, 65, 67, 84 and 87) and six routes on Sundays (Routes 62, 63, 65, 67, 84 and 87). Frequencies will be compatible with those of the METRO Green Line during every hour of service to provide reliable and consistent connections to the greatest extent possible. **Figures 8, 9 and 10** present maps of the Recommended Plan. **Figure 11** is a summary of existing and proposed service frequencies by route.

The Central Corridor Transit Service Study Recommended Plan includes the following proposed service changes:

## University Avenue Corridor (Routes 16, 50, 94)

The METRO Green Line will be the primary east-west service in the corridor, running every ten minutes most of the day, seven days a week. This service will replace the existing Route 50 limited stop bus service.

Local Route 16 will continue to operate parallel to the METRO Green Line, at a reduced frequency, providing local access for those who have difficulty traveling longer distances to a rail station. Route 16 will operate every 20 minutes at most times of the day. For most of the day, Route 16 will only operate between downtown St. Paul and Oak Street on the east end of the University of Minnesota campus. Route 16 will be re-routed via Marion Street and the St. Paul College area, no longer directly serving the capitol building. From approximately 1:00 a.m. to 5:00 a.m., when rail service is not operating, Route 16 will be extended to downtown Minneapolis, operating hourly.

Route 94 currently provides express service on I-94 between downtown Minneapolis and downtown St. Paul. Select trips also serve Snelling Avenue and/or Marion Street and the State Capitol area. After the METRO Green Line begins operations, Route 94 will operate only during weekday peak periods and midday hours (5:00 a.m. - 7:00 p.m.). The route will operate non-stop between the two downtowns and will no longer stop at Snelling Avenue or serve Marion Street and the Capitol area. Route 94 will follow 5th/6th streets in St. Paul and 6th/7th streets in Minneapolis. Peak service will operate every 10 minutes, with alternating trips serving River Park Plaza across the river from downtown St. Paul and Union Depot every 20 minutes. Midday service will operate every 30 minutes between Minneapolis and Union Depot in St. Paul.

## East-West Connections (Routes 3, 8, 63, 67)

East-west routes that parallel the University Avenue corridor will be adjusted to improve connections with the METRO Green Line.

**Route 3** will be re-routed westbound via Minnesota Street instead of Wabasha Street from Kellogg Boulevard to 10th Street to better serve the center of downtown St. Paul. Passengers will benefit from the improved waiting facilities on Minnesota Street.

**Route 63** will continue to operate on East 3rd Street east of downtown St. Paul and on Grand Avenue west of downtown St. Paul. The route will be extended from the University of St. Thomas area to Raymond Avenue station via Cretin Avenue. Service will be improved on the entire route to operate every 20 minutes at most times, including weekends.

Route 8 will be combined with Route 67. New Route 67 will serve Franklin Avenue between Hiawatha Avenue (METRO Blue Line) and University Avenue, University Avenue between Raymond Avenue Station and Fairview Avenue Station, and then the existing route on Fairview and Minnehaha avenues to downtown St. Paul. Since the segment of University Avenue between Raymond and Fairview Avenue stations is the longest non-stop METRO Green Line segment, extending Route 67 to Raymond Avenue station via University Avenue will help supplement Route 16 local service in this segment of University Avenue. Route 67 will end in downtown St. Paul. The existing Route 67 service south of downtown St. Paul will become part of Route 62 and will maintain current levels of frequency and span of service. Route 67 will no longer operate on Gilbert and Prior avenues south of University. On Franklin Avenue, service will operate via Riverside Avenue and 25th/26th Avenue to better serve Augsburg College and the Fairview University Medical Center. Between downtown St. Paul and Raymond Avenue Station, Route 67 will operate every twenty minutes at most times. On Franklin Avenue, service will operate every 20 minutes on weekdays and Saturdays and every hour on Sundays. On Sundays, most Route 67 trips will end at Fairview Avenue and only the hourly service to Franklin Avenue will serve Raymond Avenue station.

#### North-South Connections (Routes 62, 65, 83, 84, 87)

The north-south routes that currently intersect the University Avenue corridor at Dale Street, Snelling Avenue and Raymond Avenue will be improved to make more frequent connections with the METRO Green Line, and a new route on Lexington Parkway will be reintroduced.

**Route 62**, which serves Rice Street, will be extended to West St. Paul, replace that section of Route 67, and operate an improved frequency of service on Sundays.

**Route 65** will continue to operate from Rosedale Transit Center via County Road B and Dale Street to Selby Avenue. Route 65 will no longer serve downtown St. Paul via Selby Avenue and instead will continue on Dale Street, terminating at Grand Avenue. Route 65 will operate every 20 minutes at most times, including weekends. This new routing

will restore a desired connection to Grand Avenue. Alternate service to downtown St. Paul will be available via the METRO Green Line, and along Selby Avenue via Route 21.

New **Route 83** will operate on Lexington Parkway between Jefferson and Horton/Como Avenue at Como Park. The new service on Lexington Parkway enhances the grid network, filling a two-mile gap between Snelling and Dale. South of Jefferson Avenue, Route 83 will travel via Jefferson Avenue- Edgcumbe Road – Randolph Avenue – I-35E – W. 7th Street and Montreal Avenue, an alignment that was recommended by the community. North of Como Avenue, Route 83 will be extended via Hamline Avenue to Larpenteur and Lexington avenues. Route 83 will operate every 30 minutes at all times, including weekends.

**Route 84** on Snelling Avenue will be improved to operate every 10 minutes between Rosedale and Ford Parkway. South of Ford Parkway, the two local routings (D and H branches) will be combined into one branch serving both Montreal Avenue and the West 7th and Davern Street area every 30 minutes using current routings. Service to 46th Street Station (METRO Blue Line) on Ford Parkway will continue to operate every 30 minutes.

Future arterial bus rapid transit service on Snelling Avenue may operate a limited-stop service every 10 minutes with stations every quarter- to half-mile on Snelling Avenue and Ford Parkway between Rosedale and the 46th Street station (METRO Blue Line). If Rapid Bus service exists by the time METRO Green Line operations begin, this service would replace much of Route 84 service on Snelling Avenue.

**Route 87**, which serves Rosedale, Raymond and Cleveland avenues and the U of M's St. Paul campus, will also operate an improved frequency of service. Trips will operate every 20 minutes at most times, including new evening and weekend service. The current routing via Cleveland, Gilbert, Prior and University avenues will be maintained.

## Limited Stop Commuter Routes (Routes 134, 144)

In addition to all-day local service, Metro Transit currently operates rush-hour only commuter-oriented service on both Snelling and Cleveland/Cretin avenues.

**Route 134** provides nearly 650 daily rides between Highland Park and downtown Minneapolis via Cleveland and Cretin avenues and I-94. The span of service on this route will be reduced on the fringe of the rush hours but will remain unchanged for the most popular work start and ends times. The current routing via Cleveland, Summit and Cretin avenues will be maintained. Reverse-commute service will be eliminated. Alternative service will be available via Route 87 and the METRO Green Line.

**Route 144** provides about 160 rides a day between Highland Park, the U of M and downtown Minneapolis via Snelling Avenue and I-94. This route will be eliminated, with alternate service available via Route 84 and the METRO Green Line.

## No Significant Changes (Routes 2, 6, 21, 53, 68, 71, 262)

No significant changes are proposed for routes 2, 6, 21, 53 and 262. These routes were included in the study because they make connections with METRO Green Line stations outside of downtown Minneapolis or downtown St. Paul. Based on the results of the study, no route structure or major change in frequency or span of service is planned on Routes 2, 21 and 53. There will be a minor route extension on **Route 6** from Oak Street and Washington Avenue to Stadium Village Station, which will provide a more direct connection between the Marcy Holmes neighborhood and the METRO Green Line. **Routes 68 and 71**, while not included in the Central Corridor Transit Service Study Existing Conditions Report, are included in this plan because they will be re-routed via 14th St. between Jackson and Robert streets to make a direct connection with the METRO Green Line at Robert Street Station.

## Huron Station (Routes 50U, 94, 134, 353, 355, 365, 375, 452)

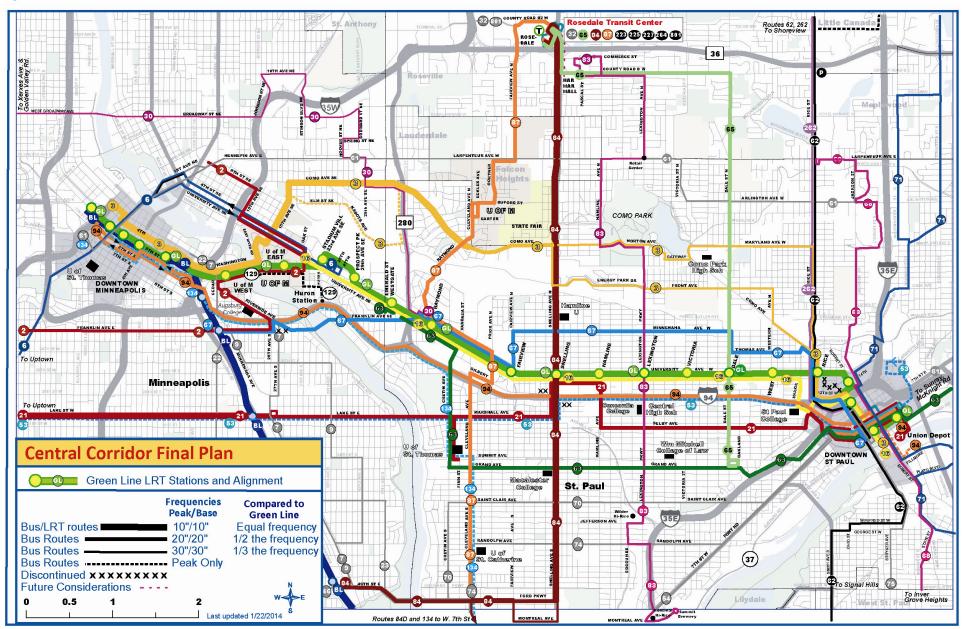
Currently, select westbound express routes serve Huron Station at I-94 and Huron Boulevard between 7:30 a.m. and 9:20 a.m., offering a direct connection with Route 50 to the U of M campus, East Bank and West Bank. Since the METRO Green Line will replace Route 50, a new local bus connection between Huron Station and the U of M main campus will be provided. Service is recommended between the hours of 7:30 and 8:40 a.m., the hours when the service is most consistently used.

## **FUTURE CONSIDERATIONS**

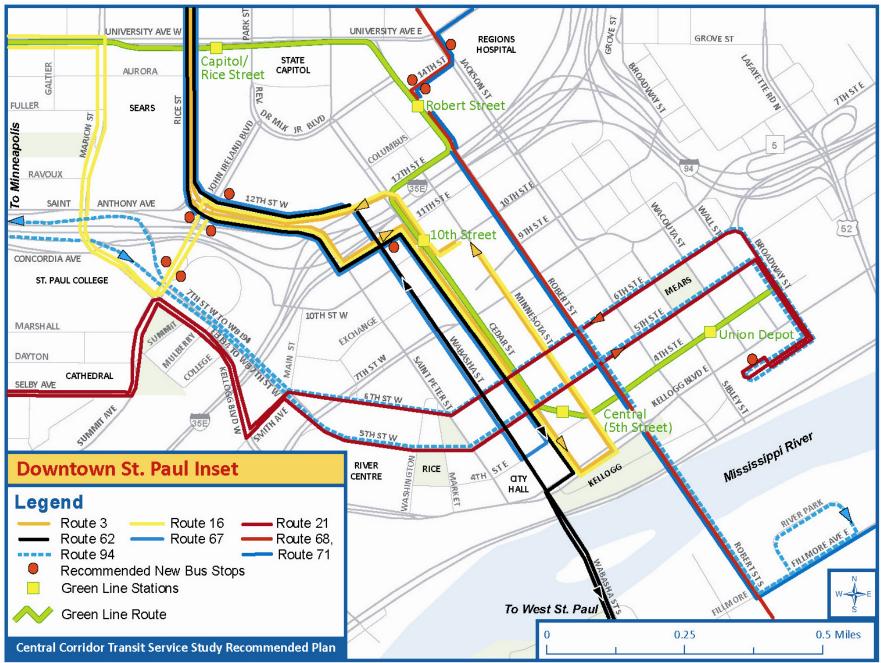
In addition to the baseline bus service improvements proposed here, the Recommended Plan includes a list of additional service improvements that merit consideration for implementation if funding allows. The list has not been prioritized at this time.

- Route 21: Improve frequency in St. Paul on Selby Avenue, Hamline Avenue to University Avenue.
- Improve night frequencies on more St. Paul bus routes to preserve connections between Minneapolis and St. Paul now made in downtown via Route 94. Likely routes for improvement: 62, 68, 71, 74.
- Route 30: Establish a new cross-town route on Broadway Avenue serving north and northeast Minneapolis and the U of M, connecting to the METRO Green Line at the U of M.
- Route 62: Improve frequency on Rice Street.
- Route 67: Extend Sunday service from Fairview Avenue to Raymond Avenue Station on all trips.
- Route 83: Improve frequency and hours of service to match other routes in the Study Area. Extend service to Rosedale via Lexington Avenue, County Road B and Snelling Avenue.

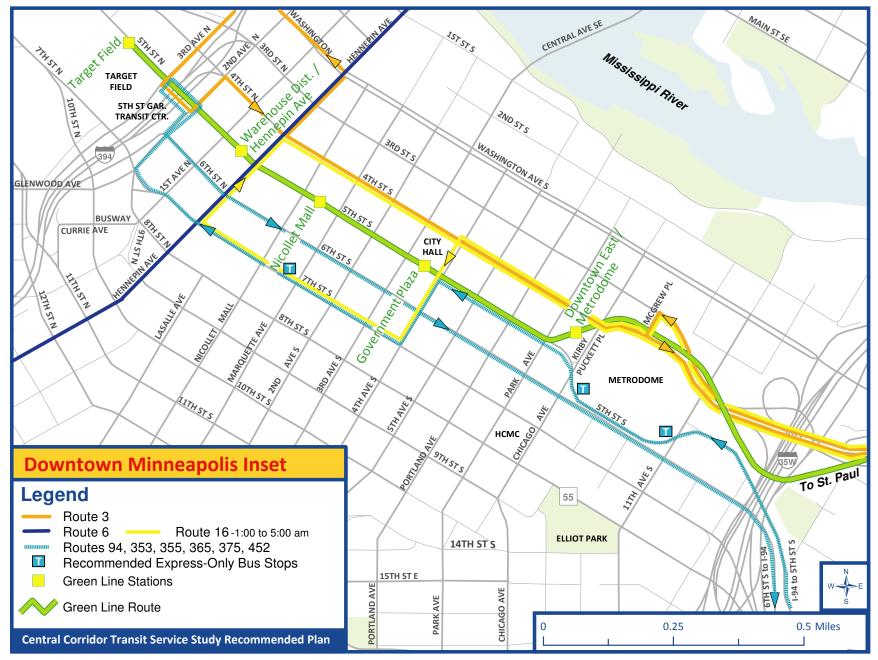
#### Figure 8 Recommended Plan



#### Figure 9 Downtown St. Paul Recommended Plan



#### Figure 10 Recommended Plan Downtown Minneapolis



#### Figure 11 Existing and Recommended Plan Trunk Frequency Comparison Table

	Weekday	Off-peak	Weekd	lay Peak	Satu	rday	Sur	nday
Existing and Proposed Routes	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
METRO Green Line -Mpls/U of M/University Av/St. Paul LRT	0	10	0	10	0	10	0	10
2 - Franklin/Riverside/U of M/4 <sup>th</sup> /8 <sup>th</sup> St	5 to 15	5 to 15	5 to 15	5 to 15	20 to 30	20	20 to 30	20
3 - Mpls/U of M/Como/Front/Maryland/St. Paul	10 to 15	10 to 15	5 to 15	5 to 15	30	30	30	30
6 - Mpls/U of M/4 <sup>th</sup> St/Univ. Av/Stadium Village	30	30	20	20	30	30	30	30
8 - Mpls/Franklin Av/Univ. Av (See Route 67)	30 to 40	0	30	0	0	0	0	0
16 - Mpls/U of M/University Av/St. Paul	10	20	8 to 12	20	10 to 15	20	15 to 30	20
21 -Marshall Av/Selby Av/St. Paul end only	20 to 30	20	15	15	20	20	20	20
50 - Mpls/U of M/University Av/St. Paul (See Green Line)	0	0	6 to 12	0	0	0	0	0
53 - Mpls/Lake St/Marshall Av/I-94/St. Paul	0	0	20 to 30	20 to 30	0	0	0	0
62 - Shoreview/Rice St /St. Paul	30	30	30	30	30	30	60	30
62 - St. Paul/ Smith Av/Signal Hills/W. St Paul	0	30	0	30	0	60	0	60
63 - Maplewood/E. 3 <sup>rd</sup> St /St. Paul/Grand Av	20 to 30	20	13 to 30	10 to 20	30	20	60	20
63 – Raymond Av/University/Cretin Av	0	20	0	20	0	20	0	20
65 - Roseville/Dale St /St. Paul	30	20	30	20	75	20	75	20
67 – Smith /Signal Hills/W. St Paul (See Rt 62)	30	0	30	0	60	0	60	0
67 – Fairview/Minnehaha/Thomas Av/St Paul	30	20	20 to 30	20	60	20	60	20
67 – Mpls/Franklin Av/University Av/St Paul	0	20	0	20	0	20	0	60
68 – St. Paul/Robert St//Jackson St	30	30	10 to 30	10 to 30	30 to 60	30 to 60	30 to 60	30 to 60
71 – St. Paul/Arkwright St/Concord St	15 to 30	15 to 30	15 to 30	15 to 30	30 to 60	30 to 60	60	60
83 – Como Av/Energy Park/Lexington/W 7 <sup>th</sup> St	0	30	0	30	0	30	0	30
84 - Roseville/Snelling Av/St. Paul/46 <sup>th</sup> St/Mpls	15	10	15	10	15 to 30	10	30 to 60	10
87 - Roseville/Raymond Av/Cleveland/St Paul	30	20	30	20	0	20	0	20
94 - Mpls/ I-94 Express/St. Paul (See Green Line)	15	30	5 to 10	10 to 15	30	0	30	0
134 - St. Paul/Cleveland/Cretin Av/I-94/Mpls	0	0	10 to 20	10 to 20	0	0	0	0
144 - St. Paul /Snelling Av/I-94/ U of M/Mpls (See Green Line)	0	0	15 to 30	0	0	0	0	0
Routes via Huron Blvd Station:								
Local U of M Connection – Huron Blvd/Washington Ave	0	0	10	10	0	0	0	0
353 – Woodbury/St Paul/ I-94 Express /Mpls	0	0	1 trip	1 trip	0	0	0	0
355 – Woodbury/ I-94 Express/ Mpls	0	0	10 to 15	10 to 15	0	0	0	0
365 – Cottage Grove/ I-94 Express/ Mpls	0	0	15 to 30	15 to 30	0	0	0	0
375 – Oakdale/ I-94 Express/ Mpls	0	0	10 to 20	10 to 20	0	0	0	0
452 – Mendota/ I-94 Express/ Mpls	0	0	30	30	0	0	0	0

### CHAPTER FIVE: IMPACTS OF CENTRAL CORRIDOR TRANSIT RECOMMENDED PLAN

As part of the overall process of planning bus service changes, Metro Transit considers the impacts of the proposed changes on a variety of areas including the operating budget, overall service efficiency and productivity, service coverage, and coordination with Metro Mobility paratransit and Transit Link dial-a-ride services.

#### **OPERATING BUDGET**

The cost of bus service proposed in this Recommended Plan, not including Future Considerations, is generally equivalent to existing bus costs in the Study Area. Resources saved from reduced service on bus routes whose trips will be operated by METRO Green Line trains are shifted to improve coverage, frequency and hours of service on bus routes connecting with rail. Operating funds for the METRO Green Line are not being redirected from the bus service.

#### **EFFICIENCY AND EFFECTIVENESS MEASURES**

A principal goal in developing the Recommended Plan is to improve the efficiency and effectiveness of transit service to enable the mobility of transit riders. The Recommended Plan route network is more efficient, operating more in-service hours within the same number of total platform hours as operated today.

Bus routes in the Central Corridor Transit Service Study Area currently operate effectively, with an average productivity on weekdays ranging between 18.5 to 78.2 passengers per in-service hour and ranging between 19.7 to 73.5 passengers per inservice hours on weekends. The Recommended Plan seeks to maintain this high productivity through service frequency improvements and reliable connections between bus and METRO Green Line service and improved bus-to-bus connections. The improved Central Corridor Transit Service Recommended Plan routes are estimated to have an average productivity equivalent to the current ranges.

#### **ROUTE COVERAGE**

Analysis of existing service identifies some route segments and network elements that are unproductive and ineffective. While maintaining good coverage within the Study Area, selected route segments were restructured or abandoned. The abandoned segments include:

- Franklin Avenue between Riverside Avenue and 27th Avenue South
- Emerald Street between Franklin Avenue and University Avenue/Eustis Street
- The bus stop on St. Anthony Avenue west of Snelling Avenue
- Martin Luther King Boulevard between University Avenue and Cedar Street

Planners worked extensively to refine the proposed plan to minimize significant negative rider impacts while maintaining proposed effectiveness and efficiency improvements. In the end, very few customers in the Study Area will not have service within a quarter-mile of the final network.

#### **METRO MOBILITY AND TRANSIT LINK**

Metro Mobility is a shared public transportation service for certified riders who are unable to use regular fixed-route buses due to a disability or health condition. Metro Mobility services within the study area may be impacted by changes outlined in the Central Corridor Transit Service Study Recommended Plan. This door-to-door service is mandated by the Americans with Disabilities Act and is provided by the Metropolitan Council. Since Metro Mobility service hours and areas are determined by the fixed-route transit network, changes to fixed-route service hours or routing will affect Metro Mobility's complementary paratransit services as well.

Transit Link is the Twin Cities dial-a-ride service for the general public, where regular route transit service is not available. Transit Link service is provided for those trips that are beyond a specific distance from fixed-route service. As the coverage or hours of service of the fixed route network change, the coverage of the Transit Link service may change.

The majority of fixed routes in the Central Corridor Transit Service Study Area operate in areas that already have full coverage with Metro Mobility service and no coverage by Transit Link service.

# CHAPTER SIX: TITLE VI ANALYSIS OF POTENTIAL DISPARATE IMPACT

The Federal Transit Administration (FTA) issued Circular 4702.1A in 2007, which defines Title VI and Environmental Justice compliance procedures for recipients of FTA-administered transit program funds. Specifically, the FTA requires recipients, including Metro Transit, to "evaluate significant system-wide service changes and proposed improvements at the planning and programming stages to determine whether those changes have a discriminatory impact."

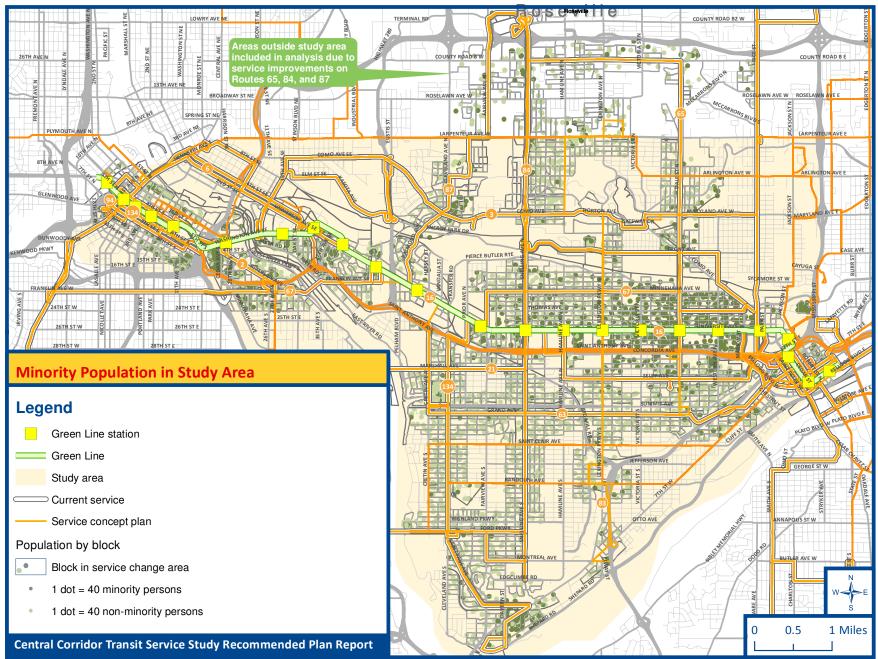
#### **Definitions**

Minority: The FTA defines a minority person as one who self-identifies as American Indian/Alaska Native, Asian, Black or African American, Hispanic or Latino, and/or Native Hawaiian/Pacific Islander. In other words, minority population is defined as non-white persons, or those of Hispanic origin. Minority and non-minority persons in the Central Corridor Transit Service Study Area are mapped in **Figure 12**.

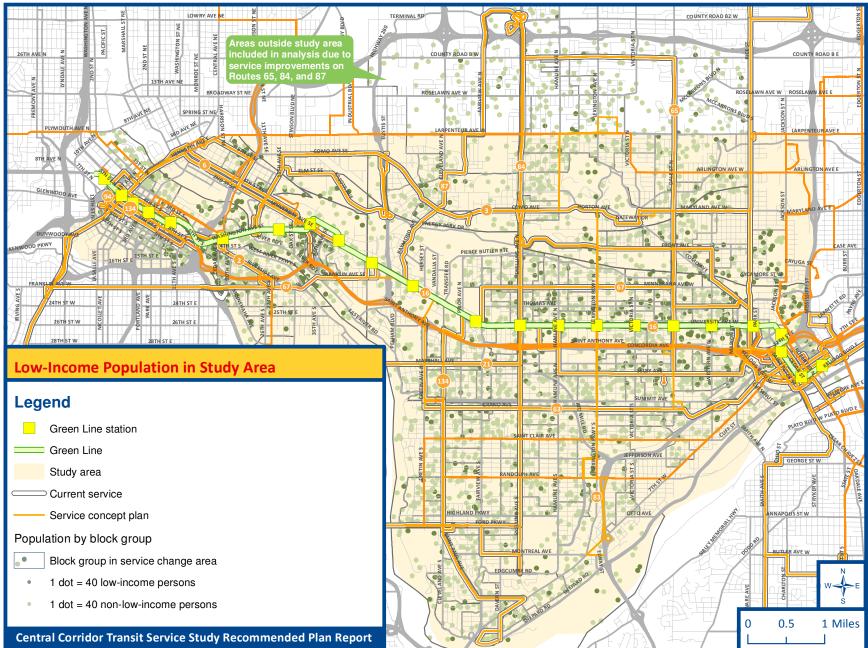
Low Income: The FTA defines a low-income individual as one whose household income is at or below the poverty guidelines set by the Department of Health and Human Services (DHHS). DHHS poverty thresholds are based on household size and income, and are nearly identical to the guidelines used to define poverty in the 2010 U.S. Census and American Community Survey (ACS), which form the basis of this review. Low-income and non-low-income persons in the Central Corridor Transit Service Study Area are mapped in **Figure 13**.

Disparate Impact: The Federal Transit Administration defines "disparate impacts" as neutral policies or practices that have the effect of disproportionately excluding or adversely affecting members of a group protected under Title VI, and the recipient's policy or practice lacks a substantial legitimate justification. If the results of this analysis indicate a potential for disparate impacts, further investigation is performed. This investigation uses qualitative assessments and/or the "four-fifths rule" to determine whether disparate impacts exist. In this analysis, if the quantitative results indicate that the Recommended Plan service changes provide benefits to minority/low-income groups at a rate less than 80 percent of the benefits provided to non-minority/non-low-income groups, there could be evidence of disparate impacts. If disparate impacts are found using this threshold, mitigation measures should be identified.

#### Figure 12 Minority Population in Study Area



#### Figure 13 Low-Income Population in Study Area



#### **Evaluation Methodology**

Impacts of the proposed service changes on residents of the study area are determined based on the change in access to transit. Access to transit is measured as the number of bus trips that serve a given population. Since Census data is used for this analysis, service change impacts are determined by Census division. For minority populations, the Census "block" divisions are used. For low-income populations, the Census "block group" divisions are used. In the analysis, the number of transit trips serving each Census division is calculated for both the existing service and the proposed Recommended Plan. The change in service level is calculated for each census division by subtracting current total trips from future total trips, as shown:

Future trips available				
within census division				
(modified/planned bus				
routes)				

Current trips available within census division (existing bus routes)

Change in service by census division

=

Under the population method, the average percent change in service is calculated by assigning weights to each division's individual percent change according to its population makeup. This is achieved by multiplying each division's population by the percent change in that division, summing the results for all analyzed areas, and dividing the sum by the total population of the analyzed census divisions, as shown:

Avg %
$$\Delta = \frac{\sum Population_i \times Percent Change_i}{\sum Population_i}$$

#### **Evaluation of Impacts: Minority Population**

The table below summarizes the percent change in trip count using the populationweighted method for the total population, minority population and non-minority population.

#### **Change in Service Levels – Minority Analysis**

	Total	Minority	Non-Minority
Population	167,957	58,110	109,847
Average Percent Change in Service	52.8%	51.6%	53.4%
Four-Fifths Threshold (4/5 x Non-Minority Rate of Change)			42.7%

On the whole, the minority population that is within the service change area experiences 99 percent of the benefits experienced by the non-minority population. While the percent change in service is very slightly lower for the minority population than the non-minority population, the minority rate of service increase is well within the four-fifths threshold of 40 percent. Therefore, no potential for disparate impact is identified.

#### **Evaluation of Impacts: Low-Income Population**

The table below summarizes the percent change in trip count using the populationweighted method for the total population, low-income population and non-low-income population.

	Total	Low-Income	Non-Low- Income
Population	224,588	44,051	180,537
Average Percent Change in Service	45.2%	41.5%	46.1%
Four-Fifths Threshold (4/5 x Non-Low-Income Rate of Change)			36.9%

#### **Change in Service Levels – Low-Income Analysis**

On the whole, low-income residents within the Study Area experience 86 percent of the benefits experienced by non-low-income people. While the percent change in service is lower for the low-income population than the non-low-income population, the low-income rate of service increase is well within the four-fifths threshold of 36.9 percent. Therefore, no potential for disparate impact is identified.

Under the guidance of FTA Circular 4702.1A, any service change whose benefits are distributed inequitably to Title VI-protected populations can be identified as having a disparate impact on that population and should be further reviewed for mitigating or alternative measures.

For the service changes proposed in this Recommended Plan, minority and low-income populations experience an average increase in service that is greater than 80 percent of the increase in service experienced by non-minority and non-low-income populations, respectively. Therefore, this review finds that the proposed Central Corridor Transit Plan service changes do not disproportionately and adversely affect minority or low-income populations.

#### **Potential Adverse Effects**

Notwithstanding the above finding of no disparate or discriminatory impact, there are a few areas that experience a decrease in service as a result of the Recommended Plan. These areas are represented in yellow on **Figures 14 and 15**. Specific cases and the reasons for the net loss in service are described below.

• Downtown St. Paul/Capitol Complex/Marion Street. The area just north of downtown St. Paul near the State Capitol experiences a loss in service due to reduction in Route 16 frequency and the discontinuation of Route 94B trips that serve the Capitol area and Marion Street directly today. Under the Concept Plan, these trips can be made with direct LRT service from the METRO Green Line. Under the Recommended Plan, this area will also have Route 16 bus service on Marion Street as an option.

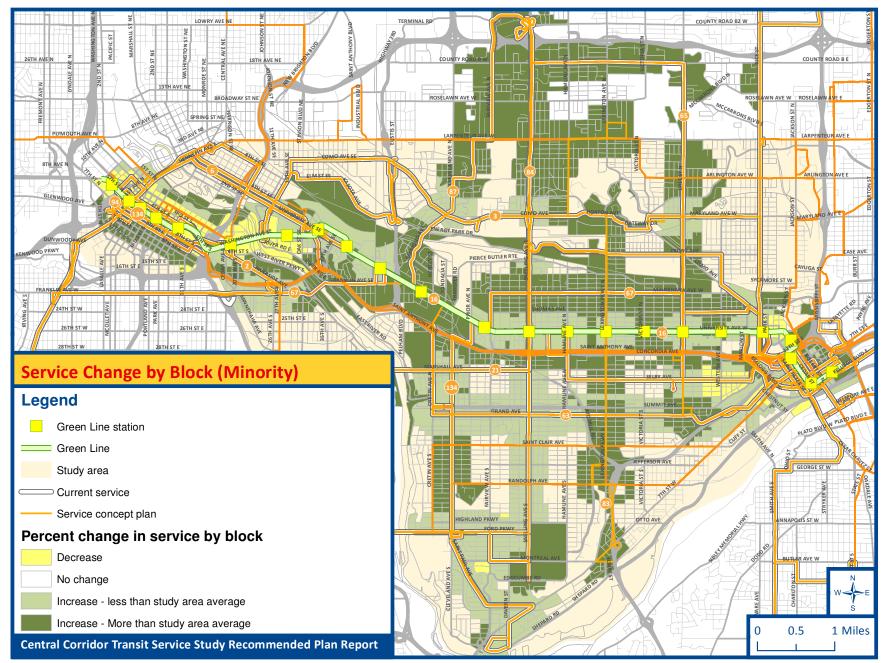
- **Downtown Minneapolis.** Areas in downtown Minneapolis experience a reduction in the number of transit trips due to:
  - Discontinuation of Route 16 service to downtown
  - Discontinuation of Route 144 service to downtown
  - Reduction in Route 94 service
  - Reduction in Route 134 service

In the Recommended Plan, each of these services is replaced with METRO Green Line service.

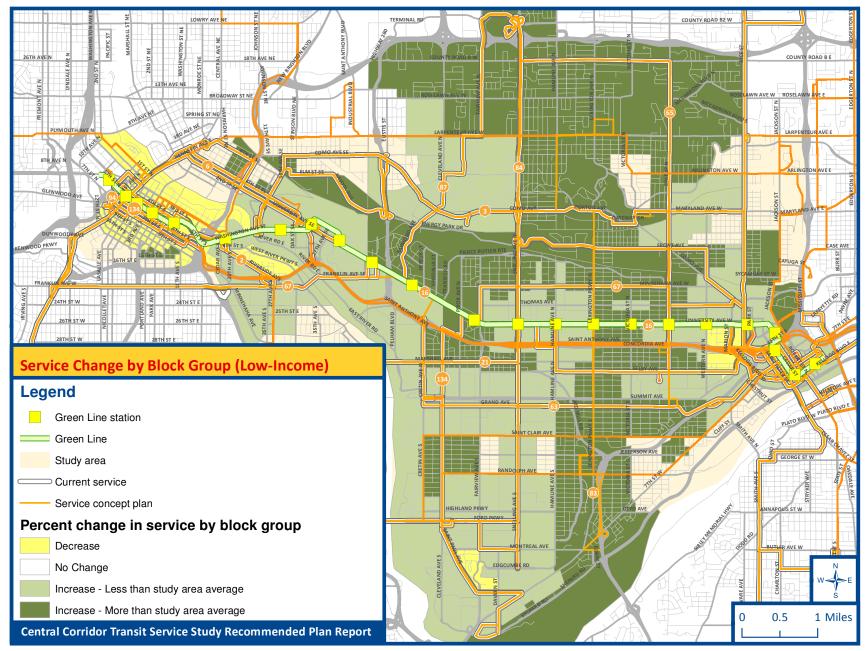
- University of Minnesota. Areas surrounding the University of Minnesota campus experience a reduction in transit trips due to the replacement of Route 16 and Route 50 service with METRO Green Line west of Oak Street/Washington Avenue.
- Selby Avenue. Areas surrounding Selby Avenue just west of downtown St. Paul see a reduction in transit trips due to the restructuring of Route 65 in this area. Route 65 frequency is increased and service along Selby Avenue to downtown St. Paul is discontinued. Route 21 service remains in the corridor.
- Highland Park near St. Paul Avenue/Montreal Avenue. A small area of the Highland Park neighborhood in St. Paul experiences a reduction in transit trips due to:
  - Restructuring of Route 84 branches. Currently, the "D" and "H" branches of Route 84 are served on two different route patterns. In the Recommended Plan, these branches are combined so that they are served by the same pattern. While this results in a net decrease in number of trips, the effective service level remains the same.
  - Discontinuation of Route 144.

While these changes are a reduction in the number of transit trips available, since there is alternate service available for most current riders within a quarter mile, these are not considered adverse impacts.

#### Figure 14 Service Change by Block for Minority Population Analysis



#### Figure 15 Service Change by Block Group for Low-Income Population Analysis



### **CHAPTER SEVEN: FACILITY IMPROVEMENTS**

A Central Corridor bus facilities plan has been developed with the intention of providing facilities support to the proposed bus service changes contained in the Central Corridor Transit Service Study. These changes will be implemented in conjunction with the opening of the METRO Green Line in 2014 and are intended to maximize usage and efficiency of transit in the Central Corridor service area.

The Central Corridor bus facilities plan is focused on the area defined by the Central Corridor Transit Service Study and encompasses all the route changes that are proposed to improve connectivity to the METRO Green Line. The focus of the plan is to improve bus facilities along the new and existing routes in the study area so that using transit, especially in order to connect to the METRO Green Line, is a more attractive and easier option for customers. Downtown Minneapolis and downtown St. Paul are not considered as a part of this Central Corridor bus facilities plan due to other, ongoing projects that are improving facilities in the two downtowns. In addition, bus facility improvements were not considered for Snelling Avenue/Ford Parkway and West 7th Street as these corridors have been identified for the implementation of arterial bus rapid transit lines and will be receiving facility improvements as a part of that project.

A number of areas for improvements in Metro Transit's bus facilities have been identified to enhance connections between METRO Green Line service and bus service in the study area. In anticipation of METRO Green Line service in 2014, Metro Transit proposes to make enhancements to the following categories of bus facilities with the Central Corridor Transit service area.

#### DOWNTOWN ST. PAUL BUS STOP IMPROVEMENT PLAN

In 2009, the City of Saint Paul developed the <u>6th + 5th Street Capital Improvement Plan</u>, which defines a vision for improving the physical environment of 6th and 5th streets between Rice Park and Mears Park. One of the recommendations of this plan was to improve the physical environment of the four highest-volume downtown bus stops on 5th Street, Minnesota Street, 6th Street and Cedar Street.

In response to this need, Metro Transit applied for and was awarded a \$2.6 million Federal Transit Administration grant to upgrade these four bus stops. The upgrades will improve the safety, function, amenities and aesthetics of the facilities and will maximize the benefits of other transit investments currently underway in downtown St. Paul, including the introduction of the METRO Green Line service in 2014.

Improvements to all four bus stop facilities will include the following:

- Transit shelters/waiting area improvements
- Safety and security upgrades
- Signage (real-time departure, transit and way-finding information)
- Sidewalk and street modifications
- Integration of benches, plantings, waste receptacles, public art, lighting, bicycle

amenities and other streetscape elements

- Vertical connection to METRO Green Line (partial funding)

#### STUDY AREA WIDE BUS STOP IMPROVEMENT PLAN

Shelter upgrades are being prioritized along bus routes that make connections to METRO Green Line stations, especially at University Avenue stops. These stops are anticipated to be high-transfer areas for transit customers who are making connections between LRT service and bus service. New or modified routes in the study area, such as the proposed Lexington Avenue route, are also prioritized for transit shelters where these routes connect with the METRO Green Line. Along University Avenue, Metro Transit intends to provide shelters with lighting to enhance customer safety and comfort. Shelter installation in other locations in the study area will be prioritized based upon ridership at those stops. To ensure equitable use of limited capital resources, Metro Transit requires that a stop in Minneapolis or Saint Paul has 40 or more boardings a day before a shelter is warranted. Excluding the downtown zones, there are currently 89 bus stops within the Study Area that have 40 or more daily boardings, but do not have a shelter.

The improvement of informational signage within the Study Area is also seen as a key opportunity to increase amenity for transit customers. Metro Transit, in partnership with the cities of St. Paul and Minneapolis, will provide directional signage along bus routes serving the METRO Green Line to make these connections more legible and clear. Signs indicating which bus routes connect to the METRO Green Line will be placed at bus stops in the Study Area to help customers, particularly infrequent riders, better understand the transit service available to them. Signs with real-time bus arrival information are also intended to be deployed at high usage stops such as those near the University of Minnesota campus and at bus stops along University where customers will make connections with LRT service.

While the majority of stops in the Study Area already provide safe and accessible bus boarding areas, Metro Transit will be replacing or installing bus pads where safety and accessibility can be enhanced. This will include placing or replacing bus pads to ensure compliance with ADA, connection to improvements that cities are making to their sidewalks and crosswalks, and enhancement of lighting at key bus stops.

The METRO Green Line will also present new opportunities for customers connecting to transit via bicycles. The goal of planned bike improvements is to provide more secure bike parking along the METRO Green Line and thereby encourage biking as a mode of access to transit service. This access will be particularly useful to those residents with less convenient bus connections or for those bicycle commuters in the east metro who wish to extend their commute via the METRO Green Line to the U of M and downtown Minneapolis. A pilot project of a secure "bike-and-ride" is being considered at the Dale or Victoria station. Bike-and-rides, which have been successfully implemented in other parts of the country, provide secure bike parking through card access that will be integrated with Metro Transit's Go-To Card. As part of an ongoing capital improvements project, Metro Transit will replace bike lockers with more effective covered bike racks.

Initiatives to continually improve the sustainability of Metro Transit's operations are being tested and will be expanded based upon their effectiveness. Solar-powered lights in shelters are being tested in Minneapolis. This technology could be extended to realtime signs and/or ticket machines contingent upon the success of the pilot project.

#### **ROSEDALE TRANSIT CENTER**

Rosedale Transit Center is located at the Rosedale Shopping Center in Roseville. The Recommended Plan improves the frequency of many routes that serve the mall and terminate at Rosedale Transit Center.

To accommodate the increase in bus service, the existing transit center bus parking area may need to be expanded. If this expansion is necessary, staff will work with the City of Roseville and the Rosedale Center property owner.

#### **RAYMOND AVENUE STATION BUS LAYOVER FACILITY**

A total of four bus routes will meet near Raymond Avenue Station. Two of the planned routes will terminate at this location, requiring a bus layover area and access to a restroom for bus operators.

#### WEST 7TH STREET BUS LAYOVER FACILITY

The Lexington Parkway cross-town bus route will meet Route 54 on West 7th Street. A new bus layover area and access to a restroom for bus operators is required near Albion Street and West 7th Street.

#### FUTURE SNELLING ARTERIAL BUS RAPID TRANSIT SERVICE AND FACILITIES

The Metropolitan Council's 2030 Transportation Policy Plan identifies 11 high-demand local bus corridors to develop a facility and service plan that would enhance efficiency, speed, reliability, customer amenities and transit market competitiveness. These Rapid Bus corridors include stations with heat, improved lighting, security cameras, ticket vending machines and NexTrip electronic signs that announce the actual departure times for the next bus.

A recent study ranks the Snelling Avenue corridor as one of the best corridors in which to implement this type of service. At this time, Metro Transit has established a goal of implementing Rapid Bus service on Snelling Avenue in 2014. Achieving this goal will require close coordination with many and the same stakeholders that are involved in the Central Corridor Transit Service Study.

# CHAPTER EIGHT: STUDY TIMELINE AND IMPLEMENTATION SCHEDULE

This report outlines a Recommended Plan for improved bus service plan in Central Corridor Study Area. On May 23, 2012, the Metropolitan Council adopted this Recommended Plan for public review. Once public review is completed, service change proposals will be revised and a final plan adopted by the Council in late 2012 for implementation in 2014.

#### TIMELINE

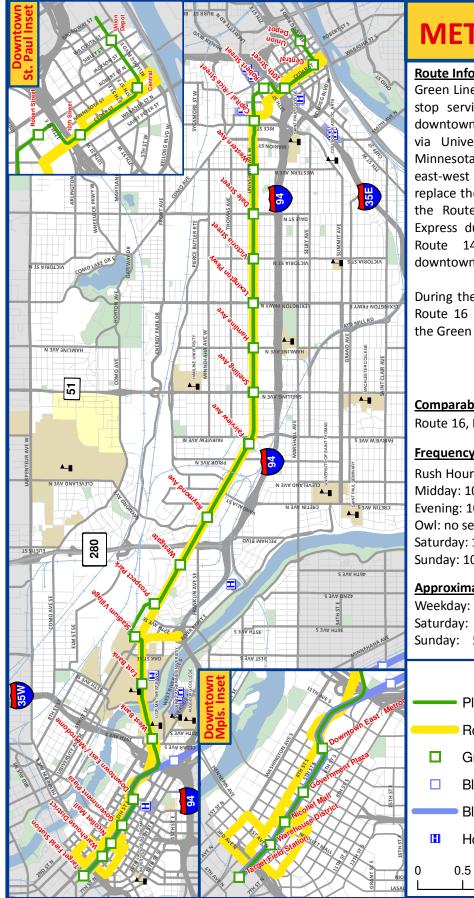
June 2012 – Public meetings and public hearings

July 9, 2012- Public comment period closes

Summer/Fall 2012 - Revise Recommended Plan

- Late 2012 Final Plan approval
- 2014 Implementation with the opening of the METRO Green Line

# **APPENDIX**



### **METRO Green Line**

#### **Route Information:**

Green Line light rail transit will provide limited stop service along University Ave. between downtown St. Paul and downtown Minneapolis via University Ave. and the University of Minnesota. The Green Line will be the primary east-west transit line in the corridor and willl replace the existing Route 16 west of Oak St., the Route 50 Limited Stop bus, Route 94 Express during evenings and weekends, and Route 144 between Snelling Ave. and downtown Minneapolis.

During the Owl hours, 1:00 a.m. to 5:00 a.m., Route 16 bus service will operate in place of the Green Line between the two downtowns.

#### **Comparable Existing Routes:**

Route 16, Route 50

#### Frequency:

Rush Hours: 10 minutes Midday: 10 minutes Evening: 10 to 15 minutes Owl: no service Saturday: 10 minutes Sunday: 10 minutes

#### **Approximate First to Last Departure:**

Weekday: 5:00 am to 1:00 am Saturday: 5:00 am to 1:00 am Sunday: 5:00 am to 1:00 am

### Legend

- Planned Green Line
  - Routes 16 & 50
- Green Line Stations

1 Miles

- **Blue Line Station**
- Blue Line LRT
- Hospital

#### **Route Information:**

Route 2 serves Franklin Ave., Riverside Ave., 4th St. and University Ave SE and remains a significant route serving the University of Minnesota. Most of the trips continue on to serve 10th Ave. and 8th St. SE in the Marcy Holmes neighborhood. During very early and late hours, the route will end at Oak St. and Washington Ave.

Route 2 will have a secondary function as a feeder route to the Green Line, connecting with trains at either the East Bank or West Bank Stations on Washington Ave.

The frequency and span of service will not change significantly.

#### **Comparable Existing Routes:**

Route 2 Frequency:

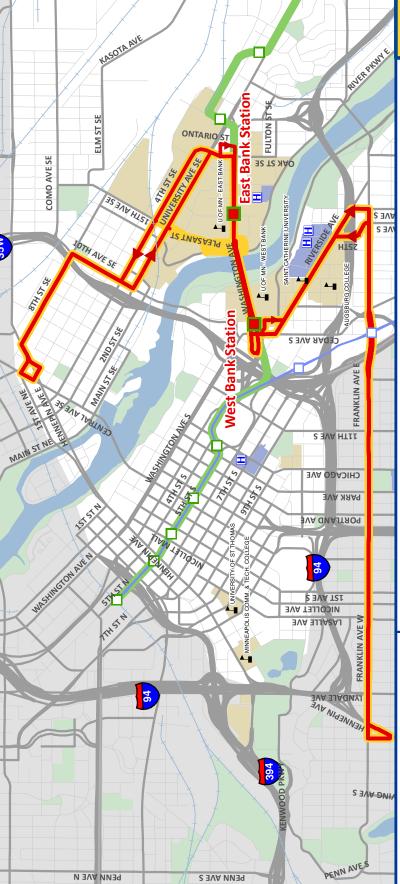
Rush Hours: 5 to 15 minutes Midday: 15 minutes Evening: 20 minutes Owl: no service Saturday: 20 minutes Sunday: 20 minutes

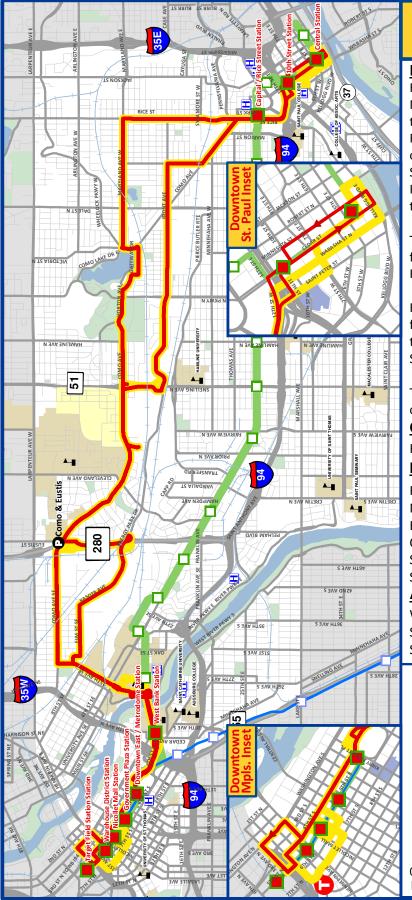
#### Approximate First to Last Departure:

Weekday: 5:00 am to 1:00 am Saturday: 5:00 am to 12:30 am Sunday: 5:00 am to 12:00 am

#### Legend







### Route 3 REVISED August 2012

#### **Route Information:**

Route 3 operates between downtown Minneapolis and downtown St. Paul, serving the University of Minnesota, Como Ave. and Rice St. There are two branches on the routeone via Maryland Ave. (3A) and one via Front St. (3B). Select trips also serve Elm St. and Kasota Ave. It remains a significant service for the University.

The downtown routing will be realigned to follow Cedar and Minnesota streets between Kellogg Blvd. and 12th St.

Route 3 will have a secondary function as a feeder route to the Green Line, connecting with trains at the West Bank Station and Capitol/Rice Street Station.

The frequency and span of service will not change significantly.

#### **Comparable Existing Routes:**

Route 3 Frequency:

Rush Hours: 5 to 15 minutes Midday: 10 to 15 minutes Evening: 15 minutes Owl: no service Saturday: 30 minutes Sunday: 30 minutes **Approximate First to Last D**eparture:

Weekday: 4:30 am to 1:00 am

Saturday: 5:00 am to 1:00 am Sunday: 6:00 am to 12:00 am

> Green Line LRT .5 1 Miles

#### Legend

- Hospital
   Green Line Station Connection
   Green Line Station
   Blue Line Station
   Proposed Route 3
   Current Route 3
   Blue Line LRT
- 0 0.5

#### **Route Information:**

The Route 6U branch serves 4th St. and University Ave. SE and remains a significant route serving the University of Minnesota. The 6U branch will be extended to serve the Stadium Village Station, creating a direct connection for the Marcy Holmes neighborhood with the Green Line. The terminal will move to 27th Ave. SE.

Route 6 will have a secondary function as a feeder route to the Green Line, connecting with trains at Warehouse District/Hennepin Ave and at Stadium Village Station.

The frequency and span of service will not change significantly.

#### **Comparable Existing Routes:**

Route 6U

#### Frequency:

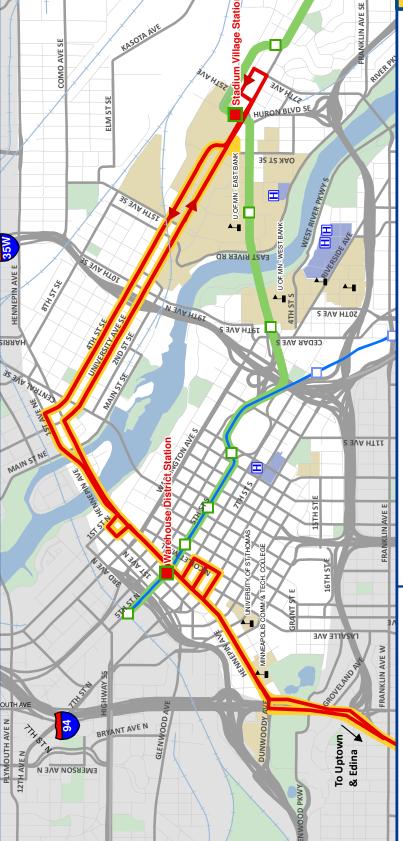
Rush Hours: 20 minutes Midday: 30 minutes Evening: 30 minutes Owl: no service Saturday: 30 minutes Sunday: 30 minutes

#### Approximate First to Last Departure:

Weekday: 4:30 am to 1:30 am Saturday: 4:30 am to 1:30 am Sunday: 5:30 am to 12:30 am

#### Legend

Proposed Route 6
Current Route 6
Green Line Station Connection
Green Line Station
Green Line LRT
Blue Line Station
Blue Line LRT
I Hospital
0
0.5
1 Miles



#### **Route Information:**

Route 8 is replaced by Route 67 between Franklin Ave. Station on the Blue Line LRT and University Ave./Emerald Ave. Service on Franklin Ave. between 29th and 26th avenues will be rerouted via Riverside and 25th/26th avenues to better serve Augsburg College and the Fairview University Medical Center.

The frequency of service on Route 67 on Franklin Ave. will be every 20 minutes on weekdays and Saturdays and every 60 minutes on Sundays.

#### **Comparable Existing Routes:**

Route 8

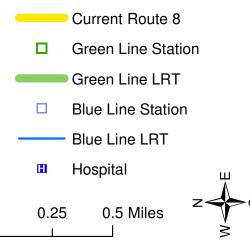
#### Frequency:

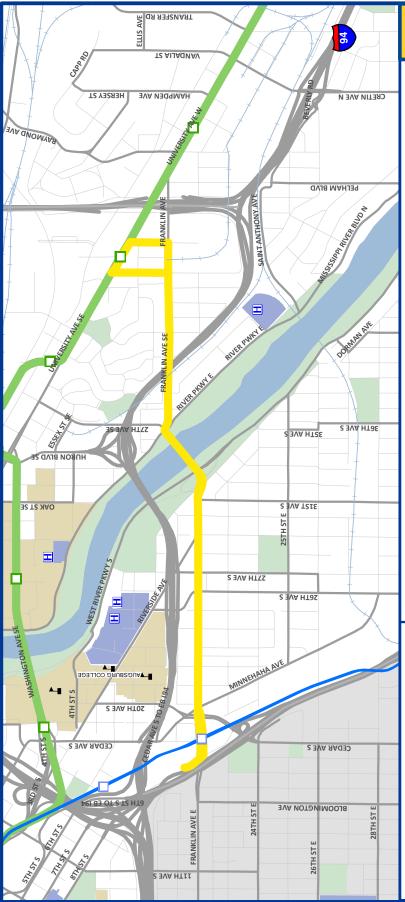
Rush Hours: 20 minutes Midday: 20 minutes Evening: 20 minutes Owl: no service Saturday: 20 minutes Sunday: 20 minutes Minnehaha, 60 min.

#### Approximate First to Last Departure:

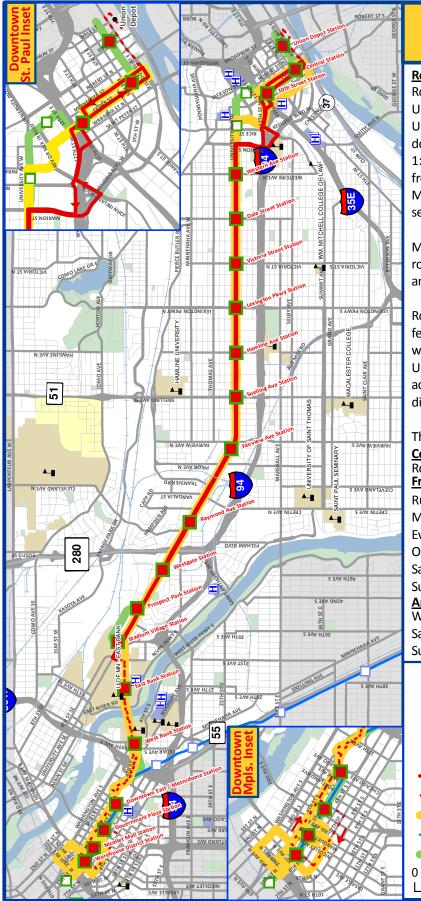
Weekday: 5:00 am to 1:00 am Saturday: 5:00 am to 1:00 am Sunday: 5:00 am to 1:00 am

### Legend





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### Route 16 REVISED August 2012

#### **Route Information:**

Route 16 will provide local service along University Ave. between Oak St. (near the University of Minnesota East Bank) and downtown St. Paul. During the Owl hours, 1:00 a.m. to 5:00 a.m., service will be extended from Oak St./Washington Ave. to downtown Minneapolis. Owl trips will also be extended to serve the Union Depot in downtown St Paul.

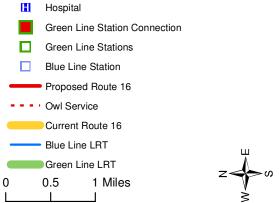
Marion St., John Ireland Blvd. and 12th St. route will serve Ravoux Hi-Rise, apartments and the St. Paul College.

Route 16 will have a primary function as a feeder route to the Green Line, connecting with trains at Stadium Village Station and along University Ave. in St. Paul. It provides local access to those unable to travel longer distances to rail stations.

The frequency of service will be reduced to <u>Comparable Existing Routes:</u> Route 16 <u>Frequency:</u> Rush Hours: 20 minutes Midday: 20 minutes Evening: 20 minutes Owl: once/hour Saturday: 20 minutes Sunday: 20 minutes <u>Approximate First to Last Departure:</u> Weekday: 24-hour continuous Saturday: 24-hour continuous

Sunday: 24-hour continuous

### Legend



#### **Route Information:**

Route 21 serves downtown St. Paul, Selby Ave., Midway area, and Marshall Ave. in St. Paul and Lake St. in Minneapolis. Select trips serve the University of St. Thomas (Summit Ave./Finn St.) The downtown terminal will be at the Union Depot.

Route 21 will have a key function as a feeder route to the Green Line, connecting with trains in downtown St. Paul and the Hamline Ave. and Snelling Ave. Stations on University Ave.

Weekday evening service will be improved to every 20 minutes. Otherwise, the route, frequency and span of service will not change significantly.

#### **Comparable Existing Routes:**

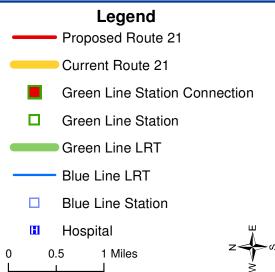
Route 21 - Selby Ave

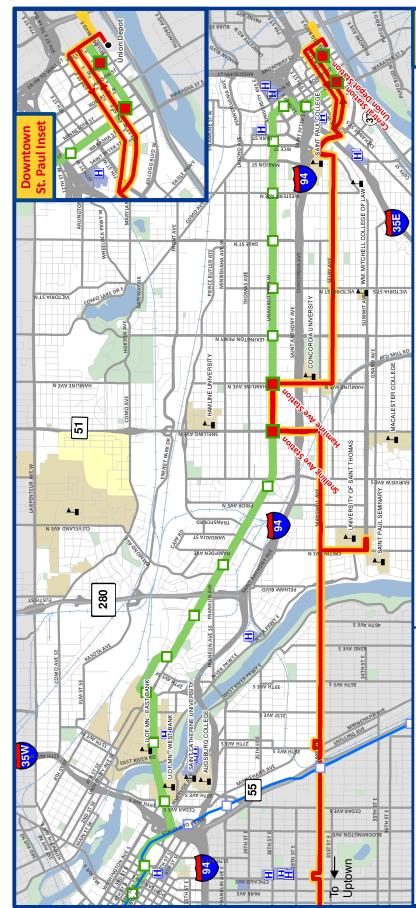
#### Frequency:

Rush Hours: 15 to 20 minutes Midday: 20 minutes Evening: 10-15 minutes Owl: no service Saturday: 20 minutes Sunday: 20 minutes

#### Approximate First to Last Departure:

Weekday: 4:00 am to 1:00 am Saturday: 4:00 am to 1:00 am Sunday: 4:00 am to 12:00 am





#### **Route Information:**

3

MITCHELL COLLEGE OF

WM.

CONCORDIA UNIVERSITY

94

PIERCE BU'

IVERSITY

HAMLINE (

A.

NERGY PARK DR

COMO LAKE DR

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SEMINARY

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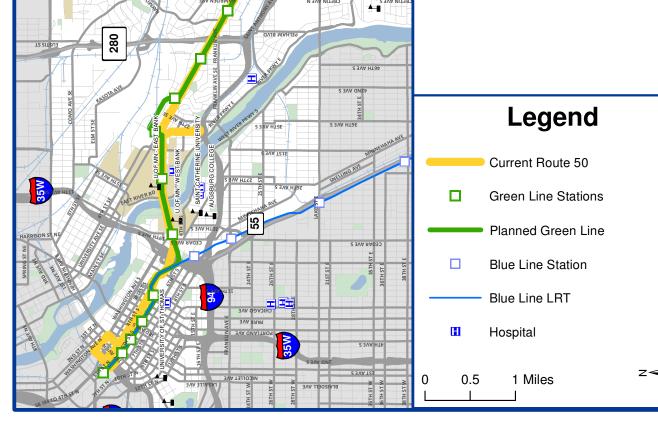
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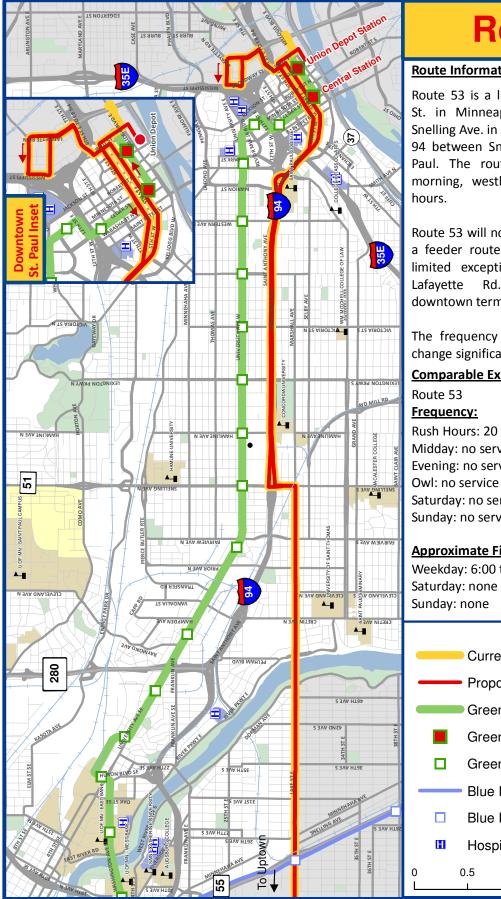
INT CLAIR AVE

Route 50 is replaced by the Green Line LRT. The Green Line will be the primary east-west service in the University Avenue corridor, running every 10 minutes most of the day, seven days a week.

Route 16 will continue to operate local service in the corridor, between downtown St. Paul and University Ave./Oak St. every 20 minutes most of the day.

Route 50 will no longer provide a connection between Huron Station and the U of M campus. A new local bus connection between Huron Station and the U of M will be provided.





#### **Route Information:**

Route 53 is a limited-stop route serving Lake St. in Minneapolis and Marshall Ave. and Snelling Ave. in St Paul, traveling non-stop via I-94 between Snelling Ave. and downtown St. Paul. The route travels eastbound in the morning, westbound in the afternoon rush

Route 53 will not have a significant function as a feeder route to the Green Line, with the limited exception of connections with the Rd. employment area. The downtown terminal will be at the Union Depot.

The frequency and span of service will not change significantly.

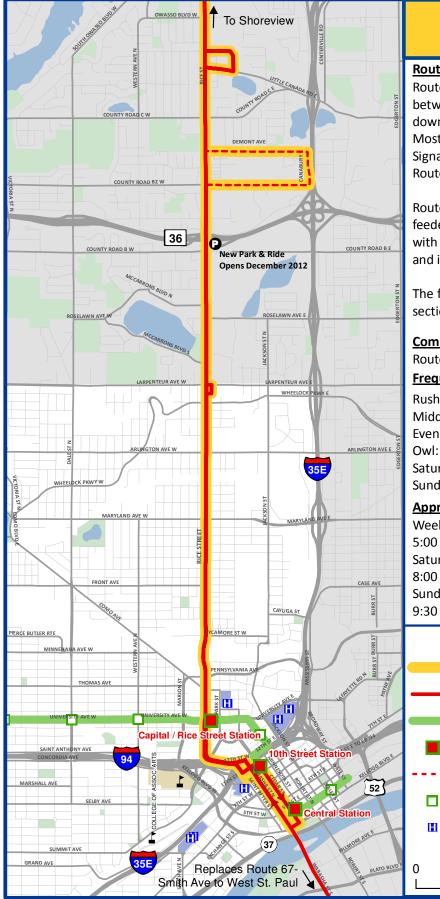
#### **Comparable Existing Routes:**

Rush Hours: 20 to 30 minutes Midday: no service Evening: no service Saturday: no service Sunday: no service

#### **Approximate First to Last Departure:**

Weekday: 6:00 to 8:30 am, 3:00 to 6:00 pm Saturday: none

### Legend Current Route 53 Proposed Route 53 Green Line LRT Green Line Station Connection Green Line Station Blue Line LRT **Blue Line Station** Hospital 1 Miles



#### **Route Information:**

Route 62 will continue to operate on Rice St. between Shoreview, Little Canada and downtown St. Paul on Cedar/Wabasha streets. Most trips will be extended via Smith Ave. to Signal Hills shopping center in West St. Paul. Route 62 will replace Route 67 in West St. Paul.

Route 62 will have a secondary function as a feeder route to the Green Line, connecting with trains at the Capitol/Rice Street Station and in downtown St. Paul.

The frequency will be improved on the Rice St. section of the route on Sundays.

#### **Comparable Existing Routes:**

Route 62, 67, 262 Frequency: Rush Hours: 30 minutes Midday: 30 minutes Evening: 30 minutes Owl: no service Saturday: 30 minutes Sunday: 30 minutes Rice St., 60 minutes Smith

#### Approximate First to Last Departure:

Weekday: 4:30 am to 1:00 am on Rice St., 5:00 am to 11:00pm on Smith Ave. Saturday: 5:30 am to 1:00 am on Rice St., 8:00 am to 8:00pm on Smith Ave. Sunday: 6:30 am to 1:00 am on Rice St., 9:30 am to 6:00pm on Smith Ave.

#### Legend

- Current Route 62
- Proposed Route 62
  - Green Line LRT
- Green Line Station Connection

1 Miles

- --- Limited Service
- Green Line Stations
- Hospital

0.5



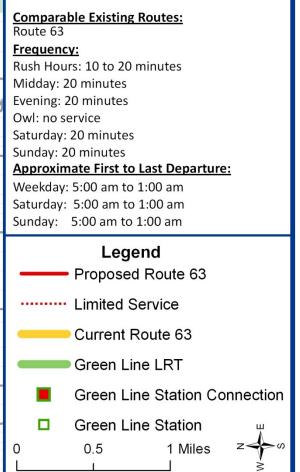
### Route 63 REVISED February 2014

#### **Route Information:**

Route 63 will be extended from Grand Ave. and the University of St. Thomas to the Raymond Ave. Station via Cretin/Vandalia Ave. and University Ave. The route will continue to serve Maplewood, Sun Ray, and the east side of St. Paul via E. 3rd St. The routing in downtown St. Paul remains unchanged. Buses will operate on Grand and Cretin Ave, not Summit or Cleveland Ave.

Route 63 will have a key function as a parallel feeder route to the Green Line, connecting with trains at the Raymond Ave. Station and in downtown St. Paul. Timed connections will also be planned with routes 16, 67 and 87 at the Raymond Ave. Station for local travel needs, such as between college campuses.

The frequency and span of service will be improved, especially Grand Ave. Sunday service.



#### **Route Information:**

694

ECANADA RD W LITTLE CAN,

ROSELAWN AVE V

ACKSO N ST N LARPENTE WHEEL

WASSO BLVD V

COUNTY ROAD D W

COUNTY ROAD B2 W

THOMAS AVE

NIVERSITY AVE V

36

AVE W

DUNTY ROAD

Rosedale Transit Center

Har Mar Mall

MOAVE

HAMLINE UNIVERSITY

GRAND AVE

INT CLAIR AV

MARS

**KWY** ¢WΥ NERGY PARK DE

Midway Marketplace

CONCORDIA UNIVERSITY

Rosedale

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Route 65 will provide cross-town service via Dale St. and County Road B between Rosedale Transit Center and Grand Ave. The route will no longer serve downtown St. Paul. Route 21 will continue to serve Selby Ave., and the Green Line will connect Dale St. and downtown St. Paul.

Route 65 will have a primary function as a feeder route to the Green Line, connecting with trains at the Dale St. Station.

The frequency and span of service will be improved significantly.

#### **Comparable Existing Routes:**

Route 21, 65

Frequency: WHEE K PKWY Rush Hours: 20 minutes Midday: 20 minutes Evening: 20 minutes Owl: no service FRONT AVE Saturday: 20 minutes AYUGA ST Sunday: 20 minutes PIERCE BUTLER RTE MINNEHAHA AVE **Approximate First to Last Departure:** Weekday: 5:00 am to 12:00 am Saturday: 5:00 am to 12:00 am Dale Street Station RK S Sunday: 6:00 am to 12:00 am Legend 94 SELBY AVE **Proposed Route 65** Current Route 65 SUMMIT AVE (37 Green Line Station Connection 35E Green Line Station Green Line LRT Hospital 0 0.5 1 Miles



#### **Route Information:**

2

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Route 67 will operate between downtown St. Paul and the Franklin Ave. Station on the Blue Line. The route will continue serving Rice St., Thomas Ave., and Minnehaha Ave. and will be extended from Fairview Ave. to the Raymond Ave. Station. Route 67 will replace Route 8 on Franklin Ave. between University Ave. and Hiawatha Ave. Early morning and late hour service from downtown St. Paul will terminate at Fairview and University Ave.

Route 67 will no longer operate south of downtown St. Paul. Route 62 will replace Route 67 on Smith Ave. and to Signal Hills in West St. Paul.

Route 67 is a key parallel feeder route to the Green Line, connecting with trains in downtown St. Paul and at Capitol/Rice St. Station, Fairview Ave. Station and Raymond Ave. Station. Timed connections will also be planned with routes 16, 63 and 87 at Raymond Ave. Station for local travel needs, such as between college campuses. Route 67 will deviate from Franklin Ave to Riverside and 25th avenues to better serve the hospital and colleges.

#### **Comparable Existing Routes:**

Route 8 and 67 Frequency: Rush Hours: 20 minutes Midday: 20 minutes **Evening: 20 minutes** Owl: no service Saturday: 20 minutes Sunday: 20 minutes Minnehaha, 60 min. Franklin

#### **Approximate First to Last Departure:**

Weekday: 5:00 am to 1:00 am Saturday: 5:00 am to 1:00 am Sunday: 5:00 am to 1:00 am

#### Legend

Hospital Blue Line Station

Green Line Station Connection

1 Miles

- Green Line Station
  - Proposed Route 67
- Current Route 67
- Green Line LRT
- Blue Line LRT

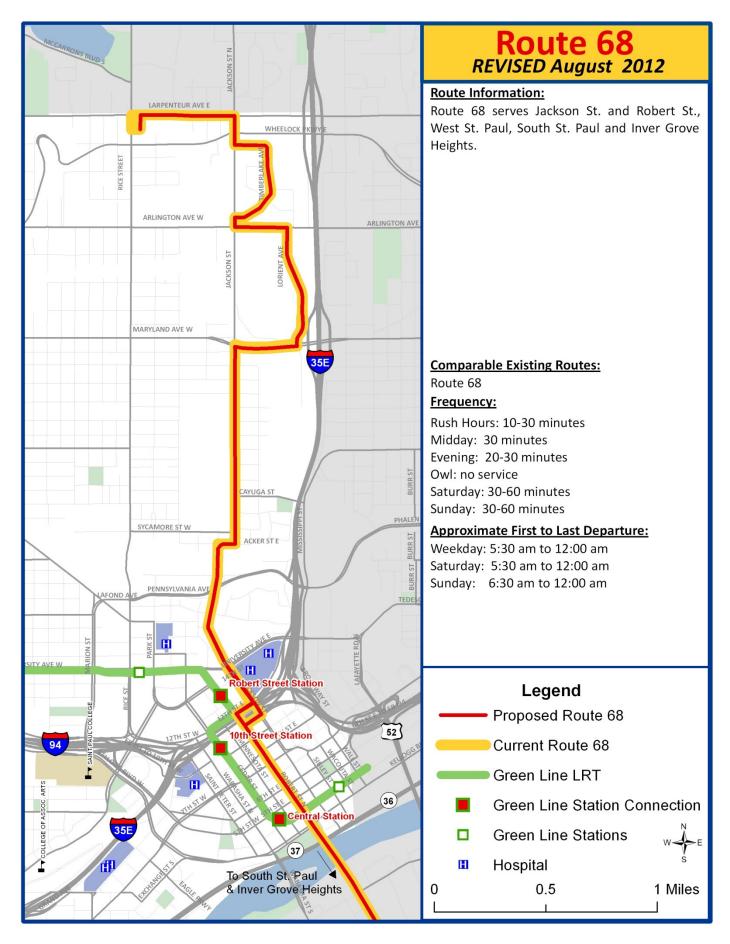
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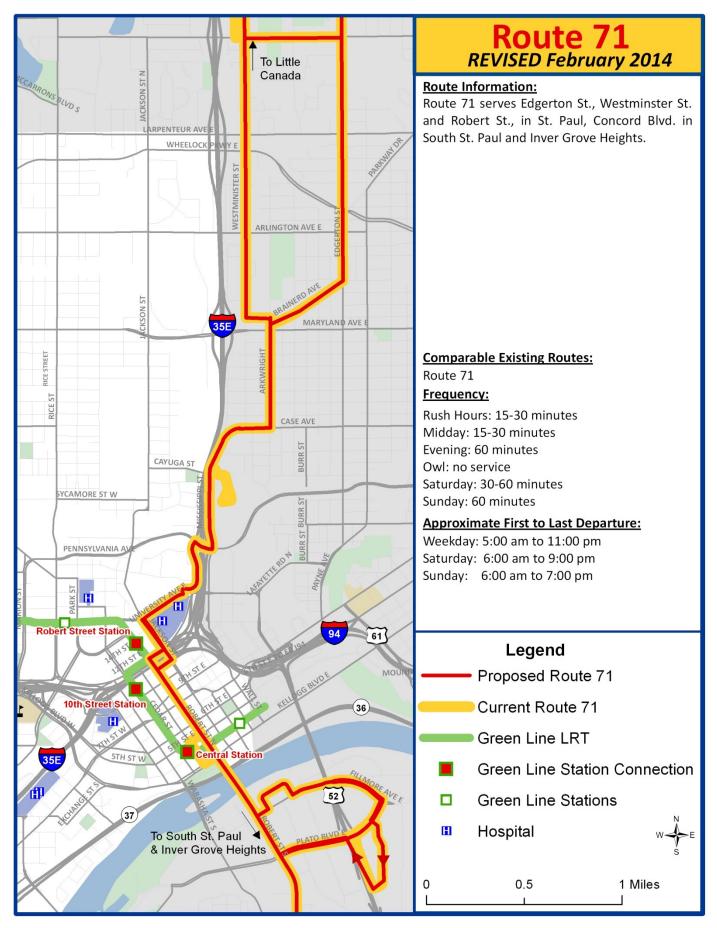


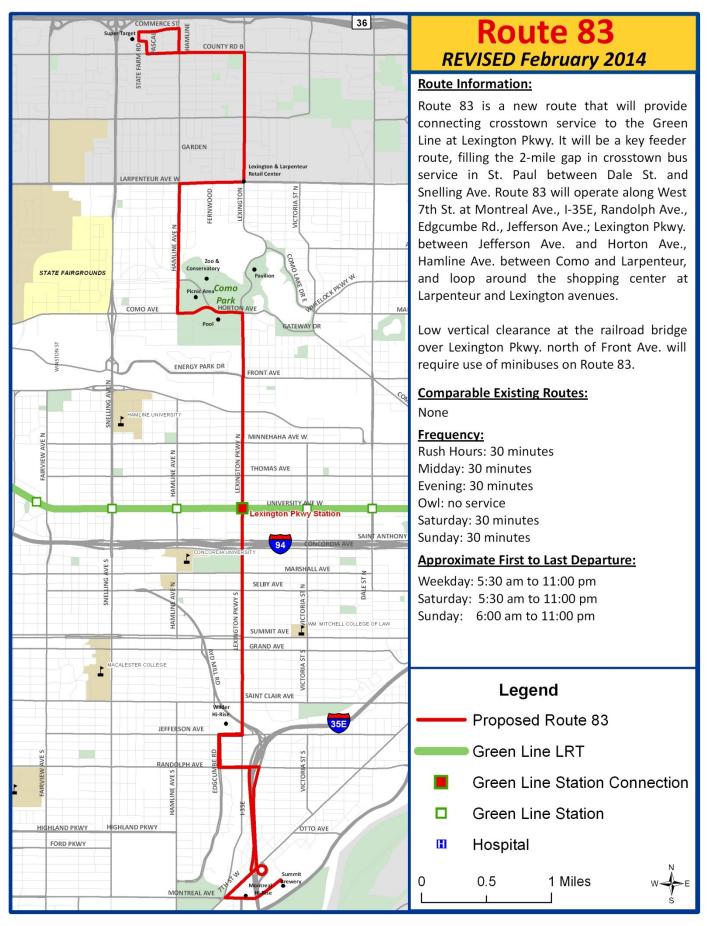
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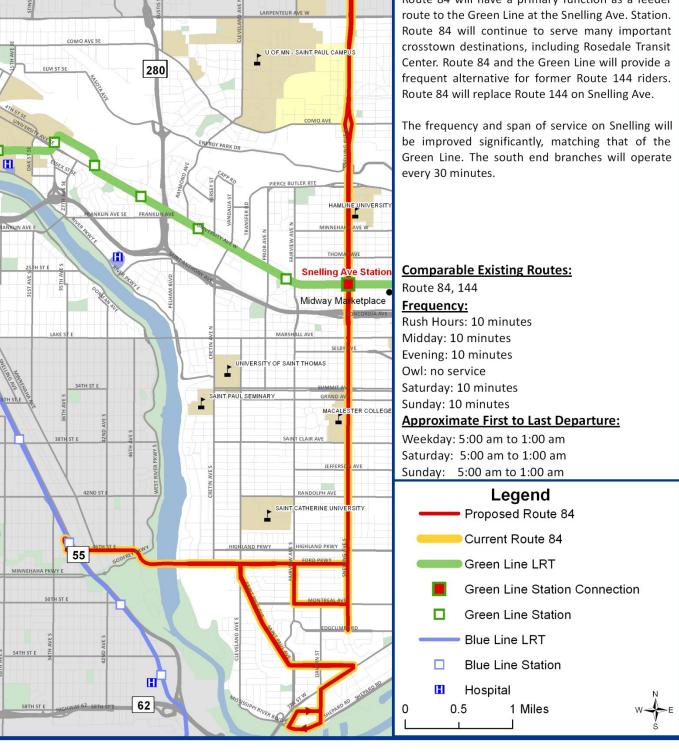






Route 84 Snelling Ave. will provide connecting crosstown service to the Green Line. The improved service will be compatible with the planned Snelling Ave. Rapid Bus.

Route 84 will have a primary function as a feeder



TERMINAL RE

8TH AVE N

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COUNTY ROAD B W

ROSELAW AVE Rosedale

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Har Mar Mall



#### **Route Information:**

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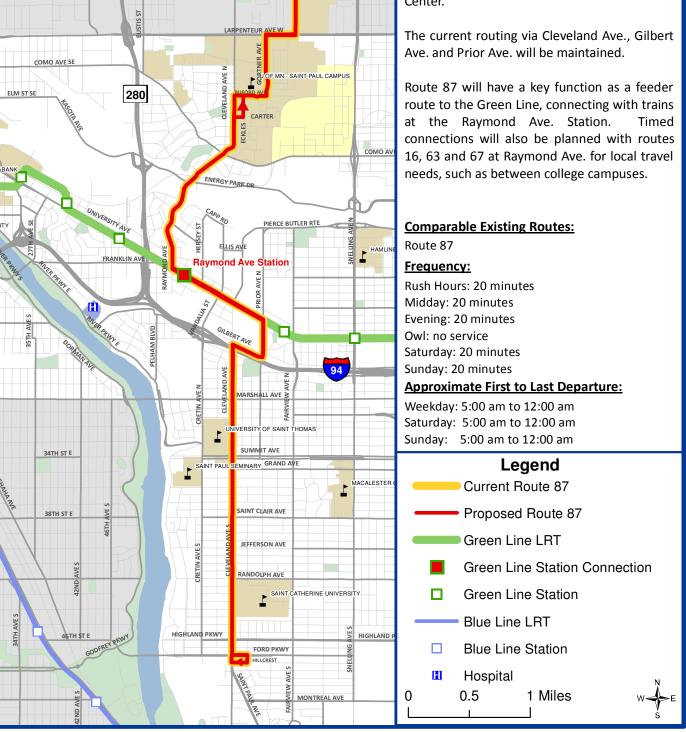
MINAL RD

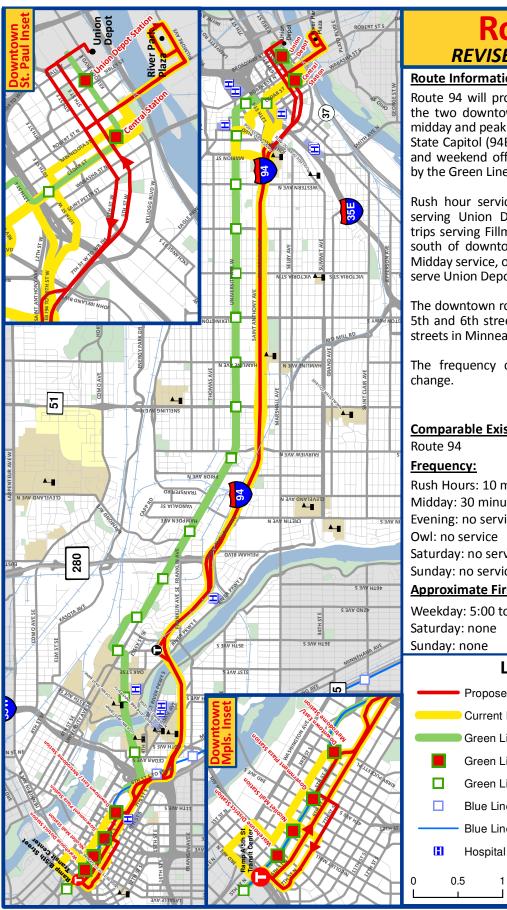
OUNTY ROAD B W

OSELAWN AVE W

ANTHONY

Route 87 will provide crosstown feeder service to the Green Line via Cleveland Ave. and Raymond Ave. The route serves the U of M St. Paul Campus, Fairview Ave. and operates between Highland Park and Rosedale Transit Center.





### Route 94 **REVISED August 2012**

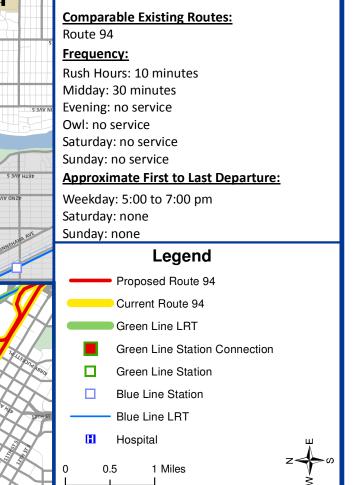
#### **Route Information:**

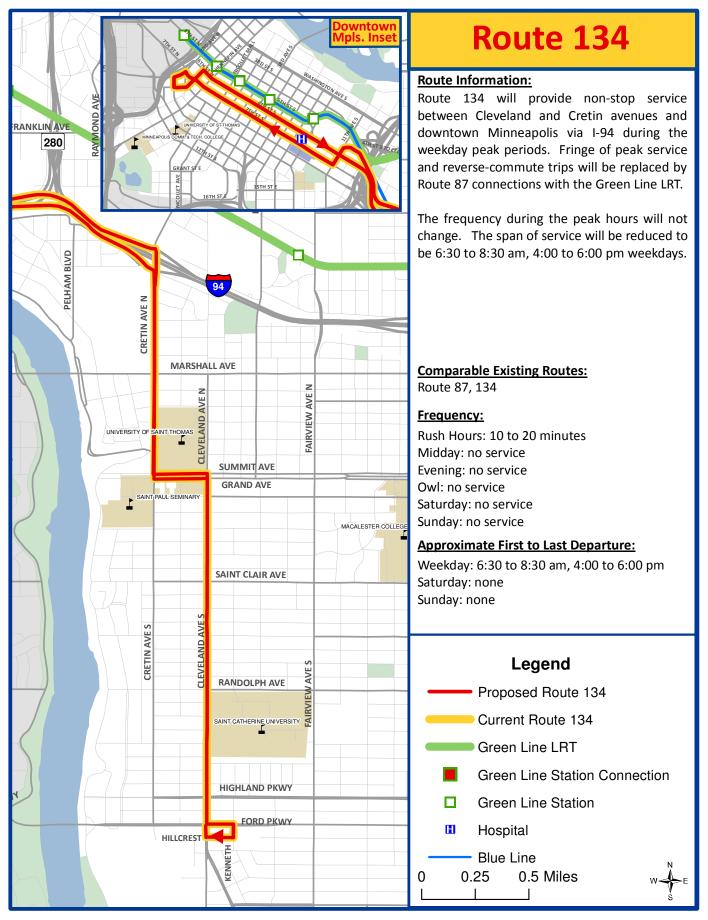
Route 94 will provide express service between the two downtowns via I-94 weekdays during midday and peak hours only. The routing via the State Capitol (94B). will be eliminated. All night and weekend off-peak service will be replaced by the Green Line.

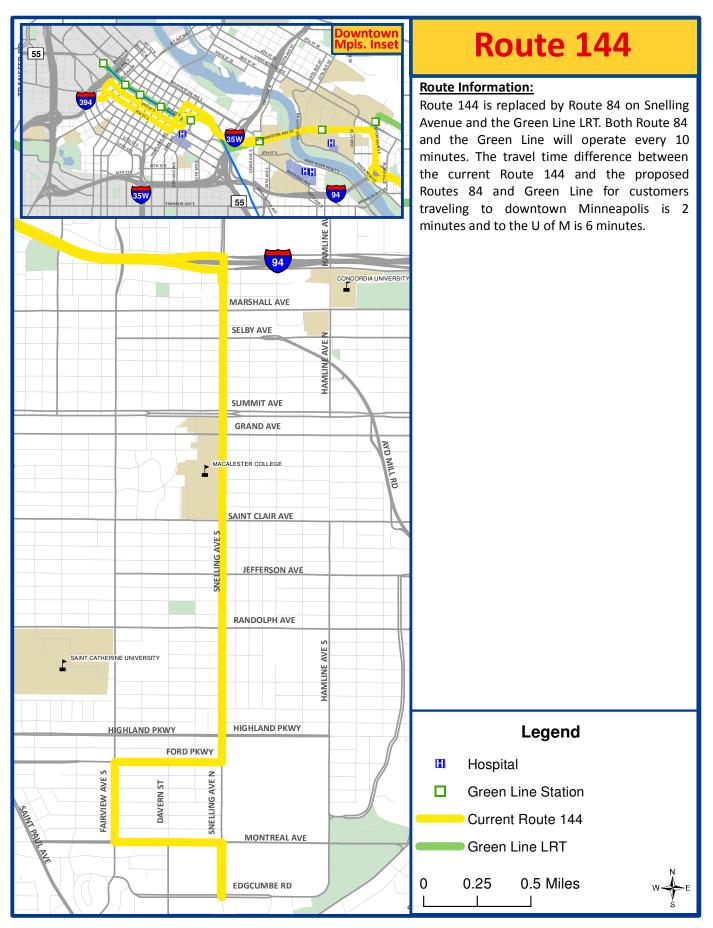
Rush hour service will be split between trips serving Union Depot, non-stop via I-94; and trips serving Fillmore Ave. and River Park Plaza south of downtown St Paul non-stop via I-94. Midday service, operating every 30 minutes, will serve Union Depot.

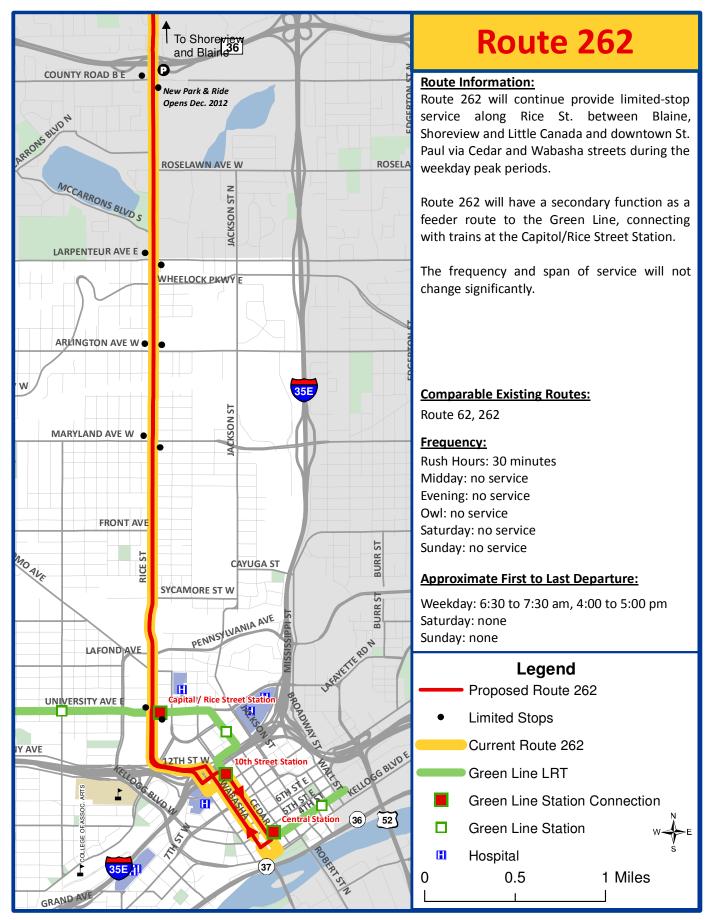
The downtown routes will be changed to follow 5th and 6th streets in St Paul and 6th and 7th streets in Minneapolis.

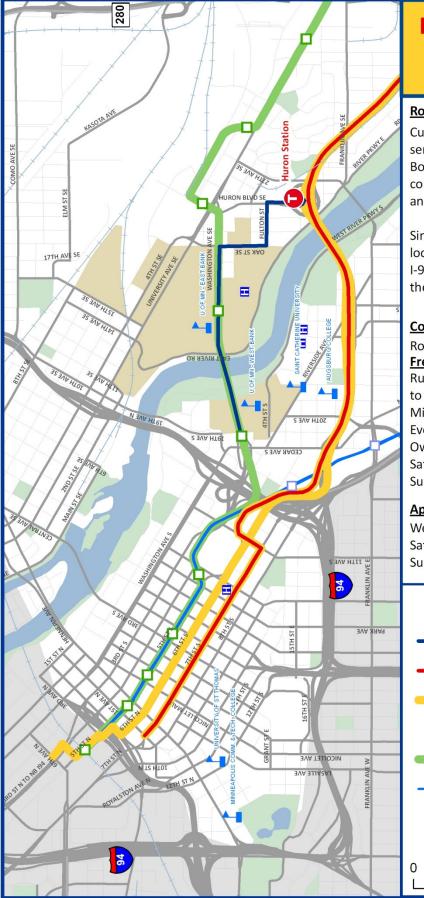
The frequency during peak periods will not











# Routes 94, 129 134, 353, 355, 365, 375, and 452

#### **REVISED February 2014**

#### **Route Information:**

Currently, select westbound express routes serve Huron Station at I-94 and Huron Boulevard between 7:30 and 9:20 a.m., for a connection with Route 50 to the U of M east and west bank campus.

Since the Green Line will replace Route 50, the local bus connection between Huron Station at I-94 and the campus will be replaced during the hours of peak use with a new Route 129.

#### **Comparable Existing Routes:**

Route 50U, 94, 134, 353, 355, 365, 375, 452 Frequency: Rush Hours: 12-30 minutes 6:30 to 8:40 AM to the U of M only. Midday: no service Evening: no service Owl: no service Saturday: no service Sunday: no service

#### Approximate First to Last Departure:

Weekday: 7:30 to 8:40 AM Saturday: none Sunday: none

#### Legend

