

COMPLETE STREETS REPORT

1360-12-00/70

WIS 145 (Stadium Freeway) Bridge Replacement Project
Limits: Structure B-40-0252 (107th St. Bridge)
Milwaukee County

April 27th, 2019

Project Status/History

This bridge replacement project is located in Milwaukee County. The structure that resides over STH 145 is structure (B-40-0252; 107th St.) This structure was originally constructed in 1964 and have had 1 concrete overlay done in 1999.

Purpose and Need

Project Purpose:

The purpose of this project is address the deteriorating bridge.

Project Need:

The original structure was built in 1964. Since then the bridge has been painted in 1988 and has had 1 deck overlay in 1999. existing bridge deck is experiencing cracking, heavy efflorescence at underside of the deck cracks, delamination and spalling. Heavy rust resides on the bottom flanges of girders over the piers, typically at piers 1 & 2 and paint is and has been largely ineffective at these locations (painted in 1988). Finally, there is a misaligned girder on a bearing seat and medium horizontal cracks at the S. abutment sill with heavy rust at the S. Abutment bearing and missing keeper bar.

The need of the project is to reconstruct the bridge now. The structure is at a “fail” condition and needs to be replaced.

Project Scope

The proposed work is to complete reconstruction of the 107 St. bridge.

WisDOT will also be doing approximately 520-feet of roadway work, constructing sidewalks and curb ramps to accommodate this bridge project.

Existing Bicycle, Pedestrian, and transit facilities

Currently, there is existing sidewalk on both sides of the 107th street bridge. There are currently no bike lanes or wide shoulders on the 107th St. structure. The Southeastern Wisconsin Regional Planning Commission (SEWRPC) developed a pedestrian facilities policy, which applies to Milwaukee County, as documented in the bicycle and pedestrian systems element of the Vision 2050 Regional Transportation System Plan. It states that “Bicycle recommendations for VISION 2050 include providing on-street bicycle accommodations on the arterial street and highway

system (non-freeways), expanding the off-street bicycle path system, implementing enhanced bicycle facilities in key regional corridors, and expanding bike share program implementation. As shown in Table 1.10, VISION 2050 recommends approximately 3,027 miles of standard on-street bicycle accommodations, 363 miles of enhanced bicycle facilities, and 709 miles of off-street bicycle paths. Maps 1.11 and 1.12 show the recommended bicycle network, which identifies on-street bicycle facilities, potential corridors for enhanced bicycle facilities, off-street bicycle paths, and nonarterial street connections to the off-street bicycle network.”

(<http://www.sewrpc.org/SEWRPCFiles/Publications/pr/pr-055-vol-3-complete-final.pdf>)

The 107th Street structure is marked to have “on-Road” bike accommodations if it is feasible. The 107th street structure currently does not have any marked or designated on road bike accommodations, but the scope of the project will allow a 6-foot shoulder on both sides of the bridge to accommodate for bicycles. The current 6-foot sidewalks will be reconstructed/remain the same width on the new structure.

Transit/Commuter Rail Service

Currently there is Blue Line transit (MCTS) along 107th St. WisDOT will correspond with Milwaukee County Transit Systems and work with them to help keep available routes open during construction. WisDOT currently has no future recommendations to apply any further transit under this project. (MCTS Map, map 1.8 and 1.9 attached).

Public Involvement/Local officials meeting

PDS and Planning held a Local Official Meeting (LOM) on September 19, 2020 to get input from local municipalities about the bridge reconstruction project. There will be no Public Involvement Meeting (PIM) being held at the Final Scoping stage, so there is no public input for this project at this time. A PIM will be held during the 60% design phase.

Conclusion:

WisDOT will include On-street Bike accommodations (widened shoulders) as well as sidewalks and curb ramps to accommodate both pedestrians and bicyclists.

Attachments include:


- A. Project Location
- B. Plan Sheets
- C. SEWRPC Vision 2050 Table 1.10 Miles of Bicycle facilities
- D. MCTS Route Map
- E. SEWRPC Vision 2050 Map 1.8 Transit Services
- F. SEWRPC Vision 2050 Map 1.9 Commuter Rail Network
- G. SEWRPC Vision 2050 Map 1.11 Bicycle Network
- H. SEWRPC Vision 2050 Map 1.12 Off-Street Bicycle Path System

Attachment A: Project Location

1360-12-00

STH 145/Good Hope and 107th St

Legend

 Deck Replacement-OP

B-40-251- Deck Replacement-OP

B-40-250 - Deck Replacement-OP

145

B-40-252 - Deck Replacement-OP

Fond Du Lac Fwy
W Leon Terrace

Google earth

© 2016 Google

1000 ft



Attachment B: Plan Sheets

PROJECT ID: 1360-12-70

COUNTY: MILWAUKEE

ORDER OF SHEETS		
Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



DESIGN DESIGNATION

A.A.D.T.	2022	=	20,800
A.A.D.T.	2042	=	23,600
D.H.V.		=	6.3
D.D.		=	59/41
T.		=	
DESIGN SPEED		=	60 m.p.h
ESALS		=	

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 145

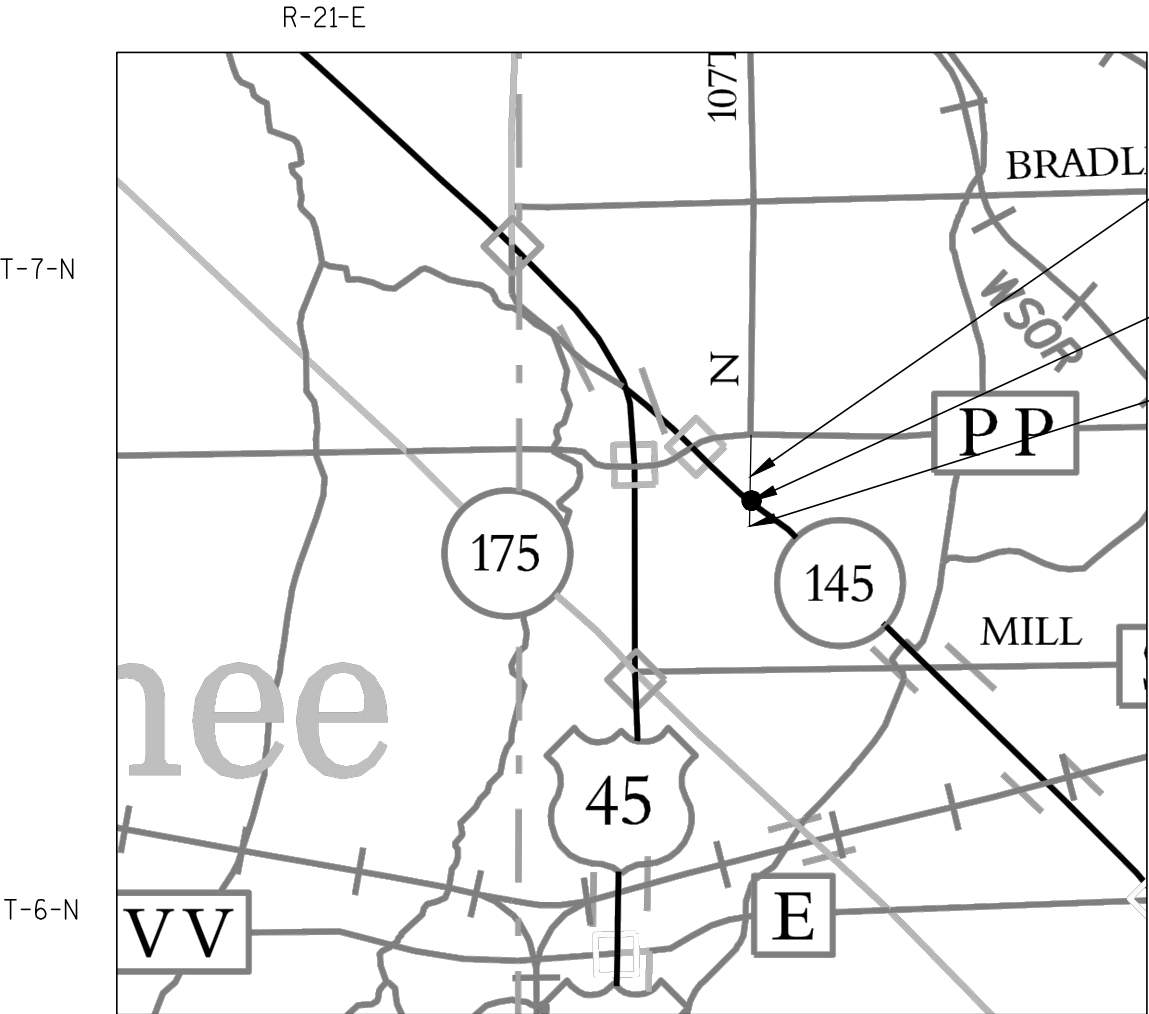
FOND DU LAC, CITY OF MILWAUKEE 107TH ST BRIDGE

Fond Du Lac Freeway
MILWAUKEE COUNTY

FINAL SCOPING PLAN
04/20/2020

STATE PROJECT NUMBER
1360-12-70

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1360-12-70		



END PROJECT
STA 115+78
X:569782.82
Y:338475.97

STRUCTURE B-40-252
STA 111+96 - STA 113+75

BEGIN PROJECT
STA 110+58
X:569777.79
Y:337955.42

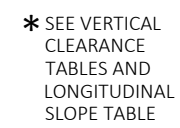
LAYOUT
SCALE 0 2 MILES
TOTAL NET LENGTH OF CENTERLINE = 0.110 MILES

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

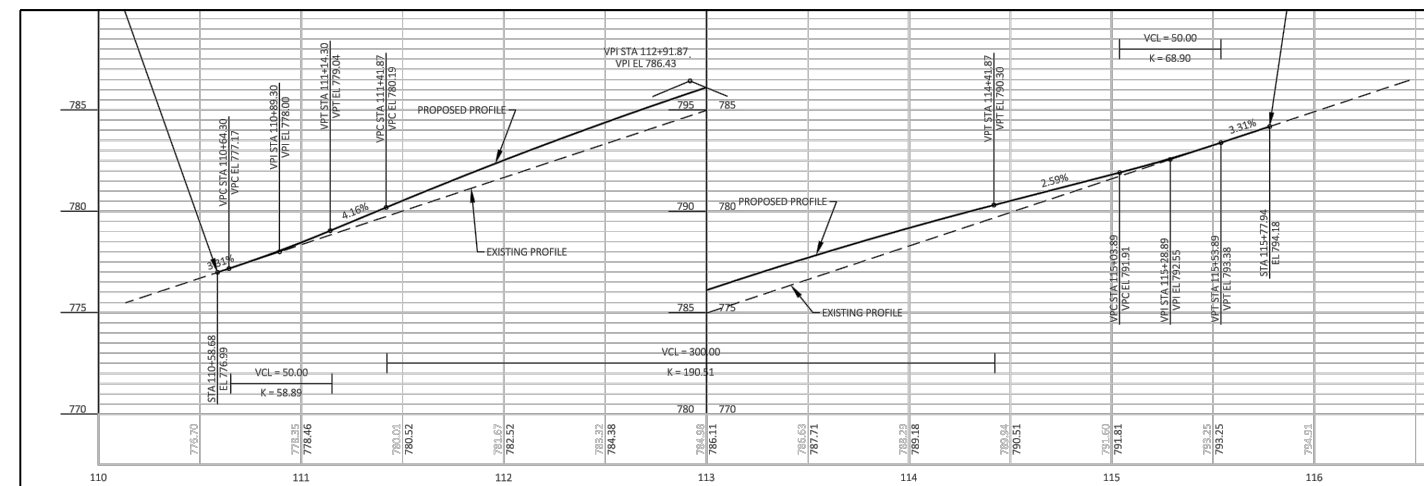
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	N/A
Designer	GREG GARD, JR.
Project Manager	VIDA SHAFFER
Regional Examiner	
Regional Supervisor	REEM SHAHIN
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

E

VERTICAL CLEARANCE (SB) STH 145 (FT)				
	① LT ETW	② LANE 1/2	③ LANE 2/3	④ RT ETW
EXISTING	15.24	14.78	14.70	14.64
PROPOSED	15.61	15.11	14.90	14.74
				PT. EX. MIN. VC



LONGITUDINAL SLOPE	
SB 145	-2.34%
NB145	-2.50%



PROFILE VIEW 107TH ST

NOTES:
SEE PLAN DETAIL SHEET FOR PLANVIEW OF NEW BRIDGE OVERLAID ON EXISTING BRIDGE

** GIRDER FREQUENCY IS A VISUAL ONLY, NOT DESIGNED

*** ASBUILT F027-1(21) SHOWS G7 (GIRDER) ON RIGHT SIDE OF DECK. MIRROR IMAGE SHOWN ON THIS DETAIL TO CORRELATE WITH WITH STATIONING OF 107TH ST.

Attachment C-H: SEWRPC Vision 2050 and MCTS Maps

Map 1.8 Transit Services: VISION 2050

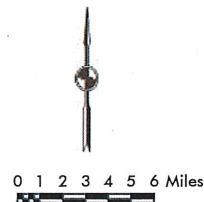
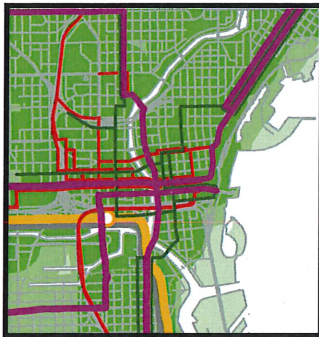
TRANSIT SERVICES

- RAPID TRANSIT LINE
- EXPRESS BUS ROUTE
- COMMUTER RAIL LINE & STATION
- COMMUTER BUS ROUTE & PARK-RIDE
- INTERCITY RAIL
- STREETCAR LINE

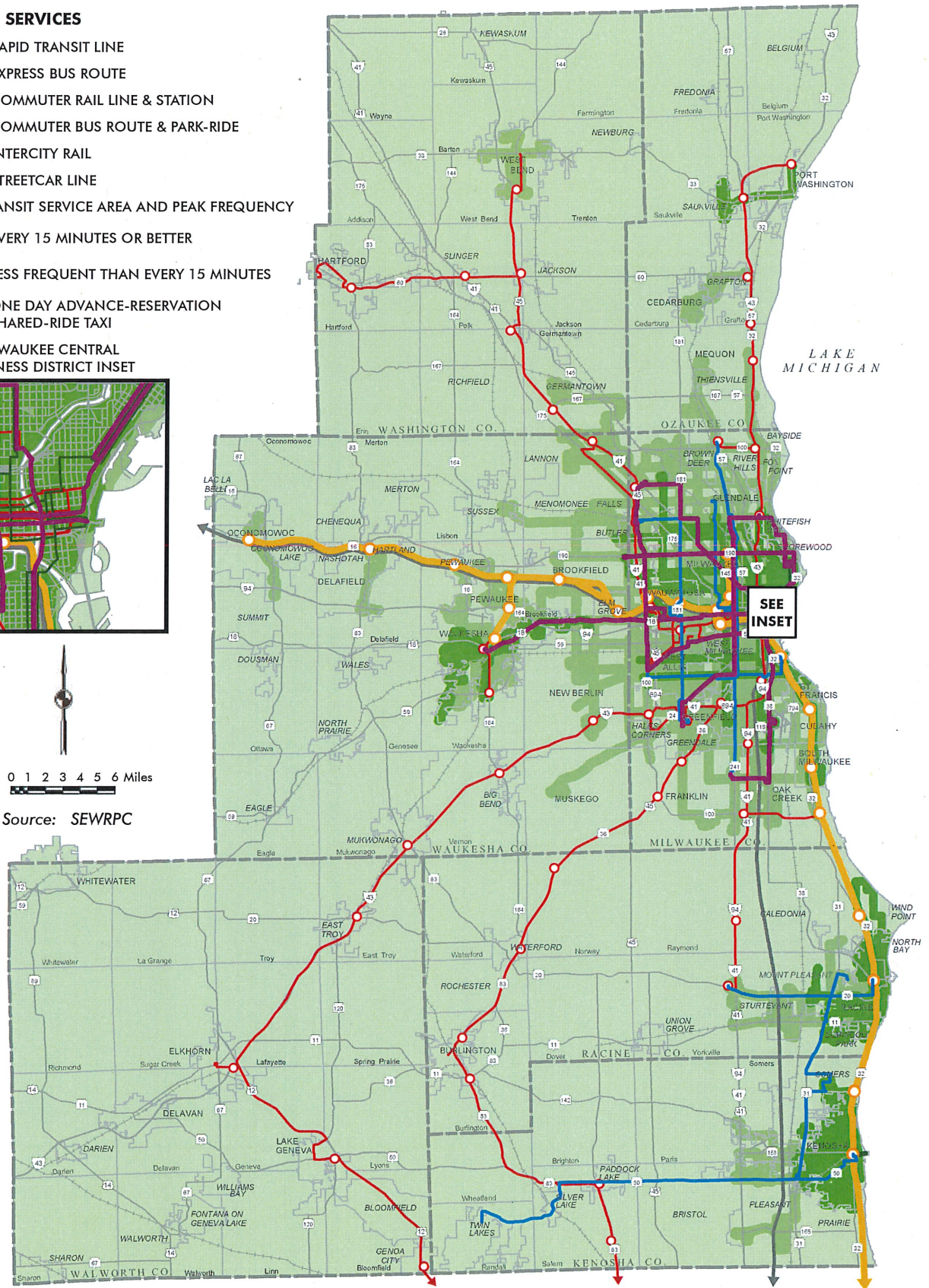
LOCAL TRANSIT SERVICE AREA AND PEAK FREQUENCY

- EVERY 15 MINUTES OR BETTER
- LESS FREQUENT THAN EVERY 15 MINUTES
- ONE DAY ADVANCE-RESERVATION
SHARED-RIDE TAXI

MILWAUKEE CENTRAL BUSINESS DISTRICT INSET





Source: SEWRPC

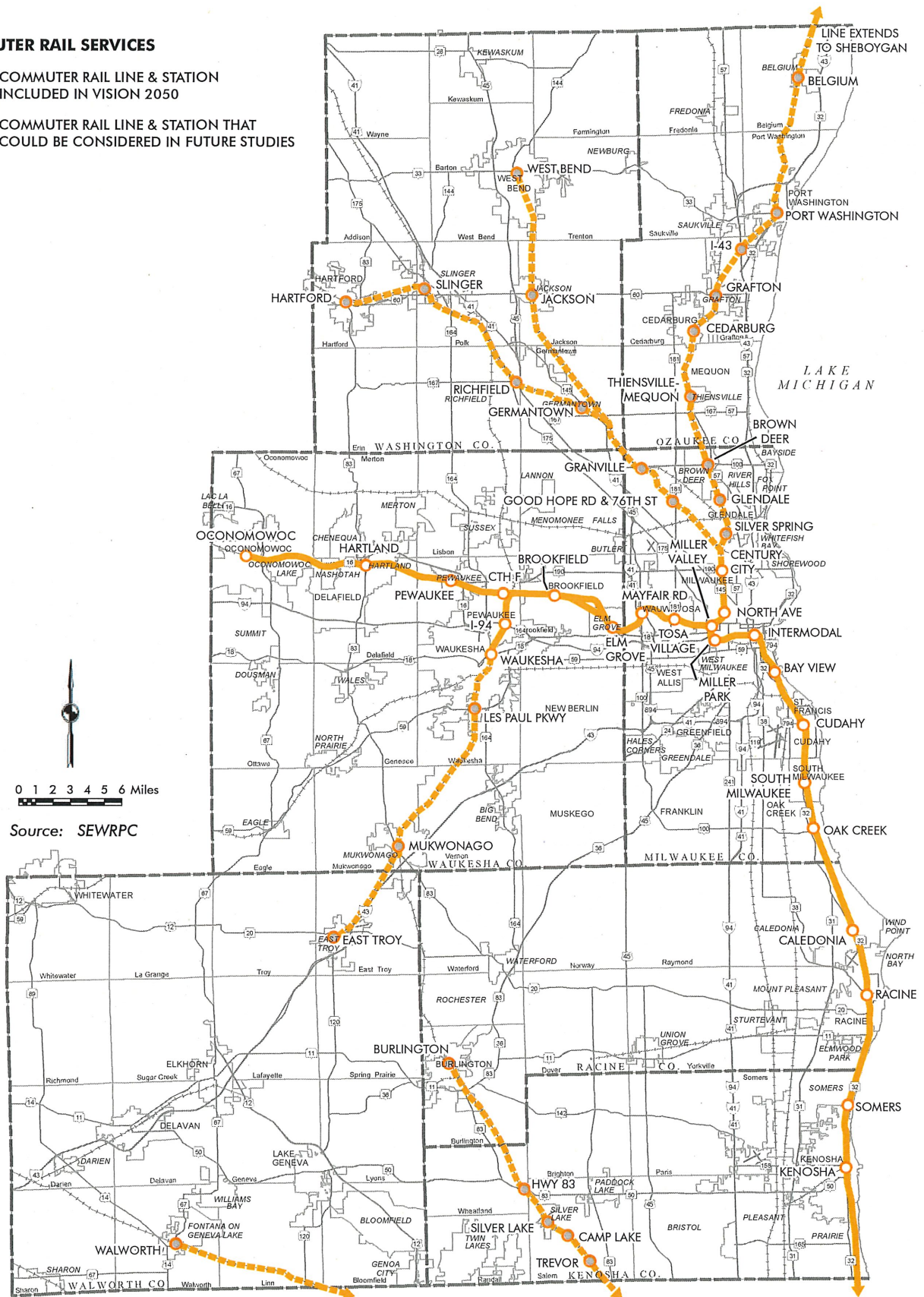


Map 1.9

Potential Extensions of the Commuter Rail Network: VISION 2050




COMMUTER RAIL SERVICES

-  COMMUTER RAIL LINE & STATION INCLUDED IN VISION 2050
-  COMMUTER RAIL LINE & STATION THAT COULD BE CONSIDERED IN FUTURE STUDIES



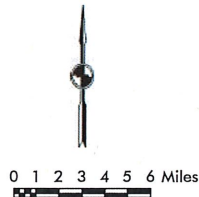
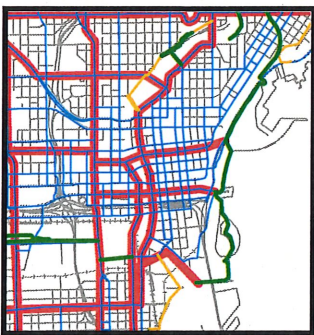
Bicycle Network: VISION 2050

BICYCLE FACILITIES

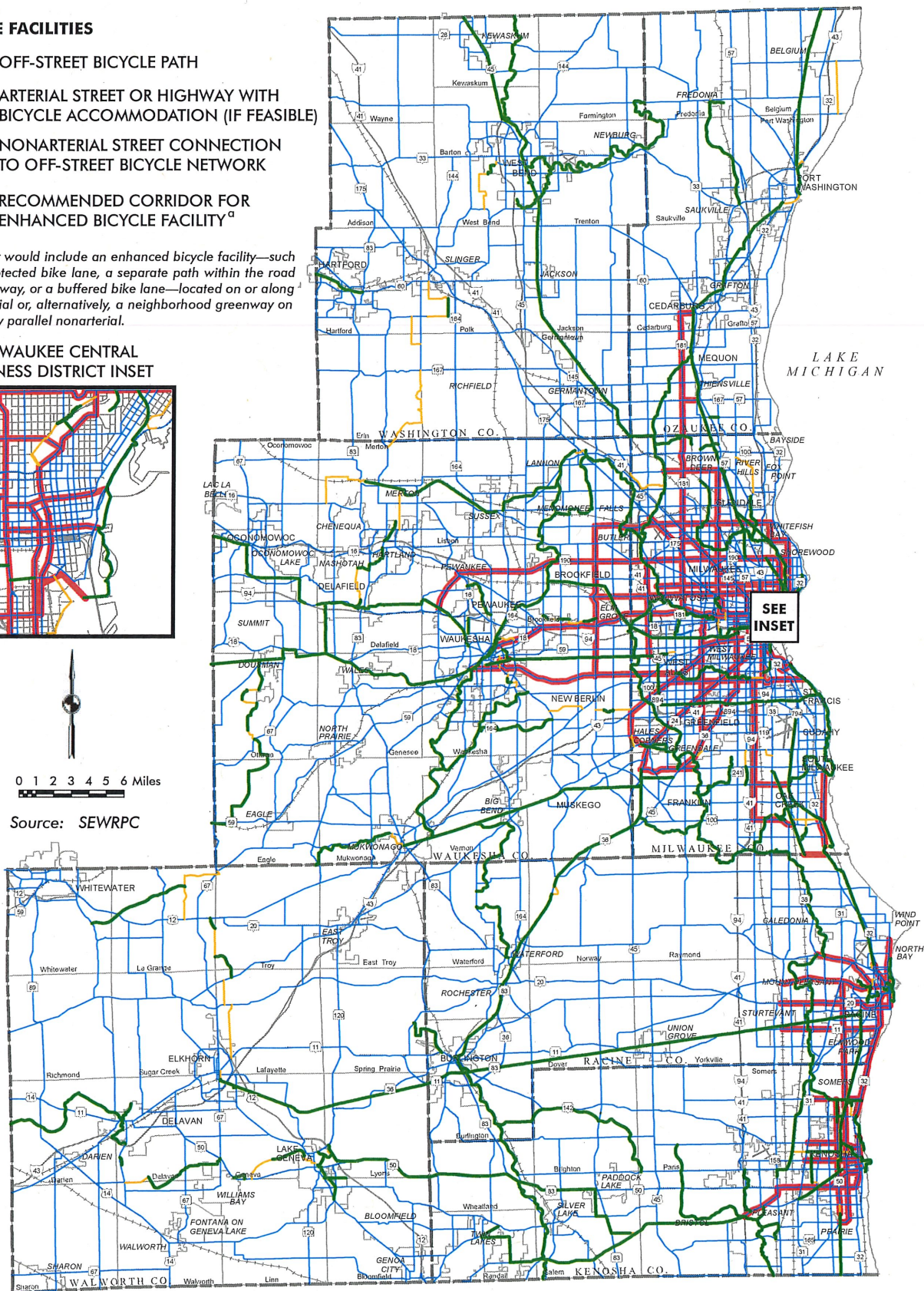
-  OFF-STREET BICYCLE PATH
-  ARTERIAL STREET OR HIGHWAY WITH BICYCLE ACCOMMODATION (IF FEASIBLE)
-  NONARTERIAL STREET CONNECTION TO OFF-STREET BICYCLE NETWORK
-  RECOMMENDED CORRIDOR FOR ENHANCED BICYCLE FACILITY^a

^a Corridor would include an enhanced bicycle facility—such as a protected bike lane, a separate path within the road right-of-way, or a buffered bike lane—located on or along an arterial or, alternatively, a neighborhood greenway on a nearby parallel nonarterial.

MILWAUKEE CENTRAL
BUSINESS DISTRICT INSET







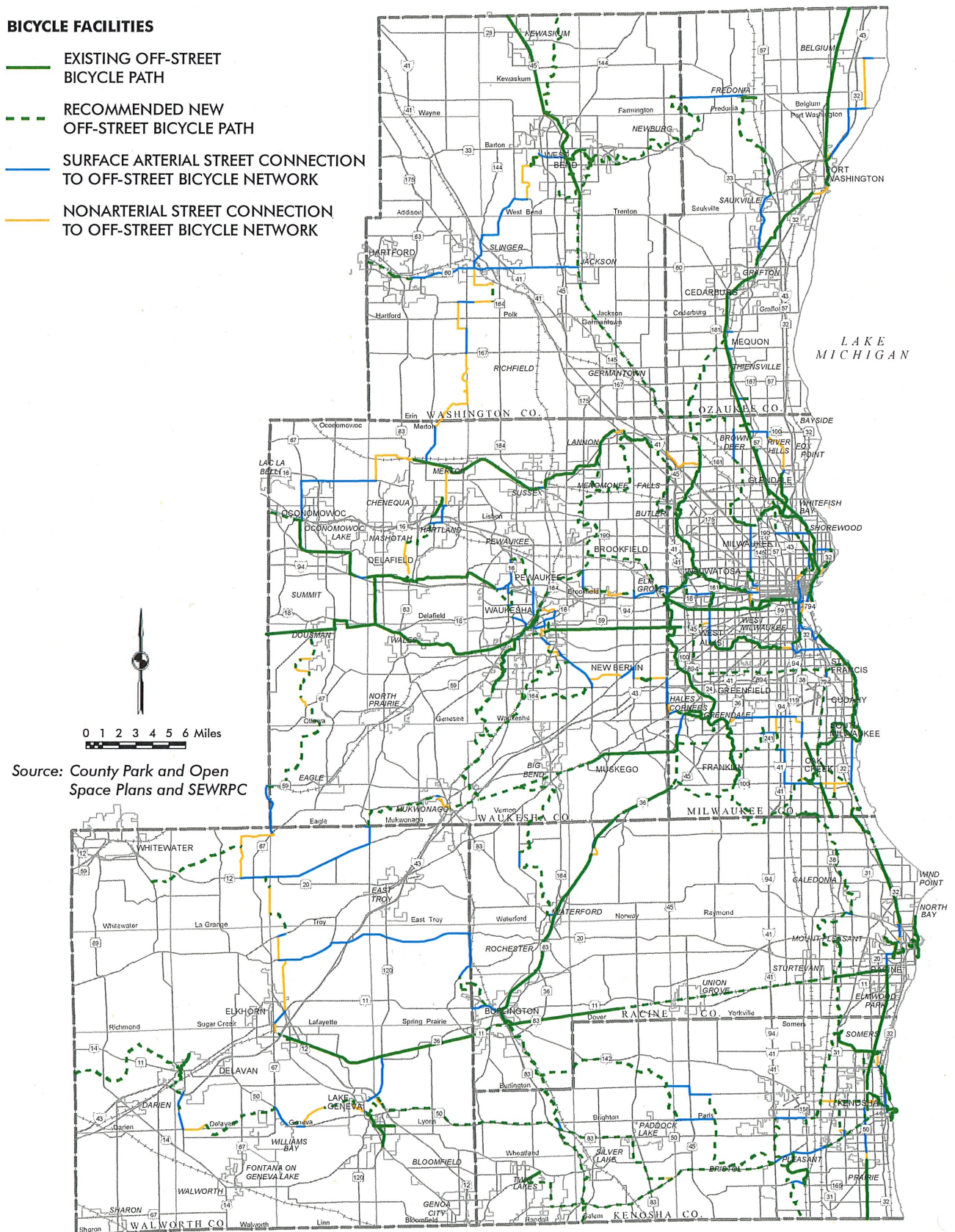
Source: SEWRPC



Off-Street Bicycle Path System: VISION 2050

BICYCLE FACILITIES

-  EXISTING OFF-STREET BICYCLE PATH
-  RECOMMENDED NEW OFF-STREET BICYCLE PATH
-  SURFACE ARTERIAL STREET CONNECTION TO OFF-STREET BICYCLE NETWORK
-  NONARTERIAL STREET CONNECTION TO OFF-STREET BICYCLE NETWORK





Route Key | Rutas clave

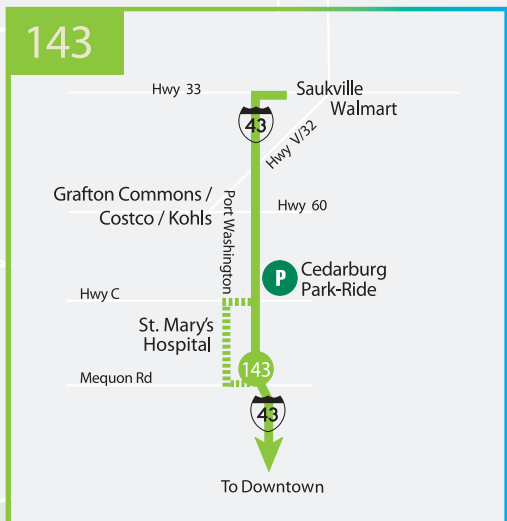
- Regular Routes
Rutas habituales
- Operates most weekdays
Septiembre to June
Opera la mayoría de los días de la semana de septiembre a junio
- Park-Ride Lot
Sector de estacionamiento
- Freeway Flyer
Pasajero que Viaja por Autopista
- Limited Service
Servicio Limitado
Be sure to check schedules for days and times this route or route segment operates.
Asegúrese de consultar los cronogramas con los días y horarios para esta ruta o segmento de ruta.

- MCTS Administration Building
1942 N. 17th Street Milwaukee, WI 53205
- MCTS Fond Du Lac Station
3343 W Fond Du Lac Avenue Milwaukee, WI 53210
- MCTS Kinickinic Station
1710 S Kinickinic Avenue Milwaukee, WI 53204
- Connects with Waukesha Metro bus service
Conexión con el servicio de autobuses de Waukesha Metro
- All trips on all routes are wheelchair accessible

- Blue Line (Fond du Lac - National)
- Gold Line (Wisconsin Ave - UWM)
- Green Line (Bayshore - Airport)
- Purple Line (27th Street)
- Red Line (Capitol Drive)
- 12 Teutonia - Hampton
- 14 Humboldt - Forest Home
- 15 Holton - Kinickinic
- 19 MLK - S. 13th & S. 20th
- 21 North Avenue
- 22 Center Street - N. 92nd
- 28 108th Street
- 30 Sherman - Wisconsin
- 31 Vliet - Highland
- 35 35th Street
- 40 College Avenue Flyer (Northeast Lot)
- 40U Holt - College UBUS (Southwest Lot)
- 43 Hales Corners Flyer
- 44 State Fair Park Flyer
- 44U Fair Park - Hales Corners UBUS
- 46 Loomis Flyer
- 48 South Shore Flyer
- 49 Brown Deer - Bayshore Flyer
- 49U Brown Deer UBUS
- 51 Oklahoma Avenue
- 52 Clement - 15th Avenue
- 53 Lincoln Avenue
- 54 Mitchell - Burnham
- 55 Layton Avenue
- 56 Greenfield Avenue
- 57 Walnut - Appleton
- 60 Burling Street
- 63 Silver Spring - Port Washington
- 64 S. 60th Street
- 67 N. 76th - S. 84th
- 76 N. 60th - S. 70th
- 79 Menomonee Falls Flyer
- 80 6th Street
- 137 House of Correction
- 143 Ozaukee County Express
- RR1-RR3 Ronald Reagan*

*For maps of these routes please refer to the specific route guide (schedule).
Para ver los mapas de estas rutas consulte la guía de rutas específica (cronograma).
Subject to change without notice.
Sujeto a cambios sin previo aviso.
© Copyright Milwaukee County 2020

Ozaukee County Express

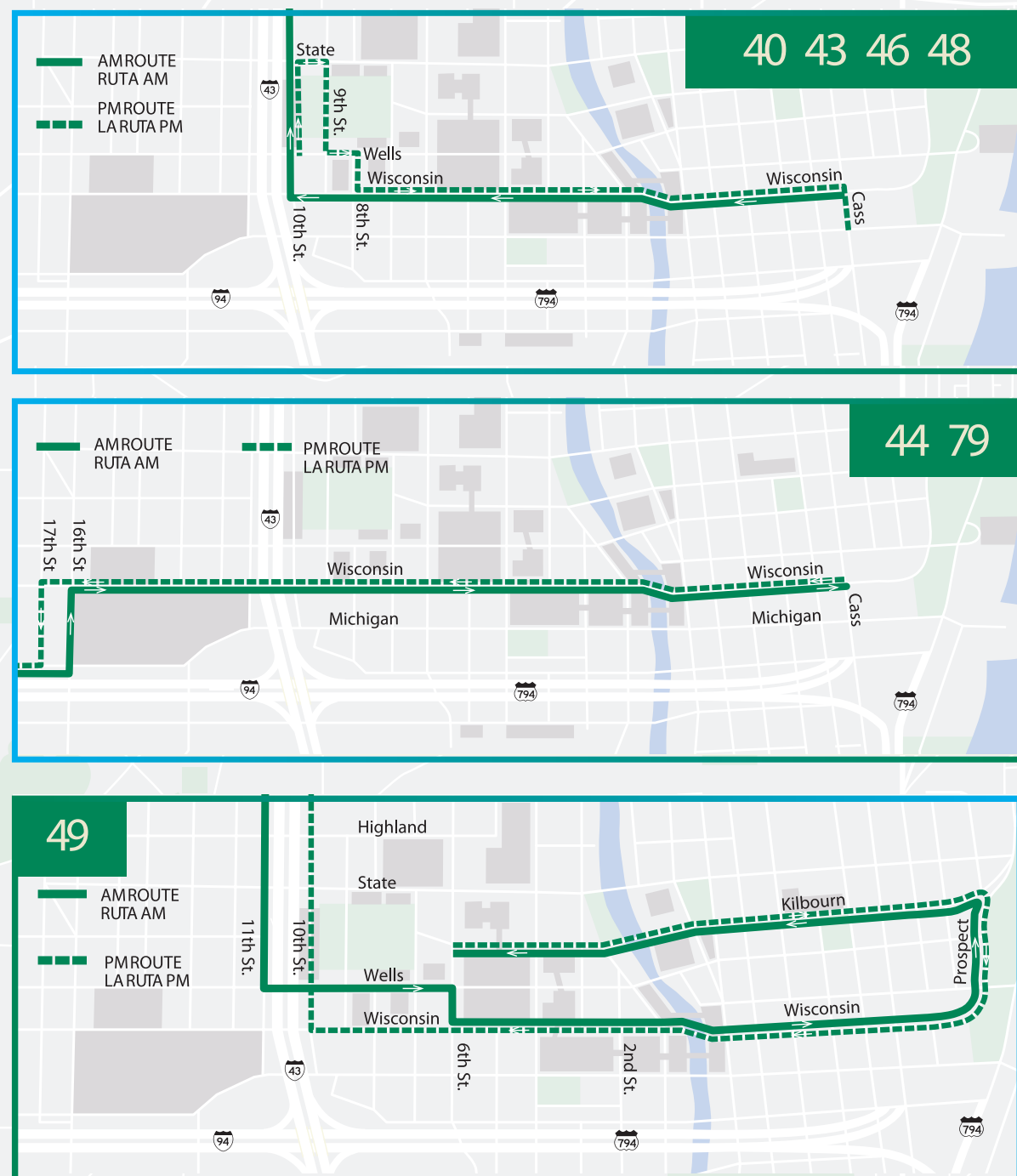


Ozaukee County Express (Downtown)

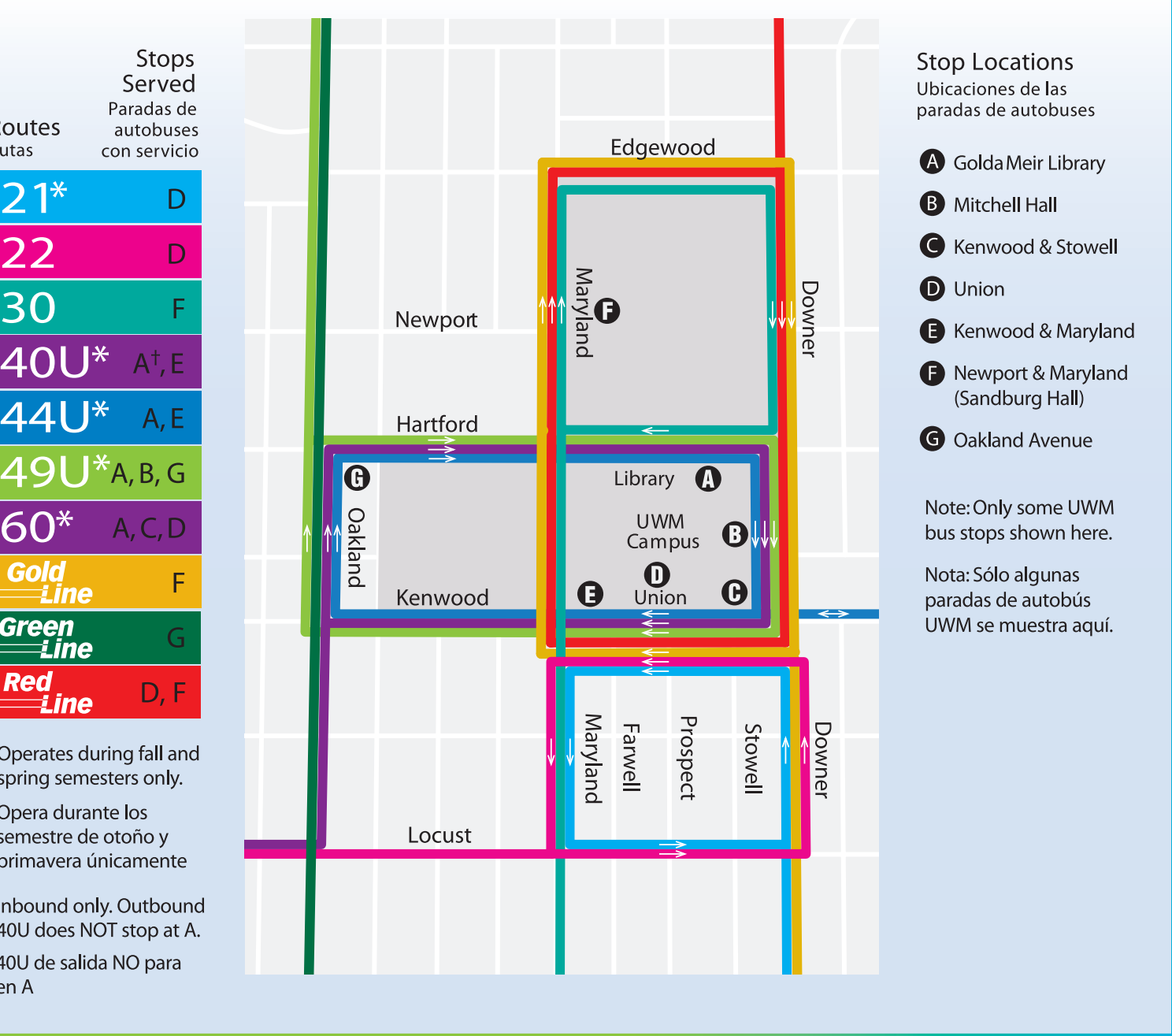


Downtown Flyer Routing

Portion of flyer routes shown is where riders will find bus stops approximately every three blocks. Routing into and from Downtown is subject to change without notice.
Ruta para pasajeros que Viajan al centro de la ciudad: la parte de las rutas para pasajeros que se muestra es donde estos podrán encontrar las paradas de autobuses, aproximadamente cada tres cuadras. La ruta dentro y desde el centro de la ciudad está sujeta a cambios sin previo aviso.



UWM



Downtown

Routing into and from Downtown is subject to change without notice.

