



# CITY OF WAUWATOSA

## COMMON COUNCIL

MINUTES • MARCH 18, 2014

**Regular Meeting**

**Common Council Chambers**

**7:30 PM**

7725 West North Avenue, Wauwatosa, WI 53213

PRESENT: Alds. Roznowski, Tilleson, Wilke, Wilson, Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso -12

EXCUSED: Alds. Ewerdt, Hanson, Walz-Chojnacki

ABSENT: Ald. Donegan

ALSO PRESENT: Mr. Archambo, City Administrator; Mr. Porter, Public Works Director; Mr. Ruggini, Finance Director; Mr. Kesner, City Attorney; Ms. Enders, Development Director; Mr. Brown, Asst. To City Administrator; Ms. Ledesma, City Clerk

Mayor Ehley in the Chair

The Mayor called the meeting to order at 7:30 p.m.

### Approval of minutes of previous meeting

It was moved by Ald. McBride, seconded by Ald. Organ that the reading of the minutes of the last regular meeting be dispensed with and they be approved as printed. -12

### **PUBLIC HEARING**

1. Recommendation for adoption of the Bike and Pedestrian Plan by ordinance as an amendment to the City's Comprehensive Plan

#### **Plan Commission recommended approval 5-0**

The public hearing was declared open. Proof of publication is in the file.

In a meeting held on December 9, 2013 the City Plan Commission recommended adoption of the Bike and Pedestrian Plan by ordinance amendment to the City's Comprehensive Plan.

The following members of public present wished to be heard in favor of the proposal:

Terry Krueger, 4603 N. 101st Street, spoke of the pedestrian safety issues near Madison Elementary School. Sidewalks are needed so pedestrians don't have to walk in the street.

April Rogers, 2727 N. 118th Street, is a parent of Eisenhower Elementary School students. Center Street is dangerous without sidewalks because there is no safe place to walk. Pedestrians are forced to use the street or walk in neighbors' yards. Traffic travels too fast on Center Street as well. Biking is also not relaxing between Center Street and Burleigh Street and between Center Street and North Avenue. Safety lifestyles through exercise should be encouraged.

Lizzette Martinez, 4315 N. 104th Street, Milwaukee, voiced support for sidewalk installations in those zones of the city where pedestrian traffic demands it. Her son was hit by a truck near Pine Lawn Cemetery, where there are no sidewalks.

Molly Delveccio, 3303 N. 107th Street, an Eisenhower Elementary School parent, stated she has worked on National Walk to School Day events. Families, however, feel unsafe walking in the road and end up driving very close to school and allowing the children to walk only short distances. Families living south of Center Street whose children attend the schools on the north side of Center Street only have access to sidewalks on N. 113th Street between North Avenue and Center Street. Traffic on N. 116th Street travels very fast. The hill on Clarke Street interferes with pedestrian visibility. Please pass this Plan, as sidewalks are needed.

Jason Kofroth, 2109 N. 116th Street, stated he would be impacted by sidewalk installation. Most of the neighborhood residents have questions about the potential cost. No one in his area is fully supportive of the proposed Plan. Residents on the east side of the City should not determine what is best for west-side residents. Mr. Kofroth added he supports the current version of the Plan because it does not require sidewalk installation as a high priority, and it requires the City to get the approval of affected neighbors before sidewalk installation begins. The City does not have the financial resources at present to pay for these installations; is it responsible, then, to adopt a Plan that causes hardship to residents?

Thomas Jones, 2626 N. 116th Street, stated that while he wants his children to walk to school, the traffic is heavy and there are inadequate crossings on Center Street. He expressed support for the current version of the Plan, as the original draft would have meant the loss of many more trees and shrubs on both sides of many streets.

Laura Cavosi, 10506 W. Courtland Avenue, stated her family avoids high traffic areas when biking. It would be a 'plus' to have bike lanes. People would be more inclined to use this method of transportation were the lanes available.

The following members of the public present wished to be heard in opposition to the proposal:

Mary Roberts, 2468 N. 117th Street, stated she walks frequently around the neighborhood and sees the problems near the schools. Why aren't buses being considered for transportation? It is unfair to impose sidewalks on residents who do not want them. North 117th Street is wide and could accommodate a bike lane without having to construct sidewalks. Many old-growth trees will be lost due to sidewalk installation.

Arleen Lemmon, 11403 W. Center Street, has lived in the area for 15 years and her two children attended all three schools situated on the north side of Center Street. They moved to this area because of the lack of sidewalks; other parties ought not to be able to determine whether they will be installed. She will move if sidewalks are installed, as she will not shovel them or pay for them. How many accidents have occurred in this area? Her neighbors also oppose sidewalk installation.

Sue McBride, 2374 N. 117th Street, concurred with the previous speaker, noting that the burden will be placed on residents if sidewalks are installed. She noted that she observed 17 children walking on a walk-to-school day. The next day, there were two or three, as there was the day after that. Children need to learn how to walk appropriately in a rural setting. The Plan describes a grid and old houses, which pertain more to the east side of the city. Sidewalk installation impinges on the right of residents to live without concrete. Even though potential pedestrian criteria wording has been eliminated from this version of the Plan, the meaning of the document remains the same.

Brian Bowser, 7031 Aetna Court, commented that no funds are presently allocated to implement the Plan. The Plan addresses a very narrow need and talks about bike paths. Is too much Plan being considered to meet this need? The safety of children is important, but must a broad plan be adopted to meet this need?

Ed Frey, 2374 N. 117th Street, opined that sidewalk installation will be esthetically displeasing for the neighborhood as some homes will lose much of their front yards. Landscaping will be lost. He is disabled and sidewalk maintenance will be problematic. He suggested that sidewalks only be considered for those streets that lead directly to a school.

Chuck Minette, 7037 Aetna Court, stated that he cannot afford to pay more to the city than he is already paying. Neighbors feel the same. Taxes are already high and special assessments will hurt home owners in the long run.

Pat Chipman, 2378 N. 117th Street, stated that sidewalk construction will result in the loss of many trees. He would have to re-grade his front yard if sidewalks were constructed. The larger problem is that drivers speed in this area.

The following members of the public present wished to be heard either for or against the proposal or had comments or questions:

Mike Morgan, 12147 Meadow Court, suggested that better communication is needed between the City and the residents on some issues. Information needs to be provided up front. This is a complex plan with lots of information to consider.

The public hearing was declared closed. Ordered held to the next Community Development Committee meeting on March 25, 2014.

|                |                                       |                                |
|----------------|---------------------------------------|--------------------------------|
| <b>RESULT:</b> | <b>REFER TO ORIGINATING COMMITTEE</b> | <b>Next: 3/25/2014 8:00 PM</b> |
| <b>TO:</b>     | Community Development Committee       |                                |

- Request by John Czarnecki, The 2100 LLC, for a Change of Zoning from C2 District to C2 District/Planned Unit Development overlay at 2050 North Mayfair Road and 2100 North Mayfair Road

**Plan Commission recommended approval 4-1**

The public hearing was declared open. Proof of publication is in the file.

In a meeting held on February 10, 2014 the City Plan Commission recommended approval of the request.

The following members of the public present wished to be heard in favor of the proposal:

John Czarnecki, The 2100 LLC, briefly explained the proposal, noting that in 2011 the WI Department of Transportation eliminated the curb cut onto Mayfair Road which provided primary access to this property. This action drastically affected the value of the property; it is now valued at \$1 million dollars, down from \$1.7 million dollars. Nevertheless, this property is a valuable gateway to the west side of the City. This is a narrow site with limited access. The existing building was constructed in the 1960's and is a Class C office building. The proposal submitted by The 2100 LLC will substantially increase the value of the property.

A traffic study was conducted in 2013; the existing building - stabilized with a 90% occupancy rate - would generate about the same amount of traffic as the apartment building proposed for the property. Thus, while the time difference for the resulting traffic may change with a residential use, the volume will not.

The following members of public present wished to be heard in opposition to the proposal:

Doug Cox, 2123 N. 107th Street, lives immediately east of the proposal and opposes the 134-unit proposal. There is no access onto Mayfair Road; access will be via an existing 16-foot alley. Most of the resulting traffic will be four feet from his back yard. He dismissed a suggestion that access be created from Fisher Parkway, under the freeway, through a restaurant parking lot, and exiting onto Walnut Road at the traffic light. This proposal does not fit the property. Don't sacrifice setback requirements and the adjacent residential neighborhood for the sake of increased tax revenue for the City. Mr. Cox opined that everything in the city has become about money. Where will construction staging occur for this development? Will all construction

equipment travel via the alley? This will result in a 70-foot high building. This development will lead to blight in the adjacent neighborhood.

Adam Hammelman, 2109 N. 107th Street, concurred that this proposal is not right for the neighborhood. In response to his request, dozens of individuals in the audience raised their hands to show opposition to this proposal. Mr. Hammelman submitted a petition with 87 signatures opposing it, as well as ten emails also in opposition. Mr. Hammelman provided a copy of a 2003 *Milwaukee Journal Sentinel* article describing his subdivision as quiet in peaceful, despite being close to Mayfair Mall and just east of Mayfair Road. This proposal will more than double the size of the existing building in height and width. Mr. Hammelman added that the adjacent parking lot is worth \$1.5 million dollars. This proposal will create something akin to an extended-stay hotel behind his garage. The potential traffic in the alley is of great concern and the safety of residents doesn't have a dollar value. Mr. Hammelman added that the sunlight study the developer performed was for a 3-4 story building; the proposal, however, is for a 6-story building. Furthermore, that study was performed in summer.

Keith Ritchie, 10608 W. Fisher Parkway, voiced concern with the increased traffic and safety issues associated with using an alley for access. Properties to the east will lose value.

Randall Walter, 10133 W. Fisher Parkway, stated this is presently a quiet neighborhood where people can walk in the street and children can play and ride bikes in the street. A high-rise apartment will negatively impact the character of the area. The proposed access for this development will mean increased traffic in the neighborhood as people seek alternative routes, and because the alley will lead lead the vehicles to Fisher Parkway.

Robert Wessel, 2250 N. 106th Street, stated residents are presently unconcerned about crime; they don't want it to become a concern. The intersection of Mayfair Road and North Avenue is already very busy and it already difficult to pull out onto North Avenue (from the subdivision) at some times of the day. Having 200 more cars leaving/arriving in the morning and late afternoon will exacerbate the problem. Please consider a better use for the property.

Jeff Sivak, 2258 N. 106th Street, noted a sign in the city hall lobby says, "City of Homes," not "City of Apartment Buildings." There is no green space proposed for this development. Where will the apartment-dwellers go? The extra traffic will cause problems.

Maureen Bolter, 2220 N. 102nd Street, concurred with Mr. Walter's comments. She voiced concern about alley safety and the potentially transient population living in the apartments. Please keep the neighborhood safe.

Mary Ankerberg, 10408 W. Fisher Parkway, concurred with previous speakers and expressed strong opposition to the proposal. She expressed concern about her property value and whether she'll be able to sell her house in the future. Traffic on Fisher Parkway and on Garfield Avenue will increase considerably; those streets are narrow.

Sonia Cox, 2123 N. 107th Street, noted that lots in this area are long and narrow, with little green space between houses. The back yards, therefore, are of great importance to the home owners; it is where residents entertain and play. They don't want a six-story building a few feet from the lot lines. If the development proceeds, please decrease the size. Please consider the residents' feelings.

Mike Kartz, 2103 N. 107th Street, concurred with his neighbors. There are safety concerns with increased alley use. Where will snow be stored? This development is proposed to be built right to the edge of the alley. Cars will be leaving the parking structure cross the alley from his garage. Would the fire department be able to access this alley in an emergency? What about the overhead wires? Would they interfere with fire department equipment?

Tom Rademacher, owner of 2023-2025 N. 107th Street, stated that he used to live one block west of a five-story building. If this building is constructed, the sun will set very early on this neighborhood. This development is not the best use for this neighborhood.

Roger Peterson, 2226 N. 106th Street, commented that the alley got clogged with only six inches of snow this winter. The surface became solid ice. Two cars cannot pass each other. What about access for residents' garbage carts?

Theresa Rooney, 10422 W. Fisher Parkway, concurred with previous remarks. She noted that when she worked for Realty Executives, they considered relocating to the existing office building, but decided not to because of the difficult access.

Mike Tadyszak, 10436 W. Fisher Parkway, stated this development will destroy the neighborhood. The additional 200 cars will create a safety hazard. It will be even more difficult to get onto North Avenue.

Mary Foley, 2205 N. 102nd Street, echoed neighbors' concerns with respect to traffic concerns and the difficulty in accessing North Avenue now. Residents on N. 102nd Street can always tell when North Avenue has a bottleneck, as traffic on their street increases.

Ed Kleine, 10520 W. Fisher Parkway, noted that 50 years ago, there was an access road from the west end of Fisher Parkway to Hwy. 100 (Mayfair Road). This was lost when the freeway was constructed. How can this apartment building be constructed without the thought that this traffic will now use Fisher Parkway? There is no south access on Garfield Avenue. This is the wrong development for the site.

John Morack, 2041 N. 107th Street, agreed with his neighbors. While he understands the City's desire for this property to be used and generate more taxes, the development needs to be more in scale with the neighborhood. Could a sidewalk be constructed in the alley? This development represents another community being moved into an existing community. Where will the new residents walk? This proposal is too dense.

Patricia Mundy, 2225 N. 103rd Street, noted that there used to be a more country atmosphere in this part of the city when Mayfair Road was known as Lovers Lane Road. Wauwatosa used to be a City of Homes. There are no sidewalks from Menomonee River Parkway west. There were gravel roads as recently as 1977, and no curbs or gutters. Progress has occurred in the area and residents are not complaining, though it has cost them money. This development is a monstrosity and will interfere with their community.

The following members of the public present wished to be heard either for or against the proposal or had any comments or questions:

Doug Cox, 2123 N. 107th Street, stated he had his home appraised last week. The realtor told him to 'sell now.'

Tom Rademacher, owner of 2023-2025 N. 107th Street, opined that there is no way - given the current mil rate - that the proposed building will be worth \$20 million dollars when complete. Is it worth the money to ruin a neighborhood?

Peggy Hoyt, 1848 N. 85th Street, stated her mother lives on N. 106th Street. She expressed concern about residents of all ages if this development is approved. The intersection of Mayfair Road and North Avenue is already dangerous; more traffic will add to the problem. What will it cost the City to accommodate this developer?

Maureen Bolter, 2220 N. 102nd Street, asked whether access would continue to be an alley. Would it be widened or made into a street?

Bob Kanack, 10209 W. Fisher Parkway, asked the Council members whether any of them would live in any of the homes east of this proposed development. He asked whether they would want a 134-unit building using an alley for access. He asked again whether Council members would move to this neighborhood.

The public hearing was declared closed. Ordered held to the next Community Development Committee meeting on March 25, 2014.

Recess 8:53 p.m. - 8:58 p.m.

(Note the developer subsequently requested this item be removed from the March 25, 2015 agenda.)

|                |                                       |                               |
|----------------|---------------------------------------|-------------------------------|
| <b>RESULT:</b> | <b>REFER TO ORIGINATING COMMITTEE</b> | <b>Next: 4/8/2014 8:00 PM</b> |
| <b>TO:</b>     | Community Development Committee       |                               |

**OLD BUSINESS**

1. Ordinance amending Chapter 24.07.030 of the Wauwatosa Municipal Code by adding Group Living as a Conditional Use in the C2 District

**Committee recommended approval 8-0**

**ORDINANCE O-14-8**

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. That Section 24.07.030 of the Wauwatosa Municipal Code, the "Use Table", is hereby amended as follows:

The provisions relating to "Group Living" shall be amended to reflect the letter "C" in the "C2" district.

Part II. This Ordinance shall take effect and be in force from and after its passage and publication.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>ADOPTED [UNANIMOUS]</b>  |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | James Moldenhauer, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

2. Ordinance amending the official zoning map of the City of Wauwatosa from R8 District to R8 District/PUD (Planned Unit Development) Overlay at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street

**Committee recommended approval 7-0-1**

**ORDINANCE O-14-9**

The Common Council of the City of Wauwatosa do ordain as follows:

Part 1. The Official Zoning Map of the City of Wauwatosa is hereby amended to reflect a Change of Zoning from R8 District to R8 District/Planned Unit Development (PUD) Overlay on the following parcels:

BERWYN LAWNS LOT 13 & E 20 FT OF LOT 14 BLK 4 SW 1/4 SEC 16

BERWYN LAWNS W 20 FT OF LOT 14 ALL OF LOT 15 & E 30 FT OF LOT 16 BLK 4 SW 1/4 SEC 16

BERWYN LAWNS W 10 FT OF LOT 16 & ALL OF LOTS 17 & 18 BLK 4 SW 1/4 SEC 16

Part II. The City Administrator is hereby directed to change the Official Zoning Map of the City of Wauwatosa to conform to the provisions of the Ordinance, and said Map is declared amended accordingly.

Part III. This ordinance shall take effect on and after its date of publication.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>ADOPTED [UNANIMOUS]</b>  |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | James Moldenhauer, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

### **APPOINTMENTS BY THE MAYOR**

1. Civic Celebration Committee (appointment, final reading)

Jesse Dill, 1113 N. 119th Street (Dist. 7)  
Term expires 12/31/2018

It was moved by Ald. Berdan, seconded by Ald. Wilson  
to concur with the foregoing appointment. -12

2. Energy and Recycling Advisory Committee (appointment, first reading)

Jim Krol, 7828 Milwaukee Avenue (Dist. 2)  
Term expires 12/31/2014

John Bahr, 1674 N. 118<sup>th</sup> Street (Dist.7)  
Term expires 12/31/2014

Chuck Rohrer, 1074 Kavanaugh Place (Dist. 2)  
Term expires 12/31/2014

Nancy Alberte, 8276 Richmond Court (Dist. 2)  
Term expires 12/31/2015

Jay Kasmerchak, 2023 Two Tree Lane (Dist. 1)  
Term expires 12/31/2015

Timm Heck, 2159 N. 69<sup>th</sup> Street (Dist. 1)  
Term expires 12/31/2016

3. Village of Wauwatosa Business Improvement District Board (appointment, first reading)

Matthew Lorbiecki, 7700 Harwood Avenue  
Term expires 12/31/2015  
General Manager of Cafe Bavaria

Foregoing appointments ordered held as this was the first reading.

**APPLICATIONS, COMMUNICATIONS, ETC.**

1. Notice of Claim: Joan M. Heder, 21005 George Hunt Circle, Waukesha

**City Attorney**

2. Email from Theresa Rooney, 10422 W. Fisher Parkway, opposing the proposed Planned Unit Development at 2050 North Mayfair Road and 2100 North Mayfair Road

**Add to existing file**

3. Letter from David Whitehaus, 2329 N. 84th Street, opposing the proposed Pasadena Apartments

**Add to existing file**

4. Notice of Circumstances of Injury by Bette Yentz, 11105 Amsterdam Avenue, Madison

**City Attorney**

5. Notice of Claim: Garret Butenhoff, 2408 N. 114th Street

**City Attorney**

6. Email from Jeff and Margaret Justin in support of the proposed bike and pedestrian plan

**Add to existing file**

7. Email from Wade Cepulis, 10238 Feerick Place, supporting the proposed bike/pedestrian plan

**Add to existing file**

8. Email from Rae Ward, 2024 N. 107th Street, opposing the proposed development at 2050-2100 N. Mayfair Road

**Add to existing file**

9. Email from Mayor forwarding phone messages from Gay Leigh Mundy, 2225 N. 103rd Street, and Mary Ankerberg, 20408 W. Fisher Parkway, opposing the proposed development at 2050-2100 N. Mayfair Road

**Add to existing file**

10. Email from Steve Pape, 7030 Maple Terrace, supporting the proposed development at 2050-2100 N. Mayfair Road

**Add to existing file**

- 11. Email from Ruth Welcenbach, 2239 N. 105th Street, opposing the proposed development at 2050-2100 N. Mayfair Road

Add to existing file

**ORDINANCES FOR INTRODUCTION**

- 1. Ordinance amending Section 11.32.080 of the Wauwatosa Municipal Code to add parking restrictions on the north side of State Street at 7018 West State Street

Refer to originating committee

**ORDINANCE**

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. The introductory schedule of restrictions in Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(ddd) No parking here to corner."

Part II. The "West State Street - north side" portion of the Schedule of Streets, and Portions, subsection of Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(ddd) From the front of the property at 7018 West State Street to the Corner of 70th street."

Part III. This ordinance shall take effect on and after its date of publication.

|                |                                       |                                |
|----------------|---------------------------------------|--------------------------------|
| <b>RESULT:</b> | <b>REFER TO ORIGINATING COMMITTEE</b> | <b>Next: 3/25/2014 7:00 PM</b> |
| <b>TO:</b>     | Traffic and Safety Committee          |                                |

- 2. Ordinance amending Section 11.32.080 of the Wauwatosa Municipal Code to add parking restrictions on the west side of North 113th Street from Center Street to Clarke Street

Refer to originating committee

**ORDINANCE**

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. The "North 113th Street - west side" portion of the Schedule of Streets, and Portions, subsection of Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(t) on the west side of North 113th Street from Center Street to Clarke Street.

Part II. This ordinance shall take effect on and after its date of publication.

|                |                                       |                                |
|----------------|---------------------------------------|--------------------------------|
| <b>RESULT:</b> | <b>REFER TO ORIGINATING COMMITTEE</b> | <b>Next: 3/25/2014 7:00 PM</b> |
| <b>TO:</b>     | Traffic and Safety Committee          |                                |

- Ordinance amending Section 11.36.200 of the Wauwatosa Municipal Code to add 'no U-turn' restrictions on Center Street in front of Wauwatosa West High School and Eisenhower Elementary

**Refer to originating committee**

### **ORDINANCE**

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. Section 11.36.200 of the Code of the City of Wauwatosa is hereby amended by adding the following:

"11. On Center Street in front of Wauwatosa West High School and Eisenhower Elementary

Part II. This ordinance shall take effect on and after its date of publication.

|                |                                       |                                |
|----------------|---------------------------------------|--------------------------------|
| <b>RESULT:</b> | <b>REFER TO ORIGINATING COMMITTEE</b> | <b>Next: 3/25/2014 7:00 PM</b> |
| <b>TO:</b>     | Traffic and Safety Committee          |                                |

### **FROM THE COMMITTEE ON COMMUNITY DEVELOPMENT**

- Resolution approving the request by Sherry Carlin, Tosafest 2014 Chair, Wauwatosa Village Task Force, for a Street Festival Permit in the Village area for Tosafest on September 5-6, 2014

**Committee recommended approval 8-0**

### **RESOLUTION** R-14-47

WHEREAS, Sherry Carlin, chairperson of Tosafest 2014, has applied for a Street Festival Permit to the Village area on September 5-6, 2014; and

WHEREAS, the Committee on Community Development reviewed the request and recommends granting a Street Festival permit subject to the following restrictions:

- Tosafest shall be conducted on Thursday, September 4, 2014, from 5:00 PM, Friday, September 5, 2014, from 1:00 pm to 11:30 pm; and on Saturday, September 6, 2014, 11:00 am to 11:30 pm; and take down and clean-up on Sunday, September 7, 2014, from 7:00 am to 12:00 noon;
- Live and recorded music associated with the event shall cease no later than 11:00 pm
- Tosafest shall pay all actual costs for Public Works services provided should City resources be utilized for the event.

NOW, THEREFORE, BE IT RESOLVED THAT a Street Festival permit be granted for Tosafest 2014 to use the Village area on September 5-7, 2014.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | Bobby Pantuso, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

- Resolution approving a Conditional Use in the C2 District at 11811 West Blue Mound Road for a group living establishment (Wisconsin International Academy); Jian Sun, Wisconsin International Academy, Inc., and Tom Campbell, Wauwatosa Hotel Group, LLP., applicants

**Committee recommended approval 8-0**

**RESOLUTION R-14-48**

WHEREAS, Jian Sun, Wisconsin International Academy, Inc., and Tom Campbell, Wauwatosa Hotel Group, LLP., applied for a Conditional Use in the C2 District at 11811 West Blue Mound Road to operate Wisconsin International Academy, a group living establishment, and;

WHEREAS, this request was reviewed and recommended by the City Plan Commission and the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants a Conditional Use to Jian Sun, Wisconsin International Academy, Inc., and Tom Campbell, Wauwatosa Hotel Group, LLP., to operate Wisconsin International Academy in the C2 District at 11811 West Blue Mound Road subject to the obtaining any additional permits and licenses.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | Bobby Pantuso, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

- Resolution approving preliminary plans for a Planned Unit Development to construct a multifamily apartment building at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street; Dan Kroetz, CCM – Pasadena Apartments, LLC., applicant

**Committee recommended approval 7-0-1**

**RESOLUTION R-14-49**

WHEREAS, Dan Kroetz, CCM - Pasadena Apartments, LLC., applied for preliminary plans for Planned Unit Development at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street for a multifamily development, including new construction, and;

WHEREAS, this request was reviewed and recommended by the City Plan Commission and the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants Planned Development preliminary plan approval to Dan Kroetz, CCM - Pasadena Apartments, LLC., for a multifamily development, including new construction, at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street, subject to the following:

1. plans showing adequate sewer capacity, storm water management, and traffic/access improvements subject to approval by the City Engineer
2. plans for water supply to the site subject to approval by the City Water Superintendent
3. Design Review Board approval
4. combine parcels prior to obtaining building permit
5. placement of an eight foot fence along the north property line
6. design and landscaping accommodations mutually agreed upon with the adjacent neighbors to the north
7. obtaining all necessary licenses and permits

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | Bobby Pantuso, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

4. Resolution approving a Planned Development Amendment at 1300 Discovery Parkway for a hotel; Edward Walsh, Alpine Realty Capital, and David Gilbert, UWM Real Estate Foundation, applicants

**Committee recommended approval 8-0**

#### **RESOLUTION R-14-50**

WHEREAS, Edward Walsh, Alpine Realty Capital, and David Gilbert, UWM Real Estate Foundation, applied for an amendment to a Planned Development at 1300 Discovery Parkway to construct a hotel, and;

WHEREAS, this request was reviewed and recommended by the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants approval of an amendment to a Planned Development to Edward Walsh, Alpine Realty Capital, and David Gilbert, UWM Real Estate Foundation, to construct a hotel at UWM Innovation Campus, subject to the following:

1. Plans showing adequate sewer capacity and storm water management subject to approval by the City Engineer
2. Plans for water supply to site and hydrant placement subject to approval by the City Water Superintendent
3. Plans for fire protection subject to approval by Fire Prevention staff
4. Incorporation of a pedestrian connection from the main building entrance to the public sidewalk
5. Approval by the Design Review Board
6. Obtaining any additional licenses and permits

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Jeffrey Roznowski, Alderman   |
| <b>SECONDER:</b> | Bobby Pantuso, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

#### **FROM THE COMMITTEE ON BUDGET & FINANCE**

1. Resolution authorizing the Development Department to submit the second round WisDOT Transportation Alternatives Program application

**Committee recommended approval 6-0**

#### **RESOLUTION R-14-51**

WHEREAS, the City of Wauwatosa supports the pre-scoping and a second-round application to be submitted to WisDOT for the 2014-2018 Wisconsin Department of Transportation (WisDOT) 2014-2018 Transportation Alternatives Program (TAP) award cycle. The purpose of the application is to seek federal grant funding to establish a bicycle share program in Wauwatosa; and

WHEREAS, the City of Wauwatosa recognizes that WisDOT reimburses project sponsors for the federal share of 80% of the approved TAP project costs, up to the limit of the federal award amount. In light of the minimum twenty percent (20%) match requirement, the City of Wauwatosa will work toward securing the matching funds from non-tax levy sources.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa that if the City of Wauwatosa is awarded funding by WisDOT for the 2014-2018 TAP award cycle, appropriate city officials are hereby authorized to accept the award administered by WisDOT for the above- referenced project, provided that sufficient matching funds are available.

BE IT FURTHER RESOLVED that the City of Wauwatosa agrees to comply with all applicable laws, requirements, and regulations as outlined in the WisDOT 2014-2018 TAP application materials, the state-municipal agreement between WisDOT and the City of Wauwatosa, and any other program and/or project documentation.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Craig Wilson, Alderman  |
| <b>SECONDER:</b> | Donald Birschel, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

- Resolution approving a consultant contract with Symbiont for implementation of an EPA Brownfields Assessment Grant

**Committee recommended approval 6-0**

**RESOLUTION R-14-52**

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted for appropriate City officials to enter into a 3 year contract with Symbiont for implementation of an EPA Brownfield Assessment Grant.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Craig Wilson, Alderman  |
| <b>SECONDER:</b> | Donald Birschel, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

- Resolution approving an agreement with municipal governments in Milwaukee County regarding mutual aid

**Committee recommended approval 6-0**

**RESOLUTION R-14-53**

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted for the proper City officials to enter into an agreement, a copy of which is attached hereto and incorporated herein, with other municipal governments in Milwaukee County for fire service mutual aid.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Craig Wilson, Alderman  |
| <b>SECONDER:</b> | Donald Birschel, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

- Resolution creating a Council member reimbursement of telecommunication expense for City business in an amount up to \$40 per month

Committee recommended approval 4-2

**RESOLUTION**

BE IT RESOLVED, by the Common Council of the City of Wauwatosa, THAT, effective following the next re-election of each aldermanic seat, Common Council members are hereby authorized to participate in the receipt of a telephone reimbursement for council members at level three, or \$40.00 per month, consistent with the existing administrative policy in place for non-elected City employees, and with proof of actual expense.

|                  |  |
|------------------|--|
| <b>RESULT:</b>   | <b>DEFEATED [5 TO 7]</b>   |
| <b>MOVER:</b>    | Craig Wilson, Alderman   |
| <b>SECONDER:</b> | Donald Birschel, Alderman  |
| <b>AYES:</b>     | Causier, Organ, Tilleson, Wilke, Wilson                              |
| <b>NAYS:</b>     | Berdan, Birschel, Dubinski, McBride, Moldenhauer, Pantuso, Roznowski |
| <b>ABSENT:</b>   | Donegan  |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki                                       |

5. Bills and Claims

BILLS AND CLAIMS FOR THE PERIOD 03/05/14 - 03/18/14 -

The Committee on Budget and Finance hereby reports to the Common Council that it has examined the accounts of bills and claims and hereby certifies the same as correct and recommends that each of said accounts be allowed and paid.

Total bills and claims for 03/05/14 - 03/18/14 \$2,606,796.57

It was moved by Ald. Causier, seconded by Ald. Dubinski that each and every account of bills and claims be allowed and ordered paid. Roll call vote, Ayes 12

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Kathleen Causier, Alderwoman  |
| <b>SECONDER:</b> | John Dubinski, Alderman   |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

**FROM THE BOARD OF PUBLIC WORKS**

- Resolution authorizing an encroachment into city right-of-way at 1423 Underwood Avenue with a two-seat arbor and potted plants, Jeff Rauh and Kirsten Termuehlen, applicants

Board recommended approval 3-0

**RESOLUTION** R-14-55

BE IT RESOLVED, by the Common Council of the City of Wauwatosa, THAT permission be and is hereby granted to Kristin Termuehlen, French County Pine & Design, 1423 Underwood Avenue,

Wauwatosa, WI, to encroach onto City right-of-way with a two seat arbor and potted plants, subject to the applicant executing unto the City of Wauwatosa an indenture setting forth the terms, provisions, and conditions relating to the granting of the aforesaid permission by said City to said applicant.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Donald Birschel, Alderman   |
| <b>SECONDER:</b> | Kathleen Causier, Alderwoman  |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

2. Resolution approving an exception to requirements in Chapter 13.04.320 (C) and (D) of the Wauwatosa Municipal Code to permit water service connection for the Nordstrom store at Mayfair Mall

**Board recommended approval 3-0**

**RESOLUTION R-14-56**

WHEREAS, Sections 13.04.320 C. and D. of the Wauwatosa Municipal Code require private water mains to be laid directly from public mains to the parcel being served without crossing other parcels; and

WHEREAS, provision of water service for the new Nordstrom store at Mayfair Mall cannot be accomplished without allowing the private water main to cross at least two other parcels, which are owned by Bon Ton Stores and Mayfair Properties; and

WHEREAS, the owner of Mayfair Mall has provided that the Nordstrom parcel will have a cross-access easement over the other two parcels in order to have full rights to access and service the proposed water main via a proposed Water Utility Easement Agreement which was presented to the Board of Public Works at its meeting of March 17, 2014;

NOW THEREFORE BE IT RESOLVED THAT an exception to the provisions of Sections 13.04.320 C. and D. of the Wauwatosa Municipal Code is hereby approved in order to provide water service to the new Nordstrom store to be located on a separate parcel at Mayfair Mall, conditioned upon execution and recording of the Water Utility Easement Agreement which was presented to the Board of Public Works at its meeting of March 17, 2014, a copy of which is contained within the record of said meeting.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Donald Birschel, Alderman   |
| <b>SECONDER:</b> | Kathleen Causier, Alderwoman  |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

3. Resolution approving a five-year agreement with Tosa Tonight, Inc., for the operation and management of the Rotary performance pavilion at Hart Park

**Board recommended approval 3-0**

**RESOLUTION** R-14-57

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted to the proper City officials to execute the five-year Management Agreement with Tosa Tonight, Inc., for the Rotary Pavilion at Hart Park, a copy of which was provided to the Board of Public Works at its meeting of March 17, 2014, and is contained in the proceedings of that meeting.

|                  |   |
|------------------|---|
| <b>RESULT:</b>   | <b>APPROVED [UNANIMOUS]</b>   |
| <b>MOVER:</b>    | Donald Birschel, Alderman   |
| <b>SECONDER:</b> | Kathleen Causier, Alderwoman  |
| <b>AYES:</b>     | Berdan, Birschel, Causier, Dubinski, McBride, Moldenhauer, Organ, Pantuso, Roznowski, Tilleson, Wilke, Wilson |
| <b>ABSENT:</b>   | Donegan   |
| <b>EXCUSED:</b>  | Ewerdt, Hanson, Walz-Chojnacki  |

---

Carla A. Ledesma, CMC, City Clerk

CITY OF WAUWATOSA  
MEMO



To: **Common Council**

From: **Tamara Szudy**

Date: **March 24, 2014**

Subject: **Recommendation for adoption of the Bike and Pedestrian Plan by ordinance as an amendment to the City's Comprehensive Plan**

---

**A. Issue**

Recommendation for adoption of the Bike and Pedestrian Plan by ordinance as an amendment to the City's Comprehensive Plan

**B. Discussion**

The purpose of this plan is to build upon the City's strengths while facilitating additional bicycling and walking opportunities in Wauwatosa. The City's Comprehensive Plan states that "the goal of enhancing the walk-ability and bike-ability of the city stands out as being one of the most universally agreed upon themes of the comprehensive planning process." This plan makes the case for why bicycling and walking are important for a vibrant community and provides a vision for bicycling and walking in Wauwatosa. Goals and recommendations are provided to build on Wauwatosa's existing bicycle and pedestrian network, and to provide education and encouragement programs to facilitate bicycling and walking. By undertaking this planning process, the City has demonstrated its commitment to improving bicycling and walking conditions for its residents and visitors.

Based on input from the plan Steering Committee and the public, the following vision was developed for the plan:

*Wauwatosa will continue to be attractive as a healthy, safe, and livable community because it facilitates bicycling and walking as travel and recreation options for residents, visitors, and businesses. Bicycling and walking will be integral components of quality of life, economic development, and accessibility features of the city.*

The plan provides recommendations for building on existing bicycle and pedestrian infrastructure, in addition to providing Education, Encouragement, Evaluation, and Enforcement efforts that will make Wauwatosa a better place to walk and ride a bike. Recommendations include providing additional bicycle facilities throughout the City and installing approximately 22 miles of pedestrian facilities, primarily surrounding schools and along major streets.

On February 10th, the Plan Commission recommended approval of this item 5-0. A public hearing was held before the Council on March 18th and six people spoke in favor of the plan and six spoke against it. Comments in favor related to being pleased with changes since the original draft and the need for bike/pedestrian facilities in select areas of the City. The

majority of comments against the plan related to pedestrian facilities and the impact to property owners.

**C. Recommendation**

Staff recommends approval

History:

|          |                                 |                              |
|----------|---------------------------------|------------------------------|
| 02/10/14 | Plan Commission                 | RECOMMENDED FOR APPROVAL     |
| 02/11/14 | Community Development Committee | RECOMMENDED FOR INTRODUCTION |



**MEMORANDUM**

---

**Date:** January 30, 2014  
**To:** City of Wauwatosa Alders and Plan Commission Members  
**From:** Tom Huber & Kevin Luecke  
**Project:** Wauwatosa Bicycle & Pedestrian Facilities Plan  
**Re:** Bicycle & Pedestrian Plan Summary

---

Attached please find a redraft of the City of Wauwatosa Bicycle & Pedestrian Facilities Plan. This Plan has been developed for the City over the last 12 months by Toole Design Group and the Wisconsin Bike Federation and was first presented to the Wauwatosa Plan Commission on October 7, 2013. The Commission received input at the meeting and had concerns and comments on the draft Plan. Several City Aldermen also had comments. Over the past several months, the consultant team worked closely with City staff to make changes that address these comments and the Plan Advisory Committee had a meeting to review the changes and reach consensus.

This memorandum highlights the most significant changes in the redraft; it should be noted that many other smaller changes were also made. The changes can easily be seen in the "tracked changes" version of the draft document that demonstrates what was crossed out and replaced. The revised executive summary also reflects the requested changes.

**Purpose, Vision and Goals**

---

The primary goal in developing the Plan was to lay out a vision and specific projects for the City to carry out to improve bicycle and pedestrian connectivity throughout Wauwatosa and into neighboring communities. Providing enhanced pedestrian and bicycle connectivity allows residents and visitors who are interested in walking and bicycling more transportation options and the ability to choose different modes for transportation.

Based on input received, the vision of the Plan was modified to:

*Wauwatosa will continue to be attractive as a healthy, safe, and livable community because it facilitates bicycling and walking as travel and recreation options for residents, visitors, and businesses. Bicycling and walking will be integral components of quality of life, economic development, and accessibility features of the city.*

Additionally, objectives and policies were replaced with recommendations. Here is the key wording change explaining this:

The Recommendations in this Plan are more specific than goals and are usually attainable through strategic planning and implementation activities. Implementation of a recommendation should contribute to the fulfillment of a goal. Following the recommendation, specific actions that can be taken by a specific group, agency, department, or organization to achieve the recommendation are discussed.

Attachment: Memorandum Bike and Ped Plan Plan Commission 2-14 (1949 : Bike/Ped Plan)

---

## Proposed Bicycle and Pedestrian Facilities

---

- Overall facility recommendations replace what were previously pedestrian priorities. The Plan now makes clear the process for adding sidewalks to a street by adding the following language in several locations:

“The option of putting sidewalks on streets that currently do not have them will be evaluated on a case by case basis as street reconstruction projects arise and neighborhood input and support is obtained. Criteria used to identify areas of importance for pedestrian facilities include filling gaps in the existing system, proximity to schools, traffic volume, proximity to existing paths, and bus stop locations. The Common Council will decide approval of sidewalks, taking into account all of these considerations.”

And:

“The consideration of all (pedestrian) recommendations will take into account zoning and potential future zoning changes, development market and economic conditions, and community input provided during the public involvement processes associated with land and infrastructure development. Additional public input will also occur during the Capital Improvements Program (CIP) and budget processes. The Common Council determines project and infrastructure approvals.”

- The word “sidewalk” has been replaced with “pedestrian facilities” in most instances to recognize and include options other than sidewalks for pedestrian travel that may be appropriate.
- The recommendations for bridging the Menomonee River and adding a connecting path south along the golf course and north along Mayfair Mall to Mayfair Road have been removed from the Plan.
- Text was changed to reflect work to be done on routes to schools, especially Wauwatosa West High School and Whitman Middle School:

“Accessibility issues also exist around other schools throughout the City, including a .safe route between McKinley School neighborhood and Whitman School neighborhood. The options will be studied in detail using the Safe Routes to School planning grant awarded to the City and McKinley School by WisDOT and will include participation of all stakeholders.”

## Other

---

The Plan provides planning-level costs for the initial implementation of the recommended facilities. These costs are based on known construction costs, but have changed somewhat from the first draft since the mileage of sidewalks has decreased and the mileage of bikeways has increased with facilities now being recommended on Capitol Drive between Mayfair and 124<sup>th</sup> Street. It is possible that the total facility length and dollar estimates may change very slightly as we do the final check on facility mileage.

# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

January 27~~17~~, 2014 ~~September 17, 2013~~ Draft

---

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

---

*Page intentionally left blank.*

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

# Table of Contents

**Executive Summary**..... i

    Purpose..... i

    Vision & Goals..... i

    Proposed Bicycle and Pedestrian Facilities..... ii

    Key Recommendations..... iii

**1 | Plan Overview** ..... 1

    1.1 | Purpose..... 1

    1.2 | The Case for Bicycling and Walking..... 2

    1.3 | Public Involvement..... 5

    1.4 | Vision & Goals..... 7

**2 | Existing Conditions**..... 9

    2.1 | Regional Context..... 9

    2.2 | Bicycle Conditions..... 11

    2.3 | Pedestrian Conditions.....17

    2.4 | Existing Plans and Policies..... 21

**3 | Bicycle Network Recommendations & Implementation** ..... 22

    3.1 | Overview..... 22

    3.2 | Development of Bicycle Objectives, Policies, and Network..... 24

    3.3 | Bicycle Network Objectives and Policy Recommendations..... 27

    3.4 | Bicycle Facility Recommendations..... 35

    3.5 | Implementation..... 48

    3.6 | Planning-Level Cost Estimates..... 49

    3.7 | Prioritization Criteria..... 52

    3.8 | Priority Bikeway Projects..... 53

**4 | Pedestrian Network Recommendations & Implementation** ..... 55

    4.1 | Overview..... 55

    4.2 | Development of Pedestrian Objectives, Policy Recommendations, and Network..... 55

    4.3 | Pedestrian Network Objectives and Policy Recommendations..... 57

    4.4 | Pedestrian Facility Recommendations..... 64

    4.5 | Implementation..... 70

    4.6 | Planning-Level Cost Estimates.....71

    4.7 | Prioritization Criteria.....73

    4.8 | Priority Pedestrian Projects..... 74

**5 | Bicycle and Pedestrian Non-Infrastructure Recommendations**..... 75

    5.1 | Overview..... 75

    5.2 | Development of Bicycle and Pedestrian Non-Infrastructure Objectives and Policy Recommendations.....77

    5.3 | Encouragement Objectives and Policy Recommendations..... 78

    5.4 | Education Objectives and Policy Recommendations..... 79

    5.5 | Enforcement Objectives and Policy Recommendations..... 80

    5.6 | Evaluation Objectives and Policy Recommendations..... 81

    5.7 | Other Objectives and Policy Recommendations..... 83

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

**6 | Implementation Approaches and Funding Opportunities..... 87**

6.1 | Implementation Approaches..... 87

6.2 | Inter-Agency Coordination ..... 88

6.3 | Funding..... 88

**7 | Conclusion ..... 93**

**Appendix A | Public Comments..... 94**

A.1 | General Comments..... 94

A.2 | WikiMap Comments..... 94

A.3 | Parkway Comments ..... 97

**Appendix B | Existing Plans and Policies..... 99**

B.1 | Statewide Documents ..... 99

B.2 | Regional and County Documents..... 102

B.3 | Local Planning Documents ..... 107

B.4 | Recommendations ..... 117

**Appendix C | Bicycle Network and Cost Estimates .....119**

C.1 | Recommended Bicycle Network by Facility Type.....119

**Appendix D | Planning Level Cost Details .....124**

**Appendix E | Model Complete Streets Ordinance.....132**

E.1 | Overview .....132

E.2 | Policy Options .....132

E.3 | Model Local Ordinance on Complete Streets .....132

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

**List of Tables**

Table 1: Recommended minimum bicycle parking requirements..... 34

Table 2: Summary of existing and proposed bikeways in Wauwatosa..... 40

Table 3: Recommended bike lanes ..... 41

Table 4: Recommended cycletracks ..... 41

Table 5: Recommended neighborhood greenways..... 42

Table 6: Recommended shared lane markings ("sharrows") ..... 43

Table 7: Recommended signed bike routes ..... 43

Table 8: Recommended grade-separated crossings ..... 43

Table 9: Recommended shared use paths ..... 44

Table 10: Actions and responsible agencies/departments for on-street bicycle network objective..... 48

Table 11: Actions and responsible agencies/departments for off-street bicycle network objective ..... 48

Table 12: Planning level cost estimates for on-street bicycle facility recommendations ..... 49

Table 13: Planning-level cost estimates for off-street bicycle facility recommendations ..... 49

Table 14: Planning level item cost estimates for grade-separated bicycle and pedestrian facilities ..... 49

Table 15: Planning level cost estimates for grade-separated bicycle and pedestrian facilities ..... 49

Table 16: City of Madison Bike/Ped Capital Budget Requests ..... 51

Table 17: WisDOT guidelines for sidewalk placement ..... 62

Table 18: Miles of sidewalk by priority ..... 67

Table 19: Actions and responsible agencies/departments for pedestrian connectivity objective..... 70

Table 20: Actions and responsible agencies/departments for pedestrian access objective..... 70

Table 21: Planning-level cost estimates for sidewalks by priority .....71

Table 22: Draft table of Federal funding sources available for bicycle and pedestrian projects ..... 91

Table 23: Recreation corridors and other bike routes in Milwaukee County ..... 104

Table 24: Recommendations for provision of sidewalks .....107

Table 25: Required short-term bicycle parking spaces .....116

Table 26: WisDOT guidelines for sidewalk placement .....118

Table 27: Recommended bike lanes .....119

Table 28: Recommended cycletracks ..... 120

Table 29: Recommended shared lane markings ("sharrows") ..... 120

Table 30: Recommended neighborhood greenways..... 120

Table 31: Recommended signed bike routes .....121

Table 32: Recommended shared use paths ..... 122

Table 33: Planning level costs for signed bike route (add signs) ..... 124

Table 34: Planning level costs for sharrows (no major action) ..... 124

Table 35: Planning level costs for bike lanes (no major action)..... 125

Table 36: Planning level costs for bike lanes (lane diet)..... 125

Table 37: Planning level costs for bike lanes (road diet) ..... 126

Table 38: Planning level costs for climbing lanes (lane diet)..... 126

Table 39: Planning level costs for bike lanes (widen road).....127

Table 40: Planning level costs for buffered bike lanes (lane diet) .....127

Table 41: Planning level costs for sidewalks (widen existing) ..... 128

Table 42: Planning level costs for sidewalks (construct new) ..... 129

Table 43: Planning level costs for shared use path (widen existing)..... 129

Table 44: Planning level costs for shared use path (construct new).....130

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Table 45: Planning level costs for one way cycletrack .....130  
 Table 46: Planning level costs for two way cycletrack..... 131

List of Figures

Figure 1: Commute mode share for Wauwatosa and Milwaukee ..... 10  
 Figure 2: Map of existing bicycle network..... 12  
 Figure 3: Attitudes of Portland residents toward bicycling..... 22  
 Figure 4: Map of latent bicycle demand in Wauwatosa ..... 25  
 Figure 5: Map of existing and proposed bicycle facilities..... 45  
 Figure 6: Latent Pedestrian Demand Heat Map..... 56  
 Figure 7: Map of proposed sidewalk priorities and missing sidewalks ..... 68  
 Figure 8: Map of routes entered in online interactive map ..... 95  
 Figure 9: Map of points entered in online interactive map ..... 96  
 Figure 10: Trails and bicycle routes in Milwaukee County ..... 105  
 Figure 11: Existing & Planned Bike and Pedestrian Facilities ..... 111

Acknowledgements

City of Wauwatosa

- Kathleen Ehley, Mayor
- Paulette Enders, Development Director
- Jen Ferguson, Assistant Planner
- Alan Kesner, City Attorney
- Jeff Roznowski, Wauwatosa Alder (Served on Steering Committee)
- John Ruggini, Finance Director (Served on Steering Committee)
- Jason Wilke, Wauwatosa Alder (Served on Steering Committee)
- Bill Wehrley, City Engineer (Served on Steering Committee)

Bicycle & Pedestrian Facilities Plan Steering Committee (listed alphabetically)

- Courtney Christiansen, Public Health Nurse
- Ed Haydin, Resident
- Sue Javoroksi, Public Health Nurse
- Sarah Lerand, Resident
- Craig Maher, Resident
- Alex Ng, Resident
- Jim Plaisted, Resident, Village BID
- Janelle Pudenz, Wauwatosa School District
- Tom Schuler, Resident
- Tim Sharpee / Don Semega, Wauwatosa Police Department
- Barbara Stanton, Resident
- Jon Stolz, Resident
- Sarah Toomsen, Milwaukee County Parks

Others

- Gary Metz, Resident
- Chris Squires, Wisconsin DOT

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

## Executive Summary

### Purpose

The City of Wauwatosa is making strides toward becoming a better place to walk and ride a bike. The City's compact size and grid street layout in much of the City provide potential for Wauwatosa to be a great place for bicycling and walking. Paths and trails—including the Hank Aaron State Trail, the Oak Leaf Trail, and paths along the Menomonee River and through the County Grounds—provide connections to nearby areas and recreational and transportation routes that are appropriate for all ages and abilities. At the same time, there ~~are improvements that could be undertaken. are key challenges to address.~~ Major highways and streets, including Highway 45, Mayfair Road, Blue Mound Road, and others, ~~can present obstacles are barriers~~ to people traveling on foot or by bike. ~~Many of the neighborhoods west of Mayfair Road lack sidewalks.~~ The Menomonee River, while presenting opportunities for paths and recreation, also divides the City.

The purpose of this plan is to ~~build upon the City's strengths while facilitating additional address these and other challenges facing~~ bicycling and walking ~~opportunities~~ in Wauwatosa ~~while building on the City's strengths.~~ The City's Comprehensive Plan states that "the goal of enhancing the walk-ability and bike-ability of the city stands out as being one of the most universally agreed upon themes of the comprehensive planning process." This plan makes the case for why bicycling and walking are important for a vibrant community and provides a vision for bicycling and walking in Wauwatosa. Goals ~~and objectives, policies, and specific~~ recommendations are provided to build on Wauwatosa's existing bicycle and pedestrian network, and to provide education and encouragement programs to ~~facilitate~~ increase bicycling and walking. By undertaking this planning process, the City has demonstrated its commitment to improving bicycling and walking conditions for its residents and visitors.

### Vision & Goals

A community must know what it is hoping to achieve when planning its future. The vision and goals below demonstrate specific steps that the City of Wauwatosa hopes to undertake and achieve through the Bicycle & Pedestrian Facilities Plan. In addition to the vision and goals, ~~recommendations, specific objectives and policies~~ have been developed. The *Vision* provides an overarching theme for what is hoped to be achieved through this plan:

*Wauwatosa will ~~continue to be attractive as a healthy, safe, and livable community because it facilitates establishes bicycling~~ facilitates bicycling and walking as ~~viable~~ travel and recreation options for residents, visitors, and businesses. Bicycling and walking will be integral components of quality of life, economic development, and accessibility features of the city.*

*Goals* are broad statements that express general priorities. Goals are based on the identification of key issues ~~and opportunities and constraints~~ for bicycling and walking in Wauwatosa:

*Provide a clearly labeled, interconnected network of bicycle and pedestrian facilities that meets the transportation and recreational needs of Wauwatosa residents and visitors. The network should link neighborhoods, schools, parks, employment centers, commercial areas and surrounding communities.*

*Increase the bicycle commute mode share to 2% by 2016 and 4% by 2020.*

*Increase the walking commute mode share to 5% by 2016 and 7% by 2020.*

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

*Increase bicycle and pedestrian safety through education and enforcement efforts targeted at high-risk activities by all types of road users. These efforts should not only reduce the number of crashes, but also increase all road users' confidence and perception of safety.*

*Be nationally recognized as a bicycle- and pedestrian-friendly community.*

~~The Recommendations in this Plan Objectives~~ are more specific than goals and are usually attainable through strategic planning and implementation activities. Implementation of a ~~recommendation objective~~ should contribute to the fulfillment of a goal. ~~Policies are~~ Following the recommendation, specific actions that can be taken by a specific group, agency, department, or organization to achieve ~~an objective, and through that, a goal~~ the recommendation are discussed. The Plan's ~~recommendations objectives and policies~~ are included in Chapters 3, 4, and 5. ~~of the complete plan~~

The Vision, Goals, ~~and Recommendations Objectives, and Policies~~ were developed based on input from the Plan Steering Committee, public input, and other common goals and objectives of bicycle and pedestrian plans.

**Proposed Bicycle and Pedestrian Facilities**

This plan includes comprehensive recommendations for ~~enhancing increasing~~ the bikeway and pedestrian networks in Wauwatosa. If fully implemented, the bikeway network will expand from approximately 17 miles of facilities, to slightly over 109 miles as detailed in the table below.

| Facility               | Existing*                     | Proposed                      | Total                           |
|------------------------|-------------------------------|-------------------------------|---------------------------------|
| Bike Lanes             | <del>3.3</del> <u>10.95</u>   | <del>4.1</del> <u>2643.14</u> | <del>44</del> <u>5754.09</u>    |
| Cycle Tracks           | 0.00                          | 0.03                          | 0.03                            |
| Neighborhood Greenways | 0.00                          | 20.96                         | 20.96                           |
| Shared Lane Markings   | 0.00                          | <del>3</del> <u>753.52</u>    | <del>3</del> <u>753.52</u>      |
| Signed Bike Routes     | 0.00                          | 3.59                          | 3.59                            |
| Shared Use Paths       | 14.15                         | <del>22.1</del> <u>123.97</u> | <del>36</del> <u>2638.12</u>    |
| <b>Total</b>           | <del>17.4</del> <u>625.10</u> | <del>91.7</del> <u>995.18</u> | <del>109.1</del> <u>6120.28</u> |

\* Miles of existing facilities are approximate

The plan also calls for installing approximately 22 miles of ~~high priority sidewalks, pedestrian facilities~~, primarily surrounding schools and along major streets.

| Sidewalks                       | Miles                    |
|---------------------------------|--------------------------|
| New Installation, High-Priority | <del>22</del> <u>63</u>  |
| New Installation, Low-Priority  | <del>114</del> <u>66</u> |

Using broad planning-level costs, it is estimated that implementing these facility recommendations would incur the following costs:

| Facility   | Low Estimate | Median Estimate | High Estimate |
|--|--------------|-----------------|---------------|
| On-Street Bike Facilities                                | -            | \$2,732,000     | -             |
| Off-Street Bike Facilities                               | -            | \$10,914,000    | -             |
| Grade-Separated Crossings                                | \$3,350,000  | -               | \$9,050,000   |
| <del>High-Priority Sidewalks Pedestrian Facilities</del> | \$4,480,000  | -               | \$8,960,000   |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

The costs noted above should only be used for general planning purposes; actual project costs will be determined by a variety of factors determined during project scoping and design.

### Key Recommendations

The following ~~key~~ recommendations are provided for this plan., The consideration of all recommendations will take into account zoning and potential future zoning changes, development market and economic conditions, and community input provided during the public involvement processes associated with land and infrastructure development. Additional public input will also occur during the Capital Improvements Program (CIP) and budget processes. The Common Council determines project and infrastructure approvals.

#### *General Recommendations*

- ~~• Formally adopt this plan and encourage all City departments to work toward implementation.~~
- ~~• Form a standing Bicycle and Pedestrian Committee to pursue implementation of this plan and provide input and recommendations for bicycle and pedestrian projects and issues in Wauwatosa.~~
- ~~• Adopt a complete streets policy to help ensure that bicycle and pedestrian accommodations are considered with all future projects.~~

#### *Near-term Bicycle Facility Recommendations* ~~Priorities~~

The following priority projects are included in Section 3.8.

- **Menomonee River Parkway Path and Bike Lanes:** The County is in the process of developing a design for reconstructing much of the Menomonee River Parkway in 2014 and 2015. The City should strongly encourage the County to include a shared use path from Swan Boulevard to West Congress Street. The reconstructed parkway should also include on-street bicycle facilities.
- **The Neighborhood Greenway Network:** The proposed network of neighborhood greenways can be implemented at low cost with simple signage and street markings. The neighborhood greenways will provide a network of quiet neighborhood streets that provide connections throughout much of the city.
- **Shared-lane Markings:** Shared lane markings are a low-cost, easy to implement bikeway facility.
- **Low-LOE Bike Lanes:** Many of the bicycle lanes proposed in this plan simply require restriping the existing street. These low level-of-effort bike lanes ~~can~~should be can be implemented in the near term.
- **Wayfinding Signs:** Section 3.4.6 discusses providing wayfinding signs for the bicycle network in Wauwatosa. The wayfinding system should be well thought out and should expand as the bicycle network expands. A system of wayfinding signs should be put in place after basic expansion of the bicycle network has occurred.

#### *Near-term Pedestrian Facility Recommendations* ~~Priorities~~

The following potential priority facility projects are included in Section 4.8.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

- **Areas near schools:** Many areas proximate to schools should have adequate ~~lack sidewalks or other~~ pedestrian facilities. ~~Sidewalks should be installed wherever they are missing~~ within two blocks of schools, in particular near Underwood Elementary, Eisenhower Elementary, Madison Elementary, Whitman Middle, and West High. Additionally, a safe route between McKinley School neighborhood and Whitman School neighborhood. [NOTE: The solution will be studied in detail using the Safe Routes to School planning grant awarded by WisDOT to the City and McKinley School and will include participation of all stakeholders. All options will be explored including paths along North Avenue, Burleigh Street, and Menomonee River Parkway.]
- **Mayfair Road:** ~~Install sidewalk where it is missing o~~n one side of the street north of North Avenue to nearly the northern limit of the city.
- **124<sup>th</sup> Street:** ~~Install sidewalk where it is missing o~~n the Wauwatosa side of the street from south of Watertown Plank Road to nearly the northern limits of the city. ~~Sidewalks should also be installed where they are missing on the west side of the street in Brookfield and Elm Grove.~~
- **116<sup>th</sup>/115<sup>th</sup> Streets:** These streets are an important north-south connection from Center Avenue to the southern city limits and connect school areas, denser multifamily housing, parks, and other attractions. ~~Sidewalks should be installed on both sides of these streets where it is missing.~~
- **Center Street:** ~~Install sidewalk where it is missing o~~n the south side of the street from Mayfair Road to 124<sup>th</sup> Street.
- **Burleigh Street:** ~~Install sidewalk where it is missing o~~n the south side of the street from Highway 100 to the eastern city limit.
- **Watertown Plank Road:** ~~Install sidewalk o~~n the north side of the street where it is missing from Highway 45 to Elm Lawn Street.
- **Wisconsin Avenue:** ~~Install missing sidewalk f~~rom Highway 100 to 90<sup>th</sup> Street.
- **Parkways:** ~~All three of the Milwaukee County parkways located in Wauwatosa largely lack sidewalk or path facilities. All three of the parkways should have a walking facility of some sort – a sidewalk or a path in lieu of a sidewalk on one side of the street at minimum.~~
- There is a section of the Menomonee River Parkway that has a path for a segment and a sidewalk. ~~All three of the parkways should have a walking facility of some sort – a sidewalk or a path in lieu of a sidewalk on one side of the street at minimum.~~

## 1 | Plan Overview

### 1.1 | Purpose

The City of Wauwatosa has the potential of becoming one of the top cities in the state for bicycling and walking. It is already making strides toward becoming a better place to walk and ride a bike. In 2012, the City decided to take another step by beginning the development of its first bicycle and pedestrian plan. The City's compact size and grid street layout in much of the City provide potential for Wauwatosa to be a great place for bicycling and walking. Businesses, schools and the "Village" are within easy walking distances of many neighborhoods. Paths and trails—including the Hank Aaron State Trail, the Oak Leaf Trail, and paths along the Menomonee River and through the County Grounds—provide connections to nearby areas and recreational and transportation routes that are appropriate for all ages and abilities. At the same time, there are key challengesobstacles to address. Major highways and streets, including Highway 45, Mayfair Road, ~~Bluemound~~ Blue Mound Road, and others, are barriers sometimes obstacles can present difficulties to people traveling on foot or by bike. Many of the neighborhoods west of Mayfair Road lack sidewalks. The Menomonee River, while presenting opportunities as a terrific natural asset for ~~paths and~~ recreation, also tends to separatedivides the City.

The City is not starting from scratch. The purpose of this plan is to build upon the many strengths that the City already has and to develop an approach into a coherent and manageable plan and approach to address future conditions. address these and other challenges facing bicycling and walking in Wauwatosa while building on the City's strengths. The City's Comprehensive Plan states that "the goal of enhancing the walk-ability and bike-ability of the City stands out as being one of the most universally agreed upon themes of the comprehensive planning process." This plan makes the case for why bicycling and walking are important for a vibrant community and provides a vision for bicycling and walking in Wauwatosa. Goals, ~~objectives, policies,~~ and specific recommendations are provided to build on Wauwatosa's existing bicycle and pedestrian network, and to provide education and encouragement programs to increase facilitate bicycling and walking. By undertaking this planning process, the City has demonstrated its commitment to improving bicycling and walking conditions for its residents and visitors.

## 1.2 | The Case for Bicycling and Walking

Cities across the country are embracing bicycling and walking as viable transportation modes and as means to support and achieve multiple objectives including: economic development, maximizing transportation investments, improving public health, addressing transportation equity, and reducing environmental impacts. In addition, many households are growing more interested in leading car-free or “car-light” lifestyles, especially as fuel costs continue to rise and appreciation increases for the health benefits of active transportation. There is great interest among citizens and stakeholders in pursuing development and transportation solutions that are more sustainable – meaning less costly to maintain over time, less polluting and more equitable.

The bicycle is increasingly seen as a key component of sustainable transportation systems. Bicycling is by far one of the cheapest transportation modes for municipalities and other government agencies to support. In many cases, bicycle facilities utilize existing roadway space and only require relatively low-cost pavement markings and/or signage. Often touted as the world’s most efficient machine, the bicycle also has a much smaller impact on household transportation costs compared to automobiles and transit.

Similarly, improving walkability is a high priority in many communities across the nation, especially those that are undergoing periods of redevelopment and revitalization. Walkable neighborhoods and districts typically boast lower crime rates, improved public health, increased economic activity, higher property values, and higher levels of community interaction.

These trends, described in more detail in the following pages, support implementation of this plan.

### 1.2.1 | Economic Vitality

Active transportation—biking and walking—positively impacts economic vitality on three scales: the City, the neighborhood, and the household.

#### *The City*

In many industries the competition for workers is place-based; people are choosing employers not just on salary and traditional benefits, but on external criteria such as lifestyle and quality of life. In today’s global economy, the ability to attract business—and business’s ability to attract employees—depends on the livability index of the community, which is composed of five factors:

1. Low crime
2. Good schools
3. Easy commutes
4. Close-to-home recreation
5. A friendly and open social environment

A bicycle-friendly road system and extensive path system is central to items 3, 4, and 5 on this list. The “knowledge workers” of today and tomorrow’s businesses want healthy and sustainable lifestyles, of which daily bicycling is a part. Cities that are making investments to become more walkable and bikeable are seeing dividends in the form of attracting new residents and employers.

#### *The Neighborhood*

Investing in bicycle and pedestrian infrastructure is a key strategy for revitalizing and improving neighborhoods. These investments improve access to businesses, make streets more attractive to a broader range of users,

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

increase neighborhood livability by increasing social interaction and perceptions of personal safety and reducing vehicle congestion. Improving bicycle and pedestrian connectivity to established neighborhoods also supports the redevelopment and creation of mixed-use districts and provide safe routes to schools.

### *The Household*

According to the League of American Bicyclists, a motor vehicle is the second-highest household expense in the United States, after housing. In Wauwatosa, approximately six percent of households report not owning a car while 56 percent report owning two or more cars.<sup>1</sup> The American Automobile Association estimates that Americans spend on average \$8,485 each year to own and operate a car.<sup>2</sup> It is estimated that about \$7,000 of this leaves the local economy (through fuel purchases, insurance fees, etc.) while the remainder stays (through taxes, maintenance, registration, etc.). In a period of high-variability in the cost of fuel, bicycling offers a lower-cost transportation option. Compared with vehicle ownership and use, bicycling has an annual operating cost less than four percent of average car operating costs.<sup>3</sup> Providing transportation choices can give households the option of owning fewer cars, thus freeing up more household money that can be spent in the local economy.

### 1.2.2 | Health

The Centers for Disease Control and Prevention recommends two and a half hours of moderate-intensity aerobic activity every week, which is equivalent to 10 minutes of brisk walking, three times per day, five days per week.<sup>4</sup> Adults who are physically active are healthier and less likely to develop many chronic diseases that are more common amongst inactive adults. In young people, there are nearly twice as many overweight children and almost three times as many overweight adolescents in the U.S. today as there were in 1980. Expanded and improved bicycle and pedestrian facilities and support programs enable children, adolescents, and adults to get exercise as a part of their daily transportation routines. The health benefits of active transportation have also been shown to include increased labor productivity amongst adults and improved academic performance for youth.

### 1.2.3 | Transportation Choice

Improving bicycling and walking conditions will expand transportation choices for the entire community. For those on low or fixed incomes, biking and walking may provide a supplement to public transit. Many people cannot drive because they are too young, have a physical disability, or do not have the economic resources to own and operate a car. Some of these people can bicycle or walk if safe and convenient bikeways and sidewalks are present. Biking and walking may also be options for the elderly who reach an age where driving is no longer an option. Older adults still need to travel to the grocery store, to medical appointments, and to access recreational opportunities. Improvements to bicycling and walking conditions make it easier for Wauwatosa's residents to age-in-place, while also lowering transportation costs.

Transit access is also important for people of all ages. Well-developed bicycle and pedestrian systems expand the reach of transit systems. Providing safe and convenient facilities, such as bike lanes, sidewalks, and shared use paths increase the service radius of a transit stop or station, particularly where distances between stops are great.

1 U.S. Census Bureau; American Community Survey, 2010 American Community Survey 5-Year Estimates. Table B08201. Generated by Kevin Luecke using American FactFinder <http://factfinder2.census.gov>. August 6, 2013.

2 The American Automobile Association reports the average annual cost of owning a sedan to be \$9,000 per year in 2012; an SUV is over \$11,000. <http://newsroom.aaa.com/2012/04/cost-of-owning-andoperating-vehicle-in-u-s-increased-1-9-percent-according-to-aaa%E2%80%99s-2012-%E2%80%99yourdriving-costs%E2%80%99-study/>

3 "Pedaling to Prosperity." The Sierra Club. [http://www.sierraclub.org/pressroom/downloads/BikeMonth\\_Factsheet\\_0512.pdf](http://www.sierraclub.org/pressroom/downloads/BikeMonth_Factsheet_0512.pdf)

4 Centers for Disease Control and Prevention, How Much Physical Activity do Adults Need? <http://www.cdc.gov/physicalactivity/everyone/guidelines/adults.html> accessed 8/7/13

### 1.2.4 | Recreation

Creating a citywide network of bikeways with connectivity to surrounding municipalities increases the opportunities for close-to-home, affordable recreation for people of all ages by enhancing access to the City's and Milwaukee County's many public parks and other recreational venues. Completing shared use paths along the County parkways, especially the Menomonee River Parkway, provide an excellent recreation opportunity for cyclists and pedestrians. Biking, walking, and jogging along parkway paths are great ways to de-stress, exercise, and experience nature.

### 1.2.5 | Building Community & Public Safety

It cannot be underestimated what bicycling contributes to building community and promoting public safety. Building a strong sense of community is dependent on knowing your neighbors and meeting the people who live on the next block or in the next neighborhood. A community that bicycles and walks will significantly increase the social interactions that create these bonds. More bicycling also means more eyes on the streets and on the paths. The best deterrent to crime is the active presence of people in the public realm who are engaged in constructive activities. This is especially true for issues related to youth crime and gangs, which seek to mark territory and control public space as a sign of their power and presence.

### 1.2.6 | Environment

Bicycling and walking are not the only solutions to environmental issues like air pollution and climate change, but they can make meaningful contributions to solving these problems. Increased levels of bicycling and walking reduce fossil fuel consumption, air pollution, and carbon emissions. While every car trip cannot be replaced with a non-motorized trip, every trip made by bike or on foot does reduce pollution, especially when the trip covers a short distance. Based upon research conducted by the U.S. Environmental Protection Agency, it is estimated that up to 80% of the pollution created by automobiles is emitted in the first few minutes of operation, before pollution control devices begin to work effectively.<sup>5</sup>

### 1.2.7 | Traffic Congestion & Safety

Bicycling can have an impact on local traffic congestion. On average, around one-third of all daily trips are less than three miles in length, a distance covered by bicycle in fifteen to twenty minutes. Most of these trips are made by automobile, in part due to a lack of walking and bicycling facilities that are perceived to be safe. Improved bicycling conditions can reduce congestion by providing the option to travel by bicycle for shopping, running errands, visiting friends, and commuting to work or school. At certain times of day, there may be little difference in the time it takes to make a short trip by bicycle or by car, and bicycling may save time and money.

Safe, clear, and consistent accommodations for cyclists enhance safety for all street users. Interestingly, more people bicycling and walking will likely increase traffic safety for these groups. For example, bicycle lanes provide cyclists clear guidance and more confidence about riding in the street, and also give motorists information about where to expect bikes. When entering a street with bike lanes from a side street or driveway, bike lanes provide better sight distance for motorists watching for oncoming traffic. Research undertaken by the Alliance for Biking and Walking shows that areas with more bicycling trips per capita have a lower frequency of bicycle/motor vehicle

<sup>5</sup> Catalysts for the Control of Automotive Cold Start Emissions, United States Environmental Protection Agency, [http://cfpub.epa.gov/ncer\\_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1450/report/0](http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/display.abstractDetail/abstract/1450/report/0) Accessed 8/8/13

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

crashes than areas with lower numbers of bicycling trips per capita; when bicyclists are encountered more frequently on streets, motorists become more accustomed to sharing the road with them.<sup>6</sup>

### 1.3 | Public Involvement

Public participation is a critical part of any successful planning effort in order to ensure that the plan meets the needs and desires of the public. Public participation in the planning process is especially important in Wauwatosa where many members of the public are actively engaged in bicycling and walking issues. Public participation and feedback for this plan was primarily solicited through three channels: a Plan Steering Committee, two open houses, and a website that allowed participants to comment on bicycling and walking in the community.

#### 1.3.1 | Bicycle & Pedestrian Facilities Plan Steering Committee

A Plan Steering Committee was formed at the beginning of the planning process. The Committee was made up of City staff, alders, and local residents actively involved in walking and bicycling issues and representing a broad range of interests. The Committee was specifically chosen to represent both walking and bicycling and to involve members from multiple neighborhoods in Wauwatosa. The Plan Steering Committee met five times over the course of the planning process to provide direction for the plan, provide local input and expertise, and review draft plan documents. The Committee meetings were open to the public.

#### 1.3.2 | Public Open Houses

Two open houses were held to present information to the public and solicit feedback. The first open house was held Wednesday, May 1 at Fire Station #1. The meeting was attended by more than 50 people. Displays were provided that described the different types of bicycle and pedestrian facilities that could be included in the Plan recommendations, showed existing bicycle facilities in Wauwatosa, and provided an overview of the planning process. A brief presentation described the planning process and a question-and-answer session was held to address specific issues and inquiries raised by the public. Comments and questions were wide-ranging, but specific themes were identified:

- **The Menomonee River Parkway:** The Menomonee River Parkway has the potential to be a fantastic community resource, but it currently is in poor condition. Poor pavement conditions and high traffic volumes make many people leery of bicycling on the Parkway, while a lack of pedestrian accommodations between North Swan Boulevard and West Congress Street make the Parkway undesirable for pedestrian use. The Parkway will be reconstructed within the next few years.

**Access to schools:** Access to schools can be difficult on foot or on bike; this is particularly true for Wauwatosa West High School and Whitman Middle School. Many students have to cross the Menomonee River, North Mayfair Road, railroad tracks, and/or the Highway 45 to travel to school from their homes. Accessibility issues also exist around other schools throughout the city, including a safe route between McKinley School neighborhood and Whitman School neighborhood. [NOTE: The solution options will be studied in detail using the Safe Routes to School planning grant awarded by WisDOT to the City and McKinley School and will include participation of all stakeholders. All options will be explored including paths along North Avenue, Burleigh Street, and Menomonee River Parkway.]

<sup>6</sup> *Bicycling and Walking in the United States: 2012 Benchmarking Report*, Alliance for Biking and Walking, 2012

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

- **Signs and street markings:** An opportunity exists to improve bicycling conditions in Wauwatosa by adding wayfinding signs and street markings (bikes lanes, sharrows, or others) to many parts of the city. Many of these treatments are relatively low cost and could be implemented in a short timeframe.
- **Connectivity:** Much of the city has a grid street network that provides good connectivity for pedestrians, bicyclists, and motorists. However, major ~~features barriers~~ (including rail lines, freeways, major streets, and the Menomonee River) can limit the connectivity in many parts of the city. Providing bicycle and pedestrian links across some of these ~~barriers~~ would make walking and bicycling much easier in Wauwatosa.

A summary of public comments is provided in Appendix A.

### 1.3.3 | Interactive Online Map

An interactive online map was available for public use and comment from mid-March through the end of June, 2013. The map allowed users to note locations where they walk or bike and provide specific comments on the route or location. Over 130 people provided 720 total comments about locations that need improvements, difficult street crossings, key bicycle destinations, and other factors relating to walking and bicycling.

A summary of the comments received through the interactive map are provided in Appendix A.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

## 1.4 | Vision & Goals

A community must know what it is hoping to achieve when planning its future. The vision and goals below demonstrate specific steps that the City of Wauwatosa hopes to undertake and achieve through the Bicycle & Pedestrian Facilities Plan. In addition to the vision and goals, specific objectives and policies have been developed. Each of these items has a specific purpose:

- The *Vision* provides an overarching theme for what is hoped to be achieved through this plan.
  - *Goals* are broad statements that express general priorities. Goals are based on the identification of key issues, opportunities and constraints for bicycling and walking in Wauwatosa.
  - ~~Recommendations Objectives~~ are more specific than goals and are usually attainable through strategic planning and implementation activities. Implementation of an ~~recommendation objective~~ should recommendation should contribute to the fulfillment of a goal.
- ~~Policies are Included with the recommendations are~~ specific actions that can be taken by a specific group, agency, department, or organization to achieve an ~~objective recommendation~~, and through that, a goal.

The Vision, Goals, ~~and Recommendations Objectives, and Policies~~ were developed based on input from the Plan Steering Committee, public input, and other common goals ~~and objectives~~ of bicycle and pedestrian plans. The Plan's ~~recommendations objectives and policies~~ are included in Chapters 3, 4, and 5.

### Vision

Wauwatosa will continue to be attractive as a healthy, safe, and livable community because it ~~facilitates establishes bicycling facilitates bicycling~~ and walking as ~~viable~~ travel and recreation options for residents, visitors, and businesses. Bicycling and walking will be integral components of quality of life, economic development, and accessibility features of the city.

### Goals

Provide a clearly labeled, interconnected network of bicycle and pedestrian facilities that meets the transportation and recreational needs of Wauwatosa residents and visitors. The network should link neighborhoods, schools, parks, employment centers, commercial areas and surrounding communities.

Increase the bicycle commute mode share to 2% by 2016 and 4% by 2020.

Increase the walking commute mode share to 5% by 2016 and 7% by 2020.

Increase bicycle and pedestrian safety through education and enforcement efforts targeted at high-risk activities by all types of road users. These efforts should not only reduce the number of crashes, but also increase all road users' confidence and perception of safety.

Be nationally recognized as a bicycle- and pedestrian-friendly community.

Achievement of these goals will move Wauwatosa toward achieving the Plan's vision of being a healthy, safe, and livable community where bicycling and walking are common activities.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

---

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## 2 | Existing Conditions

### 2.1 | Regional Context

Wauwatosa is a picturesque city located just west of and adjacent to the City of Milwaukee. It has a rich history spanning two centuries: the original township was founded in 1835, the Village was incorporated in 1892, and the current City of Wauwatosa was incorporated in 1897.<sup>7</sup> Known as the “City of Homes,” Wauwatosa has beautiful, vibrant, and historic neighborhoods that feature a variety of architecturally distinct houses; this can largely be attributed to the fact that it was the second city in Wisconsin to adopt a zoning ordinance (in 1921).<sup>8</sup> Much of the community, especially the portion east of the Menomonee River, was developed prior to the Second World War and consists of compact development patterns and a grid street network which supports biking and walking. Wauwatosa’s most prominent physical feature is the Menomonee River and its associated riparian forest and floodplain. These features comprise the Menomonee River Parkway, which bisects the city on a north-south axis and is part of Milwaukee County’s historic parkway system.

Today, Wauwatosa is a community of 46,396 inhabitants spread across 13.25 square miles of land.<sup>9</sup> Although the city’s peak population was recorded as 58,676 in the 1970 Census, it is estimated that the community has experienced minor levels of population growth over the last few years. Wauwatosa has a strong economy with several manufacturing firms (including Harley-Davidson and Briggs & Stratton) and a blossoming medical research and development industry. The median household income is approximately \$15,000 more than Wisconsin as a whole; just over five percent of the population is below poverty level. Retail sales per capita are nearly twice the statewide average, which is at least partially due to Mayfair Mall, a large regional shopping center located within the city.

#### 2.1.1 | Mode Share

The primary source for determining the percentage of Wauwatosa residents that ride a bike or walk on a regular basis (that is, the community’s mode share) is the American Community Survey (ACS), which is administered by the U.S. Census Bureau on an ongoing basis. The survey asks “thinking about the previous week, what was your *primary* mode of transportation to work?” The question and survey present some issues with accurately monitoring mode share:

- If someone drove to work three days out of the week and biked the other two days, they are recorded only as driving to work.
- The weather can strongly impact results from year to year.
- The data only represents trips to work, which are a small percentage of the total number of trips people typically make in a week, and ignores trips to a restaurant, park, playground, or school.

Despite these drawbacks, ACS data is one of the best resources available for determining mode share because the survey is carried in the same format for all municipalities from year to year. Figure 1 compares the commute mode share of the cities of Wauwatosa and Milwaukee. Two goals of this plan are to increase the percentage of Wauwatosa’s bicycling and walking mode share.

<sup>7</sup> “About Wauwatosa.” City of Wauwatosa. <http://www.wauwatosa.net/index.aspx?nid=706>

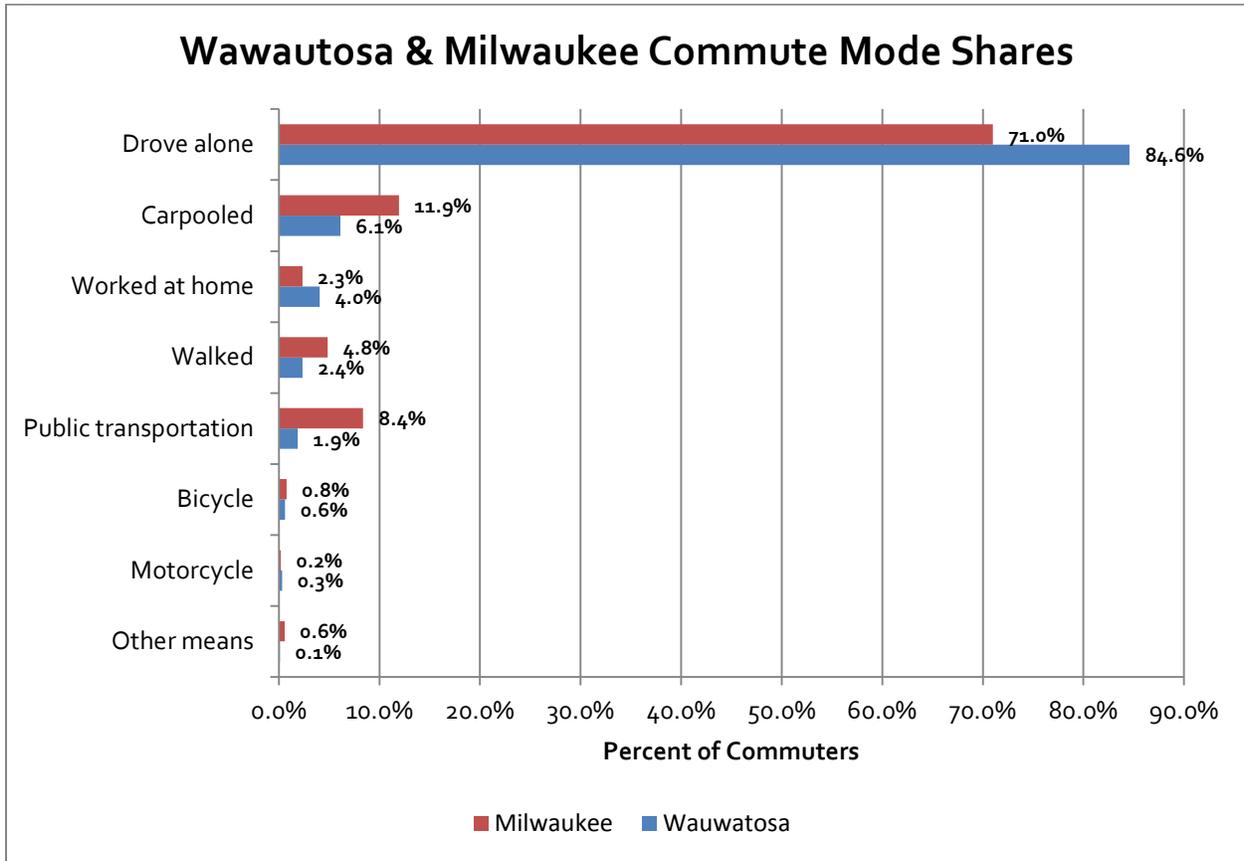
<sup>8</sup> Ibid.

<sup>9</sup> State and County QuickFacts. Wauwatosa, WI. 2012 Estimate, US Census Bureau. <http://quickfacts.census.gov/qfd/states/55/5584675.html>

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Figure 1: Commute mode share for Wauwatosa and Milwaukee<sup>10</sup>



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

<sup>10</sup> Source: Table B08301: Means of Transportation to Work. 2007 – 2011 American Community Survey 5-Year Estimates. United States Census Bureau.

## 2.2 | Bicycle Conditions

### 2.2.1 | Existing Bicycle Facilities

Existing bicycle facilities are displayed on Map 1 and are described below.

#### *Bike Lanes*

Currently, two streets in the City have bike lanes. Wauwatosa Avenue in the eastern portion of the city includes bike lanes north of West North Avenue. The typical cross-section of Wauwatosa Avenue includes two through lanes (one lane in each direction) flanked by bike lanes on each side with parking lanes against the curbs. This street was reconfigured in the recent past in order to add the two bike lanes. The light color of the pavement makes the white pavement markings difficult to see in many instances. Bike lanes also exist along West Center Street from the Menomonee River Parkway east into Milwaukee. Most of West Center Street is located within Milwaukee, with the exception of a portion between 76<sup>th</sup> Street and Lefebber Avenue. The typical cross-section of West Center Street includes 11' through lanes (one lane in each direction) flanked by 5.5' bike lanes with 7' parking lanes against the curbs. Bike lanes will be included with projects that are currently underway on West Watertown Plank Road from North Mayfair Road to approximately Harwood Avenue, and on North Glenview Avenue from West Blue Mound Road to Harwood Avenue.

#### *Shared-Use Paths*

In Wauwatosa, shared use paths are most commonly located along parkways. Along the Menomonee River Parkway, shared use paths exist north of West Congress Street, between Swan Boulevard and North 68<sup>th</sup> Street (passing through the Village), and east of North 66<sup>th</sup> Street. These segments are designated as parts of the Oak Leaf Trail, which is a network of 114 miles of bikeways consisting of paved shared use paths, park drives, and municipal streets. The Oak Leaf Trail provides connections throughout Milwaukee County and is owned and managed by the Milwaukee County Parks Department. Two gaps – one small (approximately 0.4 miles) and one large (3.5 miles) – break the continuity of shared use paths along this parkway. Also designated as part of the Oak Leaf Trail, a shared use path follows the Underwood Creek Parkway from North 115<sup>th</sup> Street east to the Underwood Creek Parkway. The Honey Creek Parkway does not currently contain any shared use paths.

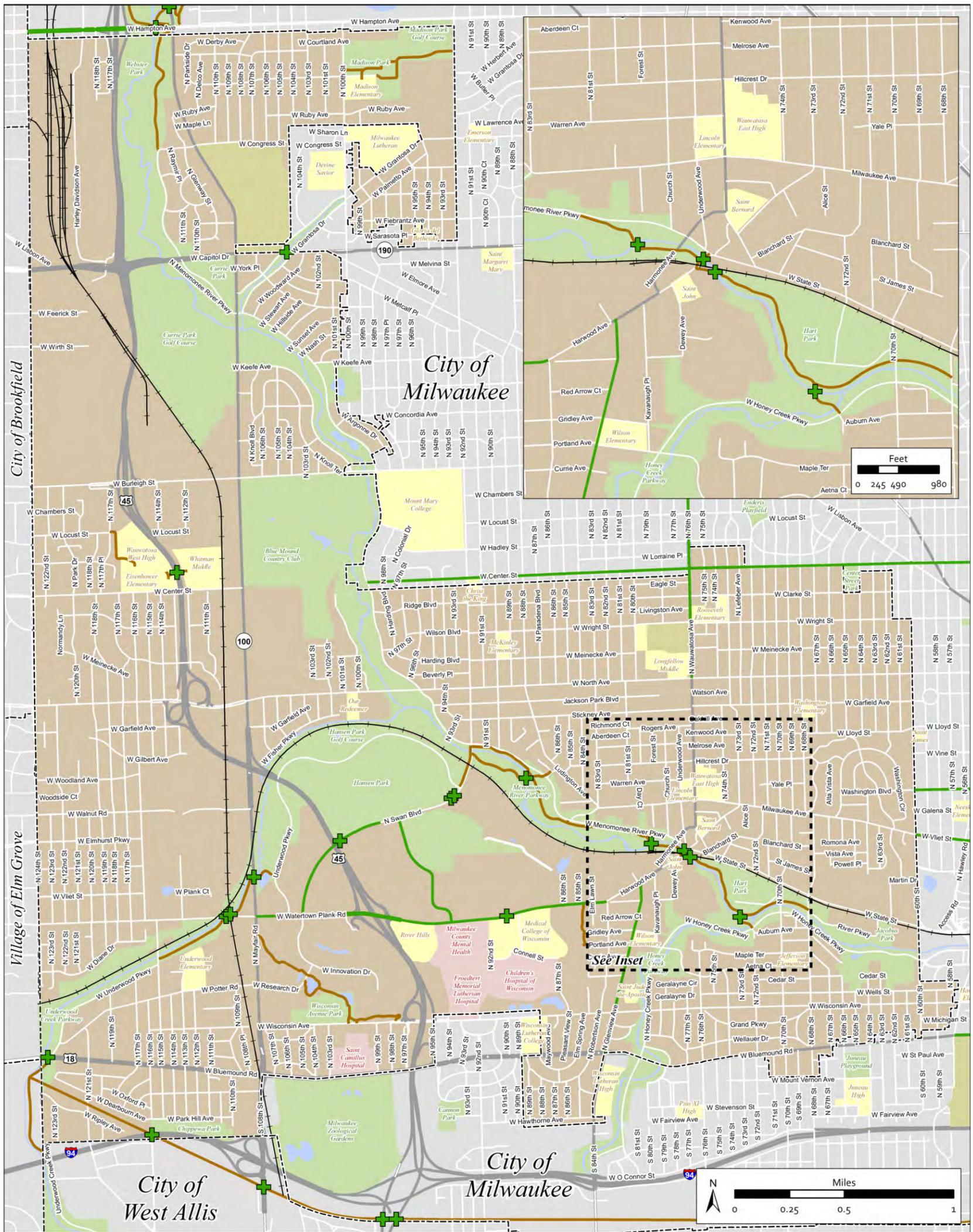
Wauwatosa is the western terminus of the Hank Aaron State Trail, which runs approximately 12 miles east from North 124<sup>th</sup> Street and Blue Mound Road to Lakeshore State Park in Milwaukee. Also beginning at the intersection of North 124<sup>th</sup> Street and Blue Mound Road is a major spur of the Oak Leaf Trail which runs north and east through the Village and connects Wauwatosa to Milwaukee. Just to the north of Miller Park it reconnects to the northern spur of the Hank Aaron State Trail. This serves as an important link for the Milwaukee County Oak Leaf Trail system, completing a set of loops around Milwaukee County.

In addition to the aforementioned shared use paths that create regional connections, smaller shared use paths connect neighborhoods within Wauwatosa. The Madison Park Path crosses through the park, connecting North 100<sup>th</sup> Street near West Glendale Avenue to North 92<sup>nd</sup> Street north of the Luther Manor retirement community. Internal circulator paths also exist within the Milwaukee County Research Park (this shared use path provides a cross-connection between North Mayfair Road and West Wisconsin Avenue) and the County Grounds Park. The paths within the County Grounds Park are unpaved and several are actually maintenance roads that allow bicycle and pedestrian use. Significant development is planned or currently underway within the County Grounds and bicycle and pedestrian accommodations will be included as part of this development.

Figure 2: Map of existing bicycle network

# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

## Map 1: DRAFT Existing Bicycle Network



### Legend

#### Land Use

- City of Wauwatosa
- Park / Golf Course
- School
- Hospital
- Cemetary
- Water

#### Bikeways (Existing)

- Bike Lane
- Shared Use Path
- Overpass / Underpass / Bridge

#### Other Symbols

- Railroad

### Existing Bikeway Network

This map displays existing bikeways in Wauwatosa.

On-street bikeways are relatively limited in the city, with bike lanes existing on just portions of North Wauwatosa Avenue and West Center Street.

The off-street bikeway network, comprised of shared use paths, is more robust. Paths that are part of the Milwaukee County Parks Oak Leaf Trail and the Hank Aaron State Trail make up the majority of the paths in the city, although other paths also connect throughout the city.

Data provided by Milwaukee County Land Information Office, the Wisconsin Department of Transportation, the U.S. Census Bureau and the Wisconsin Bike Fed. Plot date 01/27/2014.

*Page intentionally left blank.*

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

## 2.2.2 | Bicycle Opportunities

*Development Patterns & Major Destinations*

Wauwatosa is predominately laid out following traditional pre-war development patterns, including compact neighborhoods, strong connectivity between houses and commercial areas, and a grid street network (discussed in further detail in the following section). These development patterns, which are reflective of a time in history when households had at most one automobile and often had none at all, are much more conducive to biking than late 20<sup>th</sup> century suburban development patterns. This is largely due to the fact that when Wauwatosa's historic neighborhoods were built, its residents relied on the ability to walk or bike to get to work, buy groceries, or reach transit.

Major destinations in Wauwatosa include commercial districts, employment centers, and civic institutions such as parks, schools, and libraries.

The Mayfair Road and North Avenue commercial corridors contain many of Wauwatosa's shopping and dining destinations. These corridors combine to form a sideways tee that serves as a commercial spine for the City, resulting in most neighborhoods being within a half mile (easy biking and walking distance) of a commercial corridor. The East Tosa portion of North Avenue is the most vibrant and bike-friendly portion of either of these corridors. However, the Village is arguably the heart of Wauwatosa and is one of the community's most important commercial destinations. This district has several bike-friendly features, including a dense collection of shops, restaurants, and offices as well as a bicycle- and pedestrian-only bridge over the Menomonee River, connecting the Village to the shared use paths along the greenway. The City's 2008 Comprehensive Plan highlights several opportunities for redevelopment and revitalization in the community, including the Burleigh Street and State Street mixed-use redevelopment zones that can become important destinations for cyclists and pedestrians.

Wauwatosa's primary employment area is known as the Life Science Center. This large area actually includes three zones:

1. **University of Wisconsin-Milwaukee Innovation Campus:** This area is planned as a public-private research park, housing UWM's Engineering Graduate School and Institute for Industrial Innovation as well as private businesses and a residential component.
2. **Milwaukee County Research Park:** Home of Milwaukee County's major biomedical and information technology research and development corporations.
3. **Milwaukee Regional Medical Center:** This collection of hospitals, medical offices, and the Medical College of Wisconsin provide approximately 17,000 jobs, indirectly stimulate approximately 17,600 more jobs in the area, and in 2009 had a \$1.9 billion economic impact on the region.<sup>11</sup>

Innovation Campus and the Regional Medical Center both border the Menomonee River Parkway ~~and there are plans for the center (along with the Milwaukee County Research Park) to be linked by commuter rail~~. With thousands of workers traveling to this area every day, there is a significant opportunity to shift vehicular commutes to bike by providing safe and comfortable on-street bike facilities and shared use paths.

<sup>11</sup> Wauwatosa Innovation Parkway. Wauwatosa Economic Development Department. <http://wauwatosa.net/DocumentCenter/Home/View/784>

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

### *Grid Street Network*

Wauwatosa's grid street network is well suited for biking and walking. Grid street networks disperse traffic across many streets rather than concentrating high volumes of traffic on only a few streets. As such, they are more efficient and typically more comfortable for cyclists and pedestrians since they reduce the need for high-volume, multi-lane streets that would otherwise act as barriers. In addition, a grid street network provides the shortest possible routes between every "Point A" and every "Point B" in the community while also presenting a variety of route choices for each trip. In other words, a cyclist that is late for an appointment could choose the shortest route to her destination and then choose a more scenic route for the trip home. Finally, a grid street network facilitates the development of neighborhood greenways, which give priority to neighborhood traffic including bicyclists through low speed limits, speed cushions, and other traffic control measures. While cars are allowed on neighborhood greenways, their existing low speed limits encourages motorists to seek alternate, parallel routes resulting in most through-traffic being diverted to another street.

### *Parkways*

In 1923, a plan for a regional network of parks, parkways, golf courses, and other open spaces was developed by Charles B Whitnall.<sup>12</sup> Although this plan was not fully implemented, its legacy includes a number of parkways, many of which are considered eligible for the National Register of Historic Places. Of the three parkways traversing Wauwatosa, one is listed in the National Register (Honey Creek Parkway) and two are eligible for listing (Menomonee River Parkway and Underwood Creek Parkway). These parkways, as part of the Milwaukee County Park System, are great resources for the community. In addition to their aesthetic and environmental benefits, the parkways include streets and shared use paths that provide continuous linear routes for bicycling. However, the roads within the parkways do not have bike lanes and the pavement conditions are generally very poor.

Cycling along the Menomonee River Parkway is further challenged by high volumes of traffic. Some segments of this road experience up to 9,000 average daily trips (ADT), a significant amount. Further compounding the issue, a significant amount of peak condition queuing occurs at the intersections of Menomonee River Parkway at West North Avenue and at North Swan Boulevard.

### *Intercity Connectivity*

There are many opportunities for bicycle facilities to connect Wauwatosa to Milwaukee and other surrounding communities. The existing infrastructure—namely bike lanes along West Center Street, shared use paths along the Menomonee River Parkway, and the Hank Aaron State Trail—is the primary way in which bicyclists currently travel intercity. However, the connected street grid also provides many opportunities for non-designated routes for bicyclists. Coordinating bicycle plans and infrastructure changes (such as street reconstruction, intersection modifications, shared use paths along parkways, and neighborhood greenways) with Milwaukee, Brookfield, West Allis, Elm Grove, and other surrounding municipalities will further enhance intercity connectivity.

## 2.2.3 | Bicycle Barriers & Challenges

### *Traffic Volumes*

The ideal street for transportation cycling purposes is often one that provides relatively direct connections from one side of the city to the other, while also having access to shopping, dining, jobs, and residential areas. However, these streets are also appealing to motorists, often resulting in high traffic volumes. Many of Wauwatosa's high traffic volume streets, such as Watertown Plank Road and Mayfair Road, are multi-lane streets

<sup>12</sup> <http://county.milwaukee.gov/ImageLibrary/Groups/cntyParks/Planning/FinalParkwayInventoryReport.pdf>

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

designed to convey very high traffic volumes close to or in excess of 25,000 ADT. Far more common in Wauwatosa are two-lane streets, such as North Avenue and Wisconsin Avenue, which were designed to convey lower levels of traffic than they do currently. The Menomonee River Parkway was initially designed as a pleasure or scenic route and as a way for people to access recreational opportunities, but now functions as a through street carrying a higher volume of faster traffic than was intended. Some of these streets, including Wauwatosa Avenue, ~~Bluemound~~Blue Mound Road, and Mayfair Road are also part of the state highway system. Providing accommodation for bicycles along both of these types of streets typically ~~means requires~~ the addition of bike lanes.

However, traffic volumes are low to moderate on the majority of local streets in Wauwatosa. Combined with the positive benefits of the grid street network (described previously in Section 2.2.2), the result is that the majority of the community's minor, local streets are very bike-friendly.

### *Pavement Conditions*

As with all street users, cyclists prefer smooth, well-maintained pavement surfaces. The city- and state-maintained street surfaces in Wauwatosa are generally good. However, the pavement conditions of the county-maintained parkways are typically poor to fair. Typically, poor pavement conditions affect cyclists' route preferences. The inadequate pavement condition of the Menomonee River Parkway, coupled with this street's high traffic volumes, greatly reduce the comfort and usability of what is otherwise a convenient and scenic street for cyclists. This was strongly supported by comments presented to TDG at public meetings and the WikiMap as the plan was being developed.

### *Constrained Right-of-Way (Arterials)*

The addition of bike lanes, cycle tracks, and other facilities is often ~~influenced limited~~ by narrow street widths. This situation is typically the case along multi-lane streets and streets with designated on-street parking. In many cases, streets cannot be widened to provide space for such facilities due to constrained right-of-way. In these situations, the possible actions include 1) removing a travel lane or parking lane (typically on just one side), 2) acquiring additional right-of-way and widening the street (often at great expense), 3) placing shared lane markings in the travel lanes, or 4) choosing not to provide adequate bicycle accommodation and supporting cycling with other options on alternative, parallel streets.

### *BarriersConnectivity*

The excellent connectivity provided by Wauwatosa's grid street network (described in Section 2.2.2) is interrupted by three ~~primary obstaclesprimary obstaclesbarriers: the~~ Hwy US-45, railroads (the Canadian Pacific and Union Pacific Railroads), and the Menomonee River. Each of these ~~span the City with linear barriers has~~ a limited number of crossings, which funnel traffic—bicycle and motor vehicles—to a few streets in order to cross the ~~m. barrier~~. Some crossings, such as the pedestrian- and bicycle-only extension of Harwood Avenue across the Menomonee River, are safe and comfortable for non-motorized traffic. Another example is the Oak Leaf Trail connector (from 116<sup>th</sup> Street to Underwood Parkway), which has underpasses to cross three major highways. Other crossings, however, are very constrained and can be quite uncomfortable for cyclists. This is one of most ~~or the most~~ significant ~~challenge-connectivity issues~~ for the ~~Ceity~~ city.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

## 2.3 | Pedestrian Conditions

### 2.3.1 | Existing Pedestrian Facilities

#### *Existing Sidewalks*

In general, the eastern half of Wauwatosa has sidewalks along almost all of its streets while the western half has ~~very few sidewalks~~. Being the older portion of the city, the eastern half was developed at a time when walking was ~~a common considered an important~~ mode of transportation—much as it is today—and sidewalks were therefore considered integral parts of the ~~€City's~~ transportation network. The western, post-war portion of the ~~community, however, was~~ community was developed during a period when American culture was moving toward automobile-dependence and sidewalks were ~~not included in often left out of~~ street construction projects. ~~While it is desirable to have sidewalks along every street in Wauwatosa, they are particularly~~ Typically sidewalks are considered to be important along commercial corridors, streets with transit service, streets connecting to schools, and streets with high traffic volumes. Some of Wauwatosa's major streets that ~~exhibit these characteristics are missing sidewalks on one or both sides~~ include portions of Mayfair Road, Menomonee River Parkway, Burleigh Street, North 124<sup>th</sup> Street, Watertown Plank Road, Wisconsin Avenue, North Swan Boulevard, and West Center Street.

Sidewalks, where they exist, are generally in good or very good condition in Wauwatosa, although sidewalk replacements were deferred for several years due to constrained budgets.

#### *Existing Shared-Use Paths*

The shared use paths described in Section 2.2.1 also function as important elements within Wauwatosa's pedestrian network. These shared use paths include the Menomonee River and Underwood Creek Parkway segments of the Oak Leaf Trail, the Hank Aaron State Trail, and shorter shared use paths through neighborhoods and parks.

### 2.3.2 | Pedestrian Opportunities

#### *Development Patterns & Major Destinations*

Previously discussed in Section 2.2.2, Wauwatosa's compact, pre-war development patterns provide good connectivity between neighborhoods and commercial areas. Some of Wauwatosa's most walkable areas are the Village and the East Tosa portion of West North Avenue (including the neighborhoods surrounding each of these districts). Future redevelopment and revitalization efforts, such as the plans for mixed-use districts along State Street and Burleigh Street, are significant opportunities for increasing Wauwatosa's walkability. Enhancing pedestrian connectivity between these zones and surrounding neighborhoods should be a priority for the community and will enhance the future economic redevelopment potential.

It is important that parks and schools be accessible by foot, especially for children. Schools and parks are conveniently located across the community. ~~However, on the west side of the city many of these destinations serve residential areas that lack sidewalks.~~ Schools ~~without adequate sidewalk connectivity to consider evaluating for pedestrian accessibility~~ include Madison Elementary, Eisenhower Elementary, Underwood Elementary, Whitman Middle, Wauwatosa West High, and St. Joseph Catholic Schools. Parks without adequate sidewalk connectivity include Madison Park, Hartung Park, Webster Park, Wisconsin Avenue Park, and Chippewa Park. Additionally, a safe route between McKinley School neighborhood and Whitman School neighborhood will be evaluated. [NOTE: Options will be studied in detail using the Safe Routes to School planning grant awarded by

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

WisDOT to the City and McKinley School and will include participation of all stakeholders. All options will be explored including paths along North Avenue, Burleigh Street, and Menomonee River Parkway.]

### *Grid Street Network*

Many of the benefits of Wauwatosa’s grid street network described in Section 2.2.2 also apply to pedestrians. Namely, they provide short routes to destinations, allow people to vary their route, and disperse automobile traffic, the latter of which results in fewer high-volume intersections ~~that are challenging for crossing~~ pedestrians to cross. For these reasons, a grid street network—when coupled with a diversity of land uses—is the ideal foundation for “walkability,” meaning an environment in which many daily errands and tasks can be completed on foot, ~~without reliance on cars. While the western portion of the community is generally without sidewalks, it retains a grid network of streets. This part of the city has the ability to become a more walkable environment with the construction of a limited network of sidewalks along busy streets and providing connections to parks and schools.~~

### *Parkways*

The historic system of parkways in Wauwatosa—including Honey Creek Parkway, Menomonee River Parkway, and Underwood Creek Parkway—are attractive open spaces that provide access to nature for the community as well as linear connections for walking. Currently, shared use paths exist along several portions of the Menomonee River and Underwood Creek Parkways, but there a number of gaps exist that render these connections incomplete. Bridging the gaps between existing shared use paths, especially those along the Menomonee River Parkway, will be an important step for pedestrian mobility. The parkways also provide opportunities for nature trails, mountain bike trails, and footpaths that serve primarily as recreational routes.

### *Intercity Connectivity*

Wauwatosa’s grid street network is mirrored by similar street networks in surrounding municipalities. This affords hundreds of street connections for pedestrians, as well as for other modes of transportation. While it is unlikely that a significant number of people will make intercity walking trips to go to school or a job, intercity connectivity for pedestrians is important because they strengthen economic and cultural ties across city lines. From an economic development perspective, pedestrian connectivity with surrounding communities may help Wauwatosa’s businesses by increasing access to them. An example of this opportunity is the East Tosa portion of North Avenue, which likely attracts pedestrians from nearby Milwaukee neighborhoods. Improvements to intercity connectivity can be made by enhancing crossings of streets such as N. 60<sup>th</sup> Street, Center Street, and ~~Bluemound~~Blue Mound Road. Also important is ensuring that sidewalks leading to and from city limits are complete, comfortable, and accessible. ~~Another link between walking and business development, which can be made possible with g~~Good and attractive pedestrian facilities can provide appealing options for walking to and supporting nearby businesses, ~~is the establishment of walking as a lunch time or break time activity for employees, Good pedestrian facilities will also encourage people to walk to a nearby lunch spots supporting local business.~~

## **2.3.3 | Pedestrian Facility Considerations Barriers & Challenges**

### **2.3.4 | 2.3.3 |**

#### *Lack of Sidewalks*

~~The most significant challenge regarding pedestrian mobility in Wauwatosa is the general lack of sidewalks in the western portion of the city. As previously discussed, the majority of local streets and many of the arterials west of Mayfair Road are without sidewalks. On low traffic volume and low speed neighborhood streets, the lack of~~

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

~~sidewalks is a relatively minor challenge compared to the lack of sidewalks along streets with higher traffic volumes and speeds.~~

### Sidewalks

~~The option of putting sidewalks on streets that currently do not have them will be evaluated on a case by case basis as street reconstruction projects arise and neighborhood input and support is obtained. Criteria used to identify areas of importance for pedestrian facilities include filling gaps in the existing system, proximity to schools, traffic volume, proximity to existing paths, and bus stop locations. The Common Council will decide approval of sidewalks, taking into account all of these considerations.~~

### Challenging Major Street Crossings

Crossing major streets can ~~potentially present issues be a significant challenge~~ for pedestrians, especially for the elderly, children and people who are disabled. Even in locations with continuous sidewalks, the presence of a single street that is difficult to safely cross can discourage pedestrian activity in the entire area. Major arterials are ~~quite often can be~~ challenging to cross, ~~especially~~ as there are often significant distances between controlled intersections with crosswalks and pedestrian signals. ~~When these if~~ streets do not have medians (which would allow two-stage pedestrian crossings), the challenge is exacerbated. Wauwatosa's ~~most challenging major street major street~~ crossings are found along Mayfair Road, ~~Bluemound Blue Mound~~ Road, Capitol Drive, Wauwatosa Avenue, ~~Watertown and Watertown~~ Plank Road. The latter of these streets bisects the Life Science Center (see Section 2.2.2), which is a major employment center with approximately 17,000 employees, significant pedestrian traffic, and the possibility of even much higher levels of pedestrian activity. Currently, there are ~~only~~ three marked and unmarked crosswalks along the entire 1.4 mile stretch of Watertown Plank Road that runs through this area. As the Life Science Center continues to develop with the Innovation Campus project, efforts ~~must be made should be considered~~ to enhance pedestrian crossings of Watertown Plank Road. A number of streets, including 100<sup>th</sup> Street and Center Street, ~~can also~~ become challenging to cross or navigate during school drop-off and pick-up times.

### Constrained Right-of-Way Considerations

~~The Any~~ addition of pedestrian facilities will need to take into account the ~~of sidewalks where none currently exist can be greatly hampered by the state of the~~ existing right-of-way along local, collector, and arterial streets. ~~While in some locations there is simply a lack of available ample right-of-way is not available, the greater challenge is right-of-way encroachment.~~ When ~~facilities sidewalks~~ are not present, adjacent homeowners often plant vegetation or install landscape furnishings within the right-of-way. Similarly, commercial property owners often use this space for parking, storage, signs, and displays. ~~The addition of facilities facilities in these right-of-ways would have to resolve these potential conflicts. Adding sidewalks in these situations involves not only the physical act of removing encroachments but also the political challenge of reclaiming land of which adjacent property owners may mistakenly claim ownership.~~ In locations where right-of-way is simply not available, purchasing additional land or acquiring easements would be ~~necessary required unnecessary in~~ order ~~to construct to construct pedestrian facilities. build sidewalks.~~

### Connectivity Barriers

As with bicycle mobility, Highway 45, railroads (the Canadian Pacific and Union Pacific Railroads), Mayfair Road, Capitol Drive, Wauwatosa Avenue, and the Menomonee River ~~can be obstacles are the most significant barriers~~ for pedestrians ~~to cross. These linear barriers restrict c~~ crossings ~~along these occur to at~~ a few points, which may or may not be convenient for pedestrians. While also a great opportunity for pedestrians—both for transportation and recreation uses for linear movements—the Menomonee River ~~Parkway has Parkway has the fewest crossing opportunities. is perhaps the most significant barrier. Crossings are very limited and in~~ some instances, such as

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

between W. Burleigh Street and W. North Avenue and between W. Hampton Avenue and W. Capitol Drive, there are stretches longer than one mile without pedestrian crossings. More than any other mode of transportation, direct access is important for pedestrian mobility. With the construction of future shared use paths along the Menomonee River Parkway, a possible connection between Hartung Park and the Sheraton Lawns neighborhoods should be considered. ~~it will also be important to consider adding pedestrian and bicycle crossings bridges over the River. One of the most important locations for such a bridge is as a connections include between Mayfair Mall and West Center Street (east of the river) and between the~~

## 2.4 | Existing Plans and Policies

Eight statewide, four regional/county, and four municipal plans and policies were reviewed during the preparation of this Bicycle & Pedestrian Facilities Plan. Dating from as long ago as 1991 (A Park and Open Space Plan for Milwaukee County) to as recent as 2011, these documents each provide elements of context that help to ensure current planning efforts for bicycle and pedestrian infrastructure and policies align with and support the ongoing strategies and infrastructure programs of the City of Wauwatosa, Milwaukee County, and the State of Wisconsin.

Three plans in particular stand out as influential to the development of the Bicycle & Pedestrian Facilities Plan. *Connections 2030* (WisDOT's comprehensive transportation plan) calls for the elimination of barriers to bicycle and pedestrian connectivity, support for local bike/pedestrian infrastructure projects and the incorporation of "Complete Streets"—street design projects that equally accommodate cars, bikes, pedestrians, and transit. The Southeastern Wisconsin Regional Planning Commission's (SEWRPC) *A Regional Transportation System Plan for Southeastern Wisconsin: 2035*, which is the regional transportation plan for the Milwaukee area, provides guidance on the inclusion of bike lanes and sidewalks along various types of streets. It also encourages intercity bikeway and pedestrian connections as well as a regional shared use path system totaling 575 miles in length. Finally, the City of Wauwatosa's *Comprehensive Plan 2008-2030* identifies walkability and bike-friendliness as important goals for the community. It includes a number of goals and objectives related to improving the city for walking and biking, thereby laying the foundation for a future, more detailed bicycle and pedestrian plan.

### 3 | Bicycle Network Recommendations & Implementation

This chapter presents objectives and policies that will support the development of the bicycle network included in this chapter.

#### 3.1 | Overview

Creating a network of safe and useful bikeways is the primary goal of this plan. For a network to be safe, it needs to be made up of bicycle facilities that increase actual safety as well as the perception of safety, which is the primary impediment urban and suburbanites cite as the reason they do not bicycle more often. For a network to be useful it needs to connect people to places they want to go, and be continuous, direct, efficient, and easy to navigate.

For Wauwatosa to attain its goal of increasing bicycle ridership for transportation, it is important to define the target audience for increased cycling activity. Over the last decade, Portland, Oregon has come to understand its population and their attitudes toward cycling in a simple but useful framework. While Portland is now known as one of the most bicycle-friendly cities in the United States, the City found that its

bicycling demographics were not all that different than other U.S. cities and provides a relevant case study. Less than one percent of its population could be described as *Strong and Fearless riders*, those willing to bicycle under almost any traffic conditions. About seven percent are *Enthusied and Confident* cyclists, those who are comfortable bicycling under many conditions, but are still concerned about safety in traffic. The largest group is the estimated 60 percent of the population that is *Interested but Concerned*, for whom safety in traffic is the biggest impediment to bicycling.<sup>13</sup> Approximately one third of the population is not interested in bicycling at all. These percentages are displayed in Figure 2. After determining these population groups, Portland set out to build a bicycle network that would serve the greatest number of people – those that are Interested but Concerned. By serving this group of people, Portland also served people who were more confident about bicycling with traffic.

After Portland's initial assessment the city has continued to count and survey cyclists on a regular basis. Portland's daily bike commuters doubled between 1992 and 2000, and more than doubled again by 2007. Improvements to the bicycle network are believed to be the primary factor accounting for this growth. Portland's analysis is now used around the U.S. by cities and urbanizing counties to help them focus bicycling improvements to meet the needs of the approximately 67 percent of the population that is interested and willing to bicycle more if bicycling conditions can be improved.

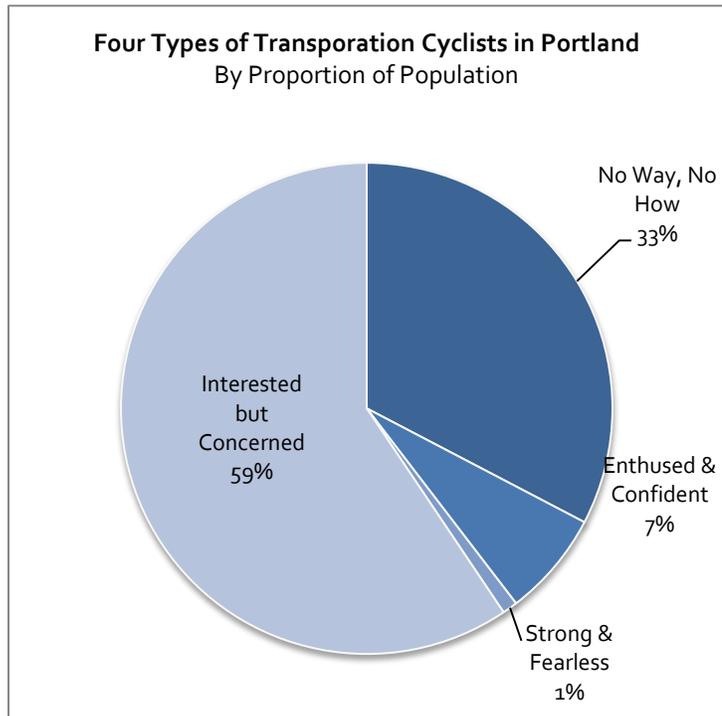


Figure 3: Attitudes of Portland residents toward bicycling

<sup>13</sup> "Four Types of Transportation Cyclists in Portland." <http://www.portlandoregon.gov/transportation/article/158497>

### 3.1.1 | Meeting the Needs of All Users

It is essential that the Wauwatosa bicycle network address the needs of all cyclists and potential cyclists. This includes the young and old, weekend recreational enthusiasts who converge on the Oak Leaf Trail and Hank Aaron State Trail, children biking to school, and families bicycling to the Hoyt Park Pool. It also includes people cycling to The Village to visit a restaurant, the music teacher riding to her twice-weekly in-home lesson, and the custodial staff riding to Mayfair Mall for their overnight cleaning shift. And it includes the other categories of cyclists who are more comfortable with traffic and are biking to work in Wauwatosa or surrounding communities.

This plan recommends facility types and treatments that will improve cycling conditions for all of these people and many types of bicycle trips. It also embodies a strong focus on creating a network of low stress bikeways that can be used for daily transportation and close-to-home recreation by a larger share of Wauwatosa residents that are *enthused and confident* or *interested but concerned*.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/14

### 3.2 | Development of Bicycle Objectives, Policies, and Network

The ~~recommendations objectives, policies,~~ and network in this chapter were developed to support the vision and goals described in Chapter 1 of this plan. ~~and a variety a variety~~ of factors that are described below were used to develop the ~~m. objectives, goals and bicycle network described in this plan.~~

#### *Public Input*

As noted in Section 1.3 and Appendix A, ~~extensive~~ public input ~~that~~ was provided for the development of this ~~plan.~~ ~~These comments factored plan factored~~ heavily into the development of the vision, goals, ~~and~~ ~~recommnedations objectives and policies included~~ recommendations included herein. Additionally, public comments highlighted areas that currently receive heavy bicycle use, as well as areas in which people would like to bicycle, but are not currently comfortable for most riders.

#### *Steering Committee Input*

The Plan Steering Committee provided extensive input about ~~recommendations objectives and policies related~~ recommendations related to bicycling as well as criteria for where bicycle facilities should be located. General criteria for bicycle facilities included connecting schools, parks, businesses, and neighborhoods throughout Wauwatosa, providing bicycle facilities on higher volume streets, particularly those that serve businesses, and providing a network of low-stress facilities that can be used by bicyclists with a wide range of abilities.

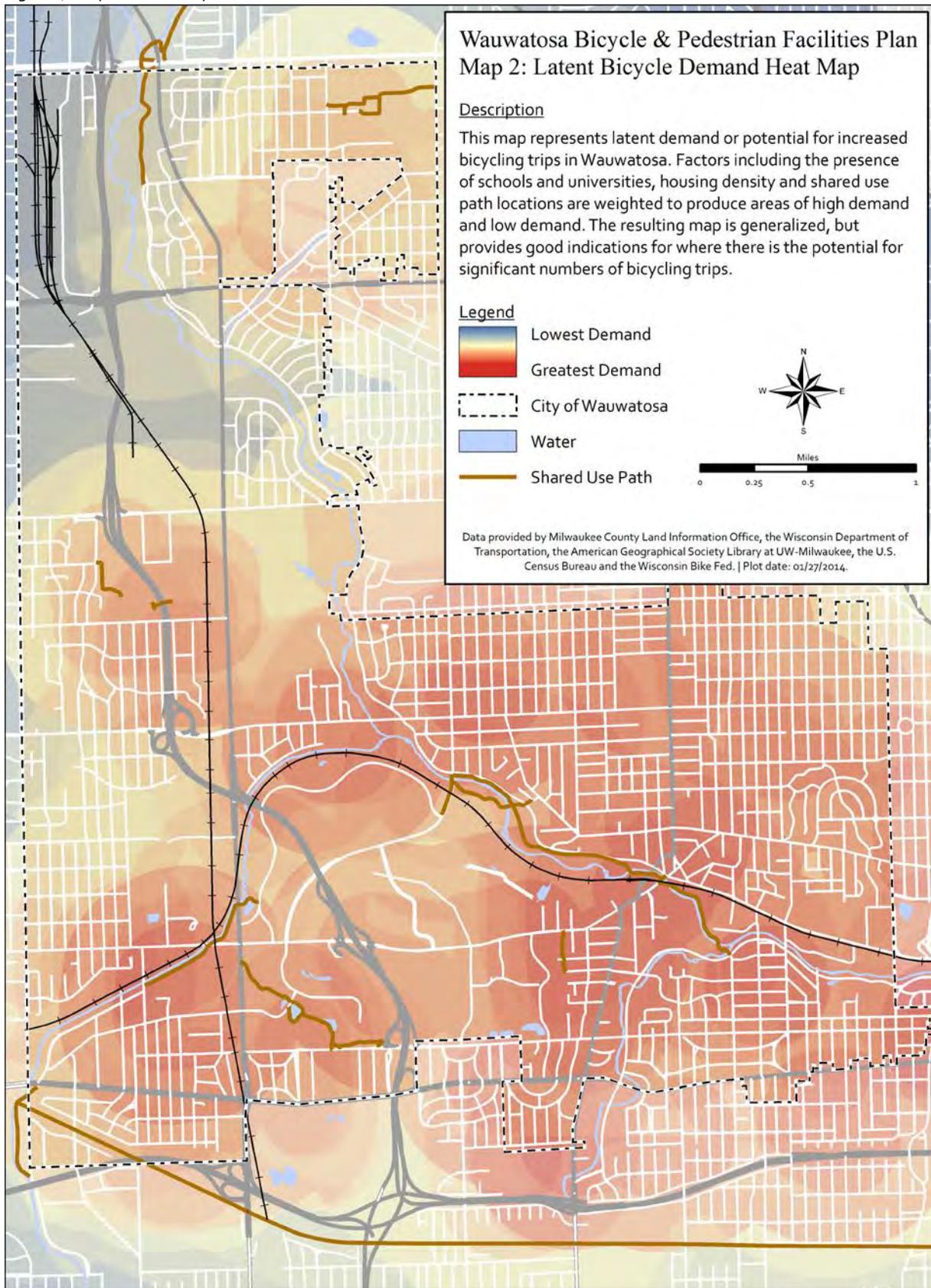
#### *Existing and Potential Bicycle Demand*

The online mapping tool highlighted in Section 1.4.3 provided an overview of existing bicycle usage in Wauwatosa. In addition to the data collected thorough the online interactive map, a map was developed using a variety of factors that could lead to increased bicycling in the future. This “heat map” included factors such as population density, the presence of schools or higher education institutions, and proximity to trails or paths. The factors were weighted and combined to produce Map 2, which indicates ~~latent potential~~ demand for bicycling throughout the City ~~and can be used to identify where. The heat map indicates the relative potential for increased bicycling and~~ the need for bicycle facilities to help meet that potential demand could be enhanced. The “intensity” of the demand shown on the map is relative to other areas of the map.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

Figure 4: Map of latent bicycle demand in Wauwatosa



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

### *Field Work*

Extensive field work was conducted by the project team during the spring and summer of 2013 to verify the need for bicycle facilities in specific locations and ensure that appropriate facilities are recommended. Every collector and arterial street and the majority of neighborhood streets in Wauwatosa was subject to a “windshield survey.” This survey provides a general, but fairly comprehensive, assessment of roadway factors that are important for determining the need and potential for bicycle accommodations. In addition to the windshield survey, multiple stops per street segment were made to take cross section measurements and verify other conditions. Following is a list of factors that were considered in the field review process:

- Street connectivity
- Topography
- Functional classification
- Types of land uses served
- Speed limit
- Observed traffic speeds and volumes
- Traffic controls at intersections
- Presence of turn lanes at intersections
- Presence of and design of highway interchanges
- Pavement quality
- Trail connectivity
- Presence of sidepaths
- Likely truck traffic volumes
- Presence of public bus routes
- Relationship to key destinations
- Connectivity to adjacent jurisdictions
- Presence of barriers and potential as a barrier avoidance route
- Potential sight distance or other safety issues (dangerous drainage grates)
- Potential for roadway hazards including vegetative overgrowth
- Observed cyclists
- Observed need for motor vehicle parking
- Roadside conditions such as drainage structures, presence of sidewalks, buffers, streams, wetlands, etc.
- Roadway measures:
  - Curbed or open section
  - Overall road and median width
  - Number and width of travel lanes
  - Shoulder width
  - Presence of parking and parking lane width

Because the primary purpose of the survey was to make a bicycle facility recommendation, a complete inventory of these features was not documented for every roadway section reviewed. However, much of the data collected was logged manually on data collection sheets.

In addition to the windshield survey, a number of streets were reviewed using publicly available Google maps and online street-view applications, which are very current for Wauwatosa.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

### 3.3 | Bicycle Network ~~Objectives and Policy~~ Recommendations

This section describes the ~~recommendations objectives and policies that~~ recommendations that have been developed to help Wauwatosa achieve its vision and goals for bicycling with regards to the bicycle network and support infrastructure. ~~Recommendations Objectives~~ are presented individually with specific components listed underneath policies designed to achieve each recommendation objective. A brief discussion for each recommendation is also provided ~~for each objective and its supporting policies~~.

#### 3.3.1 | Bicycle Network ~~Recommendations~~ Objectives

The bicycle network ~~objectives and policy~~ recommendations developed for the plan are summarized below. Section 3.3.2 includes the ~~objectives and policy~~ recommendations as well as a brief discussion about ~~each component~~ each component ~~policy~~.

#### ~~Recommendation Objective 1~~: Continue to expand the network of on-street bicycle facilities in Wauwatosa.

- ~~Policy Recommendation 1.1~~: Implement the bicycle network recommendations provided in Section 3.4 of this plan.
- ~~Policy Recommendation 1.2~~: Provide bicycle facilities on or along ~~all~~ collector and arterial streets where space is currently available or when they are reconstructed.
- ~~Policy Recommendation 1.3~~: Provide a network of neighborhood greenways parallel to major street corridors and connecting locations such as schools and parks.
- ~~Policy Recommendation 1.4~~: Ensure that the bicycle network provides connections into neighboring communities, particularly to existing and planned bicycle facilities.

#### ~~Recommendation Objective 2~~: Increase the off-street bikeways and connections throughout Wauwatosa.

- ~~Policy Recommendation 2.1~~: Request that Milwaukee County provide a continuous shared use path along the Menomonee River Parkway.
- ~~Policy Recommendation 2.2~~: Close key gaps in off-street bicycle ~~and pedestrian~~ corridors.
- ~~Policy Recommendation 2.3~~: Provide high-visibility crossing treatments where off-street bikeways cross arterial and collector streets.
- ~~Policy Recommendation 2.4~~: Pave prioritized unpaved bikeways in the City to allow for year-round use.

#### ~~Recommendation Objective 3~~: *Maintain bicycle facilities to a level that provides year-round, safe, comfortable, and convenient usage for all users.*

- ~~Policy Recommendation 3.1~~: Sweep all on-street and paved off-street bikeways regularly.
- ~~Policy Recommendation 3.2~~: Provide prompt maintenance of potholes and other pavement damage on bikeways.
- ~~Policy Recommendation 3.3~~: Repaint bikeway markings before they fade.
- ~~Policy Recommendation 3.4~~: Clear snow from on-street and off-street bikeways in a timely manner.

#### ~~Recommendation Objective 4~~: Provide support infrastructure to make it easy for people to bicycle in Wauwatosa.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

- ~~Policy Recommendation 4.1:~~ Provide a system of wayfinding signs that provide direction and distance to popular destinations in Wauwatosa and surrounding communities.
- ~~Policy Recommendation 4.2:~~ Provide Incorporate ample bicycle parking throughout the City, particularly in the Village, commercial districts, parks, and schools.

~~Recommendation Objective 5: Improve bicycle access at major obstacles and hazardous areas and across major barriers.~~

- ~~Policy Recommendation 5.1:~~ Provide high-visibility bicycle crossings at problem areas.
- ~~Policy Recommendation 5.2:~~ Ensure that bicycle access is maintained when construction closes bikeways.

~~Recommendation Objective 6: Ensure that all Evaluate future development and redevelopment for inclusion of includes bicycle accommodations through adoption of a Complete Streets policy and code updates.~~

- ~~Policy Recommendation 6.1:~~ Craft and adopt a Wauwatosa tailored complete streets ordinance to facilitate biking accommodations in the City. binding Complete Streets resolution and encourage other agencies with jurisdiction over streets within Wauwatosa to adhere to the policy.
- ~~Policy Recommendation 6.2:~~ Update the bicycle parking requirements in the Municipal Code to require more bicycle parking.

### 3.3.2 | Bicycle Network Objectives and Policy Recommendations

#### **Recommendation Objective 1: Continue to expand the network of on-street bicycle facilities in Wauwatosa.**

Wauwatosa has recently added some on-street bicycle facilities, but more are needed to connect destinations and provide travel options for residents and visitors. The consideration of new facilities will occur with additional input from the Common Council and residents through the Capital Improvement Plan and budget process.

**Policy Recommendation 1.1:** Implement the bicycle network recommendations provided in Section 3.4 of this plan.

Provide a mixture of bikeways as a comprehensive network. As summarized in section 3.1, there are a variety of bicyclists in the City with different levels of experience and confidence. A comprehensive network will provide a means of matching the cyclist with a type of bikeway or street he/she feels comfortable using. On-street bicycle facilities are a critical component of the bicycle network—they provide a specific space for bicyclists to ride on busier streets and indicate to bicyclists and motorists alike where bicyclists should position themselves on shared streets.

**Policy Recommendation 1.2:** Provide bicycle facilities on or along all collector and arterial streets where space is currently available or when they are reconstructed.

By implementing the network recommendations provided in this chapter, Wauwatosa will provide a well-connected network for its residents and visitors. It is particularly important that bicycle facilities be included on arterials and collector streets since these streets serve important destinations and cross features/barriers such as rivers and freeways. However, without a dedicated bicycle facility, most people are not comfortable bicycling on most arterial and collector streets. Just a few years ago, there were no designated on-street bicycle facilities in Wauwatosa. In 2013 there are bike lanes on portions of North Wauwatosa Avenue and West Center Street, and bike lanes will be included in an upcoming reconstruction of West North Avenue. Although the number of on-street facilities is limited, the City has been moving in the right direction by adding designated bike facilities on busier streets. This momentum should be maintained as the City implements the recommendations of this plan.

**Policy Recommendation 1.3:** Provide a network of neighborhood greenways parallel to major street corridors and connecting locations such as schools and parks.

Even with bicycle facilities on arterial and collector streets, many people, particularly those who are less assertive on a bicycle or who are riding with children, will not be comfortable bicycling on these streets. To serve all levels of bicyclists, a network of neighborhood greenways should be provided parallel to major street corridors and connecting destinations such as schools and parks. Neighborhood greenways are quiet residential streets that are typically already good streets for bicycling. By signing these streets and adding traffic calming where appropriate, these streets can be excellent for bicycling while also reducing cut-through traffic and speeding without limiting access by residents.

**Policy Recommendation 1.4:** Ensure that the bicycle network provides connections into neighboring communities, particularly to existing and planned bicycle facilities.

The transportation network does not end at the City's borders—many destinations that people wish to visit lie in neighboring communities. It is important that as Wauwatosa's bicycle network continues to develop, it provides good connections into neighboring communities. Whenever possible, on-street bicycle facilities should connect to on-street facilities in neighboring communities.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

**Recommendation Objective—2: Increase the off-street bikeways and connections throughout Wauwatosa.**

Off-street bikeways, also known as shared use paths, are important elements of a viable non-motorized transportation system. They provide alternatives to on-street biking, with which many new and potential cyclists are not yet comfortable. This helps Wauwatosa develop bike and pedestrian systems that are appealing for all potential users, regardless of experience or confidence. Seasoned and skilled cyclists also make good use of shared use paths as they can be the shortest, most-direct route between two points. For example, it is easy to imagine people traveling from the City's northwestern neighborhoods to The Village choosing to use shared use paths along the Menomonee River Parkway. In addition to serving as alternative routes, shared use paths can provide critical connections across ~~obstacleschallenging barriers that~~ obstacles that would otherwise hinder restrict bicycle and pedestrian mobility. Such connections could include bridges over rivers and grade-separated crossings over major streets and highways. In addition to the transportation benefits of off-street bikeways, they also provide opportunities for recreational riding, jogging and walking. Paths along parkways provide access to nature and are often preferred over on-street bikeways due to their aesthetics and quiet nature.

**Policy Recommendation 2.1:** Request that Milwaukee County provide a continuous shared use path along the Menomonee River Parkway.

The Menomonee River Parkway is the single greatest opportunity for shared use paths in Wauwatosa. The Parkway is owned and managed by Milwaukee County, so the expansion of the existing paths into a continuous system from one end of the city to the other will require coordination between the City and the County. From a planning and design perspective, it is important to coordinate and align connecting paths and access points with Wauwatosa's other existing and planned on-street and off-street bikeways. It may also be necessary to explore various implementation strategies that form a partnership between the City and the County. Construction of a path along the Menomonee River Parkway will take careful planning to ensure that the path does not negatively impact the resource.

**Policy Recommendation 2.2:** Close key gaps in off-street bicycle corridors.

~~A number of key gaps are missing in the off-street bicycle network that has been developed.~~ Often these gaps are at critical locations, such as crossings of barriers including rivers, railroads, highways, and other major streets. These gaps in the off-street network should be closed to increase the usability of the existing network.

**Policy Recommendation 2.3:** Provide high-visibility crossing treatments where off-street bikeways cross arterial and collector streets.

Enhancing the visibility of crossings will not only improve user safety, but will also help increase the community's awareness of the availability of its pathways. Crossing visibility can be increased by using continental-style crosswalks, signage (on the side of the street or overhead), in-street markings and signs, and lighted beacons or signals.

**Policy Recommendation 2.4:** Pave prioritized unpaved bikeways in the City to allow for year-round use.

Paving existing unpaved paths will allow for year-round use in all weather conditions if they are also cleared of snow (see Policy Recommendation 3.4); it will also increase the ease of use of these facilities, ~~especially for those with limited mobility.~~

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

**Recommendation Objective 3: Maintain bicycle facilities to a level that provides year-round safe, comfortable, and convenient usage for all users.**

Maintenance of bicycle facilities is often more important than maintaining streets for motor vehicles. Bicyclists rely on clean and smooth surfacing to balance their two-wheel vehicles and negotiate turns and stops. If bicyclists' attention is constantly being directed to watching for the next pothole or piece of glass, they will not be able to focus on the operation of the bicycle itself, creating a safety issue.

**Policy Recommendation 3.1:** Sweep all on-street and paved off-street bikeways regularly.

Glass and other debris present a far more significant hazard for bicyclists than for motor vehicle operators. Glass can lead to flat tires while even relatively small objects such as sticks or gravel can create a fall hazard. It is important to sweep all bikeways, on-street and off-street, **frequently** to clear debris.

**Policy Recommendation 3.2:** Provide prompt maintenance of potholes and other pavement damage on bikeways.

Similar to debris, potholes and other pavement damage presents a more significant hazard to bicyclists than to motor vehicle operators. Potholes and cracks that may not be considered significant for motor vehicles can easily lead to a crash on a bicycle. Potholes and pavement damage should be quickly repaired on all bikeways. The City should include prompts for bikeway maintenance under its "Request Tracker" system.

**Policy Recommendation 3.3:** Repaint bikeway markings before they fade.

Separation of bicyclists from motorists occurs mostly through on-road markings and signage. Of the two, markings are more important. Bikeway markings are somewhat more difficult to maintain in Wisconsin than in many states because of the toll that snow plowing, salt, and sand have on marking material. To continue to reap the benefits of separation, bikeway markings need to be kept fresh and visible.

**Policy Recommendation 3.4:** Clear snow from **key** on-street and off-street bikeways in a timely manner.

Over the past two decades, the use of the bicycle has clearly expanded to transportation. As part of that, bicyclists are extending the traditional seven to nine month season for bicycling to year-round use. Improved cycling gear and bicycle equipment (studded and knobby tires, vastly improved lighting, and suspension systems) has aided and encouraged more people to ride into and through the winter. As these changes have occurred, there has been a commensurate demand in keeping bikeways clear of snow and ice. Bicyclists using bikeways during the winter almost always have the same destinations as do motorists. Currently, the Milwaukee County Parks Department does not clear snow on the vast majority of its paths. As such, a partnership may be necessary between the City and the County to ensure that these important transportation corridors, or at least key segment, are accessible during the winter. Bikeways, both on-street and off-street, should have snow promptly removed after a snow event.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

**Recommendation Objective 4: Provide support infrastructure to make it easy for people to bicycle in Wauwatosa.**

As Wauwatosa develops a comprehensive bicycle network, it also needs to provide support infrastructure to ~~facilitate~~ encourage bicycle use. Bicyclists must be able to find their way around the City's network and should know that secure bicycle parking is available at their destination.

**Policy Recommendation 4.1: Provide a system of wayfinding signs that provide direction and distance to popular destinations in Wauwatosa and surrounding communities.**

Wayfinding is a means of providing key information about destinations, direction, and distance to help bicyclists determine the best routes for their trips. In the past, ubiquitous bicycle route signs were often erected but provided no real guidance other than stating the obvious: you are on a bicycle route. Complete wayfinding signs, ~~complete with supplemental plaques~~, provide on-the-ground information that help bicyclists find their way around a community—or between communities—significantly stretching the utility of on-street and path networks. Directional and destination plaques can be added to existing or new route signs to provide additional messaging to bicyclists. All new signage used by the City and its partners should include the full complement of supplemental directional plaques.

**Policy Recommendation 4.2: Provide ample high-quality bicycle parking throughout the City, particularly in the Village, commercial districts, parks, and schools.**

No one serious about developing a property for residential or commercial use would overlook the need to park motor vehicles. Similarly, one of the most important aspects of accommodating bicyclists at destinations is through bicycle parking. Fortunately, the cost for bicycle parking is very inexpensive compared to motor vehicle parking. The City should add bicycle parking in high destination areas, especially in commercial areas and at schools. All new businesses and schools should be built with ample bicycle parking the day they open their doors to the public.

Specific locations for increased bicycle parking include:

- Commercial districts
  - The Village
  - North Avenue, from 60<sup>th</sup> to 76<sup>th</sup> Streets and 86<sup>th</sup> to 92<sup>nd</sup> Streets
  - Mayfair Mall
- Schools
- Libraries
- Recreation centers
- Government buildings

~~New~~All bicycle parking installed ~~in directly by~~ the City ~~or required to be installed by developers/private property owners~~, should comply with the Association of Pedestrian and Bicycle Professionals guidance described in the *Bicycle Parking Guidelines, 2<sup>nd</sup> Edition*. The guide provides best practices for bicycle parking installation and acceptable as well as unacceptable types of racks. The guide is available for a small fee from APBP:

<http://www.apbp.org/?page=publications>.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

**Objective—Recommendation 5: Improve bicycle access at major obstacles and hazardous and hazardous areas and across major barriers.**

Perhaps the greatest ~~obstacle barrier~~ for new cyclists is the perception that riding a bicycle is a dangerous activity. Improving safety, as well as the perception of safety, is therefore an important exercise in ~~encouraging-facilitating~~ a greater percentage of the community to bike. As with motor vehicles, cyclists more regularly encounter hazards and are at a greater risk than motorists at intersections and construction zones.

**Policy Recommendation 5.1: Provide high-visibility bicycle crossings at problem areas.**

Increasing the safety of intersections and similar problem areas will help to eliminate several of the barriers that challenge bicycling in Wauwatosa. One way in which intersection safety can be increased is through the installation of highly-visible pavement markings and signage. At a minimum, it is critical to ensure that appropriate regulatory signage is present and that striping across intersections and their approaches is visible and well-maintained.

Painted striping should be inspected semi-annually and may require repainting annually or even more frequently. Thermoplastic, which is more durable and longer-lasting than paint, is a recommended alternative marking material.<sup>14</sup> A relatively new traffic control device, a “green lane” is installed by filling the bike lane with green paint or thermoplastic where it crosses a challenging intersection or right-turn lane. Intersections can be further enhanced by incorporating bike signals, which can give bikes a head-start across intersections, and bike boxes, which allow cyclists to wait in front of cars at red lights and avoid right-turn conflicts. However, where conditions are extremely hazardous and traffic volumes or right-of-way preclude intersection modifications, a grade-separated crossing may be the best solution. These can take the form of a bridge over the roadway, or an underpass/tunnel under the street.

**Policy Recommendation 5.2: Ensure that bicycle access is maintained when construction closes bikeways.**

Street reconstruction, water and sewer repair, and other disruptive projects are unavoidable occurrences in any established community. While it is not realistic to completely avoid disrupting bicycle traffic during construction, reasonable efforts should be made to ensure bicycle access, either by means of temporary lane relocation or detours to alternate routes. As a rule of thumb, if it is possible to maintain car access along the street, bike access should also be maintained. For any closures, bicyclists should be alerted ahead of the closure or even before the detour so they can plan their route.

<sup>14</sup> While significantly more durable than paint, thermoplastic still requires repair and replacements on a regular basis. Typically every three to five years.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

~~Recommendation Objective 6: Ensure that all Evaluate future development and redevelopment for the inclusion of includes bicycle accommodations accommodations through adoption of a Complete Streets policy and code updates.~~

Ideally, bicycle and pedestrian facilities and infrastructure should be included with all street projects when they are initially constructed, or when streets are reconstructed. Including bicycle and pedestrian facilities at this time is less expensive than retrofitting facilities as stand-alone projects.

~~Policy Recommendation 6.1: Craft and Adopt a binding Complete Streets resolution and encourage other agencies with jurisdiction over streets within Wauwatosa to adhere to the policy a Wauwatosa tailored complete streets ordinance to facilitate biking accommodations in the City.~~

~~The adoption of a binding Complete Streets policy that requires a~~ All major street and road projects can follow this ordinance to include adequate accommodation for bicycles and pedestrians that will help further the implementation of this plan. The policy should also apply to streets built by private developers, such as interior circulating streets in a newly-developed site. A model Complete Streets ordinance can be used to offer guidance and is provided in Appendix E.

Currently the State of Wisconsin has a version of a complete streets law for bicycle and pedestrian accommodations (SS 84.01(35)). If State or Federal funds are used for a project, bicycle and pedestrian accommodations are to be included in the project unless there is justification for not including them. Exceptions are provided in State law and a rule (Trans 75).

~~Policy Recommendation 6.2: Update the bicycle parking requirements in the Municipal Code to require more bicycle parking.~~

~~The existing zoning requirements for the inclusion of bicycle parking require minimal numbers of bicycle racks. The code should be updated to reflect the following:~~

- ~~• For all residential uses, including those in combination with other uses, at least ninety percent (90%) of required resident bicycle parking shall be designed as long term parking. Any guest parking shall be designed as short term parking.~~
- ~~• For all other uses, at least ninety percent (90%) of all bicycle parking shall be designed as short term parking.~~

~~In addition the table of minimum bicycle parking requirements should be updated to reflect the following:~~

~~Table 1: Recommended minimum bicycle parking requirements~~

| <del>Use</del>                              | <del>Short term Bicycle Parking Spaces Required</del>     |
|---|---|
| <del>Multi-unit Residential</del>           | <del>1 space per dwelling units; 2 space minimum</del>    |
| <del>Multi-unit Residential (elderly)</del> | <del>1 space per 4 dwelling units; 2 space minimum</del>  |
| <del>Commercial, Public and Civic</del>     | <del>1 per 10 motor vehicle spaces; 4 space minimum</del> |
| <del>Industrial</del>                       | <del>1 per 10 motor vehicle spaces; 4 space minimum</del> |

## 3.4 | Bicycle Facility Recommendations

### 3.4.1 | Background

The facility recommendations in this plan include both short-term and long-term recommendations. Some facilities, such as shared lane marking and some bike lanes could easily be implemented in the very near term, while others will take more time due to space or financial constraints. For example, for bicycle lanes to be provided on some streets, the street may need to be widened; however, the opportunity to widen may only occur when the street is scheduled for reconstruction, which may be many years in the future. When and whether or not this happens is subject to a host of issues including zoning and potential future zoning changes, the development market and economic conditions, and community input provided during the public involvement processes associated with land and street development. In the short run, the City may choose to install another bikeway type such as shared lane markings, or the street may not be of high enough priority and potential use for any action to be taken until development/redevelopment occurs. Streets where both on-street and off-street facilities are recommended may have one facility developed in an earlier phase and the other in a later phase.

While a specific facility has been recommended for many streets, it is important to understand that interim facilities may be cost effective ways to improve conditions incrementally, allowing bicycle use to grow and creating the need for higher grade facilities that will more effectively serve larger volumes of bicyclists. Just as streets are incrementally managed to respond to changing volumes of motor vehicle traffic, the various types of bicycle accommodations may be applied as demand and usage grows over time.

### 3.4.2 | Street Jurisdiction

While this is a City of Wauwatosa plan it makes recommendations for lands and transportation facilities within the City that are under the jurisdiction of Milwaukee County and the State of Wisconsin. The Plan also includes recommendations for bicycle facilities on some City of Milwaukee streets. These recommendations are included in order to provide a complete and well-connected system of bikeways in Wauwatosa and connecting to adjacent municipalities. The City will need to work with the proper jurisdictions to implement the recommendations of this plan in consideration of consistency with the jurisdiction's written plans and the priority assigned by the jurisdiction. The City should explore options including cost and maintenance sharing if it results in the implementation of plan elements on streets under the jurisdiction of other entities.

3.4.3 | On-Street Bicycle Facility Types

The tables below provide brief descriptions of the different types of on-street bicycle facilities included in the plan recommendations.

Bike Lane

A bike lane is a pavement marking that designates a portion of a street for the preferential or exclusive use of bicycles. Bike lane markings are typically dashed where vehicles are allowed to cross the bike lane, such as for right turns or at bus stops. Bike lanes are recommended on two-way arterial and collector streets where there is enough width to accommodate a bike lane in both directions, and on one-way streets where there is enough width for a single bike lane.



Buffered Bike Lane

Buffered bike lanes are created by striping a buffer zone between a bike lane and the adjacent travel lane. Some buffered bike lanes also offer a painted buffer between the bike lane and an adjacent parking lane. Buffered bike lanes should be considered at locations where there is excess pavement width or where adjacent traffic speeds are above 35 mph.



Contraflow Bike Lane

Contraflow bike lanes run in the opposite direction of other traffic on a one-way street. Contraflow bike lanes provide bike access on one-way streets where bicyclists may otherwise ride against traffic or on the sidewalk. Contraflow bike lanes may be separated from other traffic by painted lines, a painted buffer, or a physical delineator.



## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

### Climbing Bike Lane

A climbing lane is a bikeway design for a two-way street that has a steep slope and insufficient width to permit bike lanes in both directions. A bike lane (the climbing lane) is provided in the uphill direction to accommodate slow moving bicyclists in the uphill direction and a shared lane marking is provided in the downhill direction, where bicyclists can typically travel at speeds close to motor vehicles.



### Colored Bike Lane

All of the above bike lanes may have green color applied to them to highlight the presence of the bike lane. Colored lanes are typically used in high-conflict areas such as through complicated intersections, in areas where traffic is merging across the bike lane, or in areas where traffic frequently turns across the bike lane. In 2011, colored bicycle lanes received interim approval from FHWA to be used on streets, thereby making way for their ultimate inclusion in the Manual of Uniform Traffic Control Devices in its next update.



### Cycletrack

A cycletrack is a bicycle facility that is physically separated from both the street and the sidewalk. A cycletrack may be constructed at street level using street space, or at the sidewalk level using space adjacent to the street. Cycletracks separate bicyclists from motor vehicle traffic using a variety of methods, including curbs, raised concrete medians, bollards, on-street parking, large planting pots/boxes, landscaped buffers (trees and lawn), or other methods. Cycletracks designed to be level with the sidewalk should provide a vertical separation between bicyclists and pedestrians, as well as a different surface treatment to delineate the bicycle from the pedestrian space (such as asphalt vs. concrete). Cycletracks can be one way for bicycles on each side of a two-way road, or two-way, and installed on one or both sides of the road. Cycletracks provide cyclists with a higher level of comfort compared to bike lanes, and are typically used on large multi-lane arterials where higher vehicle speeds exist. They may also be appropriate on high-volume but lower-speed streets.



City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Neighborhood Greenway

A neighborhood greenway, sometimes also called a bicycle boulevard, is a street with low motorized traffic volumes and speeds designated to provide priority to bicyclists and neighborhood motor vehicle traffic. Neighborhood greenways may simply have signs and shared lane markings, or may include traffic calming elements including speed humps, traffic circles, chicanes, or traffic diverters. Neighborhood greenways benefit neighborhoods by reducing cut-through traffic and speeding without limiting access by residents.



Shared Lane Marking – Collector or Arterial Street

Shared lane markings (sharrows) are used on streets where bicyclists and motor vehicles share the same travel lane. The sharrow helps position bicyclists in the most appropriate location to ride. It also provides a visual cue to motorists that bicyclists have a right to use the street. On a four lane street, sharrows should be placed in the outside lane. If the outside travel lane is too narrow for a motorist to comfortably pass a cyclists while staying within the travel lane (generally less than 13 feet) the sharrow marking may be centered in the lane. This encourages cyclists to “take the lane,” and encourages motorists to use the left lane to pass. In a 12-14 foot lane, the marking may be offset from the curb by 4 feet. For 10-12 foot lanes, the BIKES MAY USE FULL LANE SIGN is recommended, because drivers are not used to sharing the road with cyclists and may not provide comfortable clearance when passing. Sharrows are not appropriate on streets with speed limits greater than 35 mph.



Shared Lane Marking – Neighborhood Street

Shared lane markings (sharrows) may also be used on residential streets to designate bicycle facilities where there is not sufficient width for bike lanes. Studies have shown that sharrows direct bicyclists away from the “door zone” of parked cars, alert motorists of appropriate bicyclist positioning and encourage safe passing of bicyclists by motorists.



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

**Signed Bike Route**

Signed bike routes provide distance and directional information as a wayfinding aid for bicyclists. Signed routes may be established on streets, trails or any combination of facility types that offer a continuous bicycling environment. Signs should offer cyclists information about alternative routes and accessible destinations from their current location, and not simply designate the street as a bike route. They also can be used to suggest the types of conditions cyclists can expect on a route by referencing trails or roadways by name. Signed routes provide new cyclists greater confidence when they are exploring utilitarian cycling for the first time or when they are in unfamiliar territory. Signed routes can also prevent cyclists from getting lost in residential areas with curvilinear street layouts and few through streets.



**Bike Box (Advanced Stop Line)**

Bike boxes are street markings at signalized intersections that allow bicyclists to move to the front of a traffic queue during the red signal phase. Allowing bicyclists to move to the front of the queue can increase their visibility to motorists and can reduce "right-hook" crashes with motorists at the beginning of the green signal phase. Bike boxes can also aid cyclists in position for left turns. This plan does not recommend any specific locations for bike boxes, but they should be considered on streets with bike lanes as the proposed bicycle network is more fully implemented.



**3.4.4 | Off-Street Bicycle Facility Types**

The tables below provide brief descriptions of the different types of off-street bicycle facilities included in the plan recommendations.

**Shared-Use Path**

A shared use path is an off -street bicycle and pedestrian facility that is physically separated from motor vehicle traffic. Typically shared use paths are located in an independent right-of-way such as in a park, stream valley greenway, along a utility corridor, or an abandoned railroad corridor. Shared-use paths are used by other non-motorized users including pedestrians, skaters, wheelchair users, joggers, and sometimes equestrians.



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

## Sidepath

A sidepath is a shared use path located adjacent to roadway. It is designed for use by bicyclists and pedestrians and each may travel in either direction. Sidepaths are sometimes created by designating a wide sidewalk for shared use, or they may be a segment of a longer trail or network of trails. Sidepaths are sometimes provided to facilitate connections to on- and off-street bicycle facilities. A sidepath is not generally a substitute for on-street bicycle facilities, but may be considered in constrained conditions, or in addition to on-street facilities. Sidepaths may not be appropriate in areas of high pedestrian activity unless there is space to successfully manage conflicts.



Design details for these facility types are available from the following resources:

- The American Association of State Highway and Transportation Officials (AASHTO) *Guide for the Development of Bicycle Facilities*, 4<sup>th</sup> Edition (2012)  
[https://bookstore.transportation.org/item\\_details.aspx?id=1943](https://bookstore.transportation.org/item_details.aspx?id=1943)
- The Federal Highway Administration's (FHWA) *Manual on Uniform Traffic Control Devices* (2009)  
<http://mutcd.fhwa.dot.gov/>
- The Wisconsin Department of Transportation's *Wisconsin Bicycle Facility Design Handbook* (2004)  
<http://www.dot.wisconsin.gov/projects/state/docs/bike-facility.pdf>
- The National Association of City Transportation Officials (NACTO) *Urban Bikeway Design Guide* (2012)  
<http://nacto.org/cities-for-cycling/design-guide/>

## 3.4.5 | Bicycle Network

Table 1 provides a summary of the total miles of different bikeways recommended by this plan.

Table 1: Summary of existing and proposed bikeways in Wauwatosa.

| Facility               | Existing*    | Proposed     | Total         |
|------------------------|--------------|--------------|---------------|
| Bike Lanes             | 3.31         | 41.26        | 44.57         |
| Cycle Tracks           | 0.00         | 0.03         | 0.03          |
| Neighborhood Greenways | 0.00         | 20.96        | 20.96         |
| Shared Lane Markings   | 0.00         | 3.75         | 3.75          |
| Signed Bike Routes     | 0.00         | 3.59         | 3.59          |
| Shared Use Paths       | 14.15        | 22.11        | 36.26         |
| <b>Total</b>           | <b>17.46</b> | <b>91.70</b> | <b>109.16</b> |

\* Miles of existing facilities are approximate

Tables 2 through 7 provide the full bicycle network recommendations by facility type. Each facility recommendation includes the streets, paths, or other features that bound the recommended facility, as well as the approximate facility length in miles. Map 3 following the tables displays the recommended bicycle network as well as existing bikeways in the City of Wauwatosa. A listing of the recommended bikeways including implementation comments and planning-level cost estimates is provided in Appendix C.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 2: Recommended bike lanes

| Street                   | From                                   | To                             | Miles             |
|--------------------------|--|--------------------------------|-------------------|
| Discovery Pkwy.          | N. Swan Blvd.                          | W. Watertown Plank Rd.         | 0.59              |
| Harwood Ave.             | W. Watertown Plank Rd.                 | N. Glenview Ave.               | 0.18              |
| Harwood Ave.             | W. State St.                           | N. Wauwatosa Ave.              | 0.10              |
| Milwaukee Ave.           | N. 83rd St.                            | N. 60th St.                    | 1.47              |
| N. 100th St.             | W. Hampton Ave.                        | W. Keefe St.                   | 1.56              |
| N. 124th St.             | W. Hampton Ave.                        | W. Capitol St.                 | 1.09              |
| N. 124th St.             | W. Burleigh St.                        | W. North Ave.                  | 1.00              |
| N. 124th St.             | W. North Ave.                          | W. Watertown Plank Rd.         | 1.00              |
| N. 124th St.             | W. Capitol St.                         | W. Burleigh St.                | 1.80              |
| N. 60th St.              | W. Center St.                          | Milwaukee Ave.                 | 1.25              |
| N. 68th St.              | W. State St.                           | W. Mount Vernon Ave.           | 0.85              |
| N. 68th St.              | Milwaukee Ave                          | W. State St.                   | 0.37              |
| N. 92nd St.              | W. Hampton Ave.                        | W. Capitol St.                 | 1.06              |
| N. 92nd St.              | W. Watertown Plank Rd.                 | W. Wisconsin Ave.              | 0.47              |
| N. 92nd St.              | W. Michigan St.                        | W. Schlinger Ave.              | 0.95              |
| N. Glenview Ave          | W. <del>Bluemound</del> Blue Mound Rd. | N. Honey Creek Pkwy.           | 0.49              |
| N. Mayfair Rd.           | W. Hampton Ave.                        | I-94                           | 5.18              |
| N. Menomonee River Pkwy. | Harwood Ave.                           | W. Congress St.                | 4.62              |
| N. Swan Blvd.            | W. Center St.                          | W. Watertown Plank Rd.         | 1.96              |
| N. Wauwatosa Ave.        | W. Center St.                          | W. State St.                   | 0.83              |
| W Grantosa Dr.           | N. 100th St.                           | N. 94th St.                    | 0.44              |
| W. Burleigh St.          | N. 124th St.                           | N. Menomonee River Pkwy.       | 1.59              |
| <u>W. Capitol Dr.</u>    | <u>N. Menomonee River Pkwy.</u>        | <u>N. 100<sup>th</sup> St.</u> | <u>0.76</u>       |
| W. Center St.            | N. 124th St.                           | N. Mayfair Rd.                 | 0.96              |
| W. Congress St.          | W. Menomonee River Pkwy.               | N. Mayfair Rd.                 | 0.16              |
| W. Congress St.          | N. 94th St.                            | N. 92nd St.                    | 0.15              |
| W. Hampton Ave.          | N. Mayfair Rd.                         | N. 92nd St.                    | 1.28              |
| W. North Ave.            | N. 124th St.                           | N. 60th St.                    | 4.07              |
| W. Potter Rd.            | N. 115th St.                           | N. Mayfair Rd.                 | 0.46              |
| W. State St.             | Harwood Ave.                           | N. 60th St.                    | 1.13              |
| W. Watertown Plank Rd.   | N. 124th St.                           | N. Mayfair Rd.                 | 0.99              |
| W. Wisconsin Ave         | N. Mayfair Rd.                         | N. Hawley Rd.                  | 3.21              |
|                          |  |                                | <del>43.264</del> |
|                          |  |                                | <b>Total 3.14</b> |

Table 3: Recommended cycletracks

| Street            | From          | To               | Miles             |
|-------------------|---------------|------------------|-------------------|
| N. Wauwatosa Ave. | Stickney Ave. | W. Garfield Ave. | 0.01              |
| W. Center St.     | N. 118th St.  | N. 117th Pl.     | 0.02              |
|                   |               |                  | <b>Total 0.03</b> |

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

Table 4: Recommended neighborhood greenways

| Street                    | From                            | To                     | Miles        |
|---------------------------|---------------------------------|------------------------|--------------|
| Washington Cir.           | Hillcrest Dr.                   | W. Washington Blvd.    | 0.18         |
| W. Ruby Ave. Extension    | N. 105th St.                    | East end               | 0.61         |
| W. Diane Dr.              | N. 124th St.                    | East end               | 0.13         |
| W. Wirth St.              | N. 124th St.                    | N. 119th St.           | 0.27         |
| W. Martin Dr.             | N. 62nd St.                     | Martha Washington Dr.  | 0.05         |
| W. Garfield Ave.          | N. 67th St.                     | N. 60th St.            | 0.44         |
| W. Wells St.              | N. 76th St.                     | N. Hawley Ave.         | 1.20         |
| Hillcrest Dr.             | N. 83rd St.                     | Washington Cir.        | 1.15         |
| W. Hawthorne Ave.         | N. 92nd St.                     | N Glenview Ave.        | 0.51         |
| Wilson Blvd.              | N. 97th St.                     | N. Swan Blvd           | 0.29         |
| W. Glendale Ave.          | N. Delco Ave.                   | East end               | 0.82         |
| W. Congress St.           | N. Mayfair Rd.                  | N. 105th St.           | 0.39         |
| W. Courtland Ave.         | N. Mayfair Rd.                  | N. Parkside Dr.        | 0.08         |
| N. 97th St.               | N. Menomonee River Pkwy.        | Wilson Blvd.           | 0.15         |
| Portland Ave.             | N. Robertson St.                | N. 76th St.            | 0.50         |
| Stickney Ave.             | N. Swan Blvd.                   | N. Wauwatosa Ave.      | 1.01         |
| W. Wright St.             | N. Swan Blvd.                   | N. 60th St.            | 2.03         |
| W. Garfield Ave.          | N. Wauwatosa Ave.               | N. 68th St.            | 0.53         |
| N. 76th St.               | Portland Ave.                   | W. Wells St.           | 0.08         |
| N. 85th St.               | Ravenswood Cir.                 | W. Hawthorne Ave.      | 0.19         |
| Ravenswood Cir.           | W. Blue Mound Rd.               | N. 85th St.            | 0.12         |
| N. 117th St.              | W. Burleigh St.                 | W. Hadley St.          | 0.46         |
| N. 118th St.              | W. Center St.                   | W. Watertown Plank Rd. | 1.61         |
| N. 65th St.               | W. Center St.                   | W. Lloyd St.           | 0.77         |
| N. 70th St.               | W. Center St.                   | W. Mount Vernon Ave.   | 2.41         |
| N. 83rd St.               | W. Center St.                   | Milwaukee Ave.         | 1.08         |
| N. 88th St.               | W. Center St.                   | W. North Ave.          | 0.51         |
| N. Parkside Dr.           | W. Courtland Ave.               | N. Delco Ave.          | 0.16         |
| N. 115th St.              | W. Diane Dr.                    | W. Park Hill Ave.      | 0.82         |
| N. 117th Pl.              | W. Hadley St.                   | W. Center St.          | 0.14         |
| Martha Washington Dr.     | W. Lloyd St.                    | W. Martin Dr.          | 0.77         |
| N. 62nd St.               | W. Martin Dr.                   | W. State St.           | 0.18         |
| Charles Hart Pkwy.        | W. Menomonee River Pkwy.        | Milwaukee Ave.         | 0.14         |
| N. 105th St.              | W. Ruby Ave.                    | W. Congress St.        | 0.12         |
| N. Robertson St.          | W. Watertown Plank Rd.          | W. Blue Mound Rd.      | 0.71         |
| W. Washington Blvd.       | Washington Cir.                 | N. 60th St.            | 0.35         |
| <u>Jackson Park Blvd.</u> | <u>N. Menomonee River Pkwy.</u> | <u>City Hall</u>       | <u>1.20</u>  |
| <b>Total</b>              |                                 |                        | <b>20.96</b> |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 5: Recommended shared lane markings ("sharrows")

| Street                               | From               | M                            | Miles             |
|--------------------------------------|--------------------|------------------------------|-------------------|
| Harwood Ave.                         | N. Glenview Ave.   | Pedestrian bridge            | 0.23              |
| Harwood Ave.                         | N. Wauwatosa Ave.  | Milwaukee Ave.               | 0.24              |
| Luddington Ave.                      | W. North Ave.      | N. 83rd St.                  | 0.68              |
| N. 68th St.                          | W. Center St.      | Milwaukee Ave.               | 1.14              |
| N. 91st St.                          | W. Wisconsin Ave.  | W. Michigan St.              | *                 |
| N. 93rd St.                          | W. Wisconsin Ave.  | W. Michigan St.              | *                 |
| N. 99th St.                          | W. Keefe Ave.      | W. Concordia Ave.            | 0.25              |
| Private St.                          | N. Mayfair Rd.     | W. Center St. Connector Path | 0.49              |
| W. Concordia Ave.                    | N. 99th St.        | N. Menomonee River Pkwy.     | 0.14              |
| W. Keefe Ave.                        | N. 100th St.       | N. 99th St.                  | 0.06              |
| W. Michigan St.                      | N. 91st St.        | N. 93rd St.                  | *                 |
| W. Potter Rd.                        | W. Underwood Pkwy. | N. 115th St.                 | 0.52              |
| * Street is in the City of Milwaukee |                    |                              | <b>Total</b> 3.75 |

Table 6: Recommended signed bike routes

| Street                | From                                   | To           | Miles       |
|-----------------------|--|--------------|-------------|
| Honey Creek Pkwy.     | W. <del>Bluemound</del> Blue Mound Rd. | N. 60th St.  | 1.88        |
| Underwood Creek Pkwy. | W. Watertown Plank Rd.                 | N. Swan Blvd | 1.71        |
| <b>Total</b>          |  |              | <b>3.59</b> |

Table 7: Recommended grade-separated crossings

| Location  | Description   |
|---|---|
| West Concordia Avenue Bridge                      | Bridge over the Menomonee River for a planned shared use path                             |
| <del>Menomonee River Parkway / Mayfair Road</del> | <del>Grade separation for planned shared use path along the Menomonee River Parkway</del> |
| North Swan Boulevard Underpass                    | Underpass of reconstructed North Swan Boulevard   |
| Underwood Creek Bridge                            | Bridge over Underwood Creek for a planned shared use path                                 |
| Hansen Park Rail Underpass                        | Expansion of existing underpass to better accommodate bicyclists and pedestrians          |
| <del>West Center Street River Bridge</del>        | <del>Bridge over the Menomonee River for a planned shared use path</del>                  |
| West Center Street / Mayfair Road                 | Grade separation for a planned crossing of Mayfair Road                                   |

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

Table 8: Recommended shared use paths

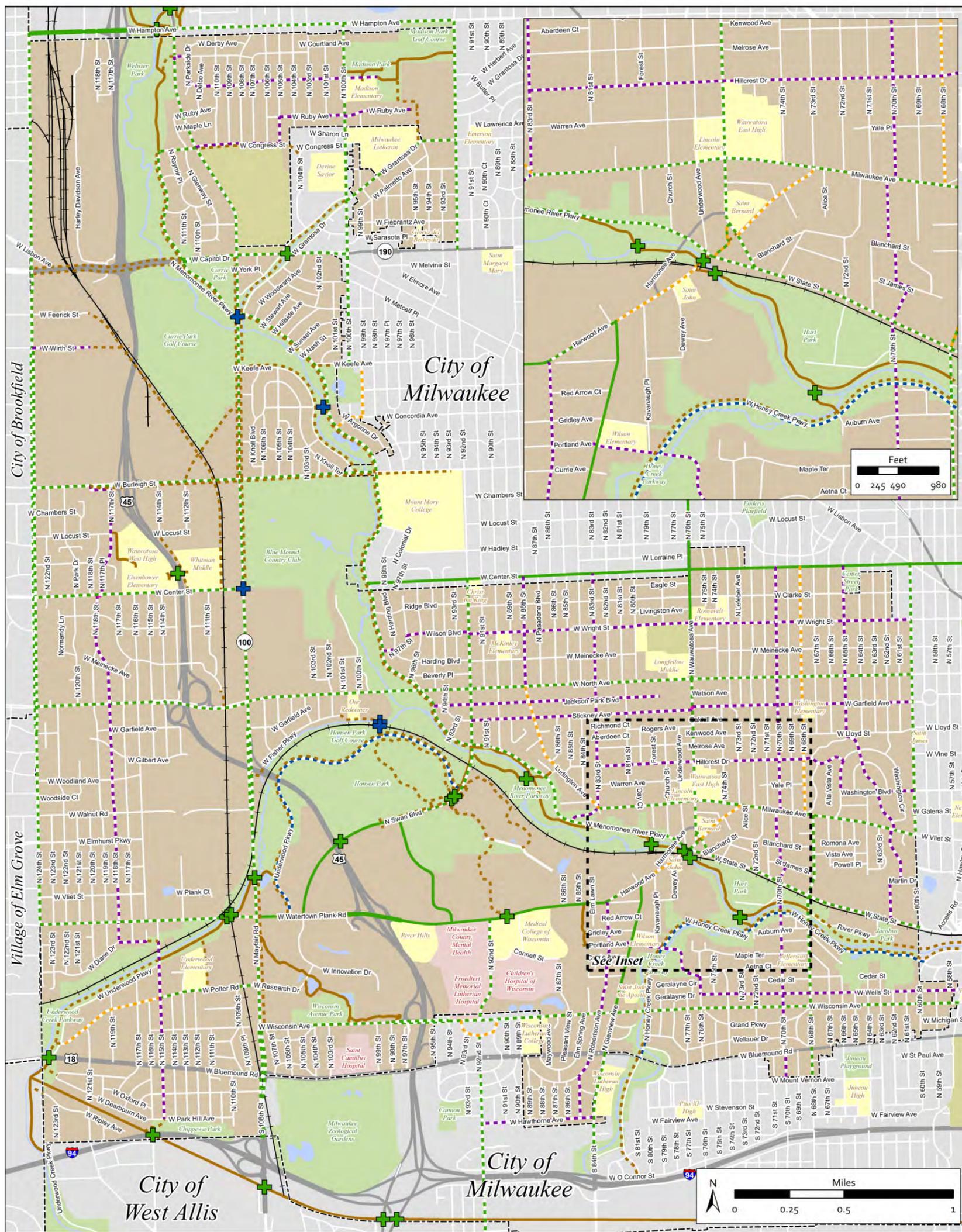
| Street   | From                                    | To                                  | Length (mi)       |
|--|---|-------------------------------------|-------------------|
| Burleigh Path (117th to Mayfair)                 | N. 117th St.                            | N. Mayfair Rd.                      | 0.69              |
| Burleigh Path ( <del>Bluemound</del> Blue Mound) | N. Mayfair Rd.                          | N. Menomonee River Pkwy.            | 0.63              |
| Burleigh Sidepath (Mt. Mary)                     | N. Menomonee River Pkwy.                | N. 93rd St.                         | 0.34              |
| Center St. Connector                             | Private Street                          | W. Center St.                       | 0.53              |
| Grantosa Connection                              | Madison Park                            | W. Grantosa Dr.                     | 0.38              |
| Grantosa Path                                    | N. Menomonee River Pkwy.                | N. 100th St.                        | 0.73              |
| Hanson Golf Course Connection                    |   | Underwood Pkwy                      | 0.27              |
| Harwood Ave. Connector                           | Harwood Ave.                            | Harwood Ave                         | 0.03              |
| Menomonee River Parkway West Path                | N. Menomonee River Pkwy.                | W. Burleigh St.                     | 1.06              |
| MMSD Paths                                       | Underwood Pkwy                          | N. Swan Blvd.                       | 1.11              |
| MMSD Paths                                       | N. Swan Blvd.                           | W. Watertown Plank Rd.              | 1.54              |
| N. 115th St. Connector                           | N. 115th St.                            | Hank Aaron State Trail              | 0.11              |
| N. Mayfair Rd. Sidepath                          | Oak Leaf Trail                          | W. Wisconsin Ave.                   | 0.68              |
| N. Mayfair Rd. Sidepath (East)                   | W. Keefe Ave.                           | W. Burleigh St.                     | 0.51              |
| N. Mayfair Rd. Sidepath (West)                   | W. Capitol Dr.                          | W. Burleigh St.                     | 1.03              |
| N. Menomonee River Pkwy.                         | Path                                    | W. Courtland Ave.                   | 0.11              |
| N. Menomonee River Pkwy. Sidepath                | W. Congress St.                         | Existing path at N. 91st St.        | 3.54              |
| N. Swan Blvd. Sidepath                           | Underwood Creek Pkwy.                   | New roundabout                      | 0.40              |
| Northwest Rail Trail                             | W. Feerick St.                          | W. Center St.                       | 1.47              |
| Oak Leaf Trail Underwood Extension               | W. <del>Bluemound</del> Blue Mound Pkwy | N. 115th St.                        | 0.71              |
| South Honey Creek Path                           | W. O'Connor St.                         | N. Hawley Rd.                       | 2.69              |
| Swan Blvd. Underpass                             | Hansen Park                             | County Grounds                      | 0.06              |
| Underwood Elementary School Path                 | Underwood Creek Path                    | W. Potter Rd.                       | 0.24              |
| Underwood Parkway Path                           | W. Watertown Plank Rd.                  | N. Swan Blvd.                       | 1.74              |
| W. <del>Bluemound</del> Blue Mound Rd. Underpass | at Underwood Creek                      |                                     | 0.03              |
| <del>W. Concordia Ave. Bridge</del>              | <del>N. Menomonee River Pkwy.</del>     | <del>N. Menomonee River Pkwy.</del> | 0.05              |
| W. Congress St. Sidepath                         | N. Mayfair Rd.                          | N. 104th St.                        | 0.49              |
| W. Dearbourn Ave. Extension                      | W. Dearbourn Ave.                       | HAST Connection                     | 0.07              |
| W. Diane Dr. Connector                           | W. Diane Dr.                            | N. 115th St.                        | 0.05              |
| W. Garfield Ave. Connector                       | W. Garfield Ave.                        | W. Garfield Ave.                    | 0.03              |
| W. Keefe Ave. Sidepath                           | N. Menomonee River Pkwy.                | N. 100th St.                        | 0.16              |
| W. Meinecke Ave Extension                        | W. Meinecke Ave.                        | W. North Ave.                       | 0.08              |
| W. Ripley Ave. Extension                         | W. Ripley Ave.                          | Underwood Creek Path                | 0.07              |
| W. Ruby Ave. Extension                           | W. Ruby Ave.                            | Planned path                        | 0.03              |
| Whitman School Connection                        | N. 114th St.                            | W. Center St.                       | 0.30              |
| Wirth Street Extension                           | Wirth St.                               | Northwest Rail Trail                | 0.15              |
| <del>W. Capitol Dr. Sidepath (Both Sides)</del>  | <del>N. 124<sup>th</sup> St.</del>      | <del>N. Menomonee River Pkwy.</del> | <del>1.37</del>   |
| <del>Curry Park Path</del>                       | <del>W. Burleigh St.</del>              | <del>N. Mayfair Rd.</del>           | <del>0.42</del>   |
| <b>Total</b>                                     |   |                                     | <del>22.112</del> |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

Figure 5: Map of existing and proposed bicycle facilities

# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

## Map 3: DRAFT Proposed Bicycle Network



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

### Legend

#### Land Use

- City of Wauwatosa
- Park / Golf Course
- School
- Hospital
- Cemetary
- Water

#### Bikeways (Existing)

- Bike Lane
- Shared Use Path
- Overpass / Underpass

#### Other Symbols

- Railroad

#### Bikeways (Planned)

- Bike Lane
- Shared Lane Markings
- Neighborhood Greenway
- Signed Bike Route
- Cycletrack (2-way)
- Shared Use Path
- Overpass / Underpass

### Planned Bikeway Network

This map displays planned bikeways in Wauwatosa.

The plan includes a mixture of on-street and off-street bikeways to serve a wide variety of cyclists. The network has been designed to provide connectivity throughout the city, and to connect to commercial areas, places of employment, schools, parks, and neighboring municipalities.

Data provided by Milwaukee County Land Information Office, the Wisconsin Department of Transportation, the U.S. Census Bureau and the Wisconsin Bike Fed. Plot date 01/27/2014.

*Page intentionally left blank.*

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

### 3.4.6 | Signing of the Bicycle Network

Wayfinding signs provide information about destinations, direction, and distance to help bicyclists determine the best route to take to major destinations. Signs provide on-the-ground information that help bicyclists understand and use the on- and off-street network without the use of a map. Directional signs also provide additional messaging to motorists to expect bicycles on the roadway. The presence of signs encourages bicycling on designated corridors because users feel the signs will direct them to the best route for getting to their destination. Signs may also be used to direct bicyclists around barriers. Wayfinding is particularly important for Wauwatosa since it has an extensive grid network of neighborhood streets that can be enhanced for longer bicycle journeys with wayfinding signs.

Wayfinding is an important component of establishing the recommended bicycle network. Wayfinding signs may be used alone as a signed route, or in combination with other pavement markings such as bike lanes or shared lane markings. The installation of signs and other bicycle network improvements do not need to occur at the same time. For example, for some lower speed/lower volume streets, installation of wayfinding signage may precede the striping of bike lanes, and could be used as an interim step toward implementing additional recommended treatments. The recommended network consists of several signed routes that have no pavement markings. Over time, the City may find it makes sense to add additional signed routes to the network. The decision to develop a signed route versus installing a bike lane or shared lane marking may be based on the following criteria:

- Alternate routes parallel, and within close proximity (less than a half mile), to a route with bicycle facilities.
- Lower volume streets.
- Spur routes, or routes that may span a relatively short distance and terminate at a specific destination or loop back into the main route.

As noted in ~~Policy~~ Recommendation 4.1, the City should sign its bikeway network as it develops. Signs should include wayfinding indicating to users the direction, distance, and approximate time to specific locations around the city. Guidance for establishing a comprehensive wayfinding system based on the latest Manual on Uniform Traffic Control Devices (MUTCD) standards, the American Association of State Highway Transportation Officials (AASHTO) bicycle guidelines, and the Wisconsin Department of Transportation *Bicycle Facility Design Handbook*.

- The American Association of State Highway and Transportation Officials (AASHTO) *Guide for the Development of Bicycle Facilities*, 4<sup>th</sup> Edition (2012)  
[https://bookstore.transportation.org/item\\_details.aspx?id=1943](https://bookstore.transportation.org/item_details.aspx?id=1943)
- The Federal Highway Administration's (FHWA) *Manual on Uniform Traffic Control Devices* (2009)  
<http://mutcd.fhwa.dot.gov/>
- The Wisconsin Department of Transportation's *Wisconsin Bicycle Facility Design Handbook* (2004)  
<http://www.dot.wisconsin.gov/projects/state/docs/bike-facility.pdf>

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

### 3.5 | Implementation

Implementation includes a series of action items and recommended coordination to help prioritize next steps and undertake the recommendations in the plan. This section discusses implementation measures related to bicycle facilities, while Chapter 5 discusses measures associated with bicycle programs related to education, enforcement, and encouragement efforts.

~~Recommendation Objective~~ 1 of this plan calls for a dramatic expansion of the on-street bicycle network in the city. Table 9 provides basic implementation steps and the agencies or departments that will be involved in implementing this objective.

Table 9: Actions and responsible agencies/departments for on-street bicycle network objective

| Action   | Responsible Agency/Department |
|--|-------------------------------|
| 1. Follow the recommendations for on-street bikeways presented in this plan.   | City, County, WisDOT          |
| 2. Provide bicycle facilities on or along all collector and arterial streets in the city.  | City, County, WisDOT          |
| 3. Create Safe Routes to School Plans for key schools that identify further on-street bicycle facility gaps or needs associated with those school areas. | City, School District         |
| 4. Follow WisDOT, AASHTO and/or NACTO guidance for all on-street bikeways.   | City                          |
| 5. Consider the need for on-street bicycle facilities with every street resurfacing or reconstruction that the City carries out.                         | City                          |

Similarly, ~~Recommendation Objective~~ 2 of this plan calls for expanding the off-street bikeway network in Wauwatosa. Table 10 provides basic implementation steps and the agencies that will be involved in implementing this objective.

Table 10: Actions and responsible agencies/departments for off-street bicycle network objective

| Action   | Responsible Agency/Department |
|--|-------------------------------|
| 1. Strongly encourage the Milwaukee County Parks Department to include a shared use path with the planned reconstruction of the Menomonee River Parkway. | City, County                  |
| 2. Work to close key gaps in the existing off-street bikeway network.  | City, County, WisDOT          |
| 3. Provide high-visibility crossing treatments where off-street bikeways cross arterial and collector streets.   | City, County, WisDOT          |

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

### 3.6 | Planning-Level Cost Estimates

Planning-level costs for implementation of the bikeway network are based on 2011 national figures for specific facility types. The costs have been adjusted for inflation. A detailed breakdown of how cost estimates were determined for each facility type is included in Appendix D. It should be noted that the costs provided include high quality thermoplastic pavement markings and a 25 percent contingency built in to the cost. These costs should only be used for planning-level cost estimation; actual costs will vary from project to project and year to year. Tables 12 and 13 display the projected planning-level costs for the bicycle facilities in the recommended network.

It is important to note that the planning-costs provided are for installing the proposed facilities as stand-alone projects. When possible, the City should install proposed facilities as part of scheduled street projects such as resurfacing or reconstruction. Doing so can greatly reduce the cost of the new facilities and may allow state or Federal funds to be used.

Table 11: Planning level cost estimates for on-street bicycle facility recommendations

| On-street facilities           | Miles        | Cost Est.          |
|--------------------------------|--------------|--------------------|
| Bike Lanes                     | 41.26        | \$2,608,000        |
| Neighborhood Greenway          | 20.96        | \$69,000           |
| Signed Bike Route              | 3.59         | \$12,000           |
| Shared Lane Marking (Sharrows) | 3.75         | \$43,000           |
| <b>GRAND TOTAL</b>             | <b>69.56</b> | <b>\$2,732,000</b> |

Table 12: Planning-level cost estimates for off-street bicycle facility recommendations

| Off-street facilities | Miles        | Cost Est.           |
|-----------------------|--------------|---------------------|
| Two-way Cycle Track   | 0.03         | \$45,000            |
| Shared use Path       | 22.11        | \$10,869,000        |
| <b>GRAND TOTAL</b>    | <b>22.48</b> | <b>\$10,914,000</b> |

Table 14 displays general cost ranges for grade-separated bicycle and pedestrian facilities. Costs for these types of facilities can vary widely, and the costs provided should only be used as a rough planning guide. As with other bicycle facilities, it is most efficient to construct grade-separated facilities, particularly underpasses, when the street being crossed is reconstructed.

Table 13: Planning level item cost estimates for grade-separated bicycle and pedestrian facilities

| Facility type            | Low Est.    | High Est.   |
|--------------------------|-------------|-------------|
| Small creek/river bridge | \$150,000   | \$350,000   |
| Street underpass *       | \$200,000   | \$1,000,000 |
| Street overpass          | \$1,250,000 | \$3,000,000 |

\* Assumes construction of underpass at same time as street reconstruction

Using the planning level costs provided in Table 14, the following cost ranges are provided for the facilities recommended in this plan:

Table 14: Planning level cost estimates for grade-separated bicycle and pedestrian facilities

| Facility type                | Low Est.           | High Est.          |
|------------------------------|--------------------|--------------------|
| Small creek/river bridge (3) | \$450,000          | \$1,050,000        |
| Street underpass (2)         | \$400,000          | \$2,000,000        |
| Street overpass (2)          | \$2,500,000        | \$6,000,000        |
| <b>GRAND TOTAL</b>           | <b>\$3,350,000</b> | <b>\$9,050,000</b> |

### 3.6.1 | Maintenance Costs

Once bicycle facilities are installed, they must be maintained in order to serve their intended purpose. Maintenance ranges from regular actions such as sweeping and minor damage repair, to intermediate-level actions such as restriping and replacing pavement markings, to large-scale actions such as resurfacing a shared use path. All of these maintenance activities carry a cost. In general, maintenance activities should be included, and funded, with the standard street maintenance schedule and budget. These items include sweeping, patching and crack repair, and restriping.

Establishing accurate estimates for maintenance of future bicycle facilities is difficult for several reasons. First, it is difficult to predict when different bicycle facilities will be built and operational. Second, maintenance costs, especially for shared use paths, vary considerably from year to year. For example, if the shoulders of a path are washed out with an unusually heavy rainstorm, maintenance costs for that year will be higher than average. Third, labor is an important cost factor in maintenance. If existing crews can handle minor day-to-day maintenance without depleting resources for other maintenance needs, overall costs will be held to minimum. However, at some point additional labor will be necessary and costs will be higher at that point. Fourth, maintenance of on-road bikeways will not significantly vary from existing maintenance costs. That is because neighborhood greenways, and even certain aspects of bicycle lanes (sweeping, crack and patching repairs, seal coats, resurfacings) would receive the same maintenance whether they were designated bikeways or not (the exception to that is bike lane markings). Fifth, marking materials (paint, epoxy, sprayed thermoplastic, and tape) having dramatically varying lives depending on the material chosen and will cause year to year variations. The following provides a range of estimates for different types of bikeways.

#### *Shared Use Paths*

This is likely to be the most difficult bikeway to estimate costs for. An estimate range is \$1,000 to \$2,000 per year per mile and does not include winter maintenance. That estimate may be high until the year when shoulder repair or major patching occurs. Of the 19 miles recommended for this plan, approximately five miles will be maintained by other maintaining authorities. A build-out of 10 miles in ten years would produce maintenance costs of \$10,000 to \$20,000 per year.

#### *Neighborhood Greenways*

Maintenance costs for neighborhood greenways are limited to the markings and signage provided on and along the streets. The streets themselves will not be marked with bicycle lanes and the typical maintenance needs of the street will remain the same. The painting of individual symbols (two per block) will cost approximately \$50 per symbol or \$1,000 per mile. The replacement of signs is also an important consideration. If signs are replaced on a ten year cycle, two signs would be replaced every mile at a cost of \$200. The plan recommends \_\_\_ miles of neighborhood greenways when totally built out. A build-out of approximately 10\_miles greenways in ten years will cost \$12,000 per year.

#### *Bicycle Lane and Shared Lane Markings*

It can generally be assumed that painted bike lanes will need to be restriped annually. This work should be performed at the same time as restriping of other street lines. The City of Wauwatosa provided cost estimates for restriping ranging from \$0.085 to \$0.11 per linear foot. If all of the bike lanes in this plan are implemented, the city will have 44.57 miles of streets with bike lanes. Assuming two lanes per street (one in each direction) and 1.5 lines per bike lane (some will require two lines if parking is allowed on the street, others will require only one line if next to the curb), the City will have 705,988 feet of line to maintain. Using a conservative estimate of \$0.10 to paint each linear foot of striping, the annual maintenance cost for bike lane lines will be \$70,599 per year. If half of the

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

bike lane markings were added in the next 10 years, the cost would be approximately \$35,300 annually. Additional funds should be budgeted for maintaining sharrows and other street markings related to bicycle facilities. For purposes of estimating maintenance costs, 12 bike lanes symbols are assumed to be used for every mile of bike lane. Another seven miles of shared lane markings are recommended with the same 12 symbols per mile being assumed. If all the facilities are marked approximately 600 symbols would be used at a cost of \$30,000. A partial build out of half of the marked facilities would cost \$15,000 per year.

### *Total Maintenance Costs*

Based on a partial build out of bikeways, total maintenance costs would range between \$80,000 and \$100,000. For complete build out of all recommended facilities maintenance costs would range from \$140,000 to \$160,000.

### 3.6.2 | Capital Costs

Capital costs include funding necessary to initially construct facilities. Considering the short term priorities as recommended in Section 3.8 and average costs to build facilities, capital outlays per year will need to average \$300,000 to \$400,000 per year for on-road facilities and \$350,000 to \$450,000 per year for off-road facilities. At a total of \$650,000 to \$850,000, this will allow 10% to 15% of the system to be built per year. Spending for off-road facilities will vary more considerably per year. That amount will also be reduced by the amount the city can secure in grants funding. It does not include the funding of Milwaukee County parkways paths and costs for underpasses and overpasses. Costs for grade separated crossings, particularly overpasses can be extremely expensive and need to be inserted into capital budgets separately. It is assumed that either the costs will be covered by a larger street reconstruction or [aan](#) 80% grant.

In order to implement this plan, it is possible that the City may have capital outlays nearing \$1 million per year for some years. By comparison, the City of Madison with a population of about five times that of Wauwatosa, has annual capital budget requests for bikeways for the next six years ranging from \$6 million to \$12 million. The budget requests for the Madison Bicycle & Pedestrian Capital program are noted below.

Table 15: City of Madison Bike/Ped Capital Budget Requests<sup>15</sup>

| Year | Capital Budget Request |
|------|------------------------|
| 2014 | \$11,930,000           |
| 2015 | \$7,929,000            |
| 2016 | \$7,535,000            |
| 2017 | \$9,554,000            |
| 2018 | \$6,057,000            |
| 2019 | \$9,724,000            |

In any given year, approximately 75% or more of the budget for the bicycle and pedestrian program comes from General Obligation debt, with the remainder being covered by special assessments, TIF funds, Federal funds, donations, or other sources.

<sup>15</sup> City of Madison. 2014 Capital Budget, Capital Improvement Program. Engineering – Bicycle and Pedestrian. [http://www.cityofmadison.com/finance/documents/2014\\_CapBud/030-CIP53L.pdf](http://www.cityofmadison.com/finance/documents/2014_CapBud/030-CIP53L.pdf)

### 3.7 | Prioritization Criteria

A general prioritization of bikeway projects is provided in Section 3.8. The project priority is based on criteria included below.

1. Imminent street reconstruction that may be able to include on-street or off-street bicycle facilities, or both, in the project scope.
2. Latent bicycle demand was mapped using the following set of criteria: housing density, transit stops, the location of paths, and school locations. See Map 2 for a general depiction of demand based on these criteria.
3. Strong interest/desire for a facility as demonstrated through public comments.
4. Planning-level cost and level-of effort for facility implementation.
5. Feedback from the Plan Steering Committee

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

### 3.8 | Priority Bikeway Projects

Based on the prioritization criteria outlined in Section 3.7 and discussions with the Plan Steering Committee, the following bicycle projects should be a priority for the City in the near-term (1 – 3 years):

*Near-term Bicycle Facility Priorities (1 – 3 years):*

- **Menomonee River Parkway Path and Bike Lanes:** The County is in the process of developing a design for reconstructing much of the Menomonee River Parkway in 2014 and 2015. The City ~~should~~ strongly encourages the County to evaluate and include if at all feasible a shared use path from Swan Boulevard to West Congress Street. The reconstructed parkway should also include on-street bicycle facilities.
- **The Neighborhood Greenway Network:** The proposed network of neighborhood greenways can be implemented at low cost with simple signage and street markings. The neighborhood greenways will provide a network of quiet neighborhood streets that provide connections throughout much of the city.
- **Shared-lane Markings:** Shared lane markings are low-cost, easy to implement bikeway facility.
- **Low-LOE Bike Lanes:** Many of the bicycle lanes proposed by this plan will simply require restriping the existing street. These low level-of-effort bike lanes ~~can should~~ be implemented in the near term.
- **Wayfinding Signs:** Section 3.4.6 discusses providing wayfinding signs for the bicycle network in Wauwatosa. The wayfinding system should be well thought out and ~~should~~ expand as the bicycle network expands. A system of wayfinding signs should be put in place after basic expansion of the bicycle network has occurred.

In addition to the near-term priorities listed above, the following three grade-separated crossings should be prioritized:

1. **North Swan Boulevard Underpass:** An underpass of the reconstructed Swan Boulevard will provide ~~bicycle and~~ pedestrian access from the developing Innovation Park to Hanson Park and Wisconsin Department of Natural Resources facilities on the north side of Swan Boulevard. Currently only pedestrian accommodations exist on the north side of Swan Boulevard. An underpass constructed during the reconstruction will cost a fraction of the cost of building a grade-separated facility outside of the reconstruction.
2. **Menomonee River Parkway / Mayfair Road:** A bridge or underpass at this location will connect the proposed shared use path along the Menomonee River Parkway across Mayfair Road. As the highest volume surface street in the area, Mayfair Road presents a significant barrier to bicyclists and pedestrians. Much of Mayfair Road is scheduled to be reconstructed in coming years, and incorporation of a grade-separated bicycle and pedestrian facility into that reconstruction could save considerable costs.
- ~~3. **West Center Street Bridges:** Bicycle and pedestrian bridges over the Menomonee River and Mayfair Road, in conjunction with a shared use path connecting the two bridges, will provide a critical connection from east Wauwatosa to west Wauwatosa. This connection will directly serve Eisenhower Elementary, Whitman Middle, and Wauwatosa West High Schools. Considerable coordination will be needed with~~

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

~~Milwaukee County Parks and the Blue Mound Country Club (since the path will border their property) to construct a path that connects the two bridges and makes West Center Street a continuous corridor for bicyclists and pedestrians.~~

The opportunity may arise for other projects in this plan to be implemented in the near-term through street reconstructions (especially related to the Zoo Interchange and Mayfair Road), park projects, or redevelopment opportunities. These opportunities should be seized, and bicycle projects should be included whenever possible even if they are not a part of this prioritized list.

## 4 | Pedestrian Network Recommendations & Implementation

### 4.1 | Overview

~~The Plan Steering Committee established the general framework for the goals and objectives of the plan related to both facilities and programs impacting overall safety and promotion of pedestrian travel.~~ This chapter focuses on the ~~recommendations, objectives, and policies~~ that support the network of pedestrian facilities in the City, providing direction on the development of these facilities. Chapter 5 provides recommendations on other aspects of pedestrian travel unrelated to pedestrian facilities including education, encouragement, and enforcement practices.

### 4.2 | Development of Pedestrian ~~Objectives, Policy~~ Recommendations, and Network

~~The objectives, policy recommendations, and network in this chapter were developed to support the vision and goals described in Chapter 1 of this plan.~~ A variety of factors that are described below were used to develop the ~~recommenmedations, objectives, policies,~~ and pedestrian network described in this plan. These factors are largely the same as the factors described in Section 3.2 for the development of the bicycle ~~recommenmedations, objectives, policies,~~ and network.

#### *Public Input*

As noted in Section 1.3 and Appendix A, extensive public input was provided for the development of this plan. These comments factored heavily into the development of the vision, goals, objectives, and policies included herein. Additionally, public comments highlighted areas that currently receive heavy pedestrian use, as well as areas in which people would like to walk but are not currently comfortable due to lack of facilities.

#### *Steering Committee Input*

The Plan Steering Committee provided input about objectives and policies related to walking as well as criteria for where pedestrian facilities should be located. General criteria for locating pedestrian facilities included connecting schools and providing pedestrian facilities on higher volume streets, particularly those that serve businesses.

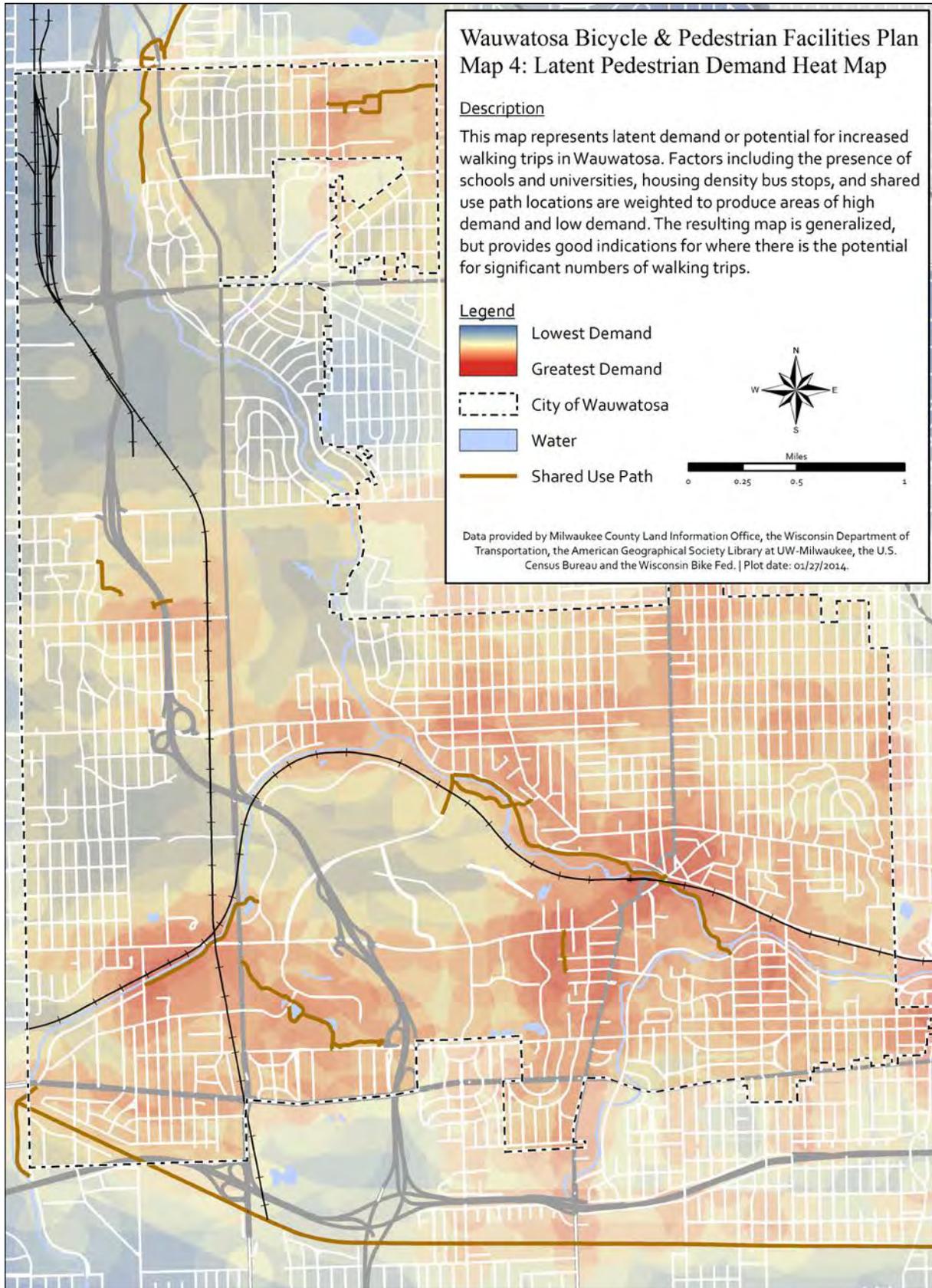
#### *Existing and Potential Pedestrian Demand*

The online mapping tool highlighted in Section 1.4.3 provided an overview of existing pedestrian use in Wauwatosa. In addition to the data collected thorough the online interactive map, a map was developed using a variety of factors that could lead to increased ~~walking, bicycling~~ in the future. This "heat map" included these factors: population density, the presence of schools or higher education institutions, locations of transit stops, and proximity to trails or paths. The factors were weighted and combined to produce Map 4, which indicates potential demand for walking throughout the city. The heat map indicates the relative potential for increased walking and the ~~possible location of need for bicycle~~ facilities to help meet that potential demand.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Figure 6: Latent Pedestrian Demand Heat Map



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

### 4.3 | Pedestrian Network **Objectives and Policy Recommendations**

The City of Wauwatosa has some of the best examples of pedestrian facilities in Wisconsin and also some yet has areas that may be clearly underserved by pedestrian facilities. The following recommendations objectives and policies are centered on improving facilities and the safety of pedestrians in Wauwatosa. Providing safe facilities near schools has special emphasis in this plan. Additionally, pedestrian facilities must be accessible to all users and meet the standards for accessibility as provided by the Public Rights-of-way Accessibility Guidelines (PROWAG). Each recommendation s objective related to pedestrian facilities is provided below is accompanied by discussion with a set of policies. Implementation measures and responsibilities are discussed later in section 4.5 and relate directly to the recommendations policies.

The consideration of all recommendations will take into account zoning and potential future zoning changes, development market and economic conditions, and community input provided during the public involvement processes associated with land and infrastructure development. Additional public input will also occur during the Capital Improvements Program (CIP) and budget processes. The Common Council determines project and infrastructure approvals.

#### 4.3.1 | Pedestrian Network **Recommendations Objectives**

The pedestrian network objectives and policy recommendations developed for the plan are summarized below. Section 4.3.2 includes the objectives and policy recommendations as well as a brief discussion about each policy.

#### **Recommendation Objective 7: Facilitate Increase pedestrian connectivity throughout Wauwatosa.**

- ~~Policy Recommendation 7.1: Implement the high priority pedestrian facility recommendations contained in this plan.~~
- **Policy Recommendation 7.2: Provide Consider** pedestrian accommodations on ~~all~~ new streets in the City of City.
- **Policy Recommendation 7.3: Provide Consider** pedestrian accommodations along ~~all~~ existing collector and arterial streets that do not currently have accommodations as street reconstruction occurs and public support is obtained.
- ~~Policy Recommendation 7.4: In collaboration with the Wauwatosa School District, consider pedestrian accommodations Provide sidewalks~~ within ¼ mile of all schools in Wauwatosa.
- **Policy Recommendation 7.5:** Ensure that new and existing pedestrian facilities meet or exceed ADA requirements.
- **Policy Recommendation 7.6: Provide Consider closing** key ~~sidewalk sections to close~~ gaps in the existing pedestrian sidewalk system.

#### **Recommendation Objective 8: Improve pedestrian access at major obstacles and hazardous and hazardous areas and across major barriers.**

- ~~Policy Recommendation 8.1:~~ Provide high-visibility pedestrian crossings at problem areas.
- ~~Policy Recommendation 8.2:~~ Ensure that pedestrian access is maintained when construction closes ~~bikeways or~~ pedestrian facilities.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

~~Recommendation~~Objective 9: ~~Ensure that all~~ Evaluate future development and redevelopment in the City ~~for inclusion/inclusion of includes~~ pedestrian accommodations, ~~through adoption of a Complete Streets policy and zoning code updates.~~

- ~~Policy Recommendation 9.1:~~ Adopt a binding Complete Streets resolution and encourage other agencies with jurisdiction over streets within Wauwatosa to adhere to the policy. Craft and adopt a Wauwatosa tailored complete streets ordinance to facilitate walking in the City.
- ~~Policy Recommendation 9.2:~~ Update the city zoning code to require Where applicable, consider the installation of pedestrian accommodations sidewalks as a part of in all new development, that, meets or exceeds WisDOT guidance on sidewalk provision.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

4.3.2 | Pedestrian Network ~~Objectives and Policy~~ Recommendations

~~Recommendation Objective 7:~~ Increase-Facilitate pedestrian connectivity throughout Wauwatosa.

~~This objective calls for an increase in connectivity of pedestrian facilities within the city. An important and obvious aspect of that is a complete sidewalk network. From a land use perspective, the city is nearly completely developed and there will be few opportunities to add sidewalks along new streets. However as~~ areas are redeveloped and streets are reconstructed, there will be opportunities to include sidewalks appropriate pedestrian accommodations. ~~Just as critical~~ Also important is the closure of key gaps in the existing facility sidewalk system—primarily along major streets and near schools. A fairly extensive exercise was conducted as part of this plan to help locate these key segments.

~~Policy Recommendation 7.1:~~ Implement the high-priority pedestrian facility recommendations contained in this plan.

~~An existing conditions assessment was conducted as part of this plan to determine where sidewalks currently exist in the city and where they are missing. The assessment was done using aerial photographs and although it may not capture every block of sidewalk, it provides a strong indication of the presence or lack of sidewalks in specific areas of the city. Areas with missing sidewalks were classified as either high or low priority for sidewalk installation (described in Section 4.7). The City should begin installing sidewalks in the high-priority areas to address pressing pedestrian needs.~~

~~Policy Recommendation 7.2:~~ Provide Consider pedestrian accommodations on ~~all~~ new streets in the city.

~~Pedestrian accommodations Sidewalks~~ should be considered included as a matter of course on ~~both sides of all~~ new streets in the City. By including facilities sidewalks at the time of construction, construction costs can be included in the initial project cost and be accomplished in a more economical manner. ~~the City can avoid imposing construction costs on adjacent landowners at a later date.~~

~~Policy Recommendation 7.3:~~ Provide Consider pedestrian accommodations along ~~all~~ existing collector and arterial streets that do not currently have accommodations.

Collector and arterial streets are medium- to high-traffic streets. These streets often connect key areas of the city and often have commercial establishments and other destinations along them. Just as providing motor vehicle access along these streets and to adjacent destinations is important, so too is providing pedestrian access ~~is critical~~. Sidewalks or shared use paths should be considered installed along all collector and arterial streets to provide safe accommodations for pedestrians. Examples of collector and arterial streets that could missing sidewalk segments include these facilities are Watertown Plank Road, Mayfair Road, 124<sup>th</sup> Street, and Grantosa Drive, among others.

~~Policy Recommendation 7.4:~~ In collaboration with the Wauwatosa School District, Consider Provide pedestrian accommodations ~~sidewalks~~ within ¼ mile of all schools in Wauwatosa.

~~Pedestrian~~ Pedestrian accommodations Sidewalks should be considered provided within a ¼ mile of all Wauwatosa schools to aid access to neighborhood schools. A large number of Wauwatosa students live within walking distance of their schools, and having but without safe and convenient pedestrian facilities is important for students who, ~~parents are hesitant to allow students to~~ walk to school. Considering Providing sidewalks appropriate facilities within ¼ mile of all school will begin to form the network needed to promote more walking to school. The Safe Routes to School (SRTS) Program provides a tool for evaluating schools on a case by case

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

basis and includes public input in the process. An on-going collaborative process with the school district should be further developed.

~~Policy Recommendation 7.5:~~ Ensure that new and existing pedestrian facilities meet or exceed ADA requirements.

A pedestrian facility loses much of its value if it is not accessible to all potential users. The Architectural and Transportation Barriers Compliance Board (the U.S. Access Board) has recommended accessibility guidelines for the design, construction and alteration of pedestrian facilities in the public right-of-way. These ADA accessibility guidelines, the proposed Public Right of Way Accessibility Guidelines, address new and altered pedestrian facilities. The guidelines ensure that sidewalks, pedestrian street crossings, pedestrian signals and other facilities for pedestrian use that are constructed or altered in the public right-of-way by state and local governments are readily accessible to and usable by pedestrians with disabilities. When the guidelines are adopted as accessibility standards in regulations issued by other federal agencies, such as Departments of Transportation, compliance with the accessibility standards is mandatory.

~~Policy Recommendation 7.6: Provide~~ Consider closing key ~~sidewalk sections to close~~ gaps in the existing pedestrian sidewalk system.

~~Key gaps exist in the sidewalk system in Wauwatosa.~~ These gaps may connect existing sidewalks, connect to nearby paths, or connect to schools or other destinations. The City should focus on closing these key gaps to make the facilities that currently exist more useful. Examples include installing short path segments from the south end of North 111<sup>th</sup> Street to connect to West North Avenue and from the south end of North 115<sup>th</sup> Street to connect to the Hank Aaron State Trail. An example of a short segment of missing sidewalk is the first block of Barding Boulevard east of the Menomonee River Parkway

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

**Recommendation Objective—8: Improve pedestrian access at major obstacles and hazardous areas and across major barriers.**

To complete a trip as a pedestrian, travel is necessary *along* streets and *across* streets. ~~Objective 7 included policies for facilities built along streets while this objective and its related policies address facilities across streets.~~ Pedestrians often have difficulty crossing major streets and over half of all pedestrian-motor vehicle crashes occur at intersections. Measures ~~that needed to~~ improve crossings include crosswalk markings, median islands, pedestrian signals, and intersection design details that slow turning traffic at intersections.

**Policy Recommendation 8.1:** Provide high-visibility pedestrian crossings at problem areas.

Increasing the safety of intersections and similar problem areas is a key component in facilitating will help to eliminate several of the barriers that challenge walking in Wauwatosa. One way in which intersection safety can be increased is through the installation of highly-visible pavement markings and signage. At a minimum, it is critical to ensure that appropriate regulatory signage is present and that striping across intersections and their approaches is visible and well-maintained. Painted striping should be inspected semi-annually and may require repainting annually or even more frequently. Thermoplastic, which is more durable and longer-lasting than paint, is a recommended alternative marking material.<sup>16</sup> Where conditions are extremely hazardous and traffic volumes or right-of-way preclude intersection modifications, a grade-separated crossing might be considered a viable solution. These can take the form of a bridge over the roadway, or an underpass/tunnel under the street and would need to be approved by the Common Council, with public input. ~~These types of separations work best when bridging over a limited access highway.~~

**Policy Recommendation 8.2:** Ensure that pedestrian access is maintained when construction closes ~~bikeways or~~ pedestrian facilities.

Street reconstruction, water and sewer repair, and other disruptive projects are unavoidable occurrences in any established community. While it is not realistic to completely avoid disrupting pedestrian travel during construction, reasonable efforts should be made to ensure access, either by means of temporary walkway relocation or detours to alternate routes. As a rule of thumb, if it is possible to maintain car access along the street, pedestrian access should also be maintained.

<sup>16</sup> While significantly more durable than paint, thermoplastic still requires repair and replacements on a regular basis. Typically every three to five years.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

~~Recommendation Objective 9: Ensure that all Evaluate future development and redevelopment in the City for inclusion of includes pedestrian accommodations, though adoption of a Complete Streets policy and zoning code updates.~~

~~Wauwatosa will have numerous o~~pportunities to incorporate pedestrian facilities tied to new developments, especially commercial redevelopments. The ~~C~~ity's ~~C~~omprehensive ~~p~~lan establishes a framework for this type of development and recognizes that these redevelopment sites will provide opportunities for improving walkability, thus enhancing the viability of these sites and businesses. Another key opportunity to incorporate pedestrian facilities exists when streets are reconstructed. Typically this is the most economical time to add both bicycle and pedestrian facilities. ~~In order to seize these opportunities, a~~ Wauwatosa tailored "complete streets" ordinance ~~should be~~ passed by the Common Council ~~that soundly and would~~ clearly clarify how to puts this practice into motion.

~~Policy Recommendation 9.1: Adopt a binding Complete Streets resolution and encourage other agencies with jurisdiction over streets within Wauwatosa to adhere to the policy. Craft and adopt a Wauwatosa tailored complete streets ordinance to facilitate walking in the City.~~

~~The adoption of a binding Complete Streets policy that requires all~~ All major street and road projects can follow this ordinance to include adequate accommodation for bicycles and pedestrians will help further the implementation of this plan. ~~Such a The~~ policy should also apply to streets built by private developers, such as interior circulating streets in a newly-developed site. A model Complete Streets ordinance can be used to offer guidance and is provided in Appendix E.

~~Currently the State of Wisconsin has a version of a complete streets law for bicycle and pedestrian accommodations (SS 84.01(35)). If Sstate or Ffederal funds are used for a project, bicycle and pedestrian accommodations are to be included in the project unless there is justification for not including them. Exceptions are provided in Sstate law and a rule (Trans 75).~~

~~Policy Recommendation 9.2: Update the City subdivision code to require Where applicable, consider the installation of pedestrian accommodations sidewalks in all new development, that meets or exceeds WisDOT guidance on sidewalk provision.~~

The importance of pedestrian facilities sidewalks in terms of walkability has been thoroughly discussed in earlier parts of this document and in the ~~C~~ity's ~~C~~omprehensive ~~P~~lan~~P~~lan. Beyond fostering community interaction and increasing retail sales, pedestrian facilities sidewalks are an essential tool for building an equitable transportation system. For sidewalks, Wisconsin DOT provides guidelines for ~~the installation of sidewalks~~ on new and existing streets. ~~At a minimum, the Wauwatosa subdivision ordinance should be updated to the WisDOT standards, although a policy requiring sidewalk installation on both sides of all City streets may be desirable.~~ The WisDOT guidance is provided in Table 175.

Table 16: WisDOT guidelines for sidewalk placement

| Land-Use / Dwelling Unit / Functional Classification | New Urban and Suburban Streets | Existing Urban and Suburban Streets  |
|--|--------------------------------|--|
| Commercial & Industrial (All Streets)                | Both Sides                     | Both sides. Every effort should be made to add sidewalks where they do not exist and to complete missing links |
| Residential (Arterials)                              | Both Sides                     | Both Sides   |
| Residential (Collectors)                             | Both Sides                     | Multifamily: Both sides<br>Single family: Prefer both sides, require at least one side                         |
| Residential (Local Road)<br>More than 4 units/acre   | Both sides                     | Prefer both sides; Require at least one side   |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

|  |   |   |
|--|---|---|
| Residential (Local Road)<br>1 – 4 units/acre       | Prefer both sides;<br>Require at least one side | One side preferred, at least 4 feet             |
| Residential (Local Road)<br>Fewer than 1 unit/acre | One side preferred;<br>Shoulder on both sides   | At least 4 feet shoulder on both sides required |

Notes for additional consideration:

1. Local streets within two blocks of a school that would be on a walking route– sidewalk required on at least one side.
2. Sidewalks may be omitted on one side of new streets where that side clearly cannot be developed and where there are not existing or anticipated uses that would generate pedestrian trips on that side.
3. Where there are service roads, the sidewalk adjacent to the main road may be eliminated and replaced by a sidewalk adjacent to the service road on the side away from the main road

## 4.4 | Pedestrian Facility Recommendations

### 4.4.1 | Background

This section presents different types of pedestrian facilities, and specific recommendations to implement. ~~The pedestrian facility recommendations are divided into high and low priority categories. The City should focus on implementing the high priority recommendations. This is not to say that low priority recommendations should be ignored — if an opportunity arises to complete a low priority project in tandem with a street project, that opportunity should be pursued. The consideration of all recommendations will take into account zoning and potential future zoning changes, development market and economic conditions, and community input provided during the public involvement processes associated with land and infrastructure development. Additional public input will also occur during the Capital Improvements Program (CIP) and budget processes. The Common Council determines project and infrastructure approvals.~~

### 4.4.2 | Street Jurisdiction

While this is a City of Wauwatosa plan, the plan makes recommendations for pedestrian facilities within the City that are under the jurisdiction of Milwaukee County and the State of Wisconsin. The Plan also includes recommendations for pedestrian facilities on some City of Milwaukee and City of Brookfield streets if the connection is vital to City of Wauwatosa ~~sidewalks~~. These recommendations are included in order to provide a complete and well-connected pedestrian system in the City of Wauwatosa and connecting to adjacent municipalities. The City will work with the proper jurisdictions to implement the recommendations of this plan and will explore options including cost and maintenance sharing if it results in the implementation of plan elements on streets under the jurisdiction of other entities.

### 4.4.3 | Pedestrian Facility Types

“Pedestrian facilities” is used as a general term to include a number of accommodations for pedestrians. These include sidewalks, paths, pedestrian signals, crosswalk markings, and median islands.

#### Sidewalks

Sidewalks are constructed of concrete in Wauwatosa, are typically five feet wide and are located immediately adjacent to streets, preferably on both sides. Sidewalks are used to separate foot traffic from vehicle traffic, to reduce conflicts, and to increase comfort of pedestrians. Recent research has supported sidewalks as being very effective in reducing crashes.

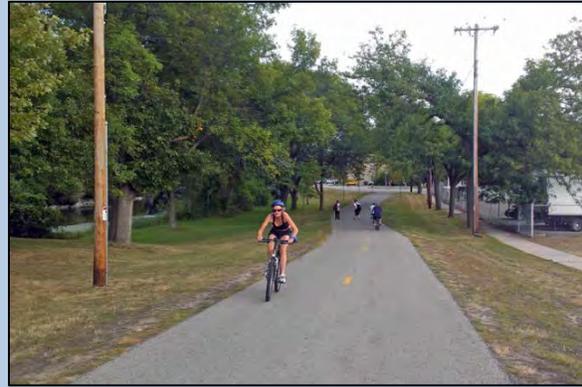


# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

## Shared-Use Path

A shared use path is an off -street bicycle and pedestrian facility that is physically separated from motor vehicle traffic. Typically shared use paths are located in an independent right-of-way such as in a park, stream valley greenway, along a utility corridor, or an abandoned railroad corridor. Shared-use paths are used by other non-motorized users including bicyclists, skaters, wheelchair users, and joggers.



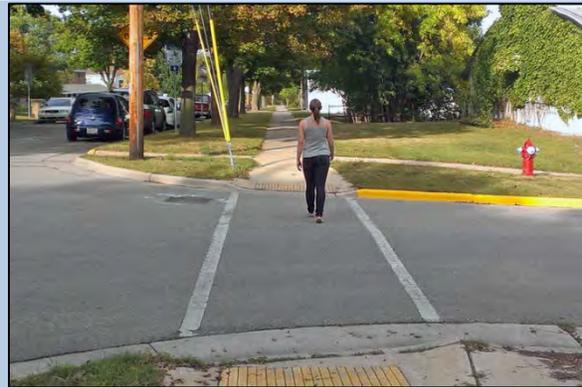
## Pedestrian Signals

When traffic signals are used at intersections, pedestrian signals are added to provide separate indications for pedestrians. In the absence of pedestrian signals, pedestrians are directed by state law to use the traffic signals intended for motorists. This is rarely desirable except in remote areas.



## Crosswalk

Extensions of sidewalks through intersections are legal crosswalks under state and local laws, regardless of if they are painted on the street. At busier intersections, signalized intersections and at mid-block crossings, crosswalks are marked for additional visibility for motorists and to direct pedestrians to the appropriate crossing area. Standard crosswalks are comprised of two parallel lines across a street.



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

**Crosswalk – Continental**

Continental crosswalks provide greater visibility than standard crosswalks. Continental markings should be considered at busier street crossings, at unsignalized crossings, in school zones, and any locations where pedestrian crossings are difficult.



**Crosswalk – Colored or Textured**

Colored or textured crosswalks are often used to increase the visibility of a crosswalk while establishing a “character” for a neighborhood. For example, red textured crosswalks may evoke older brick streets and may be used in a historic district. In general, colored crosswalks are less visible than continental crosswalks. While colored crosswalks may have appropriate uses, textured crosswalks should be avoided as they present a rough surface to those most sensitive to it: pedestrians and people using wheelchairs, walkers, or canes.



**Median Island**

Medians provide space in the middle of intersections or at right-turn locations for pedestrians to stage crossings in multiple steps. These facilities make crossings easier and safer for pedestrians. They should be a minimum of six feet in width and length.



**4.4.4 | Pedestrian Network Overview**

~~This plan includes a wide range of recommendations to improve travel for pedestrians. Recommendations for facilities are focused on sidewalks and shared use paths. The conditions of the pedestrian system were closely observed and fieldwork was conducted to support the recommendations. An inventory of existing facilities and missing sidewalks was performed, and a narrowing down of sidewalk needs was performed to arrive at a set of priorities. See Section 4.6 for the criteria were used to identify streets that typically have pedestrian facilities, but currently do not in Wauwatosa. prioritize sidewalk installation. Based on the criteria selected, approximately 141 miles of areas without sidewalks were classified into high and low priority projects:~~

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan  
DRAFT 1/27/2014

Table 17: Miles of sidewalk by priority

| Sidewalks                       | Miles  |
|---------------------------------|--------|
| New Installation, High-Priority | 22.63  |
| New Installation, Low-Priority  | 114.66 |

The low and high priority sidewalk installations are displayed on Map 5.

#### 4.5 | Prioritization Criteria

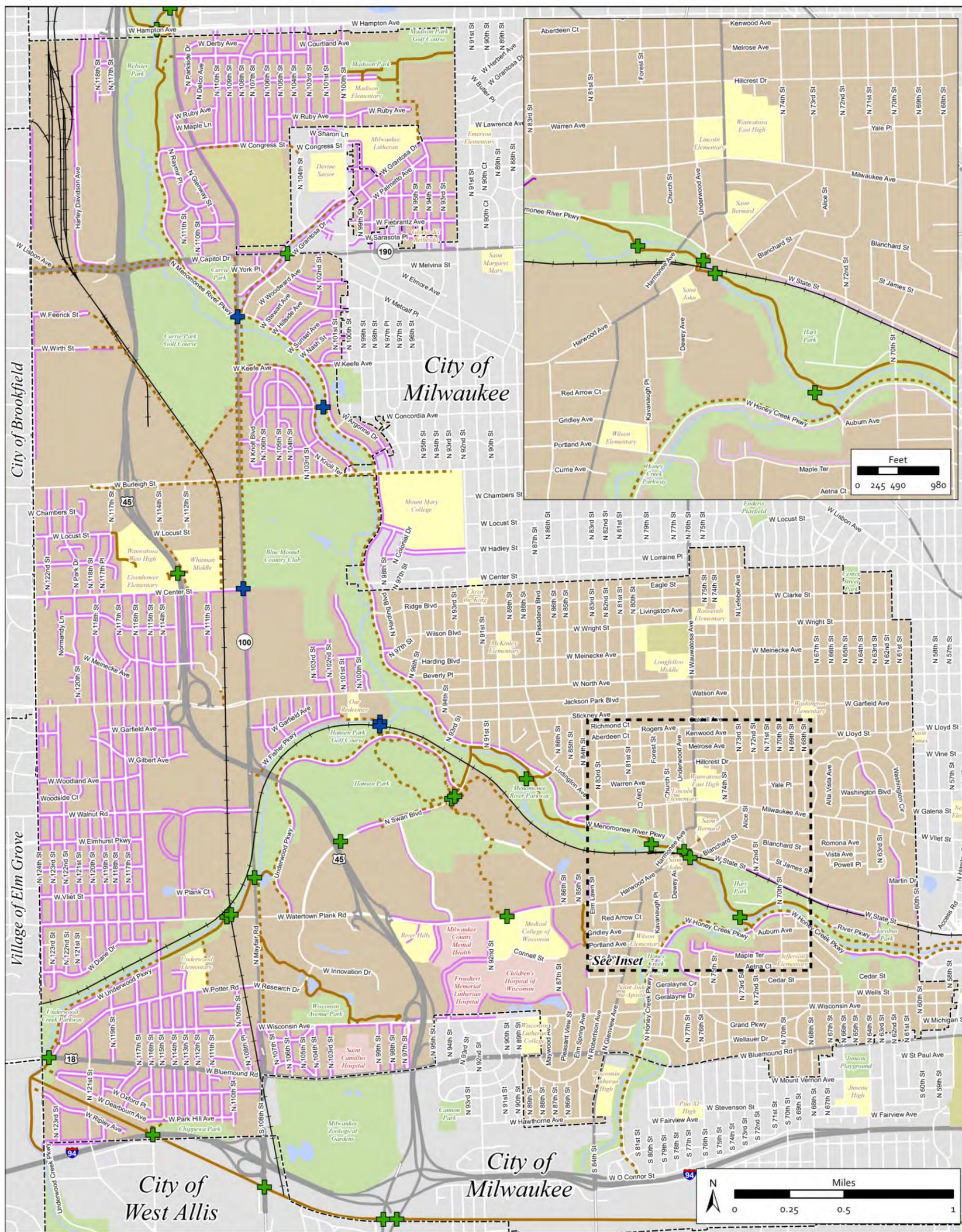
A key product sought by the City as an output of this plan was a set of recommendations to close important gaps in the City's sidewalk system. A multi-step process was used to analyze where gaps in the City's existing pedestrian facilities system exist and provide a deliver this analysis and set of recommendations.

1. A sidewalk inventory was completed using aerial photos and other mapping products to determine the presence of gaps in the sidewalk system. Both sides of the street were inventoried. A generalized sidewalk inventory is displayed on the sidewalk prioritization map (Map 5).
2. Pedestrian demand (including existing and latent demand) was mapped using the following set of criteria: housing density, transit stops, the location of paths, and school locations. See Map 4 for a general depiction of demand based on these criteria.
3. Criteria were selected to help establish priority areas for sidewalks. Criteria that were initially used to identify areas of importance for pedestrian facilities included proximity to schools, the volume of traffic on streets, proximity to paths, and bus stop locations.
4. An initial set of maps was produced to depict the intersection or overlap of these criteria. The results were overlaid on the pedestrian demand map and shared with the plan Steering Committee. The Steering Committee's primary response was that schools should receive a considerable amount of weight for determining needed facilities, prioritizing sidewalk gaps.
5. Based on feedback and continued analysis, two criteria stood out as being the best predictors of facility sidewalk deficiencies and needs: school locations and volume of traffic. In the case of this analysis, there is merit to reducing the number of criteria since many of the factors were reinforcing themselves. For example, bus routes are typically on busy streets, therefore by selecting busy streets as a criterion, bus routes are also indirectly covered by busy streets.

Figure 7: Map of proposed sidewalk priorities and missing sidewalks

# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

## Map 5: DRAFT Pedestrian Network



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

### Legend

#### Land Use

- City of Wauwatosa
- Park / Golf Course
- School
- Hospital
- Cemetery
- Water

#### Other Symbols

- No Sidewalk
- Shared Use Path - Existing
- Shared Use Path - Planned
- Overpass / Underpass - Existing
- Overpass / Underpass - Planned
- Railroad

### Sidewalk Retrofit Recommendations

This map displays existing and proposed shared use paths in Wauwatosa as well as areas that do not have sidewalks. The purple lines represent areas without sidewalks while areas without a purple line are assumed to have sidewalks. It may be desirable to install sidewalks where the following conditions exist:

- 1) The street has an average daily traffic volume over 1,000;
- 2) The street is a primary route to a school; or
- 3) The street fills a short gap between existing sidewalks.

In all cases, the neighborhood should be supportive of the installation of sidewalks. This inventory was conducted using aerial photography and is not comprehensive.

Data provided by Milwaukee County Land Information Office, the Wisconsin Department of Transportation, the U.S. Census Bureau and the Wisconsin Bike Fed. Plot date 01/27/2014.

*Page intentionally left blank.*

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

### 4.6 | Implementation

Implementation includes a series of action items and recommended coordination to help prioritize next steps and undertake the recommendations in the plan. This section discusses implementation measures related to pedestrian facilities, while Chapter 5 discusses measures associated with pedestrian programs related to education, enforcement, and encouragement efforts.

~~Recommendation Objective 7~~ of this plan calls for an increase in connectivity of pedestrian facilities within the ~~C~~city. ~~An important aspect of that is a complete sidewalk network.~~ The ~~C~~city is nearly completely developed and opportunities for new construction along new streets will be relatively rare in the future. However, as areas are redeveloped and streets are reconstructed or resurfaced, there will be opportunities to include facilities, sidewalks. Additionally, the closure of key gaps in the existing sidewalk-system primarily along major streets and near schools would is critical to increase pedestrian connectivity. A fairly extensive exercise was conducted as part of this plan to help locate these key segments.

Table 18: Actions and responsible agencies/departments for pedestrian connectivity objective

| Action   | Responsible Agency/Department    |
|--|----------------------------------|
| 1. Follow the recommendations for new and retrofitted <u>facilities sidewalks</u> presented in this plan   | City, County, WisDOT             |
| 2. Provide pedestrian facilities as part of new developments in the City   | City, County, WisDOT, Developers |
| 3. Create Safe Routes to School Plans for key schools that identify <u>further sidewalk gaps or other</u> pedestrian facility needs associated with those school areas         | City, School District            |
| 4. Install median pedestrian islands on all streets with volumes of traffic that exceed approximately <span style="background-color: yellow;">      </span> vehicles per lane. | City, County, WisDOT             |
| 5. Install high visibility crosswalk markings at all intersections in areas anticipated to have high pedestrian demand.  | City, County, WisDOT             |
| 6. Follow the draft Public Rights-of-way Guidelines (ADAAG).   | City                             |

Pedestrians have two basic needs: safety and access. ~~Objective 7~~Recommendation 7 addressed many of the safety needs of pedestrians through the provision of improved and expanded facilities. Chapter 5 provides recommendations and actions to enhance safety and facilitating encouragewalking. This recommendation objective and its actions are intended to improve safe access in general for all pedestrians, but also for people with disabilities.

Table 19: Actions and responsible agencies/departments for pedestrian access objective

| Action  | Responsible Agency/Department     |
|---|-----------------------------------|
| 1. Provide crossing opportunities at all intersections  | City, County, WisDOT              |
| 2. Develop a list of intersections that need to have improved access and install appropriate treatments such as median islands, countdown signals, and/or enhanced crosswalk markings | City                              |
| 3. Create/update an ADA transition plan for proactive action on meeting accessibility guidelines.   | City                              |
| 4. Provide temporary access for pedestrians in worksites. Establish guidelines for consistent application and dissemination to contractors  | City, County, WisDOT, Contractors |

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

## 4.7 | Planning-Level Cost Estimates

This plan includes planning-level costs for implementation of the pedestrian network. These costs are based on 2011 national figures for specific facility types that have been adjusted for inflation. A detailed breakdown of how cost estimates were determined for each facility type is included in Appendix C. It should be noted that the costs provided are for six foot wide sidewalks and have a 25 percent contingency built in to the cost. These costs should only be used for planning-level cost estimation; actual costs will vary from project to project and year to year.

The cost of providing ~~pedestrian facilities sidewalks~~ is dependent on a number of factors. Timing is likely to be one of the most important factors. Including ~~facilities sidewalks~~ in a street reconstruction ~~or resurfacing~~ project is typically less expensive than retrofitting ~~sidewalks~~ since it takes advantage of cost efficiencies of a larger project, such as mobilization of contractor's equipment for the street project. Excavation costs are also likely to be less. Other factors include how flat the grade is where the ~~facility sidewalk~~ will be located, the number of intersections, and the location of trees (and tree roots). ~~According to the eCost data for the various types of facilities mentioned in this Plan are provided in Appendix the Appendix D. and WisDOT unit costs, average costs range from \$7.5 to \$15 per square foot for concrete sidewalks. Approximately 26 miles of high priority sidewalk were identified using the methodology described above. This is equivalent to 13 miles of street with sidewalks built on both sides at five feet wide. The total cost is estimated \$5.1 million to \$10.3 million.~~

Table 21: Planning level cost estimates for sidewalks by priority

| Sidewalks                       | Miles  | Low Cost     | High Cost    |
|---------------------------------|--------|--------------|--------------|
| New Installation, High-Priority | 22.63  | \$4,480,000  | \$8,960,000  |
| New Installation, Low-Priority  | 114.66 | \$22,700,000 | \$45,400,000 |

### 4.7.1 | Capital Costs and Budgeting

Currently the City requires adjacent property owners to pay for the costs of new and replaced sidewalks. Although this appears to be a workable approach for new subdivisions and large scale commercial and residential redevelopment projects, ~~it, but may not always be the preferred option moving forward. it may be untenable as a workable solution for large segments of new sidewalk recommended in this plan.~~ Generally speaking, any costs not borne completely by adjacent property owners through assessments will have to be paid for through bonds, the general revenue account, or grants. Here are a few options:

- Partial Cost Share:** Introduce a 50/50 percent cost share policy for any new ~~sidewalks facilities constructed~~ ~~facilities constructed~~ independent of a street project. Adjacent property owners will pay for 50% of the cost while the city would pay for 50%. The rationale for applying it to just new retrofitted ~~facilities sidewalks~~ is that the costs will probably be higher since the project is not tied to an adjacent street project.
- Pursue Federal Funding:** Funding sidewalks is an eligible activity under the Transportation Alternatives program administered by WisDOT especially if the projects make key connections to schools and are supported by a plan. They are also eligible, and have been funded in other communities, under the Surface Transportation Program – Urban. Up to 80% of the cost of sidewalk construction could be covered requiring a property assessment amount of 20%.
- Wait for Street Reconstruction or Resurfacing Projects:** Low volume residential streets in Wauwatosa are reconstructed every 50 to 70 years. Resurfacing of streets occurs every 20 to 30 years. Resurfacing presents the best opportunity to rebuild the street cross-section with ~~pedestrian facilities sidewalks~~ and

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

often at the lowest possible cost. ~~However, very few of the high priority sidewalk recommendations would be mated with a reconstruction project within the next 10 to 20 years.~~

~~To complete the recommended high priority sidewalk segments within the next 10 years an annual level of effort would need to reach \$750,000. If the city chooses the partial cost share option, \$375,000 would need to be budgeted. The lower priority sidewalks could be built as adjacent streets are reconstructed and/or once the high priority sidewalks are completed.~~

## 4.8 | ~~Prioritization Criteria~~

~~A key product sought by the City as an output of this plan was a set of recommendations to close important gaps in the City's sidewalk system. A multi-step process was used to deliver this analysis and set of recommendations.~~

- ~~6. A sidewalk inventory was completed using aerial photos and other mapping products to determine the presence of gaps in the sidewalk system. Both sides of the street were inventoried. A generalized sidewalk inventory is displayed on the sidewalk prioritization map (Map 5).~~
- ~~7. Pedestrian demand (including existing and latent demand) was mapped using the following set of criteria: housing density, transit stops, the location of paths, and school locations. See Map 4 for a general depiction of demand based on these criteria.~~
- ~~8. Criteria were selected to help establish priority areas for sidewalks. Criteria that were initially used included proximity to schools, the volume of traffic on streets, proximity to paths, and bus stop locations.~~
- ~~9. An initial set of maps was produced to depict the intersection or overlap of these criteria. The results were overlaid on the pedestrian demand map and shared with the plan Steering Committee. The Steering Committee's primary response was that schools should receive a considerable amount of weight for prioritizing sidewalk gaps.~~
- ~~10. Based on feedback and continued analysis, two criteria stood out as being the best predictors of sidewalk deficiencies and needs: school locations and volume of traffic. In the case of this analysis, there is merit to reducing the number of criteria since many of the factors were reinforcing themselves. For example, bus routes are typically on busy streets, therefore by selecting busy streets as a criterion, bus routes are also indirectly covered by busy streets.~~

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

**4.9 | Priority Potential Pedestrian Projects**

Based on the ~~prioritization~~ criteria outlined in Section 4.57 and discussions with the Plan Steering Committee, the following areas are locations to consider adding facilities when the timing is appropriate and only after neighborhood support is received. The Common Council decides project approval. Collaboration with Milwaukee County is necessary where facilities are in their jurisdiction.

- **Areas near schools:** ~~Many areas proximate to schools lack sidewalks or other pedestrian facilities. Sidewalks should be considered be installed wherever they are missing~~ within two blocks of schools, in particular near Underwood Elementary, Eisenhower Elementary, Madison Elementary, Whitman Middle, and West High. Including a safe route between McKinley School neighborhood and Whitman School neighborhood. [NOTE: Options will be studied in detail using the Safe Routes to School planning grant awarded by WisDOT to the City and McKinley School and will include participation of all stakeholders. All options will be explored including paths along North Avenue, Burleigh Street, and Menomonee River Parkway.]
- **Mayfair Road:** ~~Install sidewalk where it is missing~~ on one side of the street north of North Avenue to nearly the northern limit of the city.
- **124<sup>th</sup> Street:** ~~Install sidewalk where it is missing~~ on the Wauwatosa side of the street from south of Watertown Plank Road to nearly the northern limits of the city. Sidewalks should also be installed where they are missing on the west side of the street in Brookfield, Elm Grove, and Butler.
- **116<sup>th</sup>/115<sup>th</sup> Streets:** These streets are ~~an important~~ north-south connection from Center Street to the southern city limits and connect school areas, denser multifamily housing, parks, and other attractions. ~~Sidewalks should be installed on both sides of these streets where it is missing.~~
- **Center Street:** ~~Install sidewalk where it is missing~~ on the south side of the street from Mayfair Road to 124<sup>th</sup> Street.
- **Burleigh Street:** ~~Install sidewalk where it is missing~~ on the south side of the street from Highway 100 to the eastern city limit.
- **Watertown Plank Road:** ~~Install sidewalk~~ on the north side of the street ~~where it is missing~~ from Highway 45 to Elm Lawn Street.
- **Wisconsin Avenue:** ~~Install missing sidewalk~~ from Highway 100 to 90<sup>th</sup> Street. Portions of the street ~~missing sidewalks~~ are in the City of Milwaukee.
- **Parkways:** ~~All three of the Milwaukee County parkways located in Wauwatosa largely lack sidewalk or path facilities. All three of the parkways should have a walking facility of some sort – a sidewalk or a path in lieu of a sidewalk on one side of the street at minimum.~~
- There is a section of the Menomonee River Parkway that has a path for a segment and a sidewalk. ~~All three of the parkways should have a walking facility of some sort – a sidewalk or a path in lieu of a sidewalk on one side of the street at minimum.~~

## 5 | Bicycle and Pedestrian Non-Infrastructure Recommendations

### 5.1 | Overview

Encouragement, Education, Enforcement, and Evaluation are the “E’s” that combine with Engineering solutions (discussed in previous chapters) to provide a well-rounded and complete bicycle and pedestrian network and plan. Each of the E’s are briefly described below.

- **Encouragement** combines many initiatives and the strategies of the other E’s to build enthusiasm and interest in the network and its use. Programs include Cyclovias, National Bike Month activities, launch parties for new bike/ped facilities, and employer driven incentive strategies such as mileage reimbursements.
- **Education** is a broad category that ranges from identifying and promoting safe routes for pedestrians and bicyclists to how-to strategies, such as how to ride safely or helmet fit. Education policies and programs are instrumental to the success of networks as they empower users to get out and use the facilities.
- **Enforcement** includes policies that address safety issues – such as speeding, illegal turns and movements, and general rules of the road. Programs include options for community members to work collaboratively to promote safe bicycling, walking, and driving. Initiatives include crosswalk enforcement, Share the Road, and Be Safe, Be Seen – a bike light enforcement campaign.
- **Evaluation** includes monitoring the outcomes and documenting the results of the implementation of the other E’s. Data collections before and after infrastructure improvements are implemented, such as user surveys and bicycle and pedestrian counts, are critical to measuring the overall effectiveness of the network.

The objectives and policy recommendations related to the non-Engineering E’s developed for the plan are summarized below. The remainder of this chapter includes the objectives and policy recommendations as well as a brief discussion about each policy.

**Recommendation Objective 10: Provide events and incentives to facilitate encourage people to biking cycle and walking more.**

- ~~Policy Recommendation 10.1:~~ Sponsor Bike to Work Week and Bike & Walk to School Day.
- **Policy Recommendation 10.2:** Promote the Wisconsin Bike Challenge to local employers to encourage bicycling to work and for other transportation and recreation.
- ~~Policy Recommendation 10.3:~~ Sponsor and/or support local family-friendly events that promote bicycling or walking.

**Recommendation Objective 11: Educate Wauwatosa residents about bicycling and walking issues.**

- ~~Policy Recommendation 11.1:~~ Provide bicycle education events such as bicycle rodeos and other activities.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

- ~~Policy Recommendation 11.2:~~ Include at least one piece of bicycle and pedestrian education annually in City communications to residents (City newsletter, utility bills, tax bills, other...).
- ~~Policy Recommendation 11.3:~~ Provide bicycle and pedestrian safety and education materials on the City webpage.
- ~~Policy Recommendation 11.4:~~ Investigate offering a bicycle and pedestrian education course as an alternative for bicyclists, pedestrians, and motorists who are first-time minor offenders of bicycle and pedestrian-related rules of the road.

### ~~Recommendation Objective 12:~~ Increase enforcement of existing traffic laws for all street users, particularly those that pose the greatest risks to bicyclists and pedestrians.

- ~~Policy Recommendation 12.1:~~ Perform "stings" to enforce the state law requiring motorists to yield to pedestrians in crosswalks, particularly in the Village, commercial areas such as North Avenue, and near schools throughout the City.
- ~~Policy Recommendation 12.2:~~ Enforce posted speed limits, particularly in school speed zones.
- ~~Policy Recommendation 12.3:~~ Utilize automated speed-tracking equipment to provide feedback to motorists when they are exceeding the speed limit.

### ~~Recommendation Objective 13:~~ Regularly evaluate and assess levels of bicycling and walking in Wauwatosa.

- ~~Policy Recommendation 13.1:~~ Conduct annual bicycle and walking counts throughout the City to measure the usage of facilities and growth in these modes of travel.
- ~~Policy Recommendation 13.2:~~ Track the total amount of bicycle facilities that have been installed in the City.
- ~~Policy Recommendation 13.3:~~ Apply for and receive a bronze level award for "Bicycle Friendly Community" from the League of American Bicyclists by 2014.
- ~~Policy Recommendation 13.4:~~ Apply for and receive a bronze level award for "Walk Friendly Community" from the Pedestrian and Bicycle Information Center sponsored by the U.S. Department of Transportation by 2014.

### ~~Recommendation Objective 14:~~ Provide staff and committee support for bicycling and walking in Wauwatosa.

- ~~Policy Recommendation 14.1:~~ ~~Create or assign~~ Consider creating the position of bicycle and pedestrian coordinator or assigning duties to existing staff and staff the position at a minimum of half time (1/2 FTE).
- ~~Policy Recommendation 14.2:~~ Create an official Bicycle and Pedestrian Committee if there is interest.

### ~~Objective 15:~~ Promote bicycle and pedestrian connections to transit.

- ~~Policy Recommendation 15.1:~~ Provide sidewalks on streets that have transit stops.
- ~~Policy Recommendation 15.2:~~ Provide bicycle parking at popular transit stops.

### ~~Objective 16:~~ Recommendation 15: Pursue funding for bicycle and pedestrian facilities from federal, state, and local sources.

- ~~Policy Recommendation 16.1:~~ Investigate hiring a grants writer to pursue funding opportunities.

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

- ~~Policy Recommendation 16.2:~~ Apply for project-specific funding during each state Transportation Alternatives application cycle (typically every two to three years).
- ~~Policy Recommendation 16.3:~~ Support the incorporation of bicycle and pedestrian facilities into street projects using the same funding as the rest of the project.

### ~~Recommendation 16:~~ ~~Objective 17:~~ Investigate the feasibility of participating in a regional bike share system.

- ~~Policy Recommendation 17.1:~~ Explore funding options and partnerships possibilities for community-regional bike share programs.
- ~~Policy Recommendation 17.2:~~ Begin to collect data and consider specific locations for bike share station locations.
- ~~Policy Recommendation 17.3:~~ Conduct a bike share feasibility study ~~by 2015~~.

### ~~Objective 18:~~ ~~Recommendation 17:~~ Update Wauwatosa's Municipal Code for consistency with state law.

- ~~Policy Recommendation 18.1:~~ Remove statute 11.48.20 relating to bicycling regulations and the use of child seats from the Municipal Code.
- ~~Policy Recommendation 18.2:~~ Remove statute 11.48.040 relating to bicyclists riding two abreast from the Municipal Code.
- ~~Policy Recommendation 18.3:~~ Remove statute 11.48.060 requiring bells on bicycles from the Municipal Code.
- ~~Policy Recommendation 18.4:~~ Consider changing statute 11.48.070 regarding the use of bicycles on sidewalks.

## 5.2 | Development of Bicycle and Pedestrian Non-Infrastructure Objectives and Policy Recommendations

Much like the processes described in Sections 3.2 and 4.2, the ~~objectives and policy~~ recommendations included in this chapter were largely derived from input from the public and the Plan Steering Committee.

### *Public Input*

~~As noted in Section 1.3 and Appendix A, extensive public input was provided for the development of this plan. These comments factored heavily into the development of the objectives and policy recommendations included in this chapter.~~

### *Steering Committee Input*

~~The Plan Steering Committee provided input about objectives and policies related to bicycling and walking programs.~~

### 5.3 | Encouragement ~~Objectives and Policy~~ Recommendations

~~Objective Recommendation 10~~ **Recommendation 10:** Provide events and incentives to ~~facilitate encourage people to biking cycle and walking more.~~

Small incentives or events can ~~help facilitate biking and walking. encourage people to walk or bike more.~~ Often a simple challenge or perks like commute stations providing coffee and bagels during Bike to Work Week ~~can spur provide the nudge~~ people ~~need~~ to walk or bike for a trip for which they normally would have driven.

~~Policy Recommendation 10.1:~~ Sponsor Bike to Work Week and Bike & Walk to School Day.

Bicycling to work or to other destinations is a great way to get exercise, save money, reduce pollution, and have some fun. Bike to Work weeks and Bike and Walk to School days are national activities and are easily organized with help from the League of American Bicyclists website. Information on the website includes a listing of national and local events, suggested promotional materials, and a handbook. The Wisconsin Bike Fed also provides support for local Wisconsin communities who wish to participate. Bike/Walk to School Day is an important component of Safe Routes to School as it both encourages and educates students on how to get to school via bike or their feet. Activities for these events may include:

- Morning commute stations where cyclists are treated to free coffee and breakfast, bike tune ups, and other incentives;
- Group rides with local civic leaders;
- Themed rides, such as a bike parade to school; and
- Discounts at local businesses for commuters and participants.

~~Policy Recommendation 10.2:~~ Promote the Wisconsin Bike Challenge to local employers to encourage bicycling to work and for other transportation and recreation.

The Wisconsin Bike Challenge is an annual event geared towards encouraging people to replace car trips with bicycle trips. Part of a larger national challenge, the Wisconsin program targets workplaces, hoping to increase the number of people who choose to commute via bicycle. The majority of the miles logged are commuter miles. Employees can form teams based on their location or their workplace and prizes are awarded in the transportation category. In 2013, over 1 million miles were logged by Wisconsin participants from April through June. Collectively, that's over 22 million calories burned and a savings of almost 1 million pounds of CO<sub>2</sub> entering the atmosphere. Transportation trips accounted for 49% of the miles logged.

~~Policy Recommendation 10.3:~~ Sponsor and/or support local family-friendly events that promote bicycling or walking.

Family friendly events can be a great way to capture the *interested but concerned* portion of the cycling population, as well as a great way to introduce kids to cycling as part of everyday normal life. Often these events are community oriented and can be as simple as a group ride organized on a Sunday. Other events include Cyclovias, themed rides, and rides organized around existing neighborhood festivals, parks, or cultural destinations.

## 5.4 | Education Objectives and Policy Recommendations

### **Recommendation Objective 11: Educate Wauwatosa residents about bicycling and walking issues.**

Education is critical to the success of a bicycle and pedestrian network within a community. There is oftentimes a mentality that “if you build it, they will come” when considering bicycle facilities. However, this is not always the case. If people are not comfortable riding their bikes for whatever reason, even the best facilities will remain underutilized. Most Americans do not receive any formal training on how to ride their bikes on a street, how bicycles work, or the rules of the road. Educational activities and strategies attempt to fill that knowledge gap.

**Policy Recommendation 11.1:** ~~Provide Partner with local organizations on~~ bicycle education events such as bicycle rodeos and other activities.

Bike Rodeos are a great way to direct and deliver bicycle related curricula to children. Topics discussed typically include the parts of a bicycle, how a bike works, how to fix a flat tire, proper helmet fitting, rules of the road, road positioning, and on-bike skills. These rodeos are often facilitated by local police department or cycling clubs and model programs are available through the League of American Bicyclists website.

**Policy Recommendation 11.2:** Include at least one piece of bicycle and pedestrian education annually in City communications to residents (City newsletter, utility bills, tax bills, other...).

Including bicycle related educational pieces in utility or tax bills is an easy way to reach a large group of people. Simple communications could cover a seasonal topic such as rules of the road, local bicycling ordinances, and back-to-school safety information.

**Policy Recommendation 11.3:** Provide bicycle and pedestrian safety and education materials on the City webpage.

Providing bicycle and pedestrian safety and education material to residents via the City’s webpage is another excellent way to reach potential and current users. Information should include:

- Maps and other resources (a bicycle user map will be provided as part of this plan);
- Links to laws, statutes, and ordinances related to walking and biking – both local and state;
- Information about local biking and walking events;
- List of and links to local bike shops and their numbers; and
- List of and links to all walking and biking groups, including clubs, racing teams, and advocacy groups.

**Policy Recommendation 11.4:** Investigate offering a bicycle and pedestrian education course as an alternative for bicyclists, pedestrians, and motorists who are first-time minor offenders of bicycle and pedestrian-related rules of the road.

Offering a bicycle and pedestrian education course as an alternative for bicyclists, pedestrians, and motorists who are first-time minor offenders of bicycle and pedestrian-related rules of the road is an efficient and cost effective way to deal with infractions. The City should explore this option for educating rather than punishing some rules of the road violators.

## 5.5 | Enforcement ~~Objectives and Policy~~ Recommendations

### ~~Recommendation Objective~~ 12: Increase enforcement of existing traffic laws for all street users, particularly those that pose the greatest risks to bicyclists and pedestrians.

Despite a number of laws aimed at improving safety for non-motorized users, lack of compliance with those laws is an often cited reason for why residents do not bike or walk to local destinations more frequently. Enforcement of those laws is often the most effective way of creating a culture of compliance.

#### ~~Policy Recommendation 12.1:~~ Perform “stings” to enforce the state law requiring motorists to yield to pedestrians in crosswalks, particularly in the Village, commercial areas such as North Avenue, and near schools throughout the city.

Crosswalk enforcement programs, also known as “stings” or “walk-outs,” have proven to be an effective way to train motorists to yield to pedestrians in crosswalks. Plains-clothed police officers attempt to cross in designated crosswalks and motorists who fail to yield are issued tickets. If this campaign is done frequently enough, but at unpredictable times, it can be a very effective way to increase compliance with yield to pedestrian laws within the community.

#### ~~Policy Recommendation 12.2:~~ Enforce posted speed limits, particularly in school speed zones.

Too often speed limits are viewed as guidelines by motorists. Studies show that the probability of serious injury and death to non-motorized users when hit by a car exponentially increases with each increment of 5mph. The enforcement of posted speed limits through warnings, ticketing and yard sign campaigns can quickly make compliance the rule of the neighborhood.

#### ~~Policy Recommendation 12.3:~~ Utilize automated speed-tracking equipment to provide feedback to motorists when they are exceeding the speed limit.

The use of automated speed-tracking equipment is a cost effective way to alert motorists to their speed. The equipment usually utilizing flashing LED signs that change significantly in appearance when an excessive speed is detected. Often placed near schools and other places where pedestrians are known to be present, automated speed-tracking equipment can cause motorists to consciously slow down.

## 5.6 | Evaluation ~~Objectives and Policy~~ Recommendations

### ~~Recommendation Objective 13: Regularly e~~ Evaluate and assess levels of bicycling and walking in Wauwatosa.

By evaluating and assessing the levels of cycling and walking within Wauwatosa, community leaders and city staff will be able to more effectively direct their efforts to improve cycling and walking conditions for residents and visitors. City staff will also be able to justify proposed capital improvement with hard statistics.

~~Policy Recommendation 13.1:~~ Conduct annual bicycle and walking counts throughout the City to measure the usage of facilities and growth in these modes of travel.

Annual bicycle counts provide a direct mechanism for tracking bicycling trends over time and for determining the impact of projects, policies, and programs that have been implemented. The National Bicycle and Pedestrian Documentation Project provides a recommended methodology, survey and count forms, and reporting forms available for free online. Local trainers for the program are also available. Counts are conducted using volunteer labor and therefore put little financial burden on city budgets.

~~Policy Recommendation 13.2:~~ Track the total amount of bicycle facilities that have been installed in the city.

Keeping track of the installed facilities within Wauwatosa will allow staff to plan appropriately for future improvements. ~~Using the determined prioritization criteria, h~~ Having a good understanding of existing conditions will enable planners to make the best use of capital dollars when implementing new facilities.

~~Policy Recommendation 13.3:~~ Apply for and receive a bronze level award for "Bicycle Friendly Community" from the League of American Bicyclists by 2014.

The League of American Bicyclists ranks applicant communities on their level of "bicycle friendliness" on a scale from "Honorable Mention" through "Platinum." The Bicycle Friendly Community program provides a roadmap to improve conditions for bicycling and the guidance to make Wauwatosa a more bikeable community. The application process will help the City recognize its strengths and weaknesses regarding bicycling, and the response from the League of American Bicyclists will help guide the City in improving bicycling. Finally, a bicycle friendly ranking is something the City can be proud of.

~~Policy Recommendation 13.4:~~ Apply for and receive a bronze level award for "Walk Friendly Community" from the Pedestrian and Bicycle Information Center sponsored by the U.S. Department of Transportation by 2014.

The Pedestrian and Bicycle Information Center awards communities that improve and prioritize pedestrian safety, access, mobility and comfort with either a bronze, silver or gold designation. PBIC, which is a partnership between the Federal Highway Administration, the University of North Carolina and FedEx, provides an community assessment tool to evaluate existing pedestrian conditions and programs largely based on the "4 E's:" education, encouragement, engineering and enforcement. This walk audit can also be used in planning for future improvements and filling in the gaps in the other E's. Applying for a bronze designation is a very visible way for the City to show its dedication to creating a walkable community.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

**Recommendation Objective 14: Provide staff and committee support for bicycling and walking in Wauwatosa.**

~~Policy Recommendation 14.1: Consider creating~~ **Create or assign** the position of bicycle and pedestrian coordinator ~~or assigning duties to existing staff, and staff the position at a minimum of half time (1/2 FTE).~~

Once the plan is complete, it will need to be implemented in order for successful improvements to be made within the community. The best way to achieve this is to have a Bicycle and Pedestrian Coordinator on staff and to create an official city committee in charge of bicycle and pedestrian issues.

Hiring a bicycle/~~pedestrian~~ coordinator or formally designating ~~duties to existing staff a bicycle and pedestrian coordinator~~ would provide a centralized point of contact for planning, programming and policies related to both on and off street facilities within Wauwatosa. Typical job duties could include:

- Planning and managing new programs in the areas of non-motorized accommodations, safety, education, enforcement, courses, and recreation;
- Developing safety and promotional information such as quarterly newsletters and route maps;
- Arranging for special displays and events at public and technical information presentations;
- Development, review, and implementation of bicycle master plan projects and updates;
- Serving as principal contact with Federal, state, and local agencies on bicycles and pedestrian matters ;
- Coordinating and maintaining budget and forecast budgetary needs;
- Seeking funding for implementation of bicycle facilities and working with appropriate offices to fully integrate bicycle and pedestrian projects in programming decisions;
- Serving on the bicycle advisory committee and safe routes to schools program committees/efforts; and
- Developing priorities for special studies in areas such as the location and cause of crashes; effectiveness of new facility designs; barrier removal analysis; and annual bicycle and pedestrian counts.

~~Policy Recommendation 14.2:~~ **Create an official Bicycle and Pedestrian Committee.**

Creating a permanent Bicycle and Pedestrian Committee with the City structure emphasizes the City's commitment to make biking and walking safer and more appealing to residents and visitors. Creating an official committee could be as simple as formalizing the Plan steering committee ~~or adding these responsibilities to the existing duties of the Traffic and Safety Committee. The BPAC typically focuses~~ **The focus in this case is typically** on non-motorized transportation in the public right-of-way which includes shared use paths. Potential committee responsibilities include:

- Reviewing and providing input on capital project planning and design as it affects bicycling and walking;
- Review and comment on changes to zoning, development code, comprehensive plans, and other long-term planning and policy documents;
- Participation in the development, implementation, and evaluation of Bicycle and Pedestrian related Master Plans and facility standards;
- Provision of a formal liaison between local government, staff, school district, and the public;
- Development and monitoring goals and indices related to bicycling; and
- Promotion of bicycling and walking, including safety and education.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

~~The committee should be created formally and De~~documentation could be developed that defines the committee's charge, responsibilities, member composition, how members are chosen/appointed, what the decision making structure is, and how often the committee meets.

## 5.7 | Other **Objectives and Policy** Recommendations

### ~~Recommendation~~**Objective 15: Promote bicycle and pedestrian connections to transit.**

Transit can be a great complement to bicycling and walking. Buses allow bicyclists and pedestrians to extend their trips and provide alternate transportation if the weather changes. By providing bicycle facilities and improving pedestrian access to the bus network, Wauwatosa can ensure that its transit system is best serving its users.

~~Policy Recommendation 15.1: Consider adding~~Provide sidewalks-pedestrian facilities on streets that have transit stops.

~~Sidewalks-Pedestrian facilities~~ and transit stops work together to create complete non-motorized networks within a community. Transit stops that are not accessible via sidewalk are likely to be underutilized and if they happen to be heavily used, the absence ~~lack~~ of ~~sidewalk-connections~~pedestrian facilities can create ~~dangerous-undesirable~~ conditions for users.

~~Policy Recommendation 15.2: Provide~~Consider providing bicycle parking at popular transit stops.

~~Similar to Policy 15.1, p~~roviding bicycle parking at transit stops may enable residents and visitors to use non-motorized transportation options for longer trips, ones they might have completed via car. It also provides more transportation options to residents who choose not to drive or are unable to drive to their destinations.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14**Recommendation 15: Objective 16: Pursue funding for bicycle and pedestrian facilities from federal, state, and local sources.**

Funding is arguably the greatest limitation to expanding bicycle and pedestrian infrastructure. The last several years of recession have seen dwindling local, state, and federal budgets. This undoubtedly has affected the capital budgets of the City of Wauwatosa and Milwaukee County—the two government agencies most likely to fund bicycle and pedestrian projects in this community. State and federal grant programs have not been immune to cut-backs resulting from the recession either. Competition for grant funding continues to increase while the total sum available shrinks. Developing a strategy to maximize the availability of funding for bicycle and pedestrian projects in Wauwatosa is important to the implementation of this plan.

**Policy Recommendation 16.1: Investigate hiring a grant writer to pursue funding opportunities.**

~~One of the most effective ways to increase the amount of grant funding available for projects within the community is to hire a grant writer or grant coordinator. Rather than pulling existing staff away from their other duties in order to fill out an application, a dedicated grant writer will fulfill this responsibility in a more efficient manner. He or she will also be able to find more grant opportunities and submit more applications than departmental staff. This position can be full or part time, in house or contracted, and need not focus solely on bicycle/pedestrian grants, though experience and knowledge in this area is beneficial. Usually, a skilled grant writer will “pay for themselves” each year, as the funding they are able to secure often exceeds their salary.~~

**Policy Recommendation 16.2: Apply for project-specific funding during each state Transportation Alternatives application cycle (typically every two to three years).**

One of the most significant grant programs for bicycle and pedestrian projects is the Transportation Alternatives Program or TAP (formerly Transportation Enhancements)<sup>17</sup>, which is administered by WisDOT. Last year, more than \$32 million was awarded for bicycle and pedestrian projects across the state. Because it is the largest grant program dedicated to these types of projects, it is highly recommended that Wauwatosa submit at least one project-specific application each year. ~~Applications for 2012 are due in October.~~

**Policy Recommendation 16.3: Support the incorporation of bicycle and pedestrian facilities into street projects using the same funding as the rest of the project.**

Beyond improving Wauwatosa’s ability to win grant funding, it is important to make the most of the City’s internal funding resources. Often, the most cost-effective way to implement bicycle and pedestrian infrastructure improvements is by adding them to the scope of other capital projects. Building ~~facilities sidewalks~~ while replacing or upgrading utilities, or striping bike lanes as part of a street resurfacing projects both provide economies of scale that will help funding for bicycle and pedestrian projects go farther.

<sup>17</sup> More information regarding the TAP can be found here: <http://www.dot.wisconsin.gov/localgov/aid/tap.htm>

**~~Recommendation 16: Objective 17-~~ Investigate the feasibility of participating in a regional bike share system.**

Pioneered in Europe in the 1970s, bike sharing systems have existed in the United States since Portland's Yellow Bike Project began in 1994. In recent years, new programs have been rapidly expanding across the country and feature membership systems and the ability to find a bike to rent via the internet. These systems are recognized as effective tools for introducing people to cycling, supporting tourism, and increasing pedestrian activity in walkable retail areas as bike share systems help to connect walkable districts.

**~~Policy Recommendation 17.1-~~ Explore funding options and partnerships possibilities for community-regional bike share programs.**

Exploring opportunities for developing a bike share system in Wauwatosa should include considering the possibility of a regional partnership with Milwaukee and other nearby communities. The City of Milwaukee is currently considering the feasibility of a bike share system. If the decision is to go forward with bike share, it would be beneficial for Wauwatosa to join as a partner. Such a partnership would allow people to buy one membership that works in both cities, bikes to be compatible with any parking station (though it is unlikely that people will ride a bike share bike on intercity trips), and a single organization to manage the system in both cities. In addition, grants are often sought for bike share systems and a co-application developed by both cities would likely have a competitive advantage. Currently Capital Bikeshare in Washington, DC, provides service in a number of the surrounding municipalities including Arlington and Alexandria, Virginia.

**~~Policy Recommendation 17.2-~~ Begin to collect data and consider specific locations for bike share station locations.**

It is advisable for the City of Wauwatosa to identify preliminary locations for bike share stations. This activity requires collecting and analyzing data, such as public input, bike trip counts, parking turn-over, and adjacency to existing and planned bikeways. This data can then be used to identify potential hotspots for bike share activity. Such hotspots will likely include The Village and other mixed-use areas (including those that are currently in the planning stages), major parks and recreation sites, the Milwaukee County Research Park, and the Milwaukee Regional Medical Center. This planning work can also be combined with more detailed planning for general bike parking locations.

**~~Policy Recommendation 17.3-~~ Conduct a bike share feasibility study ~~by 2015~~.**

A full bike share feasibility analysis should be conducted ~~by 2015~~. This analysis would validate and adjust the preliminary station locations identified in the previous step. It would also estimate the level of demand at each station, develop a schedule for station implementation, and forecast costs and revenues. Finally, along with the feasibility analysis, recommendations will be made regarding the specific bike share system equipment and technology to acquire, as well as suggestions for station-area security and amenities.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14**Objective ~~18~~: Recommendation 17: Update Wauwatosa's Municipal Code for consistency with state law.**

A number of items in the City's Municipal Code either are inconsistent with state law or detract from the bicycle friendliness of the city. These items should be updated to be more bicycle friendly and to be consistent with state law.

**~~Policy Recommendation 18.1:~~** Remove statute 11.48.20 relating to bicycling regulations and the use of child seats from the Municipal Code.

The behaviors covered by 11.48.20 are included in state law, therefore making the municipal ordinance unnecessary. Additionally, Section 2(c) of the ordinance likely conflicts with state law, Section 2(d) requires compliance with 2(c), and 2(e), which limits the use of child seats to daytime hours, is an unjustified infringement on travel times.

**~~Policy Recommendation 18.2:~~** Remove statute 11.48.040 relating to bicyclists riding two abreast from the Municipal Code.

The existing statute requires bicyclists to ride in single file, which is contrary to state law, which allows two-abreast bicycling under many conditions.

**~~Policy Recommendation 18.3: Remove-Remove~~** statute 11.48.060 requiring bells on bicycles from the Municipal Code.

The existing statute requires bicyclists to have a bell or "audible warning device" on their bicycle, which imposes a higher standard than state law, which is an inconsistency and not allowed.

**~~Policy Recommendation 18.4:~~** Consider changing statute 11.48.070 regarding the use of bicycles on sidewalks.

Bicycling on the sidewalk is a complicated issue. In some areas with few driveway crossings, few pedestrians, and bicyclists who stop or yield at every intersection, it can work fine. In other areas, bicyclists on sidewalks can present a hazard to pedestrians, and are often at risk of being involved in a crash at a driveway or intersection with a motorist who is not expecting a fast moving bicyclist on the sidewalk.

Currently it is illegal to ride a bicycle with wheels that are 24 inches or larger on the sidewalk in Wauwatosa. The intent of this regulation was likely to allow children to bicycle on the sidewalk while prohibiting adults from doing so. However, setting this policy by wheel size is ineffective in an era with an expanded range of bicycles and bicycle wheel sizes. A better approach to regulating sidewalk bicycling would be to allow or disallow it by zone, depending on the relative safety of the practice in different areas. Madison, Wisconsin, prohibits sidewalk bicycling in all areas of the city where buildings directly abut the sidewalk. This regulation prohibits sidewalk bicycling in the downtown area as well as other commercial districts where there are likely to be conflicts between bicyclists and pedestrians. The City should consider changing the sidewalk bicycling policy to something similar to Madison's policy, or a similar policy that recognizes that sidewalk bicycling, while generally not the recommended practice for adult bicyclists, is not always inappropriate for a wide range of users including young children.

## 6 | Implementation Approaches and Funding Opportunities

### 6.1 | Implementation Approaches

The City should pursue implementation of projects in this plan whenever possible. This implementation will likely fall into two distinct categories: stand-alone capital projects, and projects that can easily be implemented as part of another project. These opportunities are described more in this section.

#### 6.1.1 | Proactive Implementation: Capital Project Prioritization

Prioritizing capital projects is an activity that City departments undertake annually. There are a number of issues in this process for which the City may want to develop guidelines that relate to the bikeway and pedestrian projects in this plan, including the following:

- Setting a project size (i.e. dollar amount, or level of effort) to determine which bikeway and/or pedestrian projects should be implemented as major capital expenditures.
- Determining which bikeway and/or pedestrian projects should be integrated into roadway projects that are on the capital project list, or likely to be added to the list.
- Determining which bikeway and/or pedestrian projects should be in the capital budgets of other City departments, such as recreation and parks, schools, transit, public works, libraries, etc., or in the capital budgets of other municipalities or agencies such as Milwaukee County or Wisconsin DOT.

#### *Small and Medium Sized Projects*

To manage implementation of small and medium sized bikeway and pedestrian projects, many jurisdictions establish an on-going Bicycle and Pedestrian Infrastructure Funding Program(s), for which a lump sum is budgeted each year. Selection of which projects to fund annually can be done through an inter-department coordination group that is managing implementation of this Plan. This funding is flexible and thus can be used to respond to new opportunities, critical needs that were not foreseen in the planning process as well as annually identified priority projects that are implemented as a part of a eCity's routine work managing public infrastructure. Such projects may be in conjunction with road resurfacing projects, intersection improvement projects, other programmatic transportation activities, or property management and maintenance activities of the departments managing parks or public schools.

#### 6.1.2 | Opportunity Implementation

Frequently, public or private developments or routine departmental work create opportunities to implement bicycle and/or pedestrian projects. While these approaches may be reactive in nature, they are none-the-less effective methods to implement the Plan.

- **Road Resurfacing:** A key opportunity is the annual scheduling of City resurfacing projects. While resurfacing schedules are generally based on pavement quality and pavement life, specific segments of road are typically identified for resurfacing on an annual basis prior to the beginning of the paving season. It is important that this process begin to take into account the implementation needs of this Plan.
- **Development Projects:** Private development of residential or commercial projects is also a key opportunity for the City to implement recommendations in the Plan. Based upon their traffic impacts, the site design features that relate to their property frontage, and their requirements to contribute to needed public facilities, the City may be able to require or request that bikeways and pedestrian facilities

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

that will serve the development be constructed as a part of the project or part of other transportation improvements that the City is requiring.

- **Routine City Work:** A third opportunity relates to monitoring routine work to address such things as neighborhood traffic calming, traffic signal management, and other traffic management and safety needs at intersections, including crosswalk installation and maintenance, curb ramp retrofits, and installation of curb extensions. The City should ensure that bicycle and pedestrian accommodations and safety features, especially those identified in the Plan, are incorporated into these projects as a routine part of evaluation and design.

### 6.2 | Inter-Agency Coordination

Effective implementation of the Bicycle & Pedestrian Facilities Plan will require ongoing coordination among a significant number of City departments. Additionally, the City will need to coordinate with its neighboring jurisdictions, Milwaukee County, and the State of Wisconsin. Finally, coordination with representatives of the local bicycling advocacy community is also important as they may be able to play a role in keeping projects on track or resolving unforeseen issues.

### 6.3 | Funding

Determining how to fund various bikeway and pedestrian improvements is a key strategic issue that communities face when implementing bicycle and pedestrian plans. While there are many funding options, each source may have limitations making it more or less appropriate for certain types of projects. Some funding sources are targeted to infrastructure while others target education and encouragement efforts. Some sources are not directly bicycle or pedestrian related but can be applied to bikeway and pedestrian projects that may have a nexus with another public priority such as historic preservation or public health. Some sources may support grants of hundreds of thousands or millions of dollars; others may be targeted to smaller amounts and require citizen volunteers or community involvement, as a part of the required local match.

#### 6.3.1 | Federal Funding Administered by State Agencies

The primary Federal Transportation funding programs for bicycling were consolidated under the MAP-21 legislation of 2012.<sup>18</sup> The Transportation Enhancements, Safe Routes to School and National Recreational Trails programs were combined into the Transportation Alternatives Program (TAP). Funding levels were reduced over previous years, and some changes were made in project eligibility. Greater authority was given to Metropolitan Planning Organizations regarding project selection. Table 6 provides a summary of the types of bikeway projects that would be eligible for a wide range of Federal Transportation funding programs.

Programs that remain unchanged by MAP-21 include the following. Most of these programs are under a larger Surface Transportation Program known as STP with allocations to sub-programs.

- **The Surface Transportation Urban Program** provides flexible funding that may be used by States and localities for projects on any Federal-aid highway, including bridge projects on any public road, transit capital projects, and intracity and intercity bus terminals and facilities. These funds may be used for either the construction of bicycle transportation facilities and pedestrian walkways, or non-construction projects such as maps, brochures, and public service announcements related to safe bicycle use and walking. Although seldom used for bicycle and pedestrian projects, this is still an excellent source of

<sup>18</sup> Moving Ahead for Progress in the 21st Century Act (MAP-21)

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

funding for hard to finance bicycle and pedestrian projects. Up to 80% of project costs can be covered by STP Urban funds. The Milwaukee MPO (Southeastern Wisconsin Regional Planning Commission) administers these funds using a formula to ensure equal distribution.

- The **Transportation Alternatives** program will provide the City's best opportunity for federal funding of bicycle and pedestrian projects. Projects that exceed \$400,000 are the best fit for this program since a significant amount of administrative work is involved. As indicated above, this is a new program which combines former programs. New for 2014 will be the selection of projects by the Milwaukee MPO (the Southeastern Wisconsin Regional Planning Commission) since they are a federally designated Transportation Management Agency.
- Ten percent of each State's annual Surface Transportation Program funds is set aside for the **Highway Safety Improvement Program** and **Railway-Highway Crossing Program**, which addresses bicycle and pedestrian safety at hazardous locations.
- Funds from the **Congestion Mitigation and Air Quality Improvement Program (CMAQ)** may be used to construct bicycle facilities, pedestrian walkways, or non-construction projects such as maps, brochures, and public service announcements related to safe bicycle use. Milwaukee County is one of the areas in Wisconsin that qualifies for CMAQ funds.
- Funds from the **Recreational Trails Program (RTP)** may be used for all kinds of trail projects. This is the only federal transportation funding source that can be used for maintenance activities.
- The **Highway Safety Grant Program (Section 402)** is administered by Wisconsin DOT. Federal 402 funds are used for pedestrian and bicycle public information and education programs. Funds are distributed to states annually from the National Highway Traffic Safety Administration (NHTSA) according to a formula based on population and road mileage. Government agencies or government-sponsored entities are eligible to apply for 402 funds. The City has been consistent recipients of WisDOT "mini-grants" using NHTSA 402 funds.

Table 20 provides a draft list of Federal funding sources that may be available for bicycle and pedestrian projects. Additionally, Advocacy Advance provides an online Bicycle and Pedestrian Federal Funding Resources List with frequently undated links to each program:

[http://www.advocacyadvance.org/site\\_images/content/Advocacy\\_Advance\\_Federal\\_Funding\\_Resource\\_List.pdf](http://www.advocacyadvance.org/site_images/content/Advocacy_Advance_Federal_Funding_Resource_List.pdf)

### 6.3.2 | State Funding Sources

Currently, there are no state programs that fund bicycle and pedestrian projects. For a two year period, the WisDOT Bicycle and Pedestrian Facilities Program provided state funds, along with federal funds, to provide funding of local project. The one exception to this is the Department of Natural Resources' Stewardship Program. The set of eligible activities includes paths, but only for acquisition of property for paths. When stewardship funds have been used for paths, they have been dedicated primarily for the purchase of long segments of rail properties for trail use.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14**6.3.3 | Local Funding Sources**

A discussion of funding approaches was presented earlier in this chapter. One effective approach is that bicycle and pedestrian facilities should be included as part of reconstruction projects and perhaps with resurfacing projects. However, to set the plan in motion, higher priority projects need to be funded as independent projects. In order to do that, local funds will need to be used either on their own and/or as a match for federal funding.

Generally, the majority of the bikeway recommendations that are implemented as stand-alone projects will need to be funded through the city's general fund. This is particularly true of any on-street markings. Projects that have a longer life than street markings (ie.i.e. paths) may be able to be financed through general obligation debt in the same manner that many street or other infrastructure projects are financed.

Sidewalks are currently financed completely through property assessments. Assuming Wauwatosa continues assessing abutting property owners for sidewalk construction and repair, implementing the sidewalk recommendations in this plan will not impact the City's budget. A more detailed discussion about funding sidewalk construction is included in Section 4.6.1.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 20: Draft table of Federal funding sources available for bicycle and pedestrian projects<sup>19</sup>

| Activity   | FTA | ATI | CMAQ | HSIP | NHPP NHS | STP | TAP TE | RTP | SRTS* | PLAN | 402 | FLH | BYW** | TCSP** |
|--|-----|-----|------|------|----------|-----|--------|-----|-------|------|-----|-----|-------|--------|
| Access enhancements to public transportation               | ●   | ●   | ●    |      |          | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Bicycle and/or pedestrian plans                            | ●   |     |      |      |          | ●   |        |     |       | ●    |     | ●   |       | ●      |
| Bicycle lanes on road                                      | ●   | ●   | ●    | ●    | ●        | ●   | ●      |     | ●     |      |     | ●   | ●     | ●      |
| Bicycle parking  | ●   | ●   | ●    |      |          | ●   | ●      |     | ●     |      |     | ●   | ●     | ●      |
| Bike racks on transit                                      | ●   | ●   | ●    |      |          | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Bicycle share (capital/equipment costs; not operations)    | ●   | ●   | ●    |      | ●        | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Bicycle storage or service centers                         | ●   | ●   | ●    |      |          | ●   | ●      |     |       |      |     |     |       | ●      |
| Bridges / overcrossings                                    | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Bus shelters   | ●   | ●   |      |      |          | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Coordinator positions (State or local)                     |     |     | ●    |      |          | ●   | ◆      |     | ●     |      |     |     |       |        |
| Crosswalks (new or retrofit)                               | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Curbs cuts and ramps                                       | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Helmet promotion   |     |     |      |      |          | ●   | ◆      |     | ●     |      | ●   |     |       |        |
| Historic preservation (bike, ped and transit facilities)   | ●   | ●   |      |      |          | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Land/streetscaping (bike and/or ped route; transit access) | ●   | ●   |      |      |          | ●   | ●      |     |       |      |     | ●   |       | ●      |
| Maps (for bicyclists and/or pedestrians)                   | ●   | ●   | ●    |      |          | ●   | ◆      |     | ●     |      | ●   |     | ●     | ●      |
| Paved shoulders  |     |     | ●    | ●    | ●        | ●   | ●      |     | ●     |      |     | ●   | ●     | ●      |
| Police patrols   |     |     |      |      |          | ◆   | ◆      |     | ●     |      | ●   |     |       |        |
| Recreational trails  |     |     |      |      |          | ●   | ●      | ●   |       |      |     | ●   |       | ●      |
| Safety brochures, books                                    |     |     |      |      |          | ◆   | ◆      |     | ●     |      | ●   |     |       |        |
| Safety education positions                                 |     |     |      |      |          | ◆   | ◆      |     | ●     |      | ●   |     |       |        |
| Shared use paths / transportation trails                   | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Sidewalks (new or retrofit)                                | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Signs / signals / signal improvements                      | ●   | ●   | ●    | ●    | ●        | ●   | ●      |     | ●     |      |     | ●   |       | ●      |
| Signed bicycle or pedestrian routes                        | ●   | ●   | ●    |      | ●        | ●   | ●      |     | ●     |      |     | ●   | ●     | ●      |
| Spot improvement programs                                  | ●   |     | ●    | ●    |          | ●   | ●      | ●   | ●     |      |     |     |       | ●      |
| Traffic calming  | ●   |     |      | ●    | ●        | ●   | ●      |     | ●     |      |     |     |       | ●      |
| Trail bridges  |     |     | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Trail/highway intersections                                |     |     | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |
| Training   |     |     | ●    |      |          | ●   | ●      | ●   | ●     |      | ●   |     |       | ●      |
| Tunnels / undercrossings                                   | ●   | ●   | ●    | ●    | ●        | ●   | ●      | ●   | ●     |      |     | ●   | ●     | ●      |

\* Until Expended      \*\* Until Not Available      ◆ As SRTS

A key for the programs referenced in Table 6 is provided on the next page.

<sup>19</sup> Table provided by the Federal Highway Administration. As some of the programs noted in the table are subject to reauthorization, the table should be considered a draft.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14*Table 6 Key*

- **FTA:** Federal Transit Administration Capital Funds
- **ATI:** Associated Transit Improvement
- **CMAQ:** Congestion Mitigation and Air Quality Improvement Program
- **HSIP:** Highway Safety Improvement Program
- **NHPP/NHS:** National Highway Performance Program (National Highway System)
- **STP:** Surface Transportation Program
- **TAP/TE:** Transportation Alternatives Program / Transportation Enhancement Activities
- **RTP:** Recreational Trails Program
- **SRTS:** Safe Routes to School Program
- **PLAN:** Statewide or Metropolitan Planning
- **402:** State and Community Traffic Safety Program
- **FLH:** Federal Lands Highway Program (Federal Lands Access Program, Federal Lands Transportation Program, Tribal Transportation Program)
- **BYW:** National Scenic Byways Program
- **TCSP:** Transportation, Community, and System Preservation Program

## 7 | Conclusion

Wauwatosa has been making strides toward becoming a better place to walk and ride a bike in recent years. Improvements such as adding bike lanes on Wauwatosa Avenue and approving bike lanes on North Avenue show that the City is interested in improving bicycling conditions. Streetscape redesigns in the Village and other parts of the City have improved conditions for pedestrians as well. In addition to these improvements, Wauwatosa has slowly been adding connections to the shared use path network running through the city. All of these improvements have made it easier and safer for Wauwatosa residents and visitors to walk or bicycle for transportation or recreation if they want to do so.

~~In addition to~~ Despite these recent bicycling and walking improvements, ~~much remains to other actions can be done undertaken~~ to continue to make Wauwatosa a great place for residents of all ages and abilities to walk and bicycle to their destinations. By undertaking this plan, the City has shown interest in making these needed improvements. This plan provides specific recommendations for facilities, and programs, ~~and policies~~ that will better connect Wauwatosa, and make it easier for people to walk and bicycle if they choose to.

## Appendix A | Public Comments

### A.1 | General Comments

Public comments were received throughout the planning process. The majority of the comments were submitted via email to City staff, but comments were also received at the two Open Houses. The comments received will not be reprinted here, but were each considered when developing recommendations for the plan.

### A.2 | WikiMap Comments

An online, interactive “WikiMap” was used to solicit public comments about walking and bicycling in Wauwatosa. The mapping tool is based on Google Maps, and allows users to enter lines or points on the map and add comments to those lines and points. The WikiMap was available from March 11, 2013, until June 26, 2013. During that time, 719 total comments were received:

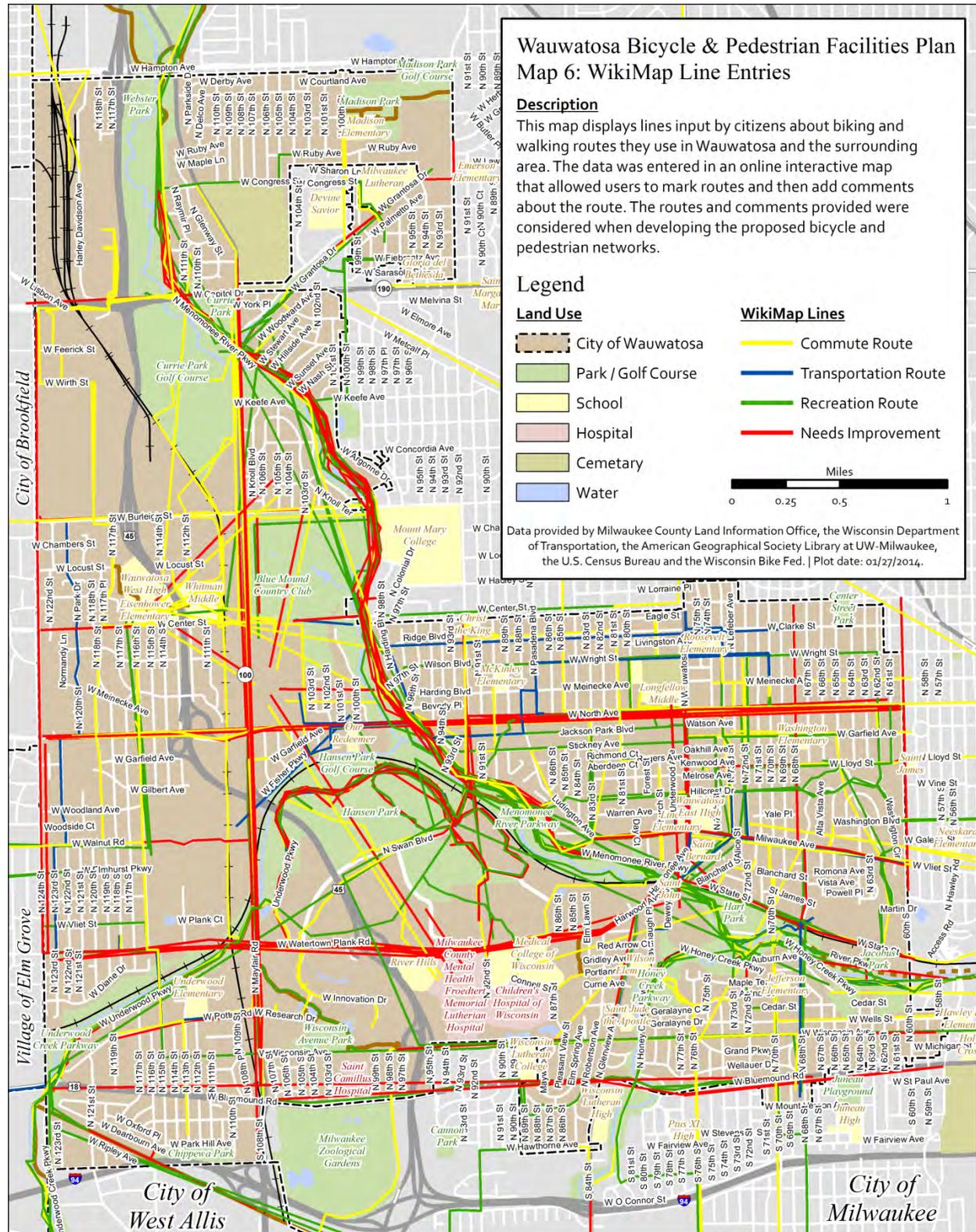
- 333 line comments
- 386 point comments
- 132 unique users (5.44 comments per user average)

Maps 6 and 7 on the following pages display the locations and types of comments received, but not any narrative comments that were included with entries.

### City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

Figure 8: Map of routes entered in online interactive map

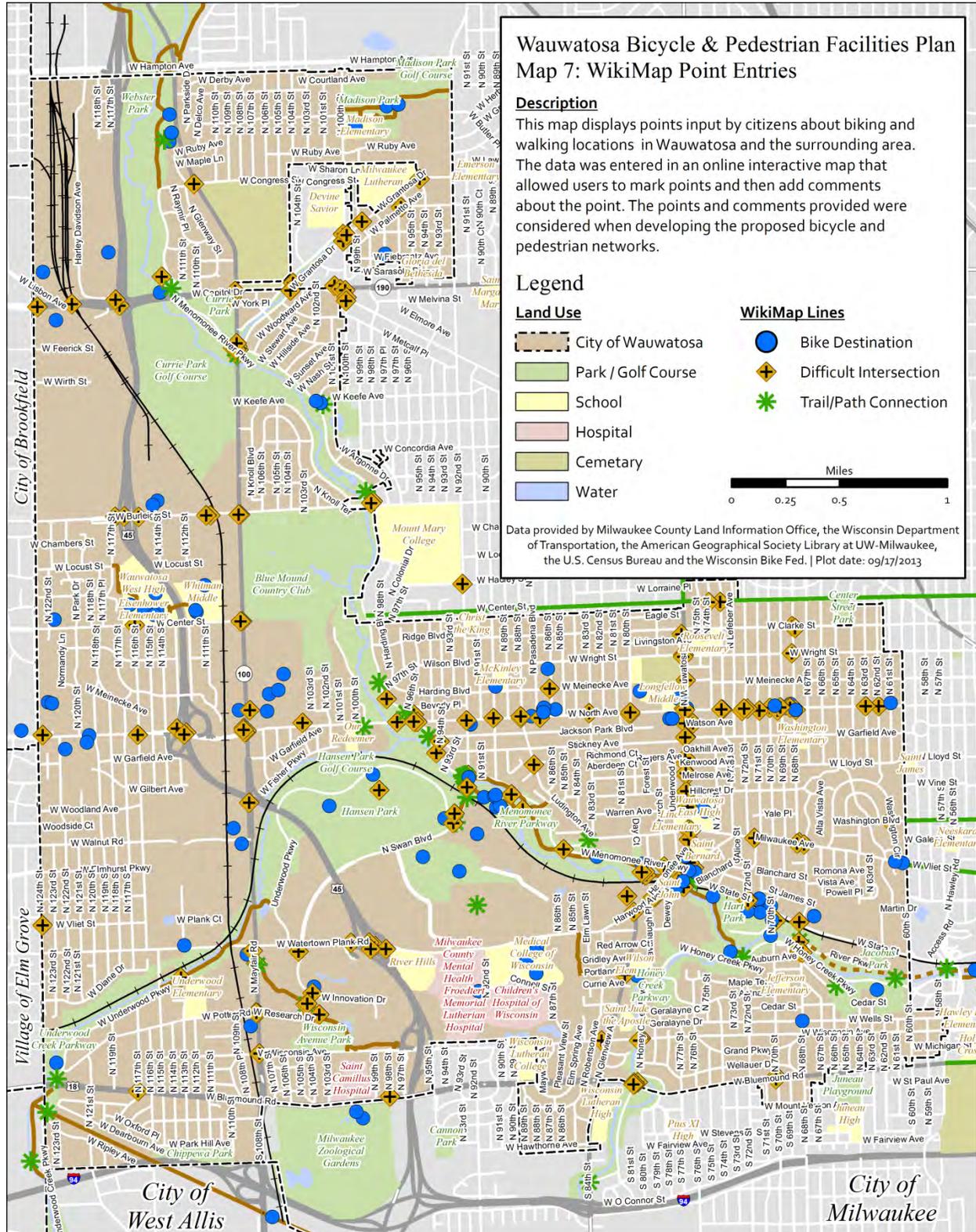


Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

# City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Figure 9: Map of points entered in online interactive map



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

### A.3 | Parkway Comments

Public comments were solicited online and in person about walking and bicycling in Wauwatosa as part of the outreach for the Wauwatosa Bicycle & Pedestrian Facilities Plan. More comments were received about the County Parkway System within the City of Wauwatosa than any other area of the city. In general, the comments highlight what a great resource the parkways are, but note that they are in poor condition for bicyclists and pedestrians. The comments can be summarized as follows:

- *The pavement condition on the Menomonee River and Underwood Parkways is terrible and presents unsafe conditions for bicyclists.*
- *Bike lanes are needed on the Menomonee River and Underwood Parkways.*
- *The existing off-street portion of the Oak Leaf Trail along the Menomonee River Parkway should be extended north from Swan to Congress.*
- *The existing trails along and near the Underwood Parkway should be paved.*
- *Lighting is needed on the existing paths, particularly where they are set back from the street and are not lit by the street lights.*
- *Too many people use the Menomonee River Parkway as a cut-through which results in lots of fast traffic – traffic calming measures are needed.*

A selection of comments related to the Menomonee River and Underwood Creek Parkways is provided at the end of this memo. While some comments have been received about the Honey Creek Parkway, they are not as significant as those received for the Menomonee River and Underwood Creek Parkways.

We are still developing the draft network plan for the city, but based on these comments, field work we have conducted, and meetings with the plan's steering committee, we are considering the following bicycle and pedestrian improvements as recommendations:

- Repave the Menomonee River and Underwood Creek Parkways.
- Provide a paved shared use path along the North Menomonee River Parkway from the existing path at North Swan Boulevard to the existing path at West Congress Street for bicyclists and pedestrians.
- Provide bike lanes on the entire length of the Menomonee River Parkway; this will require limiting parking to one side of the street and may require slight widening of the street (two to three feet).
- Provide shared lane markings on the Underwood Creek Parkway from West Watertown Plank Road to North Swan Boulevard.

The impending reconstruction of the Menomonee River Parkway provides a rare opportunity to install a shared use path and on-street bicycle facilities. Providing a path will meet the needs of pedestrians, children on bicycles and less confident bicyclists, while on-street facilities will meet the need of faster and more confident bicyclists. Bike lanes will also provide a “narrowing” effect on the travel lanes which may work to slow traffic speeds slightly.

Selection of comments related to the Menomonee River Parkway:

- *Paved path needed to connect the Oak Leaf Trail from Village to the path north of W. Congress.*
- *Street is in desperate need of repaving*
- *Road is in terrible shape, extremely dangerous for cyclists, cars drive excessively fast.*
- *The pavement is bad and there's no bike path or designated bike lane. Either would be an improvement.*
- *Menomonee River Parkway needs a lot of work.*

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

- *Would like paved path to continue from Swan to Center- running on road is dangerous.*
- *This route is frequently used by bicyclists and joggers - as a driver, it is hard to see them at dusk. This is an unsafe route and is a very logical extension of the bike path running from Hoyt to the Village*
- *Road needs repaving - lots of bumpy patches as well as holes.*
- *This whole section is dangerous to bike.*
- *Enjoy this recreational route. Would like to see improvements so I can take kids with me.*
- *Lots of pot holes and bumpy.*
- *Needs improvement, please add a marked bike lane.*
- *The parkway is treacherous for cycling with the condition of the road.*
- *It would be great if this section had an off road bike/walk path for safe travel along the parkway from the north end to the village.*
- *Menomonee Parkway is very rough terrible road needs to be replaced a.s.a.p.*
- *Crummy road with no pedestrian friendly amenities. Need a paved off street trail like north of congress and west of swan.*
- *This section of trail is set back from the roadway and could use lighting.*

Selection of comments related to the Underwood Creek Parkway:

- *Will this beautiful trail ever be paved? It is such a nice trail but taking a bike on it is dangerous! Also, people walk their dogs off leash on the trails which is dangerous*
- *This is a key connection for Wauwatosa bicyclists to connect to the Oak Leaf Trail*
- *The road is in horrible shape with potholes and cracks that make it near impossible to ride. This increases traffic on the busy Swan Blvd or HWY 100 which are dangerous*
- *Great location, terrible condition*
- *Road is in serious need of repair. Not suitable for cycling.*
- *Parkway near Hansen golf course is in horrible shape, with huge potholes and rough sections.*
- *needs to be repaved and also connected to Hank Aaron and Oak Leaf*
- *Road condition dangerous to cyclists.*
- *The road conditions on this route are horrible. It's only a matter of time before a biker is seriously injured. This road needs to be fixed a.s.a.p.!*
- *Pavement on Underwood Pkwy is uncomfortable for biking - very choppy due to breaks between pavement sections.*
- *Road condition is treacherous*
- *Very rough pavement makes for hazardous ride.*
- *The parkway roads are some of the worst roads in the county. This stretch offers many hazards to bikers- large cracks, potholes, etc.*
- *Good alternative route with low traffic, but pavement is terrible.*
- *This entire route has severe road cracking. It's very annoying, riding over these cracks with small tires with high air pressure. It causes seat and wrist pain and make me not want to ride on the path*
- *Underwood can really use some work. Very rough road, even for vehicles. Otherwise a wide open, lightly trafficked route.*
- *Alternate route to and from work, the parkways are nice and safe, but the roads are VERY bumpy and it'd be great to see actual bike lanes marked along with new asphalt.*
- *The road along underwood parkway is treacherous for cycling. There needs to be a better access to underwood parkway from Hoyt.*

## Appendix B | Existing Plans and Policies

This appendix describes background plans and policy documents relevant to the City of Wauwatosa Bicycle and Pedestrian Facilities Plan. The narrative summarizes previous and on-going planning efforts affecting biking and walking in Wauwatosa. The summary identifies issues that may impact the findings and ultimate recommendations of this project. The review focuses on plans and studies prepared by the Wisconsin Department of Transportation (WisDOT), the Southeastern Wisconsin Regional Planning Commission (SEWRPC), and local plans from the region.

The following plans were reviewed for this analysis:

### *Statewide Documents*

- Wisconsin State Bicycle Transportation Plan 2020 (1998) and Connections 2030
- Wisconsin Pedestrian Policy Plan 2020 (2002) and Connections 2030
- Advisory on Installation of Bicyclist Compatible Rumble Strips (2011)
- Wisconsin Department of Transportation Guide for Path/Street Crossings (2011)
- Developing a Model for Reducing Bicycle/Motor Vehicle Crashes (2006)
- Wisconsin Bicycle Planning Guidance (2003)
- Wisconsin Bicycle Facility Design Handbook (2004)
- Wisconsin Guide to Pedestrian Best Practices (2010)

### *Regional and County Focused Documents*

- Milwaukee County Trails Plan (2007)
- Planning Connections Milwaukee County Grounds Trail Plan (2011)
- A Park and Open Space Plan For Milwaukee County (1991)
- SEWRPC Planning Report 49: A Regional Transportation System Plan for Southeastern Wisconsin: 2035 (2006)

### *Local City, Town, and Village Planning Documents*

- The Village of Wauwatosa – A Strategic Development Plan (2011)
- East Tosa North Avenue Plan (2011)
- City of Wauwatosa Comprehensive Plan 2008-2030
- City of Wauwatosa Code of Ordinances

## B.1 | Statewide Documents

### **B.1.1 | Wisconsin State Bicycle Transportation Plan 2020 (1998) and Connections 2030**

This plan provides guidance on the state-owned and state-supported transportation systems in Wisconsin. Policies are divided into urban and intercity (rural) geographies. Policies from the urban category apply to Wauwatosa.

#### *Urban:*

- Bicycle provisions on urban arterial streets (i.e., wide curb lanes, bicycle lanes or paved shoulders) should be made in accordance with Metropolitan Planning Organization (MPO) and community bicycle plans.

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

- On Urban State Trunk Highways, where suitable accommodations for bicyclists now exist, new highway improvements will be planned to continue an acceptable level of service and safety for bicyclists.
- WisDOT will cooperate with local jurisdictions to help develop "stand alone" bikeway projects, including bicycle path facilities, when they are consistent with an approved plan and provide important bicycle transportation improvements.
- Safe crossings should be maintained or created when bikeways and streets intersect highways. Crossing controls or grade separations should be considered where there are inadequate gaps in traffic for safe bicycle path crossing.
- Intersection design should consider the needs of bicyclists. All intersections should be wide enough for safe bicyclist crossing;

WisDOT's comprehensive transportation plan – Connections 2030 – not only supports the above recommendations, but calls for the incorporation of bicycle and pedestrian accommodations into projects now widely known as "complete streets". The plan states: "Include bicycle and pedestrian facilities on state and federally funded projects, following the federal 'Complete Streets' policy." The plan goes on to recommend changes to policies, practices, and standards to fully implement complete streets. A state law was passed in 2009 that made complete streets a requirement for new and reconstructed streets.

### **B.1.2 | Wisconsin Pedestrian Policy Plan 2020 (2002) and Connections 2030**

The Policy Plan encourages local governments, MPOs and Regional Planning Commissions (RPCs) to devote attention to meeting pedestrian needs on roadways in their areas. This guide is WisDOT's primary method to accommodate pedestrians and other interested groups.

Key WisDOT policy statements and actions include:

- WisDOT will review all state trunk highway projects for pedestrian needs using scoping criteria and guidelines.
- WisDOT supports stand-alone sidewalk projects through such programs as the Transportation Enhancement Program for sidewalk retrofit projects to fill in gaps.
- WisDOT commits to minimizing the "barrier effect" to walking. This is sometimes posed by state trunk highways or by joining local sidewalks to state trunk highway sidewalks. Particular attention will be paid to needs near high traffic generators such as schools and commercial areas.

WisDOT's comprehensive transportation plan – Connection 2020 – not only supports the above recommendations, but calls for the incorporation of pedestrian accommodations into projects now widely known as "complete streets." The plan calls on WisDOT to evaluate and work to expand opportunities to include bicycle and pedestrian accommodations on urban state trunk highway projects. It also lends support for the use ADA design guidelines and the community sensitive design solutions.

### **B.1.3 | Advisory on Installation of Bicyclist Compatible Rumble Strips (2011)**

The purpose of this advisory is two-fold: 1) to alert highway officials and engineers in Wisconsin of the potential problems and hazards posed to bicyclists when rumble strips are improperly designed and/or constructed and 2) to act as a limited resource for guidance and standards currently available on rumble strips, especially as they pertain to making rumble strips bicycle compatible. This advisory is intended for all non-interstate and non-freeway rural roadways in Wisconsin regardless of ownership of the roadway or source of funding for highway improvements.

"Shoulder rumble strips should not be used for the sole purpose of improving safety for bicyclists; their presence is more likely to create a hazard for bicyclists."

Transverse strip "Where state or federal funds are being used for the installation, a rumble free shoulder and passage shall be provided as specified above." "If a paved shoulder is not present, the passage width should be 3 feet from the right edge of the paved roadway. Where state or federal funds are being used for the installation, this 3' passage shall be provided."

#### **B.1.4 | Wisconsin Department of Transportation Guide for Path/Street Crossings (2011)**

This document prepared by WisDOT identifies and clarifies intersection right-of-way rules at the intersection of bicycle multi-use paths with streets and highways. The document differentiates between bicyclists using a mid-block crossing and those using a crosswalk at a traditional intersection. Generally:

- Bicyclists should obey traffic controls as they encounter them on the path, and proceed through crossings in a manner that is consistent with the safe use of the crosswalk by pedestrians.
- Drivers must yield to pedestrians and bicyclists in the crosswalk, and do everything they can to keep from hitting a pedestrian or bicyclists even if they have failed to meet their obligations.

#### **B.1.5 | Bicycle Crash Analysis for Wisconsin Using a Crash Typing Tool (PBCAT) and Geographic Information System (GIS) (2006)**

This document is based on a WisDOT research project which discusses the method and results of evaluating the relationship between road and intersection conditions and incidences of bicycle crashes. The results are used to support safety improvements and countermeasure design for inclusion in future plans and projects. Key findings include:

- Reported crashes between bicyclists and motorists in the State of Wisconsin have continued to decrease annually since the 1998 State Bicycle Transportation Plan was adopted.
- Four of the top five crash types most frequently reported indicated that the motorist made the critical error that contributed to the crash.
- There were far more reported urban crashes than rural crashes (94% compared 6%).
- The majority of reported crashes occurred at intersections (66% compared to 34%).
- There was a high frequency of reported sidewalk/crosswalk-type crashes (28% of all crashes).
- Reported crash rates were lower on wider roadways for both local roads and state highways.
- While urban streets had a much higher crash rate, rural highways had a much higher rate of fatalities.

#### **B.1.6 | Wisconsin Bicycle Planning Guidance (2003)**

This document is a reference for Metropolitan Planning Organizations (MPOs) responsible for planning in urbanized areas of Wisconsin. It discusses the importance of bicycling for transportation and outlines and describes the bicycle planning process and content requirements. The focus of this guide is also on the utilitarian and transportation aspects of bicycling and less on recreational uses.

#### **B.1.7 | Wisconsin Bicycle Facility Design Handbook (2004)**

This handbook is the primary source for facility design guidance in the state of Wisconsin. It discusses the operating characteristics and needs of bicyclists, and presents the wide range of design options for enhancing a

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

community's bicycle transportation system. The guide covers basic roadway improvements for shared streets, details for on-street bicycle lanes, and the design of shared use paths. Shared Lane Markings (SLMs), introduced into the 2009 edition of the FHWA Manual on Uniform Traffic Control Devices and in common use around the country, are not included in this guide.

### **B.1.8 | Wisconsin Guide to Pedestrian Best Practices (2010)**

The Wisconsin Guide to Pedestrian Best Practices provides detailed design, planning and program information for improving all aspects of the pedestrian environment. The guide serves as a companion document to the Wisconsin Pedestrian Policy Plan 2020 to assist in the implementation of the goals, objectives and actions of the plan and serve as a reference or guidebook for state and local officials.

## **B.2 | Regional and County Documents**

### **B.2.1 | Milwaukee County Trails Plan (2007)**

This plan was born out of the 2005 formation of the Milwaukee County Trails Council – an advisory committee to the Department of Parks, Recreation and Culture for long-term planning of Milwaukee County's trail system. The plan describes the existing trail inventory within Milwaukee County, outlines the County's responsibilities and mission in providing, maintaining and creating trails, and makes recommendations as to how best to increase and maintain the overall system. The 2007 inventory of trails included over 30 miles of designated, mapped trails and hundreds more that were not officially mapped. Approximately 55 miles of these trails are paved, while the remainder is comprised of "soft" surfaces. Comprised of parks, parkways and urban waterways, the County has numerous opportunities to expand the existing trail network.

Goals include:

- Develop a comprehensive, high-quality transportation and recreation trail system in Milwaukee County
- Evaluate existing and potential corridors
- Expand funding and partnering opportunities to improve trail development and maintenance
- Promote public awareness, support and enjoyment of trails, facilities and opportunities

Of significance to Wauwatosa is the following Proposed Trail Corridor from the plan:

#### *19. The North Menomonee River Valley Connections*

*The connection corridor consists of an area from 68th St. east to 41st St. along the Menomonee River. This corridor is being studied for possible bicycle and pedestrian connections across the Menomonee River and the active Canadian Pacific Railway. The Milwaukee Metropolitan Sewage District (MMSD) has a new Flood Management for Western Milwaukee plan. From details reported by Milwaukee's Department of Community Development and Bicycle and Pedestrian coordinator, MMSD will be purchasing all land between the railroad tracks and the Menomonee River from N 60th St. to the active north/south running railroad tracks (about 42nd St.). With the addition of this land becoming a greenway, the City of Milwaukee should work with MMSD to develop trails and connections across the railroad tracks and river.*

Currently, there is a gap in the paved shared use path portion of the Oak Leaf Trail; one section terminates near the intersection of West Wells and North 53<sup>rd</sup> Street and the other begins in Hart Park. The West Honey Creek Parkway is currently used as on-street connection. Completing the proposed trail connection mentioned above would allow the trail to be located entirely off-road. Similar to the parkway upstream of Swan, there are pinch

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

**DRAFT 1/27/2014**

points and aesthetic considerations that limit the feasibility of this proposal. Also requiring consideration is the fact that part of the land required for such a trail is owned by the City of Milwaukee (between 60th and Hawley).

### **B.2.2 | Planning Connections – Milwaukee County Grounds Trail Plan (2011)**

Commonly referred to as the 'County Grounds', this large, natural undeveloped open space in the heart of Wauwatosa's urban area presents a significant opportunity to both highlight its unique natural attributes and to provide alternative multi-modal transportation and recreation routes. This 245-acre parcel is being developed and will soon be home to the University of Wisconsin – Milwaukee's Innovation Campus, a state of the art engineering campus. New street infrastructure, stormwater facilities and residential housing are all planned as part of the development.

The Milwaukee County Grounds Trails Plan effort was undertaken to ensure that multi-modal connections and accommodations be a significant part of the campus development. The plan utilized several charrettes to gather public input, comment and guidance for the recommendations. Several themes emerged from the process – themes that were identified as integral to the stewardship of the County Grounds. The following themes are relevant to the City of Wauwatosa Bicycle and Pedestrian Facilities Plan.

#### 11. Connections and Safety

This theme emerged as the most important to participants. Providing strong, safe bicycle and pedestrian connections between downtown Wauwatosa, adjacent institutions and the surrounding neighborhoods is paramount.

#### 12. Overpass/Underpass

Two primary connections were identified. The first was a bike/ped bridge over Watertown Plank Road and the second was a new or improved connection over the rail line between Hoyt Park and the existing MMSD trail.

#### 13. Trail Design

Environmental sensitivity in trail design is necessary to support the other intended uses for the site. Trails should be constructed using natural or soft surfaces and follow existing desire lines to the greatest extent possible. Additionally, linkages to the surrounding land uses should be installed simultaneously, when new construction or reconstruction is scheduled.

#### 14. Trail Amenities

Wayfinding signage is recommended, with clearly defined destinations and mileage markers.

Four priority connection projects were identified:

- Construction of a bike/ped bridge over Watertown Plank Road
- Swan Boulevard pedestrian crossing
- Lookout point and access
- Wildlife/bike/pedestrian underpass at Swan Boulevard

### **B.2.3 | A Park and Open Space Plan for Milwaukee County (1991)**

This plan lays out the roadmap for Milwaukee County parkland development and acquisition. The plan is now over 20 years old and many of the proposed trail development projects have been constructed. The guiding principles of the plan remain the same – to provide County residents with multiple options and locations for recreation. The following table outlines existing facilities and proposed facilities (1991) for trail development in the County Parks system.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Table 21: Recreation corridors and other bike routes in Milwaukee County

RECREATION CORRIDORS AND OTHER BIKE ROUTES IN MILWAUKEE COUNTY

| Recreation Corridor or Bike Route Segment | Total Length (miles) | Existing Trail Development (miles)      |                           |                             |  |           | Proposed Trail Development              |                               |                  |                        |
|---|----------------------|---|---------------------------|-----------------------------|--|-----------|---|-------------------------------|------------------|------------------------|
|   |                      | Within Public Park and Open Space Sites |                           | On Public Road Right-of-Way | Former Railroad Right-of-Way in Public Ownership | Subtotal  | Within Public Park and Open Space Sites |                               |                  |                        |
|   |                      | On Park Lands                           | On Park and Parkway Roads |                             |  |           | Within Existing Sites (miles)           | Within Proposed Sites (miles) | Subtotal (miles) | Development Cost       |
| <b>Recreation Corridor Trails</b>         |                      |   |                           |                             |  |           |   |                               |                  |                        |
| Lake Michigan                             | 24                   | 13 <sup>a</sup>                         | 1                         | 7                           | --   | 21        | 1                                       | --                            | 1                | \$ 75,000              |
| Little Menomonee River                    | 7                    | 2                                       | 1                         | --                          | --   | 3         | 4                                       | --                            | 4                | 300,000                |
| Menomonee River                           | 8                    | 2                                       | 3                         | --                          | --   | 5         | 2                                       | --                            | 2                | 150,000                |
| Milwaukee River                           | 12                   | --                                      | 5                         | 3                           | 2  | 10        | --                                      | --                            | --               | --                     |
| Oak Creek                                 | 7                    | 1                                       | 2                         | --                          | --   | 3         | 3                                       | 1                             | 4                | 300,000                |
| Root River                                | 26                   | --                                      | 9 <sup>b</sup>            | 2                           | --   | 11        | 9                                       | 6                             | 15               | 1,325,000 <sup>c</sup> |
| Underwood Creek                           | 5                    | 2                                       | 3                         | --                          | --   | 5         | --                                      | --                            | --               | --                     |
| <b>Subtotal</b>                           | <b>89</b>            | <b>20</b>                               | <b>24</b>                 | <b>12</b>                   | <b>2</b>   | <b>58</b> | <b>19</b>                               | <b>7</b>                      | <b>26</b>        | <b>\$2,150,000</b>     |
| <b>Bike Routes</b>                        |                      |   |                           |                             |  |           |   |                               |                  |                        |
| Bradley Road                              | 2                    | --                                      | --                        | --                          | --   | --        | --                                      | --                            | --               | --                     |
| Cleveland Avenue                          | 2                    | --                                      | --                        | --                          | --   | --        | --                                      | --                            | --               | --                     |
| Drexel Avenue                             | 9                    | --                                      | --                        | 9                           | --   | 9         | --                                      | --                            | --               | --                     |
| Good Hope/Bradley Roads                   | 6                    | 1                                       | --                        | 5                           | --   | 6         | --                                      | --                            | --               | --                     |
| Lincoln Creek Parkway                     | 2                    | 1                                       | 1                         | --                          | --   | 2         | --                                      | --                            | --               | --                     |
| Menomonee Valley                          | 7                    | --                                      | --                        | --                          | --   | --        | --                                      | --                            | --               | --                     |
| 76 East-West                              | 14                   | 1                                       | 7                         | 6                           | --   | 14        | --                                      | --                            | --               | --                     |
| <b>Subtotal</b>                           | <b>42</b>            | <b>3</b>                                | <b>8</b>                  | <b>20</b>                   | <b>--</b>  | <b>31</b> | <b>--</b>                               | <b>--</b>                     | <b>--</b>        | <b>--</b>              |
| <b>Total</b>                              | <b>131</b>           | <b>23</b>                               | <b>32</b>                 | <b>32</b>                   | <b>2</b>   | <b>89</b> | <b>19</b>                               | <b>7</b>                      | <b>26</b>        | <b>\$2,150,000</b>     |

| Recreation Corridor or Bike Route Segment | Proposed Trail Development |                  |                             |                    |                |                    | Typical Trail Facilities                                       |
|---|----------------------------|------------------|-----------------------------|--------------------|----------------|--------------------|--|
|   | On WEPCo Right-of-Way      |                  | On Public Road Right-of-Way |                    | Subtotal       |                    |  |
|   | Length (miles)             | Development Cost | Length (miles)              | Development Cost   | Length (miles) | Development Cost   |  |
| <b>Recreation Corridor Trails</b>         |                            |                  |                             |                    |                |                    |  |
| Lake Michigan                             | 1                          | \$50,000         | 1                           | \$2,000,000        | 3              | \$2,125,000        | Bicycling, hiking  |
| Little Menomonee River                    | --                         | --               | --                          | --                 | 4              | 300,000            | Bicycling, hiking, nature study, ski touring                   |
| Menomonee River                           | --                         | --               | 1                           | 1,000              | 3              | 151,000            | Bicycling, hiking, nature study, ski touring                   |
| Milwaukee River                           | --                         | --               | 2                           | 2,000 <sup>d</sup> | 2              | 2,000              | Bicycling, hiking  |
| Oak Creek                                 | --                         | --               | --                          | --                 | 4              | 300,000            | Bicycling, hiking  |
| Root River                                | --                         | --               | --                          | --                 | 15             | 1,325,000          | Bicycling, hiking, horseback riding, nature study, ski touring |
| Underwood Creek                           | --                         | --               | --                          | --                 | --             | --                 | Bicycling, hiking  |
| <b>Subtotal</b>                           | <b>1</b>                   | <b>\$50,000</b>  | <b>4</b>                    | <b>\$2,003,000</b> | <b>31</b>      | <b>\$4,203,000</b> | <b>--</b>  |
| <b>Bike Routes</b>                        |                            |                  |                             |                    |                |                    |  |
| Bradley Road                              | --                         | --               | 2                           | \$ 2,000           | 2              | \$ 2,000           | Bicycling  |
| Cleveland Avenue                          | --                         | --               | 2                           | 2,000              | 2              | 2,000              | Bicycling  |
| Drexel Avenue                             | --                         | --               | --                          | --                 | --             | --                 | Bicycling  |
| Good Hope/Bradley Roads                   | --                         | --               | --                          | --                 | --             | --                 | Bicycling  |
| Lincoln Creek Parkway                     | --                         | --               | --                          | --                 | --             | --                 | Bicycling  |
| Menomonee Valley                          | --                         | --               | 7                           | 7,000              | 7              | 7,000              | Bicycling  |
| 76 East-West                              | --                         | --               | --                          | --                 | --             | --                 | Bicycling  |
| <b>Subtotal</b>                           | <b>--</b>                  | <b>--</b>        | <b>11</b>                   | <b>\$ 11,000</b>   | <b>11</b>      | <b>\$ 11,000</b>   | <b>--</b>  |
| <b>Total</b>                              | <b>1</b>                   | <b>\$50,000</b>  | <b>15</b>                   | <b>\$2,014,000</b> | <b>42</b>      | <b>\$4,214,000</b> | <b>--</b>  |

<sup>a</sup>Includes the four-mile Lake Park Loop.

<sup>b</sup>Includes the two-mile Whitnall Park Loop.

<sup>c</sup>Includes the costs associated with the provision of a 40-site family campground facility, estimated at \$200,000, along the Root River recreation corridor in the City of Franklin.

<sup>d</sup>Consists of the development costs for the Hoan Bridge bike trail.

Source: SEWRPC.

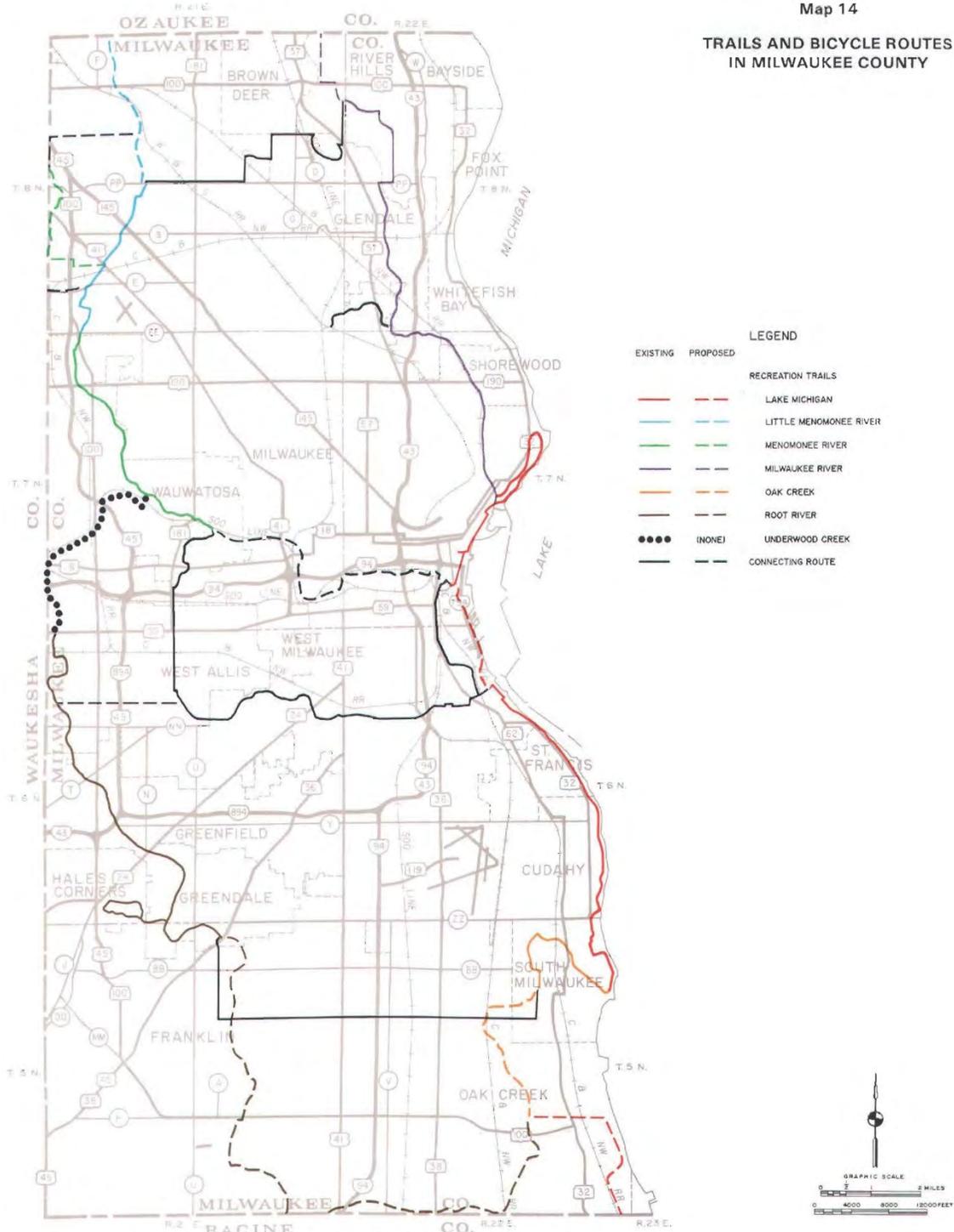
Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

The trails map in Figure 4 illustrates the beginnings of the now extensive trail system located in Milwaukee County.

Figure 10: Trails and bicycle routes in Milwaukee County



## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

The following guideline for design of the Parks plan relates directly to access to trails.

*Recreation corridors providing trail facilities should be well-distributed throughout the County and should provide opportunities for a wide range of trail-oriented activities, including biking, hiking, horseback riding, nature study, running, jogging, and cross-country skiing.*

Additional recommendations included plans for the Menomonee River Parkway:

*The Menomonee River Parkway is located along the main stem of the Menomonee River in the City of Milwaukee and Wauwatosa in western Milwaukee County. County-owned lands in the Parkway in 1990 encompassed 640 acres, and existing Milwaukee County parks located along the Parkway include Currie Park, Doyne Park, and Jacobus Park. Under the plan, it is recommended that the County acquire, at an estimated cost of \$5,000, about seven acres of primary environmental corridor land, including about two acres of floodlands, along the Menomonee River for flood control, resource preservation, and other parkway purposes. It is also recommended that the Menomonee River parkway serve as the location for a variety of resource-oriented outdoor recreational facilities, including trail facilities for bicycling, hiking, running, nature study, and ski touring within the recommended Menomonee River recreation corridor; river access, picnic areas, and areas for passive recreational pursuits; and support facilities such as parking lots and restrooms. The cost of providing such facilities has been included in the development costs for the Menomonee River recreation corridor set forth in the preceding section of this chapter.*

### **B.2.4 | SEWRPC Planning Report 49: A Regional Transportation System Plan for Southeastern Wisconsin: 2035 (2006)**

A *Regional Transportation System Plan for Southeastern Wisconsin: 2035* is the fifth-generation regional transportation plan produced by the Southeastern Wisconsin Regional Planning Commission (SEWRPC), the regional planning agency for Southeastern Wisconsin. The bicycle and pedestrian facilities element of the plan was “designed to provide for safe accommodation of bicycle and pedestrian travel, encourage bicycle and pedestrian travel, and to provide modal choice.” The plan identifies 633 miles of existing on-street bikeways (paved shoulders, bicycle lanes and sidepaths) and 203 miles of regional off-street shared use paths.

The plan specifically calls for the accommodation of bicycles on all arterial streets and highways (except freeways) upon construction, reconstruction or resurfacing (on rural cross-sections). Accommodation should be provided through bicycle lanes, wide outside lanes, paved shoulders or, under certain circumstances, a paved sidepath. The plan also calls for providing a regional system of off-street shared use paths in accordance with the recommendations of the park and open space plan for each county in the region; these paths would total 575 miles.

Sidewalks should be provided according to the following recommendations:

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 22: Recommendations for provision of sidewalks

| Classification      | Land Use                            | New Streets       | Existing Streets  |
|---------------------|-------------------------------------|-------------------|-------------------|
| Arterial Streets    | Industrial                          | Both Sides        | Both Sides        |
|                     | Commercial                          | Both Sides        | Both Sides        |
|                     | Residential                         | Both Sides        | Both Sides        |
| Collector Streets   | Industrial                          | Both Sides        | Both Sides        |
|                     | Commercial                          | Both Sides        | Both Sides        |
|                     | Residential                         | Both Sides        | Both Sides        |
| Land Access Streets | Industrial                          | Both Sides        | Both Sides        |
|                     | Commercial                          | Both Sides        | Both Sides        |
|                     | Residential (Medium & High Density) | Both Sides        | At least one side |
|                     | Residential (Low Density)           | At least one side | At least one side |

**Additional Notes:**

- Sidewalks may be omitted on one side of streets where there are no existing or anticipated uses that would generate pedestrian trips on that side.
- Where there are marginal access control or service roads, the sidewalk along the main road may be eliminated and replaced by a sidewalk along the service road on the side away from the main road.
- Sidewalks need not be provided along court and cul-de-sac streets less than 600 feet in length, unless such streets serve multi-family development; or along streets served by parallel off-street walkways.
- In low density residential cluster developments, sidewalks could be replaced by perimeter and internal pathway systems

Additional recommendations call for all transit stations being readily accessible by bicyclists and pedestrians, providing secure bicycle parking at all park-ride lots and where off-street parking is provided, providing bicycle parking at the entrance to buildings, and consideration of providing bicycle transport on transit vehicles.

### B.3 | Local Planning Documents

The following are local planning documents that relate to the Bicycle and Pedestrian Facilities Plan.

- The Village of Wauwatosa – A Strategic Development Plan (2011)
- East Tosa North Avenue (2011)
- City of Wauwatosa Comprehensive Plan 2008-2030
- City of Wauwatosa Municipal Code

#### B.3.1 | The Village of Wauwatosa Strategic Development Plan

The Strategic Development Plan has several goals that relate to biking and walking in Wauwatosa. Among them are:

- Help customers find their way to and around the district, and to its businesses and its support facilities
- Wayfinding to counteract the regional street pattern that currently exists
- Create an attractive streetscape along State Street
- Street design and streetscape should recognize the need to combine pedestrian and motorized environments comfortably for all users
- Improve the District's comfort and safety for pedestrians and bicyclists
- Several difficult intersections for pedestrians to navigate
- Core street pattern and grades are not pedestrian friendly
- Commercial facilities lack pedestrian links to sidewalks and bus stops
- Support facilities for bicyclists are lacking

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

- Connect Hart Park to the village business corridor
- Railroad lines separate the park from the core Village
- Pedestrians currently cross illegally and without a protected crossing
- Improve village traffic circulation and access to areas separated from the core
- One way street patterns limit access
- Increase the residential population in and around the village
- Continued residential development will increase the biking and walking population

Recommendations of the plan are divided into a geographic framework, policy focuses and policy directives. For the intents and purposes of the bike/ped plan, only the geographic framework will be referenced.

Recommendations are divided by geographical sub-area and are as follows:

- The Village Center
- Village South
- State Street
- Hart Park
- The Reef
- River Drive

### *Village Center*

- Improve the critical intersection of State and Harwood
- Improve access to and parking for businesses along Harwood between State and Wauwatosa
- Provide a safe, direct connection between Hart Park and the Village Center

### *Village South*

- Improve the intersections of Harmonee and Harwood/Watertown Plank Road
- Strengthen the pedestrian character of Harwood between Harmonee Avenue and the pedestrian bridge

### *State Street*

- Provide a safe, direct connection between Hart Park, the Village Center and State Street businesses
- Create a sidewalk streetscape consistent with the scale of the commercial and residential environment
- Establish a street section that accommodates various user needs
- Provide attractive, easily negotiable intersections at all key intersections
- Connect commercial destinations with State Street sidewalks

### *Hart Park*

- Connect park and Oak Leaf Trail to the proposed 74th Street railroad and street crossing
- Define a pedestrian path along the parking lot parallel to the railroad

### *The Reef*

- Provide a pedestrian/bicycle pathway connecting this residential area to community commercial development at 68th Street
- Develop a traffic pattern that insulates neighborhoods to the north from unwanted traffic

### *River Drive*

- Provide connections to parks and open space resources in the area

### B.3.2 | East Tosa North Avenue (2011)

This plan addresses North Avenue – an east-west corridor that serves as the heart of the community. The 16-block linear district is home to a wide variety of businesses supported by strong connections to the surrounding residential neighborhoods. The plan was a result of the idea that the street and its business district were not reaching the full potential of the vision established by the North Avenue Neighborhood Alliance:

*East Tosa is a progressive, walkable, urban community offering niche shopping and dining experiences interconnecting with vibrant, established neighborhoods.*

Current conditions for pedestrians and cyclists present some confusion and ambiguity. The North Avenue bike lane is not continuous and pedestrians are reluctant to cross the street except at the only signalized intersection at 68<sup>th</sup> Street. Recommendations for improvements to the pedestrian and bicycle environment include:

- Modifying traffic flow to create gaps
- Changing the street section
- Accommodating alternative transportation
- Reconstructing sidewalks for maintenance and accessibility
- Continuous bike lanes
- Modified Wauwatosa and North intersection to reduce pedestrian crossing distances and reduce the scale of the intersection
- Defined crosswalks, using asphalt street printing or stamped/concrete colored surface

### B.3.3 | City of Wauwatosa Comprehensive Plan 2008-2030

Emerging strongly from the planning process was the goal of enhancing bicycle and pedestrian connections and improving bicycle and pedestrian safety. Residents identified the walkability and bikeability of Wauwatosa as community assets and strengthening these assets is a top priority of the comprehensive plan.

Consultants conducted an extensive walkability analysis using four variables:

1. Sidewalk and Trail density
2. Population Density
3. Concentration of Jobs
4. Diversity of Key Pedestrian Destinations

The Comprehensive Plan Transportation goal is as follows:

*Provide a safe and efficient transportation system that meets the needs of multiple users in and around the City, supports economic growth, facilitates biking and walking, and emphasizes the value of public transit.*

Objectives related specifically to biking and walking are:

1. Maintain an interconnected road, pedestrian and bike network.
2. Encourage development designs, land use patterns, and development densities/intensities that support and complement a range of transportation options, including walking, biking, and various forms of public transit (e.g. bus rapid transit and commuter rail).

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

3. Ensure safe, efficient, and well maintained neighborhood streets.

Related policies include:

1. Take advantage of road upgrades and improvements to establish bike paths and routes on local streets throughout the City to connect neighborhoods with schools, parks, jobs, and shopping.
2. Consider mapping bike paths, road extensions, and other transportation improvements on an Official Map, where appropriate.
3. Work with Milwaukee County and private providers to continue and expand transportation options to those who require them, such as the elderly, disabled, and children.
4. Expand the existing trail network, and work with the county, state, and surrounding communities to interconnect regional trails and bike routes.
5. Support installation of traffic calming devices along key corridors such as North Avenue and State Street.

Recommendations to support the objectives and policies include:

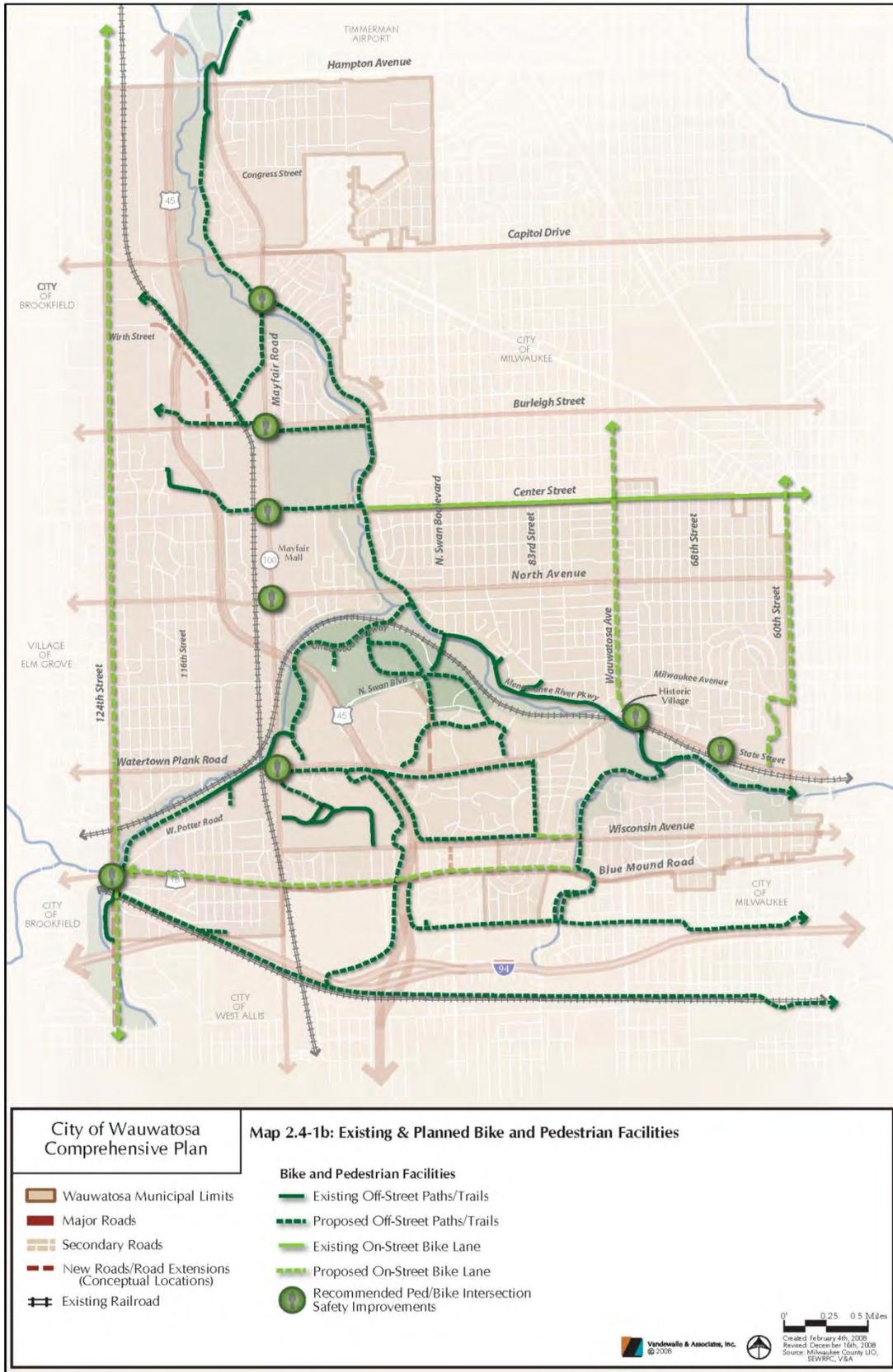
1. Continue to make upgrades to existing city roadways
2. Focus on alleviating traffic congestion
3. Enhance the walkability and bikeability of Wauwatosa
  - a. Require future development to be designed for pedestrians
  - b. Support the development of "Complete Neighborhoods"
  - c. Support the development of "Complete Streets"
  - d. Recognize the Menomonee River Parkway as an Important Transportation Corridor
  - e. Safety Features and Enhancement
  - f. Install pedestrian oriented wayfinding signage, maps and interpretive signage
  - g. Consider holding a "Sunday Parkways" event
  - h. Connect to regional trails
  - i. Utilize Safe Routes to School funds
  - j. Apply for Bicycle Friendly Community (BFC) status

The map on the following page depicts the existing and plan bicycle and pedestrian facilities of the Comprehensive Plan.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

Figure 11: Existing & Planned Bike and Pedestrian Facilities



Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

### B.3.4 | City of Wauwatosa Municipal Code

The following are policies extracted from the Wauwatosa Municipal Code. They specifically relate to bicycle and pedestrian issues within the City. Where needed, commentary has been added in *red italic type*. According to state law, local authorities may adopt traffic regulations in strict conformity with state law. For subjects addressed by state law, local authorities may not adopt regulations that are stricter or substantially different from the state law.

#### *Chapter 11.20 Pedestrians*

##### *11.20.010 - Right-of-way on crosswalks.*

The operator of any vehicle shall yield the right-of-way to a pedestrian crossing the street within any marked or unmarked crosswalk at an intersection except at those intersections where the movement of traffic is being regulated by traffic officers or traffic control signals.

##### *11.20.020 - Rights and duties at controlled intersection.*

At intersections where traffic is controlled by traffic control signals or by traffic officers operators of vehicles shall yield the right-of-way to pedestrians crossing or those who have started to cross the street on a green or "GO" signal and in all other cases pedestrians shall yield the right-of-way to vehicles lawfully proceeding directly ahead on a green or "GO" signal.

##### *11.20.030 - Right-of-way on divided streets.*

Upon the intersections of divided streets, the pedestrian shall have right-of-way only on that portion of the street between the street limits and the center of the street.

##### *11.20.040 - Right-of-way forfeited when jay walking.*

Every pedestrian crossing street at any point other than a marked or unmarked crosswalk shall yield the right-of-way to vehicles upon the street.

##### *11.20.050 - Right-of-way on sidewalks.*

Pedestrians upon any sidewalk shall have the right-of-way over all vehicles crossing such sidewalk.

##### *11.20.060 - Walking on left side of street required.*

Pedestrians using those streets not provided with sidewalks shall travel on and along the left side of such street and the pedestrian, upon meeting a vehicle shall, if applicable, step off the traveled roadway.

#### *Pedestrians on Roadway.*

Pedestrians on North 112th Street between West ~~Bluemound~~Blue Mound Road and West Potter Road shall walk on and along the pedestrian walk areas on the east and the west sides of North 112th Street designated by white stripes. Pedestrians on West Potter Road from North 115th Street to N. 112th Street shall walk on and along the pedestrian walk areas on the south side of West Potter Road from North 115th Street to North 112th Street and on the north side of West Potter Road from North 115th Street to North 113th Street all designated by white stripes.

##### *11.20.070 - Soliciting rides unlawful.*

It is unlawful for any person to be in the roadway for the purpose of soliciting a ride from the operator of any private vehicle.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

*11.20.080 - Alighting from or boarding moving streetcars or vehicles prohibited.*

It is unlawful for any person to alight from or board any streetcar or vehicle when such streetcar or vehicle is in motion.

*11.20.090 - Standing or loitering on roadway prohibited.*

No person shall stand or loiter on any roadway other than in a safety zone if such act interferes with the lawful movement of traffic.

*Chapter 11.48 – Bicycles**11.48.010 - Definitions pertaining to bicycles.*

1. "Bicycle" means every device propelled by the feet acting upon pedals and having wheels any two of which are not less than fourteen inches in diameter.
2. "Bicycle lane" means that portion of a roadway set aside by the governing body of the city or county for the exclusive use of bicycles or other modes of travel where permitted under Wisconsin Statutes Section 349.23(2) (a) and so designated by appropriate signs and markings.
3. "Bike route" means any bicycle lane, bicycle way or highway which has been duly designated by the governing body of the city or county and which is identified by appropriate signs and markings.
4. "Bicycle way" means any path or sidewalk or portion thereof designated for the use of bicycles by the governing body of the city or county.

*11.48.20 - Riding regulations—Use of child's seat.*

1. It is unlawful for any person to ride or propel a bicycle upon any street or alley in the city of Wauwatosa, except in a careful and prudent manner and with a firm grip on the handle bars at all times to insure perfect control, nor is it lawful for any person who propels or operates a bicycle upon any street or alley in the city of Wauwatosa to carry or permit to be carried any other person upon such bicycle except a bicycle built for the operation of two or more passengers and having two or more sets of pedals.
2. It is unlawful to operate a bicycle equipped with a child seat unless the following regulations are observed:
  - a. The operator shall be eighteen years of age or older;
  - b. The passenger shall be under the age of seven years and seated on the child's seat;
  - c. The child's seat shall be fastened securely to the bicycle and shall be located behind the operator's seat, shall be so designed and manufactured for this specific purpose and be equipped with safety belt, arm rests, back rest, foot and spoke protector; *This item may be inconsistent with state law which only requires that child seats shall be used according to the manufacturer's directions.*
  - d. A child's seat may be used only after it has been inspected by the police department and found to comply with the provisions of this chapter; *This item is problematic as it requires compliance with a statute that may be inconsistent with state law. Additionally, this statute places an undue burden on bicycle users with children. Police officers should inspect child seats to ensure they are being used according to the manufacturer's design and directions.*
  - e. A bicycle equipped with a child's seat shall be operated only during the hours of daylight when such seat is occupied. *This item is problematic in that it limits the transportation and recreation choices available to bicycle users with children.*

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

*11.48.030 - Attaching to vehicle prohibited.*

No person riding a bicycle shall attach himself or his bicycle to any vehicle upon a roadway.

*11.48.040 - Riding two abreast.*

Persons riding bicycles upon a roadway shall ride single file on all roadways which have centerlines or lane lines indicated by painting or other markings. On roadways not divided by painted or other marked centerlines or lane lines, bicycle operators may ride two abreast. *This is inconsistent with state law which allows riding two abreast "if such operation does not impede the normal and reasonable movement of traffic" (§346.80(3)(a)).*

*11.48.050 - Required lights and braking devices.*

1. No person may operate a bicycle upon a highway, bicycle lane or bicycle way during hours of darkness unless such bicycle is equipped with or the operator is wearing a lamp emitting a white light visible from a distance of at least five hundred feet to the front of such bicycle. Such bicycle shall also be equipped with a red reflector that has a diameter of at least two inches of surface area on the rear so mounted and maintained as to be visible from all distances from fifty to five hundred feet to the rear when directly in front of lawful upper beams of headlamps on a motor vehicle, A lamp emitting a red light visible from a distance of five hundred feet to the rear may be used in addition to but not in lieu of the red reflector.
2. No person may operate a bicycle upon a highway, bicycle lane or bicycle way unless it is equipped with a brake in good working condition, adequate to control the movement of and to stop the bicycle whenever necessary.

*11.48.060 - Warning device required.*

All persons operating bicycles on the streets of the city of Wauwatosa shall be required to have an effective audible warning device affixed to the handle bars or frame of the bicycle. *This may be inconsistent with state law that specifies required equipment for bicycles, and does not include an "audible warning device."*

*11.48.070 - Riding on sidewalks prohibited.*

It is unlawful for any person to ride a bicycle which has a wheel diameter of twenty-four inches or more upon the sidewalks in any portion of the city of Wauwatosa.

*11.48.080 - Observance of traffic rules required.*

Any person riding or operating a bicycle upon any street within the limits of the city of Wauwatosa shall observe all traffic rules and regulations.

*11.48.090 - Registration required.*

It is unlawful for anyone to ride a bicycle in the city of Wauwatosa unless it is legally registered in Wauwatosa or in some other place or unless it is owned in a place not having a provision for registration, as provided in this chapter.

*11.48.100 - Registration—Procedure—Fee—Identification tag.*

The owner of a bicycle shall register with the police department his or her name and address and a complete description of the bicycle on forms issued by the department, and shall do likewise thereafter prior to the expiration of such license. The registrations shall be numbered and kept by the department as a public record. Upon each registration there shall be issued a license which shall entitle the licensee and persons authorized by the licensee to operate the bicycle in the city until such license expires. Simultaneously upon the issuance of the

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

license there shall be issued an identification license plate to be fastened to the bicycle. Each license shall, together with a serial number identical with the registration number, show a non-expiring period for its validity.

*11.48.110 - Registration—Identification tag to remain permanently on bicycle.*

License tags shall be affixed securely to the bicycle, permanently. The tags shall be placed so as to be visible by a law enforcement officer.

Wauwatosa license tags may be removed by the bicycle owner, if the owner moves out of the city, or if the bicycle is sold or transferred to another purchaser, or if the bicycle is damaged or no longer useable. Licensed bicycle owners are required to notify the police department if they no longer live in Wauwatosa or have sold or junked their bicycle.

*11.48.120 - Denial of registration—Condition of bicycle.*

No bicycle shall be registered unless it is in a safe mechanical condition. The police department may inspect bicycles and deny registration if they are found to be mechanically unsafe.

*11.48.130 - Registration—Identification tag—Mutilation unlawful.*

No person shall willfully or maliciously remove, destroy or mutilate any identification tag.

*11.48.140 - Transfer of registration prohibited.*

The transfer of registration is strictly prohibited.

*11.48.160 - Dealers—Report of sale or purchase of used bicycle.*

Every person, firm, or corporation engaged in the business of buying, selling, exchanging, or trading in new or used bicycles shall, within forty-eight hours thereof, report the sale or purchase of any used bicycle or bicycle equipment, fully describing the same on forms furnished by the police department.

*11.48.170 - Penalty for violations.*

1. Any person over the age of sixteen violating any of the provisions of this chapter shall be subject to the general penalty provisions of this code.
2. Any juvenile violating the provisions of this chapter shall be subject to the penalty provided for under [Section 11.48.180](#)

*11.48.180 - Bicycle clinic for violators.*

1. It is the declared purpose of this section to encourage the knowledge and practice of bicycle safety and the rules of the road as applied to bicycles. Further, it is recognized that it is the primary responsibility of each parent or custodian of a juvenile to assure that a child under their care has been properly instructed and informed as to the rules of the road and bicycle safety and that a failure of a child to comply with the rules of the road or bicycle safety requirements demonstrates that a parent or custodian has failed to properly oversee and encourage the knowledge and practice of bicycle safety and rules of the road as applied to bicycles.
2. The police chief is authorized to schedule and present bicycle clinics designed to encourage a knowledge of the rules of the road pertaining to bicycles, bicycle safety and other information pertaining to bicycle use.

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

3. As an alternative to the penalty provided for in [Section 11.48.170](#), a police officer may order a juvenile bicyclist who has violated any of the provisions of this chapter to attend a bicycle clinic conducted by the Wauwatosa police department. The attendance of a juvenile so ordered to attend a bicycle clinic under this section shall be the responsibility of the parent or custodian of such juvenile.
4. The chief of police or his designated representative may grant an adjournment to the ordered attendance at a bicycle clinic if in his discretion sufficient cause is shown.
5. Failure of a parent or custodian to have the juvenile attend such clinic after having been notified of the order constitutes a violation of this section and subjects each parent or custodian to the general penalty provisions of this code

### *Chapter 12.24.010 – Removal of Snow and Ice*

The owner, occupant, or person in charge of each and every building or property in the city of Wauwatosa fronting upon or adjoining any street, and the owner or person in charge of any unoccupied building or lot fronting upon or adjoining any city street, the public sidewalk and the adjoining crosswalk by twelve noon of the day following any snowfall or accumulation of ice and shall cause the same to be kept clear from snow and ice. Crosswalks are to be cleared to the plowed area of the street. When ice is formed on any sidewalk or crosswalk and it cannot be removed, the owner, occupant, or person in charge of the adjacent property shall keep the sidewalk and crosswalk sprinkled with calcium chloride, sodium chloride, other acceptable deicing materials or sand. Where snow continues to fall for some time, it shall be removed immediately after the snowfall ends.

### *12.24.040 - Removal of snow, ice, mud, dirt and rubbish from sidewalks—Enforcement.*

The provisions of Sections [12.24.010](#) to [12.24.050](#) shall be enforced by the police department of the city of Wauwatosa.

### *Chapter 17.04 – Subdivision regulations*

#### *17.04.090 - Other requirements*

The subdivider shall install such other improvements and facilities as shall be determined by the common council, including but not limited to the following: concrete pavement or concrete sidewalks, permanent storm sewers, catch basins and appurtenances, storm sewer laterals, and landscaping.

### *Chapter 24 - Zoning*

#### *24.11.080 – Pedestrian Standards*

This section of the Municipal Code provides standards for bicycle parking. Short-term bicycle parking is required at the levels shown in Table 16.

Table 23: Required short-term bicycle parking spaces

| Use                              | Short-term Bicycle Parking Spaces Required     |
|----------------------------------|--|
| Multi-unit Residential           | 1 space per 5 dwelling units; 1 space minimum  |
| Multi-unit Residential (elderly) | 1 space per 20 dwelling units; 1 space minimum |
| Commercial, Public and Civic     | 1 per 10 motor vehicle spaces; 1 space minimum |
| Industrial                       | 1 per 10 motor vehicle spaces; 1 space minimum |

## City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

The section also provides general guidance for the design and dimensions of appropriate bicycle parking racks and spaces. The section includes a description of long-term bicycle parking, but does not include any requirements for such parking.

### 24.14.030 – Pedestrian Standards

This section of the Municipal Code provides standards for pedestrian connections to new development. In summary, the section requires all new commercial, mixed-use and multi-unit residential development to connect the entrance of the building to the street and to at least one adjacent property. The section does not include any requirements for pedestrian facilities for single-unit residential development.

## B.4 | Recommendations

The following recommendations are provided to update the City of Wauwatosa Municipal Code. The recommendations will be included as recommendations in the final Bicycle and Pedestrian Facilities Plan.

### B.4.1 | General Recommendations

- The City Attorney should review all statutes relating to bicycling for strict compliance with state law. Those that are not in strict compliance should be updated or eliminated. Alternatively, the City should consider eliminating all statutes relating to the operation of bicycles and the equipment required on bicycles. State law currently regulates the operation of bicycles and any local regulations must be in strict compliance with state law (Wisconsin state statute 349.06). Because of the requirement of strict compliance, local bicycle regulations will simply reiterate state law, which is unnecessary.

### B.4.2 | Bicycle Recommendations

- Eliminate 11.48.20(2) which regulates the use of child seats on bicycles. State law provides guidance for the use of child seats, and some of the provisions of this statute are in conflict with state law.
- Eliminate 11.48.040 which regulates bicycling two abreast. The statute is inconsistent with state law.
- Eliminate 11.48.060 which requires the presence of an audible warning device on all bicycles. This statute may be inconsistent with state law.
- Consider combining the bicycle registration program described in 11.48.090 with the City of Milwaukee's bicycle registration program. Regional registration programs and databases are more likely to aid in the tracking and recovery of stolen or lost bicycles than localized programs.
- Ensure that police officers are properly trained to inspect bicycles for safety concerns as described in 11.48.120. Alternatively, the City could offer regular bicycle safety inspection events at which trained bicycle mechanics are available to inspect bicycles and provide basic safety repairs.
- Ensure that bicycle safety clinics as described in 11.48.180 are regularly offered by the department and are led by League of American Bicyclists certified instructors.

### B.4.3 | Pedestrian Recommendations

- Chapter 17.04 (Subdivision Regulations) should require the installation of sidewalks with all new development and redevelopment according to Wisconsin DOT's guidance provided in Table 1 below.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/14

Table 24: WisDOT guidelines for sidewalk placement

| Land-Use / Dwelling Unit / Functional Classification | New Urban and Suburban Streets                  | Existing Urban and Suburban Streets   |
|--|---|---|
| Commercial & Industrial (All Streets)                | Both Sides                                      | Both sides. Every effort should be made to add sidewalks where they do not exist and complete missing links |
| Residential (Arterials)                              | Both Sides                                      | Both Sides  |
| Residential (Collectors)                             | Both Sides                                      | Multifamily: Both sides<br>Single family: Prefer both sides, require at least one side                      |
| Residential (Local Road)<br>More than 4 units/acre   | Both sides                                      | Prefer both sides; Require at least one side  |
| Residential (Local Road)<br>1 – 4 units/acre         | Prefer both sides;<br>Require at least one side | One side preferred, at least 4 feet   |
| Residential (Local Road)<br>Fewer than 1 unit/acre   | One side preferred;<br>Shoulder on both sides   | At least 4 feet shoulder on both sides required   |

Notes for additional consideration:

1. Any local street within two blocks of a school site that would be on a walking route to school – sidewalk required on at least one side.
2. Sidewalks may be omitted on one side of new streets where that side clearly cannot be developed and where there are not existing or anticipated uses that would generate pedestrian trips on that side.
3. Where there are service roads, the sidewalk adjacent to the main road may be eliminated and replaced by a sidewalk adjacent to the service road on the side away from the main road
4. For rural roads not likely to serve development, a shoulder at least 4 feet in width, preferably 8 feet on primary highways, should be provided. Surface material should provide a stable, mud-free walking surface.

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

## Appendix C | Bicycle Network and Cost Estimates

## C.1 | Recommended Bicycle Network by Facility Type

The tables below provide the full bicycle network recommendations by facility type. Each facility recommendation includes a planning-level cost estimate. A detailed description of how the planning-level costs were arrived at is provided in section C.2 of this appendix.

Table 25: Recommended bike lanes

| Street                   | From                                   | To                       | Major Action   | Miles | Cost Est. |
|--------------------------|--|--------------------------|--|-------|-----------|
| Discovery Pkwy.          | N. Swan Blvd.                          | W. Watertown Plank Rd.   | Constructed with new street  | 0.59  | \$37,300  |
| Harwood Ave.             | W. Watertown Plank Rd.                 | N. Glenview Ave.         | Limit parking to one side of street  | 0.18  | \$11,400  |
| Harwood Ave.             | W. State St.                           | N. Wauwatosa Ave.        | Counterflow bike lane and shared lane markings with traffic                          | 0.10  | \$6,300   |
| Milwaukee Ave.           | N. 83rd St.                            | N. 60th St.              | Limit parking to one side of street  | 1.47  | \$92,900  |
| N. 100th St.             | W. Hampton Ave.                        | W. Keefe St.             |  | 1.56  | \$98,600  |
| N. 124th St.             | W. Hampton Ave.                        | W. Capitol St.           | Add bike lanes with reconstruction to urban cross section                            | 1.09  | \$68,900  |
| N. 124th St.             | W. Burleigh St.                        | W. North Ave.            | Restripe to include bike lanes   | 1.00  | \$63,200  |
| N. 124th St.             | W. North Ave.                          | W. Watertown Plank Rd.   | Add bike lanes with reconstruction to urban cross section                            | 1.00  | \$63,200  |
| N. 124th St.             | W. Capitol St.                         | W. Burleigh St.          | Can add buffered lanes or bike lane/right turn lane as is                            | 1.80  | \$113,800 |
| N. 60th St.              | W. Center St.                          | Milwaukee Ave.           | Limit parking to one side of street  | 1.25  | \$79,000  |
| N. 68th St.              | W. State St.                           | W. Mount Vernon Ave.     | May require parking removal on one side  | 0.85  | \$53,700  |
| N. 68th St.              | Milwaukee Ave                          | W. State St.             | Add climbing lane on east side and SLMs on west side                                 | 0.37  | \$23,400  |
| N. 92nd St.              | W. Hampton Ave.                        | W. Capitol St.           |  | 1.06  | \$67,000  |
| N. 92nd St.              | W. Watertown Plank Rd.                 | W. Wisconsin Ave.        | Convert to one travel lane each way plus center turn bays                            | 0.47  | \$29,700  |
| N. 92nd St.              | W. Michigan St.                        | W. Schlinger Ave.        | Street is in the City of Milwaukee   | 0.95  | \$60,000  |
| N. Glenview Ave          | W. <del>Bluemound</del> Blue Mound Rd. | N. Honey Creek Pkwy.     | Limit parking to one side of street; portions of street are in the City of Milwaukee | 0.49  | \$31,000  |
| N. Mayfair Rd.           | W. Hampton Ave.                        | I-94                     | Add bike lanes/unmarked shoulder with reconstruction                                 | 5.18  | \$327,400 |
| N. Menomonee River Pkwy. | Harwood Ave.                           | W. Congress St.          | Limit parking to one side of street  | 4.62  | \$292,000 |
| N. Swan Blvd.            | W. Center St.                          | W. Watertown Plank Rd.   | Includes new overpass and realigned street (part of Zoo Interchange)                 | 1.96  | \$123,900 |
| N. Wauwatosa Ave.        | W. Center St.                          | W. State St.             | May require parking removal on one side  | 0.83  | \$52,500  |
| W Grantosa Dr.           | N. 100th St.                           | N. 94th St.              |  | 0.44  | \$27,800  |
| W. Burleigh St.          | N. 124th St.                           | N. Menomonee River Pkwy. |  | 1.59  | \$100,500 |
| W. Center St.            | N. 124th St.                           | N. Mayfair Rd.           |  | 0.96  | \$60,700  |
| W. Congress St.          | W. Menomonee River Pkwy.               | N. Mayfair Rd.           |  | 0.16  | \$10,100  |
| W. Congress St.          | N. 94th St.                            | N. 92nd St.              |  | 0.15  | \$9,500   |
| W. Hampton Ave.          | N. Mayfair Rd.                         | N. 92nd St.              |  | 1.28  | \$80,900  |
| W. North Ave.            | N. 124th St.                           | N. 60th St.              | Reconfigure striping to include bike lanes   | 4.07  | \$257,200 |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

|                        |                |                |                                     |              |                    |
|------------------------|----------------|----------------|-------------------------------------|--------------|--------------------|
| W. Potter Rd.          | N. 115th St.   | N. Mayfair Rd. | Remove parking                      | 0.46         | \$29,100           |
| W. State St.           | Harwood Ave.   | N. 60th St.    |                                     | 1.13         | \$71,400           |
| W. Watertown Plank Rd. | N. 124th St.   | N. Mayfair Rd. |                                     | 0.99         | \$62,600           |
| W. Wisconsin Ave       | N. Mayfair Rd. | N. Hawley Rd.  | Limit parking to one side of street | 3.21         | \$202,900          |
| <b>Total</b>           |                |                |                                     | <b>41.26</b> | <b>\$2,607,900</b> |

Table 26: Recommended cycletracks

| Street                         | From           | To               | Major Action  | Miles       | Cost Est.       |
|--------------------------------|----------------|------------------|---|-------------|-----------------|
| N. Wauwatosa Ave.              | Stinckney Ave. | W. Garfield Ave. | Connect two neighborhood greenway segments along cross street | 0.01        | \$15,000        |
| W. Center St.                  | N. 118th St.   | N. 117th Pl.     | Connect two neighborhood greenway segments along cross street | 0.02        | \$29,900        |
| <b>Total Facilities Length</b> |                |                  |   | <b>0.03</b> | <b>\$44,900</b> |

Table 27: Recommended shared lane markings ("sharrows")

| Street                         | From                    | To                       | Major Action  | Miles       | Cost Est.       |
|--------------------------------|-------------------------|--------------------------|---|-------------|-----------------|
| Harwood Ave.                   | N. Glenview Ave.        | Pedestrian bridge        |   | 0.23        | \$2,600         |
| Harwood Ave.                   | N. Wauwatosa Ave.       | Milwaukee Ave.           |   | 0.24        | \$2,800         |
| Luddington Ave.                | W. North Ave.           | N. 83rd St.              |   | 0.68        | \$7,800         |
| N. 68th St.                    | W. Center St.           | Milwaukee Ave.           |   | 1.14        | \$13,100        |
| N. 91st St.                    | W. Wisconsin Ave.       | W. Michigan St.          | Street is in the City of Milwaukee                                | -           | -               |
| N. 93rd St.                    | W. Wisconsin Ave.       | W. Michigan St.          | Street is in the City of Milwaukee                                | -           | -               |
| N. 99th St.                    | W. Keefe Ave.           | W. Concordia Ave.        |   | 0.25        | \$2,900         |
| Private St.                    | N. Mayfair Rd.          | W. Center St. Path       | Shared lane markings along private access road to connect to path | 0.49        | \$5,600         |
| W. Concordia Ave.              | N. 99th St.             | N. Menomonee River Pkwy. |   | 0.14        | \$1,600         |
| W. Keefe Ave.                  | N. 100th St.            | N. 99th St.              |   | 0.06        | \$700           |
| W. Michigan St.                | N. 91 <sup>st</sup> St. | N. 93 <sup>rd</sup> St.  | Street is in the City of Milwaukee                                | -           | -               |
| W. Potter Rd.                  | W. Underwood Pkwy.      | N. 115th St.             |   | 0.52        | \$6,000         |
| <b>Total Facilities Length</b> |                         |                          |   | <b>3.75</b> | <b>\$43,100</b> |

Table 28: Recommended neighborhood greenways

| Street                | From                     | To                | Major Action | Miles | Cost Est. |
|-----------------------|--------------------------|-------------------|--------------|-------|-----------|
| Charles Hart Pkwy.    | W. Menomonee River Pkwy. | Milwaukee Ave.    |              | 0.14  | \$2,100   |
| Hillcrest Dr.         | N. 83rd St.              | Washington Cir.   |              | 1.15  | \$17,000  |
| Martha Washington Dr. | W. Lloyd St.             | W. Martin Dr.     |              | 0.77  | \$11,400  |
| N. 105th St.          | W. Ruby Ave.             | W. Congress St.   |              | 0.12  | \$1,800   |
| N. 115th St.          | W. Diane Dr.             | W. Park Hill Ave. |              | 0.82  | \$12,100  |
| N. 117th Pl.          | W. Hadley St.            | W. Center St.     |              | 0.14  | \$2,100   |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

|                                |                          |                        |  |              |                  |
|--------------------------------|--------------------------|------------------------|--|--------------|------------------|
| N. 117th St.                   | W. Burleigh St.          | W. Hadley St.          |  | 0.46         | \$6,800          |
| N. 118th St.                   | W. Center St.            | W. Watertown Plank Rd. |  | 1.61         | \$23,800         |
| N. 62nd St.                    | W. Martin Dr.            | W. State St.           |  | 0.18         | \$2,700          |
| N. 65th St.                    | W. Center St.            | W. Lloyd St.           |  | 0.77         | \$11,400         |
| N. 70th St.                    | W. Center St.            | W. Mount Vernon Ave.   |  | 2.41         | \$35,700         |
| N. 76th St.                    | Portland Ave.            | W. Wells St.           |  | 0.08         | \$1,200          |
| N. 83rd St.                    | W. Center St.            | Milwaukee Ave.         |  | 1.08         | \$16,000         |
| N. 85th St.                    | Ravenswood Cir.          | W. Hawthorne Ave.      |  | 0.19         | \$2,800          |
| N. 88th St.                    | W. Center St.            | W. North Ave.          |  | 0.51         | \$7,500          |
| N. 97th St.                    | N. Menomonee River Pkwy. | Wilson Blvd.           |  | 0.15         | \$2,200          |
| N. Parkside Dr.                | W. Courtland Ave.        | N. Delco Ave.          |  | 0.16         | \$2,400          |
| N. Robertson St.               | W. Watertown Plank Rd.   | W. Blue Mound Rd.      |  | 0.71         | \$10,500         |
| Portland Ave.                  | N. Robertson St.         | N. 76th St.            |  | 0.50         | \$7,400          |
| Ravenswood Cir.                | W. Blue Mound Rd.        | N. 85th St.            |  | 0.12         | \$1,800          |
| Stickney Ave.                  | N. Swan Blvd.            | N. Wauwatosa Ave.      |  | 1.01         | \$14,900         |
| W. Congress St.                | N. Mayfair Rd.           | N. 105th St.           |  | 0.39         | \$5,800          |
| W. Courtland Ave.              | N. Mayfair Rd.           | N. Parkside Dr.        |  | 0.08         | \$1,200          |
| W. Diane Dr.                   | N. 124th St.             | East end               |  | 0.13         | \$1,900          |
| W. Garfield Ave.               | N. 67th St.              | N. 60th St.            | Add connecting path between N. 67th St. and N. 68th St.  | 0.44         | \$6,500          |
| W. Garfield Ave.               | N. Wauwatosa Ave.        | N. 68th St.            | Add connecting path between N. 67th St. and N. 68th St.  | 0.53         | \$7,800          |
| W. Glendale Ave.               | N. Delco Ave.            | East end               |  | 0.82         | \$12,100         |
| W. Hawthorne Ave.              | N. 92nd St.              | N Glenview Ave.        | Portions of this street are within the City of Milwaukee | 0.51         | \$7,500          |
| W. Martin Dr.                  | N. 62nd St.              | Martha Washington Dr.  |  | 0.05         | \$700            |
| W. Ruby Ave. Extension         | N. 105th St.             | East end               |  | 0.61         | \$9,000          |
| W. Washington Blvd.            | Washington Cir.          | N. 60th St.            |  | 0.35         | \$5,200          |
| W. Wells St.                   | N. 76th St.              | N. Hawley Ave.         |  | 1.20         | \$17,800         |
| W. Wirth St.                   | N. 124th St.             | N. 119th St.           |  | 0.27         | \$4,000          |
| W. Wright St.                  | N. Swan Blvd.            | N. 60th St.            |  | 2.03         | \$30,000         |
| Washington Cir.                | Hillcrest Dr.            | W. Washington Blvd.    |  | 0.18         | \$2,700          |
| Wilson Blvd.                   | N. 97th St.              | N. Swan Blvd           |  | 0.29         | \$4,300          |
| <b>Total Facilities Length</b> |                          |                        |  | <b>20.96</b> | <b>\$310,100</b> |

Table 29: Recommended signed bike routes

| Street                | From   | To           | Major Action | Miles | Cost Est. |
|-----------------------|--|--------------|--------------|-------|-----------|
| Honey Creek Pkwy.     | W. <del>Blue Mound</del> <u>Blue Mound</u> Rd. | N. 60th St.  |              | 1.88  | \$6,200   |
| Underwood Creek Pkwy. | W. Watertown Plank Rd.                         | N. Swan Blvd |              | 1.71  | \$5,600   |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Total Facilities Length 3.59 \$11,800

Table 30: Recommended shared use paths

| Street                               | From                        | To                           | Major Action  | Miles | Cost        |
|--------------------------------------|-----------------------------|------------------------------|---|-------|-------------|
| Burleigh Path (117th to Mayfair)     | N. 117th St.                | N. Mayfair Rd.               | Sidepath or wide sidewalk   | 0.69  | \$339,200   |
| Burleigh Path (BluemoundBlue Mound)  | N. Mayfair Rd.              | N. Menomonee River Pkwy.     | Sidepath or wide sidewalk   | 0.63  | \$309,700   |
| Burleigh Sidepath (Mt. Mary)         | N. Menomonee River Pkwy.    | N. 93rd St.                  | Sidepath or wide sidewalk   | 0.34  | \$167,100   |
| Center St. Connector                 | Private Street              | W. Center St.                | Connect W. Center St. across the Menomonee River                                  | 0.53  | \$260,500   |
| Grantosa Connection                  | Madison Park                | W. Grantosa Dr.              |   | 0.38  | \$186,800   |
| Grantosa Path                        | N. Menomonee River Pkwy.    | N. 100th St.                 | Path along the creek  | 0.73  | \$358,900   |
| Hanson Golf Course Connection        |                             | Underwood Pkwy               | Path will require substantial planning, property acquisition, new tunnel under RR | 0.27  | \$132,700   |
| Harwood Ave. Connector               | Harwood Ave.                | Harwood Ave                  | Path connecting Harwood Ave. across the greenspace at N. Wauwatosa Ave.           | 0.03  | \$14,700    |
| Menomonee River Parkway West Path    | N. Menomonee River Pkwy.    | W. Burleigh St.              |   | 1.06  | \$521,100   |
| MMSD Paths                           | Underwood Pkwy              | N. Swan Blvd.                | Pave existing paths under MMSD jurisdiction                                       | 1.11  | \$545,700   |
| MMSD Paths                           | N. Swan Blvd.               | W. Watertown Plank Rd.       | Pave existing paths under MMSD jurisdiction                                       | 1.54  | \$757,100   |
| N. 115th St. Connector               | N. 115th St.                | Hank Aaron State Trail       | Connector path between N. 115th St. and the Hank Aaron State Trail                | 0.11  | \$54,100    |
| N. Mayfair Rd. Sidepath              | Oak Leaf Trail              | W. Wisconsin Ave.            | Sidepath on east side of Mayfair from OLT to Wisconsin Ave.                       | 0.68  | \$334,300   |
| N. Mayfair Rd. Sidepath (East)       | W. Keefe Ave.               | W. Burleigh St.              | Sidepath or wide sidewalk   | 0.51  | \$250,700   |
| N. Mayfair Rd. Sidepath (West)       | W. Capitol Dr.              | W. Burleigh St.              | Sidepath or wide sidewalk   | 1.03  | \$506,300   |
| N. Menomonee River Pkwy.             | Path                        | W. Courtland Ave.            | Connect neighborhood greenway to MRP path   | 0.11  | \$54,100    |
| N. Menomonee River Pkwy. Sidepath    | W. Congress St.             | Existing path at N. 91st St. | Shared use path between MRP and Menomonee River                                   | 3.54  | \$1,740,300 |
| N. Swan Blvd. Sidepath               | Underwood Creek Pkwy.       | New roundabout               |   | 0.40  | \$196,600   |
| Northwest Rail Trail                 | W. Feerick St.              | W. Center St.                | Path along the rail corridor  | 1.47  | \$722,700   |
| Oak Leaf Trail Underwood Extension   | W. BluemoundBlue Mound Pkwy | N. 115th St.                 | Path along Underwood Creek  | 0.71  | \$349,000   |
| South Honey Creek Path               | W. O'Connor St.             | N. Hawley Rd.                | Sidepath or wide sidewalk   | 2.69  | \$1,322,400 |
| Swan Blvd. Underpass                 | Hansen Park                 | County Grounds               | Tunnel under Swan Blvd. connecting planned Wisconsin DNR facilities               | 0.06  | \$29,500    |
| Underwood Elementary School Path     | Underwood Creek Path        | W. Potter Rd.                | Path along school grounds connecting to existing path                             | 0.24  | \$118,000   |
| Underwood Parkway Path               | W. Watertown Plank Rd.      | N. Swan Blvd.                | Sidepath or wide sidewalk   | 1.74  | \$855,400   |
| W. BluemoundBlue Mound Rd. Underpass | at Underwood Creek          |                              | Underpass of street for extension of Oak Leaf Trail to the Hank Aaron State Trail | 0.03  | \$14,700    |
| W. Concordia Ave. Bridge             | N. Menomonee River Pkwy.    | N. Menomonee River Pkwy.     | Bike/ped bridge over Menomonee River Parkway                                      | 0.05  | \$24,600    |
| W. Congress St. Sidepath             | N. Mayfair Rd.              | N. 104th St.                 |   | 0.49  | \$240,900   |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

|                                |                          |                      |   |              |                     |
|--------------------------------|--------------------------|----------------------|---|--------------|---------------------|
| W. Dearbourn Ave. Extension    | W. Dearbourn Ave.        | HAST Connection      |   | 0.07         | \$34,400            |
| W. Diane Dr. Connector         | W. Diane Dr.             | N. 115th St.         | Connector path between W. Diane Dr. and N. 115th St.  | 0.05         | \$24,600            |
| W. Garfield Ave. Connector     | W. Garfield Ave.         | W. Garfield Ave.     | Connector Path between N. 67th St. and N. 68th St.    | 0.03         | \$14,700            |
| W. Keefe Ave. Sidepath         | N. Menomonee River Pkwy. | N. 100th St.         |   | 0.16         | \$78,700            |
| W. Meinecke Ave Extension      | W. Meinecke Ave.         | W. North Ave.        |   | 0.08         | \$39,300            |
| W. Ripley Ave. Extension       | W. Ripley Ave.           | Underwood Creek Path |   | 0.07         | \$34,400            |
| W. Ruby Ave. Extension         | W. Ruby Ave.             | Planned path         |   | 0.03         | \$14,700            |
| Whitman School Connection      | N. 114th St.             | W. Center St.        | Path along U.S. 45 through the Whitman School grounds | 0.30         | \$147,500           |
| Wirth Street Extension         | Wirth St.                | Northwest Rail Trail |   | 0.15         | \$73,700            |
| <b>Total Facilities Length</b> |                          |                      |   | <b>22.11</b> | <b>\$10,869,100</b> |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

### Appendix D | Planning Level Cost Details

The following tables detail how planning-level costs were derived. The costs are based on 2011 national level costs for specific materials or activities, and have been inflation adjusted to 2013 figures using a compounding inflation rate of three percent a year. Local costs may vary widely for materials and construction activities, and the costs provided should only be used as ball park level planning costs. Note that costs are provided for some facility types that are not included in this plan – these costs may be useful for future planning efforts.

Cost figures are included for maintenance of traffic, ~~that is~~ rerouting traffic during facility installation, and other lump sum costs where appropriate.

Table 31: Planning level costs for signed bike route (add signs)

| Signed Route (Add Signs)    |      |        |                |                         |                          |                          |  |
|-----------------------------|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item                        | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment                                  |
| New Sign                    | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500', each direction |
| Lump Sum Items              |      |        |                |                         |                          |                          |  |
| Maintenance of Traffic (5%) | LS   | 1.00   |                | \$233.00                | \$0                      | \$233                    |  |
| <b>Subtotal</b>             |      |        |                |                         | <b>\$2,200</b>           | <b>\$2,563</b>           |  |
| 25% Contingency             |      |        |                |                         | \$550                    | \$641                    |  |
| <b>Total Estimated Cost</b> |      |        |                |                         | <b>\$2,800</b>           | <b>\$3,300</b>           |  |

Table 32: Planning level costs for sharrows (no major action)

| Sharrows (No Major Action/Add Markings) |      |        |                |                         |                          |                          |   |
|---|------|--------|----------------|-------------------------|--------------------------|--------------------------|---|
| Item                                    | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment   |
| Thermoplastic Pavement Marking Symbol   | EA   | 20     | \$300.00       | \$318.00                | \$6,000                  | \$6,360                  | Assume 1 Symbol every 250' per side of the road |
| New Sign                                | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500'                        |
| Lump Sum Items                          |      |        |                |                         |                          |                          |   |
| Maintenance of Traffic (5%)             | LS   | 1.00   | \$410.00       | \$435.00                | \$410                    | \$435                    |   |
| <b>Subtotal</b>                         |      |        |                |                         | <b>\$8,610</b>           | <b>\$9,125</b>           |   |
| 25% Contingency                         |      |        |                |                         | \$2,153                  | \$2,281                  |   |
| <b>Total Estimated Cost</b>             |      |        |                |                         | <b>\$10,800</b>          | <b>\$11,500</b>          |   |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 33: Planning level costs for bike lanes (no major action)

| Bike Lanes (No Major Action/Add Striping) |      |        |                |                         |                          |                          |  |
|---|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item                                      | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment                                      |
| Thermoplastic Pavement Marking (6")       | LF   | 20000  | \$1.50         | \$1.59                  | \$30,000                 | \$31,800                 | Assume 4 lines entire length                 |
| Thermoplastic Pavement Marking Symbol     | EA   | 40     | \$300.00       | \$318.00                | \$12,000                 | \$12,720                 | Assume 1 Symbol every 250' each side of road |
| 24" Thermoplastic Pavement Marking        | LF   | 200    | \$6.00         | \$6.36                  | \$1,200                  | \$1,272                  | Assume 1 High Vis crossing every 2500'       |
| New Sign                                  | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500' each side of road   |
| Lump Sum Items                            |      |        |                |                         |                          |                          |  |
| Maintenance of Traffic (5%)               | LS   | 1.00   | \$2,270.00     | \$2,406.00              | \$2,270                  | \$2,406                  |  |
| <b>Subtotal</b>                           |      |        |                |                         | <b>\$47,670</b>          | <b>\$50,528</b>          |  |
| 25% Contingency                           |      |        |                |                         | \$11,918                 | \$12,632                 |  |
| <b>Total Estimated Cost</b>               |      |        |                |                         | <b>\$59,600</b>          | <b>\$63,200</b>          |  |

Table 34: Planning level costs for bike lanes (lane diet)

| Bike Lanes (Lane Diet)                |      |        |                |                         |                          |                          |  |
|---------------------------------------|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item                                  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Thermoplastic Pavement Marking (6")   | LF   | 20000  | \$1.50         | \$1.59                  | \$30,000                 | \$31,800                 | Assume 4 lines entire length (2 white edge)                |
| Thermoplastic Pavement Marking Symbol | EA   | 20     | \$300.00       | \$318.00                | \$6,000                  | \$6,360                  | Assume 1 Symbol every 250' each side of road               |
| 24" Thermoplastic Pavement Marking    | LF   | 100    | \$6.00         | \$6.36                  | \$600                    | \$636                    | Assume 1 High Vis crossing every 2500'                     |
| New Sign                              | EA   | 5      | \$220.00       | \$233.00                | \$1,100                  | \$1,165                  | Assume 1 Sign every 500'                                   |
| Eradication                           | LF   | 10000  | \$2.00         | \$1.50                  | \$20,000                 | \$15,000                 | Assume 4 lines entire length (mixed edge and center lines) |
| Lump Sum Items                        |      |        |                |                         |                          |                          |  |
| Maintenance of Traffic (5%)           | LS   | 1.00   | \$2,885.00     | \$2,748.00              | \$2,885                  | \$2,748                  |  |
| <b>Subtotal</b>                       |      |        |                |                         | <b>\$60,585</b>          | <b>\$57,709</b>          |  |
| 25% Contingency                       |      |        |                |                         | \$15,146                 | \$14,427                 |  |
| <b>Total Estimated Cost</b>           |      |        |                |                         | <b>\$75,800</b>          | <b>\$72,200</b>          |  |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Table 35: Planning level costs for bike lanes (road diet)

| Bike Lanes (Road Diet)                |      |        |                |                         |                          |                          |   |
|---------------------------------------|------|--------|----------------|-------------------------|--------------------------|--------------------------|---|
| Item                                  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment   |
| Thermoplastic Pavement Marking (6")   | LF   | 20000  | \$1.50         | \$1.59                  | \$30,000                 | \$31,800                 | Assume 4 lines entire length                                      |
| Thermoplastic Pavement Marking Symbol | EA   | 40     | \$300.00       | \$318.00                | \$12,000                 | \$12,720                 | Assume 1 Symbol every 250' each side of road (bike lane)          |
| 24" Thermoplastic Pavement Marking    | LF   | 200    | \$6.00         | \$6.36                  | \$1,200                  | \$1,272                  | Assume 1 High Vis crossing every 2500'                            |
| New Sign                              | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500'  |
| Eradication                           | LF   | 15000  | \$2.00         | \$1.50                  | \$30,000                 | \$22,500                 | Assume 3 lines entire length (2 center yellow, 1 50% skip yellow) |
| Thermoplastic Pavement Marking Symbol | EA   | 20     | \$300.00       | \$318.00                | \$6,000                  | \$6,360                  | Assume 1 symbol every 250' (Left-Turn arrows)                     |
| Lump Sum Items                        |      |        |                |                         |                          |                          |   |
| Maintenance of Traffic (5%)           | LS   | 1.00   | \$4,070.00     | \$3,849.00              | \$4,070                  | \$3,849                  |   |
| <b>Subtotal</b>                       |      |        |                |                         | <b>\$85,470</b>          | <b>\$80,831</b>          |   |
| 25% Contingency                       |      |        |                |                         | \$21,368                 | \$20,208                 |   |
| <b>Total Estimated Cost</b>           |      |        |                |                         | <b>\$106,900</b>         | <b>\$101,100</b>         |   |

Table 36: Planning level costs for climbing lanes (lane diet)

| Climbing Lane (Lane Diet)             |      |        |                |                         |                          |                          |  |
|---------------------------------------|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item                                  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Thermoplastic Pavement Marking (6")   | LF   | 20000  | \$1.50         | \$1.59                  | \$30,000                 | \$31,800                 | Assume 4 lines entire length (2 white edge, 2 center yellow) |
| Thermoplastic Pavement Marking Symbol | EA   | 40     | \$300.00       | \$318.00                | \$12,000                 | \$12,720                 | Assume 1 Symbol every 250' each side of road                 |
| 24" Thermoplastic Pavement Marking    | LF   | 200    | \$6.00         | \$6.36                  | \$1,200                  | \$1,272                  | Assume 1 High Vis crossing every 2500'                       |
| New Sign                              | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500'                                     |
| Eradication                           | LF   | 20000  | \$2.00         | \$1.50                  | \$40,000                 | \$30,000                 | Assume 4 lines entire length (mixed edge and center)         |
| Lump Sum Items                        |      |        |                |                         |                          |                          |  |
| Maintenance of Traffic (5%)           | LS   | 1.00   | \$4,270.00     | \$3,906.00              | \$4,270                  | \$3,906                  |  |
| <b>Subtotal</b>                       |      |        |                |                         | <b>\$89,670</b>          | <b>\$82,028</b>          |  |
| 25% Contingency                       |      |        |                |                         | \$22,418                 | \$20,507                 |  |
| <b>Total Estimated Cost</b>           |      |        |                |                         | <b>\$112,100</b>         | <b>\$102,600</b>         |  |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 37: Planning level costs for bike lanes (widen road)

| Bike Lanes (Widen Road/Construct Shoulders - 5' each side) |      |        |                |                         |                          |                          |  |
|--|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item   | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Earthwork, Excavation, Grading                             | CY   | 3750   | \$15.00        | \$25.00                 | \$56,250                 | \$93,750                 | Assume 10' width and 2' depth                            |
| Aggregate Base Course for Pavement                         | CY   | 2000   | \$50.00        | \$60.00                 | \$100,000                | \$120,000                | Assume 10' width and 1' depth                            |
| Milling  | SY   | 5900   | \$6.00         | \$6.00                  | \$35,400                 | \$35,400                 | Assume 10' width   |
| Asphalt Surface Course                                     | TON  | 500    | \$60.00        | \$64.00                 | \$30,000                 | \$32,000                 | Assume 10' width and 0.125' depth, 13.3 CF in a TON      |
| Eradication  | LF   | 10000  | \$2.00         | \$2.12                  | \$20,000                 | \$21,200                 | Assume 2 lines entire length (2 white edge lines)        |
| Thermoplastic Pavement Marking (6")                        | LF   | 10000  | \$1.50         | \$1.59                  | \$15,000                 | \$15,900                 | Assume 2 lines entire length                             |
| Thermoplastic Pavement Marking Symbol                      | EA   | 40     | \$300.00       | \$318.00                | \$12,000                 | \$12,720                 | Assume 1 Symbol every 250' each side of road (bike lane) |
| 24" Thermoplastic Pavement Marking                         | LF   | 200    | \$6.00         | \$6.36                  | \$1,200                  | \$1,272                  | Assume 1 High Vis crossing every 2500'                   |
| New Sign   | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 Sign every 500'                                 |
| Lump Sum Items   |      |        |                |                         |                          |                          |  |
| Landscaping (5%)   | LS   | 1.00   | \$3,250.00     | \$3,455.00              | \$3,250                  | \$3,455                  |  |
| Drainage and E&S (10%)                                     | LS   | 1.00   | \$6,910.00     | \$6,910.00              | \$6,500                  | \$6,910                  |  |
| Maintenance of Traffic (5%)                                | LS   | 1.00   | \$3,250.00     | \$3,455.00              | \$3,250                  | \$3,455                  |  |
| Utility Adjustments (10%)                                  | LS   | 1.00   | \$6,500.00     | \$6,910.00              | \$6,500                  | \$6,910                  |  |
| <b>Subtotal</b>  |      |        |                |                         | <b>\$99,900</b>          | <b>\$355,302</b>         |  |
| 25% Contingency  |      |        |                |                         | \$24,975                 | \$88,826                 |  |
| <b>Total Estimated Cost</b>                                |      |        |                |                         | <b>\$124,900</b>         | <b>\$444,200</b>         |  |

Table 38: Planning level costs for buffered bike lanes (lane diet)

| Buffered Bike Lane (Lane Diet)        |      |        |                |                         |                          |                          |  |
|---------------------------------------|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item                                  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Thermoplastic Pavement Marking (6")   | LF   | 30000  | \$1.50         | \$1.59                  | \$45,000                 | \$47,700                 | Assume 6 lines entire length (4 white edge, 2 center yellow) |
| Thermoplastic Pavement Marking Symbol | EA   | 60     | \$300.00       | \$318.00                | \$18,000                 | \$19,080                 | Assume 1 Symbol every 250' each side of road                 |
| 24" Thermoplastic Pavement Marking    | LF   | 300    | \$6.00         | \$6.36                  | \$1,800                  | \$1,908                  | Assume 1 High Vis crossing every 2500'                       |
| New Sign                              | EA   | 15     | \$220.00       | \$233.00                | \$3,300                  | \$3,495                  | Assume 1 Sign every 500'                                     |
| Eradication                           | LF   | 30000  | \$2.00         | \$1.50                  | \$60,000                 | \$45,000                 | Assume 4 lines entire length (mixed edge and center)         |
| Lump Sum Items                        |      |        |                |                         |                          |                          |  |
| Maintenance of Traffic (5%)           | LS   | 1.00   | \$6,405.00     | \$5,859.00              | \$6,405                  | \$5,859                  |  |
| <b>Subtotal</b>                       |      |        |                |                         | <b>\$134,505</b>         | <b>\$123,042</b>         |  |
| 25% Contingency                       |      |        |                |                         | \$33,626                 | \$30,761                 |  |
| <b>Total Estimated Cost</b>           |      |        |                |                         | <b>\$168,200</b>         | <b>\$153,900</b>         |  |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Table 39: Planning level costs for sidewalks (widen existing)

| Sidewalk with Bikes Permitted (Widen Existing - 2' concrete) |      |        |                |                         |                          |                          |  |
|--|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item   | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Earthwork, Excavation, Grading                               | CY   | 750    | \$15.00        | \$25.00                 | \$11,250                 | \$18,750                 | Assume 2' width and 2' depth                       |
| Aggregate Base Course for Pavement                           | CY   | 400    | \$50.00        | \$60.00                 | \$20,000                 | \$24,000                 | Assume 2' width and 1' depth                       |
| Concrete Surface Course                                      | TON  | 100    | \$60.00        | \$64.00                 | \$6,000                  | \$6,400                  | Assume 2' width and 0.125' depth, 13.3 CF in a TON |
| Concrete Base Course   | TON  | 400    | \$60.00        | \$64.00                 | \$24,000                 | \$25,600                 | Assume 2' width and 0.5' depth, 13.3 CF in a TON   |
| Lump Sum Items   |      |        |                |                         |                          |                          |  |
| Landscaping (5%)   | LS   | 1.00   | \$3,063.00     | \$3,738.00              | \$3,063                  | \$3,738                  |  |
| Drainage and E&S (10%)                                       | LS   | 1.00   | \$6,125.00     | \$7,475.00              | \$6,125                  | \$7,475                  |  |
| Maintenance of Traffic (5%)                                  | LS   | 1.00   | \$3,063.00     | \$3,738.00              | \$3,063                  | \$3,738                  |  |
| Utility Adjustments (10%)                                    | LS   | 1.00   | \$6,125.00     | \$7,475.00              | \$6,125                  | \$7,475                  |  |
| <b>Subtotal</b>  |      |        |                |                         | <b>\$79,626</b>          | <b>\$97,176</b>          |  |
| 25% Contingency  |      |        |                |                         | \$19,907                 | \$24,294                 |  |
| <b>Total Estimated Cost</b>                                  |      |        |                |                         | <b>\$99,600</b>          | <b>\$121,500</b>         |  |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 40: Planning level costs for sidewalks (construct new)

| Sidewalk w Bikes Permitted (Construct New- 6' concrete) |      |        |                |                         |                          |                          |  |
|---|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Earthwork, Excavation, Grading                          | CY   | 4100   | \$15.00        | \$25.00                 | \$61,500                 | \$102,500                | Assume 6' width and 2' depth                       |
| Aggregate Base Course for Pavement                      | CY   | 1000   | \$50.00        | \$60.00                 | \$50,000                 | \$60,000                 | Assume 6' width and 1' depth                       |
| Concrete Surface Course                                 | TON  | 250    | \$60.00        | \$64.00                 | \$15,000                 | \$16,000                 | Assume 6' width and 0.125' depth, 13.3 CF in a TON |
| Concrete Base Course                                    | TON  | 1000   | \$60.00        | \$64.00                 | \$60,000                 | \$64,000                 | Assume 6' width and 0.5' depth, 13.3 CF in a TON   |
| Lump Sum Items  |      |        |                |                         |                          |                          |  |
| Landscaping (5%)  | LS   | 1.00   | \$9,325.00     | \$12,125.00             | \$9,325                  | \$12,125                 |  |
| Drainage and E&S (10%)                                  | LS   | 1.00   | \$18,650.00    | \$24,250.00             | \$18,650                 | \$24,250                 | Does not include enhanced features such as         |
| Maintenance of Traffic (5%)                             | LS   | 1.00   | \$9,325.00     | \$12,125.00             | \$9,325                  | \$12,125                 |  |
| Utility Adjustments (10%)                               | LS   | 1.00   | \$18,650.00    | \$24,250.00             | \$18,650                 | \$24,250                 |  |
| <b>Subtotal</b>   |      |        |                |                         | <b>\$242,450</b>         | <b>\$315,250</b>         |  |
| 25% Contingency   |      |        |                |                         | \$60,613                 | \$78,813                 |  |
| <b>Total Estimated Cost</b>                             |      |        |                |                         | <b>\$303,100</b>         | <b>\$394,100</b>         |  |

Table 41: Planning level costs for shared use path (widen existing)

| Shared Use Path (Widen Existing- 4' asphalt) |      |        |                |                         |                          |                          |  |
|--|------|--------|----------------|-------------------------|--------------------------|--------------------------|--|
| Item   | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment  |
| Earthwork, Excavation, Grading               | CY   | 2600   | \$15.00        | \$25.00                 | \$39,000                 | \$65,000                 | Assume 10' width and 2' depth                      |
| Aggregate Base Course for Pavement           | CY   | 400    | \$50.00        | \$60.00                 | \$20,000                 | \$24,000                 | Assume 4' width and 1' depth                       |
| Asphalt Surface Course                       | TON  | 100    | \$60.00        | \$64.00                 | \$6,000                  | \$6,400                  | Assume 4' width and 0.125' depth, 13.3 CF in a TON |
| Asphalt Base Course                          | TON  | 400    | \$60.00        | \$64.00                 | \$24,000                 | \$25,600                 | Assume 4' width and 0.5' depth, 13.3 CF in a TON   |
| Lump Sum Items                               |      |        |                |                         |                          |                          |  |
| Landscaping (5%)                             | LS   | 1.00   | \$4,450.00     | \$6,050.00              | \$4,450                  | \$6,050                  |  |
| Drainage and E&S (10%)                       | LS   | 1.00   | \$8,900.00     | \$12,100.00             | \$8,900                  | \$12,100                 | Does not include enhanced features such as         |
| Maintenance of Traffic (5%)                  | LS   | 1.00   | \$4,450.00     | \$6,050.00              | \$4,450                  | \$6,050                  |  |
| Utility Adjustments (10%)                    | LS   | 1.00   | \$8,900.00     | \$12,100.00             | \$8,900                  | \$12,100                 |  |
| <b>Subtotal</b>                              |      |        |                |                         | <b>\$115,700</b>         | <b>\$157,300</b>         |  |
| 25% Contingency                              |      |        |                |                         | \$28,925                 | \$39,325                 |  |
| <b>Total Estimated Cost</b>                  |      |        |                |                         | <b>\$144,700</b>         | <b>\$196,700</b>         |  |

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Table 42: Planning level costs for shared use path (construct new)

| Shared Use Path (Construct New - 10' asphalt) |      |        |                |                         |                          |                          |   |
|---|------|--------|----------------|-------------------------|--------------------------|--------------------------|---|
| Item  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment   |
| Earthwork, Excavation, Grading                | CY   | 6500   | \$15.00        | \$25.00                 | \$97,500                 | \$162,500                | Assume 16' width and 2' depth                       |
| Aggregate Base Course for Pavement            | CY   | 1000   | \$50.00        | \$60.00                 | \$50,000                 | \$60,000                 | Assume 10' width and 1' depth                       |
| Asphalt Surface Course                        | TON  | 250    | \$60.00        | \$64.00                 | \$15,000                 | \$16,000                 | Assume 10' width and 0.125' depth, 13.3 CF in a TON |
| Asphalt Base Course                           | TON  | 1000   | \$60.00        | \$64.00                 | \$60,000                 | \$64,000                 | Assume 10' width and 0.5' depth, 13.3 CF in a TON   |
| Lump Sum Items                                |      |        |                |                         |                          |                          |   |
| Landscaping (5%)                              | LS   | 1.00   | \$11,125.00    | \$15,125.00             | \$11,125                 | \$15,125                 |   |
| Drainage and E&S (10%)                        | LS   | 1.00   | \$22,250.00    | \$30,250.00             | \$22,250                 | \$30,250                 | Does not include enhanced features                  |
| Maintenance of Traffic (5%)                   | LS   | 1.00   | \$11,125.00    | \$15,125.00             | \$11,125                 | \$15,125                 |   |
| Utility Adjustments (10%)                     | LS   | 1.00   | \$22,250.00    | \$30,250.00             | \$22,250                 | \$30,250                 |   |
| <b>Subtotal</b>                               |      |        |                |                         | <b>\$289,250</b>         | <b>\$393,250</b>         |   |
| 25% Contingency                               |      |        |                |                         | \$72,313                 | \$98,313                 |   |
| <b>Total Estimated Cost</b>                   |      |        |                |                         | <b>\$361,600</b>         | <b>\$491,600</b>         |   |

Table 43: Planning level costs for one way cycletrack

| One Way Cycletrack (Construct New - 7' asphalt w/ curb & gutter & median) |      |        |                |                         |                          |                          |   |
|---|------|--------|----------------|-------------------------|--------------------------|--------------------------|---|
| Item  | Unit | Quant. | 2011 Unit Cost | 2013 Compound Unit Cost | 2011 Total Cost per Mile | 2013 Total Cost per Mile | Comment   |
| Earthwork, Excavation, Grading  | CY   | 5100   | \$15.00        | \$25.00                 | \$76,500                 | \$127,500                | Assume 13' (7' lane, 3' excavation each side), 2' depth |
| Aggregate Base Course - Pavement & Median                                 | CY   | 1000   | \$50.00        | \$60.00                 | \$50,000                 | \$60,000                 | Assume 10' width and 1' depth                           |
| Asphalt Surface Course  | TON  | 250    | \$60.00        | \$64.00                 | \$15,000                 | \$16,000                 | Assume 10' width and 0.125' depth, 13.3 CF in a TON     |
| Asphalt Base Course   | TON  | 1000   | \$60.00        | \$64.00                 | \$60,000                 | \$64,000                 | Assume 10' width and 0.5' depth, 13.3 CF in a TON       |
| Curb & Gutter / Small Median (3')   | LF   | 10000  | \$55.00        | \$58.00                 | \$550,000                | \$580,000                |   |
| Thermoplastic Pavement Marking Symbol                                     | EA   | 20     | \$300.00       | \$318.00                | \$6,000                  | \$6,360                  | Assume 1 symbol every 250' (bike lanes)                 |
| New Sign  | EA   | 10     | \$220.00       | \$233.00                | \$2,200                  | \$2,330                  | Assume 1 sign every 500' each side of Cycletrack        |
| Lump Sum Items  |      |        |                |                         |                          |                          |   |
| Landscaping (5%)  | LS   | 1.00   | \$37,875.00    | \$42,693.00             | \$37,875                 | \$42,693                 |   |
| Drainage and E&S (10%)  | LS   | 1.00   | \$75,750.00    | \$85,386.00             | \$75,750                 | \$85,386                 |   |
| Maintenance of Traffic (5%)   | LS   | 1.00   | \$37,875.00    | \$42,693.00             | \$37,875                 | \$42,693                 |   |
| Utility Adjustments (10%)   | LS   | 1.00   | \$75,750.00    | \$85,386.00             | \$75,750                 | \$85,386                 |   |
| <b>Subtotal</b>   |      |        |                |                         | <b>\$986,950</b>         | <b>\$1,112,348</b>       |   |
| 25% Contingency   |      |        |                |                         | \$246,738                | \$278,087                |   |
| <b>Total Estimated Cost</b>   |      |        |                |                         | <b>\$1,233,700</b>       | <b>\$1,390,500</b>       |   |

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

## City of Wauwatosa Bicycle &amp; Pedestrian Facilities Plan

DRAFT 1/27/2014

Table 44: Planning level costs for two way cycletrack

| Two Way Cycletrack (Construct New - 10' asphalt w/ curb & gutter & median) |      |        |                   |                               |                                |                                |   |
|--|------|--------|-------------------|-------------------------------|--------------------------------|--------------------------------|---|
| Item   | Unit | Quant. | 2011<br>Unit Cost | 2013<br>Compound<br>Unit Cost | 2011<br>Total Cost<br>per Mile | 2013<br>Total Cost<br>per Mile | Comment   |
| Earthwork, Excavation, Grading   | CY   | 6300   | \$15.00           | \$25.00                       | \$94,500                       | \$157,500                      | Assume 16' 5' lanes, 3 ft excavation each side), 2' depth |
| Aggregate Base Course for Pavement   | CY   | 1200   | \$50.00           | \$60.00                       | \$60,000                       | \$72,000                       | Assume 10' width and 1' depth                             |
| Asphalt Surface Course   | TON  | 300    | \$60.00           | \$64.00                       | \$18,000                       | \$19,200                       | Assume 10' width and 0.125' depth, 13.3 CF in a TON       |
| Asphalt Base Course  | TON  | 1200   | \$60.00           | \$64.00                       | \$72,000                       | \$76,800                       | Assume 10' width and 0.5' depth, 13.3 CF in a TON         |
| Curb & Gutter / Small Median (3')  | LF   | 10000  | \$55.00           | \$58.00                       | \$550,000                      | \$580,000                      |   |
| Thermoplastic Pavement Marking (6")  | LF   | 1300   | \$1.50            | \$1.59                        | \$1,950                        | \$2,067                        | Assume 1 dashed center line, yellow                       |
| Thermoplastic Pavement Marking (6")  | LF   | 2500   | \$1.50            | \$2.00                        | \$3,750                        | \$5,000                        | Assume 0.5 line entire length                             |
| Thermoplastic Pavement Marking Symbol                                      | EA   | 20     | \$300.00          | \$318.00                      | \$6,000                        | \$6,360                        | Assume 1 symbol every 250' (bike lanes)                   |
| New Sign   | EA   | 10     | \$220.00          | \$233.00                      | \$2,200                        | \$2,330                        | Assume 1 sign every 500' each side of Cycletrack          |
| Lump Sum Items   |      |        |                   |                               |                                |                                |   |
| Landscaping (5%)   | LS   | 1.00   | \$40,310.00       | \$45,946.00                   | \$40,310                       | \$45,946                       |   |
| Drainage and E&S (10%)   | LS   | 1.00   | \$80,620.00       | \$91,893.00                   | \$80,620                       | \$91,893                       |   |
| Maintenance of Traffic (5%)  | LS   | 1.00   | \$40,310.00       | \$45,946.00                   | \$40,310                       | \$45,946                       |   |
| Utility Adjustments (10%)  | LS   | 1.00   | \$80,620.00       | \$91,893.00                   | \$80,620                       | \$91,893                       |   |
| <b>Subtotal</b>  |      |        |                   |                               | <b>\$1,050,260</b>             | <b>\$1,196,935</b>             |   |
| 25% Contingency  |      |        |                   |                               | \$262,565                      | \$299,234                      |   |
| <b>Total Estimated Cost</b>  |      |        |                   |                               | <b>\$1,312,900</b>             | <b>\$1,496,200</b>             |   |

## Appendix E | Model Complete Streets Ordinance

### E.1 | Overview

A model local Complete Streets ordinance is provided below. This model ordinance was developed by the National Policy & Legal Analysis Network to Prevent Childhood Obesity (NPLAN), a project of Public Health Law & Policy (PHLP). The original document contains comments and clarifications about the ordinance:

[http://www.saferoutespartnership.org/sites/default/files/pdf/Lib\\_of\\_Res/CS\\_LocalOrdinance\\_FINAL20100223.pdf](http://www.saferoutespartnership.org/sites/default/files/pdf/Lib_of_Res/CS_LocalOrdinance_FINAL20100223.pdf)

### E.2 | Policy Options

The model offers a variety of policy options. In some instances, alternate language is offered (e.g., [night / day]-) or blanks have been left (e.g., [ \_\_\_\_ ]) for the language to be customized to fit the needs of a specific community. In considering which options to choose, drafters should balance public health benefits against practical political considerations and other local conditions in the particular jurisdiction. One purpose of including a variety of options is to stimulate broad thinking about the types of provisions a community might wish to explore, even beyond those described in the model. NPLAN is interested in learning about novel provisions that communities are considering. Please contact us through our website: [www.nplan.org](http://www.nplan.org).

### E.3 | Model Local Ordinance on Complete Streets

*An Ordinance of the [-Municipality (E.G. City Of \_\_\_\_)-]  
Providing for Complete Streets and Amending the [-Municipality-]  
Municipal Code*

The [-Adopting body-] does ordain as follows:

**SECTION I. FINDINGS.** The [-Adopting body] hereby finds and declares as follows:

**NOW THEREFORE**, it is the intent of the [ Adopting body (e.g., city council)] in enacting this ordinance to encourage healthy, active living, reduce traffic congestion and fossil fuel use, and improve the safety and quality of life of residents of [ Municipality ] by providing safe, convenient, and comfortable routes for walking, bicycling, and public transportation.

**SECTION II.** [ Article-/Chapter] of the [-Municipality-] Municipal Code is hereby amended to read as follows:

**Sec. [ \_\_\_\_ (\*1) ]. PURPOSE.** The purpose of this [ article / chapter] is to enable the streets of [ Municipality ] to provide safe, convenient, and comfortable routes for walking, bicycling, and public transportation that encourage increased use of these modes of transportation, enable convenient travel as part of daily activities, improve the public welfare by addressing a wide array of health and environmental problems, and meet the needs of all users of the streets, including children, older adults, and people with disabilities.

**Sec. [ \_\_\_\_ (\*2) ]. DEFINITIONS.** The following words and phrases, whenever used in this [-article-/chapter], shall have the meanings defined in this section unless the context clearly requires otherwise:

(a) "Complete Streets Infrastructure" means design features that contribute to a safe, convenient, or comfortable travel experience for Users, including but not limited to features such as: sidewalks; shared use paths; bicycle lanes; automobile lanes; paved shoulders; street trees and landscaping; planting strips; curbs; accessible curb

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

ramps; bulb outs; crosswalks; refuge islands; pedestrian and traffic signals, including countdown and accessible signals; signage; street furniture; bicycle parking facilities; public transportation stops and facilities; transit priority signalization; traffic calming devices such as rotary circles, traffic bumps, and surface treatments such as paving blocks, textured asphalt, and concrete; narrow vehicle lanes; raised medians; and dedicated transit lanes[, as well as other features such as insert other accommodations if desired] [, and those features identified in insert name of Municipality's Pedestrian/Bicycle Master Plan if it exists].

(b) "Street" means any right of way, public or private, including arterials, connectors, alleys, ways, lanes, and roadways by any other designation, as well as bridges, tunnels, and any other portions of the transportation network.

(c) "Street Project" means the construction, reconstruction, retrofit, maintenance, alteration, or repair of any Street, and includes the planning, design, approval, and implementation processes [, except that "Street Project" does not include minor routine upkeep such as cleaning, sweeping, mowing, spot repair, or interim measures on detour routes] [and does not include projects with a total cost of less than \$[\_\_\_\_]].

(d) "Users" mean individuals that use Streets, including pedestrians, bicyclists, motor vehicle drivers, public transportation riders and drivers, [insert other significant local users if desired, e.g. drivers of agricultural vehicles, emergency vehicles, or freight] and people of all ages and abilities, including children, youth, families, older adults, and individuals with disabilities.

**Sec. ~~1~~ (3). REQUIREMENT OF INFRASTRUCTURE ENSURING SAFE TRAVEL.**

(a) [~~Insert appropriate agencies, such as Department of Transportation, Department of Public Works, Department of Planning-~~] shall make Complete Streets practices a routine part of everyday operations, shall approach every transportation project and program as an opportunity to improve public ~~and private~~ private Streets and the transportation network for all Users, and shall work in coordination with other departments, agencies, and jurisdictions to achieve Complete Streets.

(b) Every Street Project on public [~~or private-~~] Streets shall incorporate Complete Streets Infrastructure sufficient to enable reasonably safe travel along and across the right of way for each category of Users; provided, however, that such infrastructure may be excluded, upon written approval by [~~insert senior manager, such as City Manager or the head of an appropriate agency-~~], where documentation and data indicate that:

- (1) Use by non-motorized Users is prohibited by law;
- (2) The cost would be excessively disproportionate to the need or probable future use over the long term;
- (3) There is an absence of current or future need; or
- (4) Inclusion of such infrastructure would be unreasonable or inappropriate in light of the scope of the project.

(c) As feasible, [Municipality] shall incorporate Complete Streets Infrastructure into existing public [and private] Streets to improve the safety and convenience of Users, construct and enhance the transportation network for each category of Users, and create employment.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

(d) If the safety and convenience of Users can be improved within the scope of pavement resurfacing, restriping, or signalization operations on public [or private] Streets, such projects shall implement Complete Streets Infrastructure to increase safety for Users.

(e) [Insert appropriate agencies, such as Department of Transportation, Department of Public Works, Department of Planning] shall review and either revise or develop proposed revisions to all appropriate plans, zoning and subdivision codes, laws, procedures, rules, regulations, guidelines, programs, templates, and design manuals, including [insert name of Municipality's comprehensive plan equivalent as well as all other key documents by name], to integrate, accommodate, and balance the needs of all Users in all Street Projects on public [and private] Streets.

(f) In design guidelines, [insert appropriate agencies] shall coordinate templates with street classifications and revise them to include Complete Streets Infrastructure, such as bicycle lanes, sidewalks, street crossings, and planting strips.

(g) Trainings in how to integrate, accommodate, and balance the needs of each category of Users shall be provided for planners, civil and traffic engineers, project managers, plan reviewers, inspectors, and other personnel responsible for the design and construction of Streets.

**Sec. ~~F~~\_\_\_\_ (\*4)H]. DATA COLLECTION, STANDARDS, AND PUBLIC INPUT.**

(a) [Insert appropriate agency or agencies] shall collect data measuring how well the Streets of [Municipality] are serving each category of Users.

(b) [Insert appropriate agency or agencies] shall put into place performance standards with measurable benchmarks reflecting the ability of Users to travel in safety and comfort.

(c) [Insert appropriate agency or agencies] shall establish procedures to allow full public participation in policy decisions and transparency in individual determinations concerning the design and use of Streets.

(d) [Insert appropriate agency, agencies, or official] shall implement, administer, and enforce this ~~article~~article / chapter]. [Agency] is hereby authorized to issue all rules and regulations consistent with this [-article-/chapter] and shall have all necessary powers to carry out the purpose of and enforce this [-article-/chapter].

(e) All initial planning and design studies, health impact assessments, environmental reviews, and other project reviews for projects requiring funding or approval by [Municipality] shall: (1) evaluate the effect of the proposed project on safe travel by all Users, and (2) identify measures to mitigate any adverse impacts on such travel that are identified.

**Sec. ~~F~~\_\_\_\_ (\*5)H]. FURTHER STEPS.**

(a) The head of each affected agency or department shall report back to the [Adopting body] [annually / within one year of the date of passage of this Ordinance] regarding: the steps taken to implement this Ordinance; additional steps planned; and any desired actions that would need to be taken by [Adopting body] or other agencies or departments to implement the steps taken or planned.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

(b) A committee is hereby created, to be composed of [insert desired committee composition] and appointed by [the Mayor / President of adopting body / other], to forward [Municipality]'s implementation of Complete Streets practices by: (i) addressing short-term and long-term steps and planning necessary to create a comprehensive and integrated transportation network serving the needs of all Users; (ii) assessing potential obstacles to implementing Complete Streets practices in [Municipality]; (iii) if useful, recommending adoption of an [Ordinance / internal policy / other document] containing additional steps; and (iv) proposing revisions to the [insert name of Municipality's comprehensive plan equivalent], zoning and subdivision codes, and other applicable law to integrate, accommodate, and balance the needs of all Users in all Street Projects. The committee shall report on the matters within its purview to the [Adopting body] within one year following the date of passage of this Ordinance.

(c) [The committee shall also consider requiring incorporation of Complete Streets modifications and Complete Streets Infrastructure in Street Projects, as well as requiring all initial planning and design studies, health impact assessments, environmental reviews, and other project reviews for infrastructure projects requiring funding or approval by [Municipality] to: (1) evaluate the effect of the proposed project on safe travel by all Users, and (2) identify measures to mitigate any adverse impacts on such travel that are identified.]

**SECTION III. STATUTORY CONSTRUCTION & SEVERABILITY.**

(a) This Ordinance shall be construed so as not to conflict with applicable federal or state laws, rules, or regulations. Nothing in this Ordinance authorizes any City agency to impose any duties or obligations in conflict with limitations on municipal authority established by federal or state law at the time such agency action is taken.

(b) In the event that a court or agency of competent jurisdiction holds that a federal or state law, rule, or regulation invalidates any clause, sentence, paragraph, or section of this Ordinance or the application thereof to any person or circumstances, it is the intent of the Ordinance that the court or agency sever such clause, sentence, paragraph, or section so that the remainder of this Ordinance remains in effect.

(c) In undertaking the enforcement of this Ordinance, [Municipality] is assuming only an undertaking to promote the general welfare. It is not assuming, nor is it imposing on its officers and employees, an obligation through which it might incur liability in monetary damages to any person who claims that a breach proximately caused injury.

## Appendix F | Sample Street Cross-sections

This appendix provides sample street cross-sections for the City of Wauwatosa. The following caveats and assumptions apply to all of the cross-sections:

- Bike lanes added to all cross-sections. Where parking was provided, it was provided on both sides. Realistically, parking could be provided on just one side of a street providing space for bicycle lanes on both sides.
- Both standard cross-sections and minimum cross-sections were provided below. The standard cross-sections are commonly used for new streets. The minimum cross-sections are best suited for reconstructed or retrofitted streets where existing constraints exist. Even with the minimum cross-sections streets, there are perhaps small ways to further reduce the cross-section width (see discussion below on use of 10' wide travel lanes).
- Speed, separation, volume of traffic, and the amount of parked autos (and parking turnover) all have an impact on level of service for bicyclists. Generally, the lower the speeds, volumes, and parking, the more acceptable it is to use the minimum cross-sections.
- Even under the standard cross-sections, wider bicycle lanes widths should be considered when posted speeds increase to 35 mph and above.
- Cross-sections are provided from right-of-way line to right-of-way line. This includes the tree terrace, sidewalk, and a one foot buffer between the sidewalk and private property. In many cases for the minimum cross-sections, the tree terrace was reduced to 4' including the curb head. This is tight especially for tree growth and snow storage and might be especially undesirable when there are no parking lanes.
- Ten foot travel lanes were used in many of the multi-lane minimum cross-sections for inner lanes. Eleven foot travel lanes were used when placed next to minimum width bicycle lanes (with and without parking). When a bicycle lane and a parking lane together are 12' in width, then an 11' travel lane was used. Alternatively, but not depicted in the cross-sections, a 10' travel lane can be used next to the bicycle lane when the bicycle lane and parking lane together are measured at 13'. For a 2 lane street with parking, the curb to curb width becomes 46' under these conditions. A 44' curb-to-curb cross-section is often acceptable using 10' travel lanes, 5' bicycle lanes, and 7' parking lanes especially when used on collector streets and lower volume arterial streets when speeds are low (posted 25 or 30 mph) and parking turnover is low or there is a low percentage of parked autos.
- Widths are shown including the gutters. Where 5' bicycle lanes are shown next to curbs, there needs to 4' of usable bike lane width void of gutter joints. There are several means of accomplishing this but they involve new construction or reconstruction.
- All cross-sections were created using Streetmix: <http://streetmix.net>

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

**Non-divided roadway, single travel lane each direction, bike lanes, without parking.**

*Standard Cross-section:*



Note: 66' right-of-way shown

*Minimum Cross-section:*



Note: Minimum curb to curb cross-section shown, but with a 66' right-of-way. On low speed collectors, it may be acceptable to have 10' travel lanes next to 5' or 6' bike lanes.

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

**Non-divided roadway, single travel lane each direction, bike lanes, with parking.**

*Standard Cross-section:*



Note: 72' right-of-way shown.

*Minimum Cross-section:*



Notes: 66' right-of-way shown with a curb-to-curb width of 46'. A 44' curb-to-curb cross-section is often acceptable using 10' travel lanes, 5' bicycle lanes, and 7' parking lanes especially when used on collector streets and lower volume arterial streets when speeds are low (posted 25 or 30 mph) and parking turnover is low or there is a low percentage of parked autos.

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

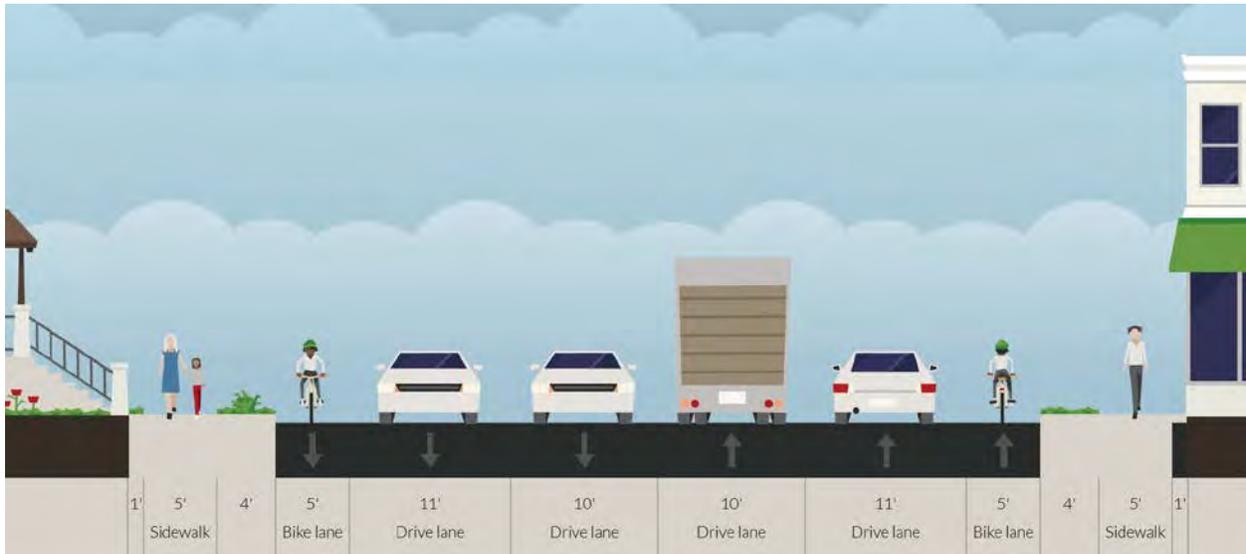
**Non-divided roadway, two travel lanes each direction, bike lanes, without parking.**

*Standard Cross-section:*



Note: 80' Right-of-way shown.

*Minimum Cross-section*



Note: 72' right-of-way shown.

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

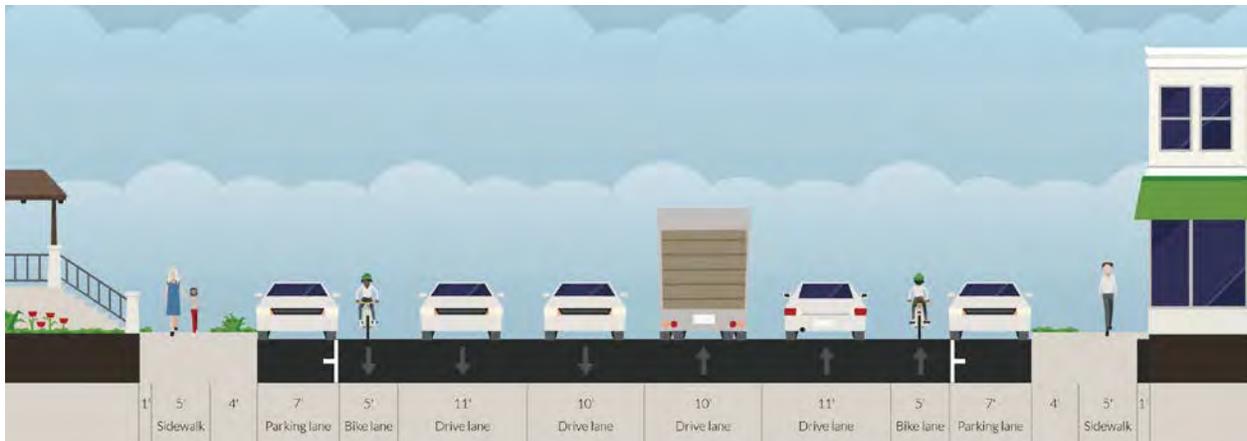
**Non-divided roadway, two travel lanes each direction, bike lanes, with parking.**

*Standard Cross-section:*



Note: 94' Right-of-way shown.

*Minimum Cross-section:*



Note: 86' right-of-way shown.

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/2014

**Divided roadway, two travel lanes each direction, bike lanes, without parking.**

*Standard Cross-section*



Note: 100' Right-of-way shown.

*Minimum Cross-section:*



Note: 86' Right-of-way shown.

City of Wauwatosa Bicycle & Pedestrian Facilities Plan

DRAFT 1/27/14

Divided roadway, two travel lanes each direction, bike lanes, with parking.

Standard Cross-section:



Note: 114' right-of-way shown

Minimum Cross-section:



Note: 102' right-of-way shown

Attachment: Wauwatosa Bike and Ped Plan - FINAL DRAFT - 01-28-14 (1949 : Bike/Ped Plan)

**Laura Marquardt**

---

**From:** Jeffrey Roznowski  
**Sent:** Tuesday, February 04, 2014 3:39 PM  
**To:** Kathleen Ehley; Tamara Szudy  
**Subject:** FW: Bike/Ped plan and Sidewalks

input for Plan Commission

fyi: I met with Eisenhower parents last night, urged them to become involved in the upcoming bike/ped meetings and if they sent any input to me, I would provide it to you for the Plan Commissioners

Jeff

Jeff Roznowski  
 6th District Alderman - City of Wauwatosa  
 Phone: 414-258-0633  
 Mobile: 414-803-9500

---

**From:** Jason Kauflin [kauflin29@gmail.com]  
**Sent:** Tuesday, February 04, 2014 3:28 PM  
**To:** Jason Wilke; Craig Wilson; Jeffrey Roznowski  
**Subject:** Bike/Ped plan and Sidewalks

I am unable to attend the Planning Commission meeting on February 10th. I would certainly like to be there to express my opinion on the changes to the Bike/Ped plan. Please accept this email as my position on the topic of sidewalks being a part of the overall Bike/Ped plan.

I, Jason Kauflin, believe that any child who lives within walking distance of their school, and wishes to walk to school, should be provided with (within reason) a safe route to do so.

I am not PRO-SIDEWALKS. I am PRO-SAFE ROUTES TO SCHOOL. If it can be determined that certain streets in Wauwatosa are main arteries for kids presently walking to school, then that street should be made safe for kids to pass if it is not presently.

If anyone involved can come up with a better solution than a sidewalk on these particular streets, I am all for it. But until an alternative is presented to me, I am 100% for sidewalks in strategic locations around Wauwatosa schools that do not have them.

Two examples from my experience.

If child lives a block off of 116th Street near North Avenue and wants to walk to Eisenhower Elementary, that child should not be walking in the street with 2 way, busy traffic on 116th Street to get to school.

If a child lives near 113th and Glendale Avenues (a mere three blocks from school), then that child should not be walking in the street with 2-way, busy traffic on Glendale Avenue to get to school.

Thank you for your time.

Jason Kauflin  
 4124 N. 110th Street  
 Wauwatosa, WI 53222

Attachment: Jason Kauflin email 2-4-14 (1949 : Bike/Ped Plan)

## Laura Marquardt

---

**From:** David Roberts [droberts08@att.net]  
**Sent:** Sunday, February 09, 2014 8:02 PM  
**To:** Tamara Szudy  
**Subject:** Bike & Pedestrian Plan - Final Draft

Tammy -

I read the final version of the proposed Bike & Pedestrian Plan and was encouraged by its moderating tone. Thank you. I was encouraged, too, by the Plan Commission's desire for more public participation. Unfortunately, health issues will prevent me from attending Monday night's meeting, but I would like to share some thoughts with the Commission.

The initial plan appeared to be a boiler-plated solution in search of a problem...eliminating hunger and achieving world peace...without a more forthright acknowledgement of a perceived problem, issues analysis and proposed solutions (with alternatives).

While any effort to make Wauwatosa an even more bike or walking "friendly" community is laudable, I think there needs to be a reality check. From my experience, both living in many parts of the US and in several foreign countries, walking/biking is an acceptable form of regular transportation when people live in immediate proximity to business districts and/or places of employment. From my experience, grocery shopping, for example, is a daily task, often at a market within a block or two from home. Public transportation is extensive and inexpensive. People spend their entire lives in a small neighborhood where all of their needs can be met. Achieving a significantly higher usage of bicycles (or walking) will require more than bike lanes and new sidewalks. Since Wauwatosa doesn't have a "continuous" business district, people will have to ride or walk to Sendik's on a daily basis; a week's worth of groceries are not going to fit in a bike basket. WestSiders, with a sudden taste for a Hoytie Toytie from Cranky Al's will need to plan of a two-hour excursion. Achieving the idyllic environment that some may be hoping for will take more than signs of sidewalks. All that said, striving to make Wauwatosa an even better place to live is worth the effort, buty with realistic expectations.

Wauwatosa is a stronger city in its diversity — in population, in education and in its range of distinct neighborhoods. The original draft plan, as well the modified version, states that “Investing in bicycle and pedestrian infrastructure is a key strategy for revitalizing and improving neighborhoods.” Without pitting one neighborhood against another, I would argue that residents in Mayfair Park, for example, chose to pay a premium for a quiet, less-dense neighborhood with a semi-rural, almost “ex-urban” feel. I doubt if many feel that their neighborhood needs to be “revitalized”.

Neither draft appears to have any sound measurement criteria. While there are goals for “improvement”, there is little in the way of baseline measurement, nor criteria for “success” measurement, other than spending money. to the issue of commuting to work by means other than a car, for example:

- What is the average commuting distance for all workers in Wauwatosa?
- How many people walk and/or bicycle to work today?
- Where do they live (neighborhood) and where do they work (neighborhood)?
- Of those who work at the same facility(s), what prevents them for walking/riding?
- How will additions or subtractions be measured?
- What cost/benefit ratio is acceptable?

While the original draft and the later version both address the issue of some school children living east of the Menominee Parkway safely getting to Whitman and West High schools, I would argue that installing sidewalks on Meineke or Woodland Ct. is not going to solve that. Nor, for that matter, would installing sidewalks within a 2-block radius of the schools necessarily change anything.

Whether young or old, crossing the Menominee Parkway is an obstacle; crossing the ever-expanding Mayfair Road corridor is a life-threatening adventure. And, whether retrofitted with multiple underpasses or fly-overs on Mayfair Road, pedestrians and/or bicyclists will still have to contend with high-volume commercial traffic on the connectors and US 45 entrances/exits.

I would encourage both the Plan Commission and City Council to better define the problem(s), supported by data, and prioritize potential solutions.

Thanks, again. Please share, if you can, these thoughts with the members of the Plan Commission.

Dave Roberts  
2468 N 117th St  
414 412 0591

## Aiken & Scoptur, S.C.

Attorneys At Law  
2600 North Mayfair Road  
Suite 1030  
Milwaukee, Wisconsin 53226

Timothy J. Aiken  
Paul J. Scoptur  
James P. Scoptur

Telephone: (414) 225-0260  
Facsimile: (414) 225-9666

Paralegals:  
Linda S. Warner  
Erin E. Kandziora  
Eileen M. Larson  
Sara Johnson

Of Counsel:  
Law Offices of Vince Megna  
Vincent P. Megna  
Susan M. Grzeskowiak \*  
E-Mail:  
vince@aikenandscoptur.com

Website: [www.aikenandscoptur.com](http://www.aikenandscoptur.com)  
E-Mail: [info@plaintiffslaw.com](mailto:info@plaintiffslaw.com)

\* Licensed in Wisconsin and  
Arizona

February 7, 2014

City of Wauwatosa-  
Bicycle & Pedestrian Facilities Plan Commission

Re: Proposed Bike/Walk Plan; Hearing on Monday February 10, 2014

To Whom It May Concern:

I urge you to adopt the proposed Bicycle and Pedestrian Plan being put forth on Monday, February 10, 2014.

I have lived in Wauwatosa for almost 30 years-- my entire life. In that time I have seen many developments come and improve the area, which is great. However, Wauwatosa has become a greater corridor for people travelling to downtown or from downtown to Brookfield/Waukesha. It has become congested.

That said more and more people in the Wauwatosa area are riding a bike/ walking for shopping and errands, and encouraging their kids to do so as well. This is not only great for an individual's overall well being, but for the local community as biking and walking ensures money spent by these individuals stays in the local area. I remember reading a statistic that most errands are within 3 miles of an individual's home.

This is especially true for me. I live on Jackson Park and work at the North Tower at Mayfair. I commute by bike to work and bike or walk do most errands. There are many areas in Wauwatosa that are "high-traffic" for cyclists and pedestrians, but do not have adequate protections for them, or routes have to be altered because the direct route is not the safest.

I believe the Plan addresses many, not all, but many of these issues. When I married and started a family, we thought about moving outside of Wauwatosa. But we could not do it. We stayed in Wauwatosa because of the community, because of the ability to walk our kids to the library, the village, and Hart Park. My wife and I could bike to work, and all we needed was roughly within a 1.5-mile radius. This plan strengthens the reasons we wanted to stay and raise a

Attachment: James Scoptur support letter 2-7-14 (1949 : Bike/Ped Plan)

family in Wauwatosa. It allows cyclists and pedestrians' better and safer access to the city itself, which will in turn promote the local stores of Wauwatosa.

With all Wauwatosa has to offer and will continue to offer, as a residential area, a community and a business hub, cycling and walking in the area will only continue to grow. It is important Wauwatosa fosters this, plans for this, and provides safe and effective routes for cyclists and pedestrians in this city.

Again, I urge the Commission to adopt the Plan. I thank you in advance for taking the time to read this letter and for taking it into consideration when the vote is made.

Very truly yours,



James P. Sceptur  
[james@aikenandsceptur.com](mailto:james@aikenandsceptur.com)

**Laura Marquardt**

---

**From:** Long, D. Stephen [d.stephen.long@marquette.edu]  
**Sent:** Saturday, February 08, 2014 8:15 AM  
**To:** Tamara Szudy  
**Subject:** Bike plan

Dear Ms. Szudy,

I am a Wauwatosa resident who moved here three years ago. I looked at homes in Whitefish Bay and elsewhere, but one of the reasons I moved here was because of the cycling community. My realtor told me about the Spokesmen and the trails. Cycling here is a great way to set our community apart from others. I am asking you to support the proposed Bike Plan to make it even better.

Thank you,  
D. Stephen Long

Attachment: Stephen Long support email 2-8-14 (1949 : Bike/Ped Plan)

**Laura Marquardt**

---

**From:** Stephen H Smith [shsmith@ra.rockwell.com]  
**Sent:** Monday, February 10, 2014 10:02 AM  
**To:** Carla Ledesma; Tamara Szudy  
**Subject:** Please support: Bicycle & Pedestrian plan

As a Wauwatosa resident, our family has grown to appreciate many conveniences the city has to offer, not the least of which is the easy access to so many activities.

Walking and bicycling has become the preferred method to reach all the best Wauwatosa has to offer. The compact design of the area and the unique architectural aspects make walking and bicycling all the more joyful.

As the population and demands on the infrastructure become greater, however, we are concerned that our safety will be compromised. It is not uncommon to be "buzzed" by distracted motorists whilst on these travels.

I encourage you to continue to support the visionary ideas that make the city a safe place to traverse while on foot or pedal. Safe streets and sidewalks make this an area of the city we are proud to call home.

Best regards

Steve Smith  
2637 N. 96th St.  
Wauwatosa, 53226

Attachment: Stephen Smith Support email 2-10-14 (1949 : Bike/Ped Plan)

**Laura Marquardt**

---

**From:** Kevin Luecke [kluecke@tooledesign.com]  
**Sent:** Monday, February 10, 2014 10:50 AM  
**To:** Paulette Enders; Thomas Huber; Jennifer Ferguson; Tamara Szudy  
**Subject:** RE: Online Form Submittal: Contact Economic Development Division

Thank you Paulette. The plan does not specifically call out users with disabilities, but it does clearly call for meeting standard design guidance for all paths, trails and sidewalks in the city. All current design guidance meets ADA guidelines and helps insure mobility for people with disabilities. Ms. Alexander is correct that mobility is a major problem for people with disabilities, particularly during the winter. Hopefully this plan will increase mobility options for all users in the city.

Kevin

**Kevin Luecke**  
 Transportation Planner

**Toole Design Group**  
 16 North Carroll Street, Suite 730  
 Madison, WI 53703  
 kluecke@tooledesign.com  
 608.663.8081

[www.tooledesign.com](http://www.tooledesign.com)

Toole Design Group is a Woman Owned Business and is recognized as a Bicycle-Friendly Business

follow us: [Twitter](#) | [Facebook](#) | [LinkedIn](#)

---

**From:** Paulette Enders <penders@wauwatosa.net>  
**Sent:** Monday, February 10, 2014 10:44 AM  
**To:** Thomas Huber; Kevin Luecke; Jennifer Ferguson; Tamara Szudy  
**Subject:** FW: Online Form Submittal: Contact Economic Development Division

FYI

Paulette Enders, EDFP  
 Development Director  
 7725 W. North Avenue  
 Wauwatosa, WI 53213  
 414-479-3531 (Direct)  
 414-479-3532 (Fax)  
[www.wauwatosa.net](http://www.wauwatosa.net)

---

**From:** noreply@civicplus.com [mailto:noreply@civicplus.com]  
**Sent:** Monday, February 10, 2014 9:33 AM  
**To:** Matthew Schreiber; Paulette Enders  
**Subject:** Online Form Submittal: Contact Economic Development Division

Attachment: Julie Alexander email with response 2-10-14 (1949 : Bike/Ped Plan)

If you are having problems viewing this HTML email, click to view a [Text version](#).

## Contact Economic Development Division

### Contact Information

|                     |  |
|---------------------|--|
| Name: *             | Julie Alexander  |
| Address: *          | 7224 W State Street, #1A   |
| City: *             | Wauwatosa  |
| State: *            | WI   |
| Zip Code: *         | 53213  |
| Telephone Number: * | 414-607-6884   |
| Email: *            | <a href="mailto:jalexander@independencefirst.org">jalexander@independencefirst.org</a> |

### Questions or Comments

**An Email will be sent to the following department, division, or section:\*** [Economic Development \/]

Please leave your comments or questions below: \*

I have reviewed your plans for bike and pedestrian trails. I have not seen any mention of individuals with disabilities living in Wauwatosa and/or their needs for accessibility. There are quite a few individuals with disabilities in the Wauwatosa area. They use walking paths and can ride bikes. I am hoping that any plans that are approved would provide bike ways and pathways that are wide enough to accomodate individuals who are using mobility devices to assist them with walking and getting around in Wauwatosa. Also it is very important to have appropriate signage and stoplights etc. so that individuals of any ability or disability can easily use these pathways in Greenways or on busy streets. I applaud the city for taking up such a project. I am hoping that it is completed correctly. Please contact me or the committee I head, The Wauwatosa Committee for Citizens with disabilities for further advice and comments. Unfortunately I and my committee members cannot attend the hearing tonight.

\* indicates required fields.

The following form was submitted via your website: Contact Economic Development Division

Name:: Julie Alexander

Address:: 7224 W State Street, #1A

City:: Wauwatosa

State:: WI

Zip Code:: 53213

Telephone Number:: 414-607-6884

Email:: [jalexander@independencefirst.org](mailto:jalexander@independencefirst.org)

An Email will be sent to the following department, division, or section:: Economic Development

Please leave your comments or questions below:: I have reviewed your plans for bike and pedestrian trails. I have not seen any mention of individuals with disabilities living in Wauwatosa and/or their needs for accessibility. There are quite a few individuals with disabilities in the Wauwatosa area. They use walking paths and can ride bikes. I am hoping that any plans that are approved would provide bike ways and pathways that are wide enough to accomodate individuals who are using mobility devices to assist them with walking and getting around in Wauwatosa. Also it is very important to have appropriate signage and stoplights etc. so that individuals of any ability or disability can easily use these pathways in Greenways or on busy streets. I applaud the city for taking up such a project. I am hoping that it is completed correctly. Please contact me or the

committee I head, The Wauwatosa Committee for Citizens with disabilities for further advice and comments. Unfortunately I and my committee members cannot attend the hearing tonight.

Additional Information:

Form submitted on: 2/10/2014 9:32:37 AM

Submitted from IP Address: 66.162.229.125

Referrer Page: <http://www.wauwatosa.net/index.aspx?NID=278>

Form Address: <http://www.wauwatosa.net/Forms.aspx?FID=53>

**Laura Marquardt**

---

**From:** Mary M Roberts [mary.roberts123@att.net]  
**Sent:** Monday, February 10, 2014 1:47 PM  
**To:** Kathleen Ehley; tplanning  
**Cc:** Don Birschel; Cheryl Berdan  
**Subject:** sidewalks

Dear Mayor Ehley and Plan Commission Members:

My name is Mary Roberts. I live at 2468 N. 117th Street in Wauwatosa. I am not able to attend tonight's Plan Commission meeting, but I wanted to share my thoughts on the proposed Bike and Pedestrian Plan.

My husband and I moved here from Connecticut about six years ago to be closer to our daughter and granddaughter. We chose the Mayfair Park neighborhood because we wanted something similar to our previous home in a densely-wooded part of Connecticut, but we wanted to be in Wauwatosa to be close to family, the Menomonee River and the excellent medical care available at Froedtert Hospital. Thanks to the diversity in neighborhoods in Wauwatosa, we were able to find a home that met our needs.

I appreciate the work of Alders Cheryl Berdan and Don Birschel to share the concerns of our neighborhood with Bike and Pedestrian Facilities Plan Steering Committee members. The steering committee's willingness to address many of our concerns and encourage greater public participation clearly reflect the shared values of our community.

I am a regular walker in my neighborhood and I understand the desire of city officials to enhance the walkability of our community and make it safer for bike riders. At the same time, I did not feel that the original plan met the needs of the diverse neighborhoods in our city. The revised plan appropriately recognizes this diversity.

Thank you for your attention to this issue.

Sincerely,

Mary Roberts

Attachment: Mary Roberts email 2-10-14 (1949 : Bike/Ped Plan)

February 11, 2014

Dear Planning Commission Member,

I am writing this letter regarding the newly created (T) intersection of Innovation Parkway and Swan Boulevard. Historically the surrounding area including the former Milwaukee County Grounds and the newly created DNR Woods did not have paths for pedestrians. Along with the construction of the MMSD storm water retention basins, paths were created for pedestrians surrounding the basins on both sides of Swan Boulevard.

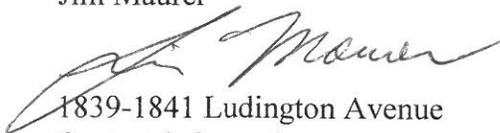
The new economic development corridor, proposed pedestrian sidewalk(s) alongside Swan Boulevard and access to the Butterfly Trail have and will allow further expansion of pedestrian and bicycle traffic. It is my concern that there be provided safe, secure and convenient crossing from one side of Swan Boulevard to the other.

I am lead to believe that a proposed "roundabout" be constructed at the newly created intersection of Innovation Parkway and Swan Boulevard. Although I personally favor the slow but steady pace that roundabouts provide, the four lanes on Swan Boulevard pose a potential pedestrian and bicycle safety challenge. Please consider the following: "Multi-lane roundabouts present some challenges to pedestrians, thus reducing the safety effects that roundabouts provide.". This according to bicyclinginfo.org, Pedestrian and Bicycle Information Center website which is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the Pedestrian and Bicycle Information Center within the University of North Carolina Highway Safety Research Center. Please see attached printout.

In regard to the decades old concern about speeding traffic through the residential area North of Menomonee River Parkway on Swan Boulevard, please consider a lowering of the speed limit, speed limit enforcement or well placed stop signs to address this concern.

North South access to and from Watertown Plank Road and North Avenue is limited to: The Harmony Bridge, Swan Boulevard and Highway 100 (Mayfair Road). These streets serve as the only corridors and heavy traffic is to be expected as the population increases. Therefore seeking well informed, common sense solutions that accommodate automobile, bicycle and pedestrian traffic safety is vital to making these planning decisions.

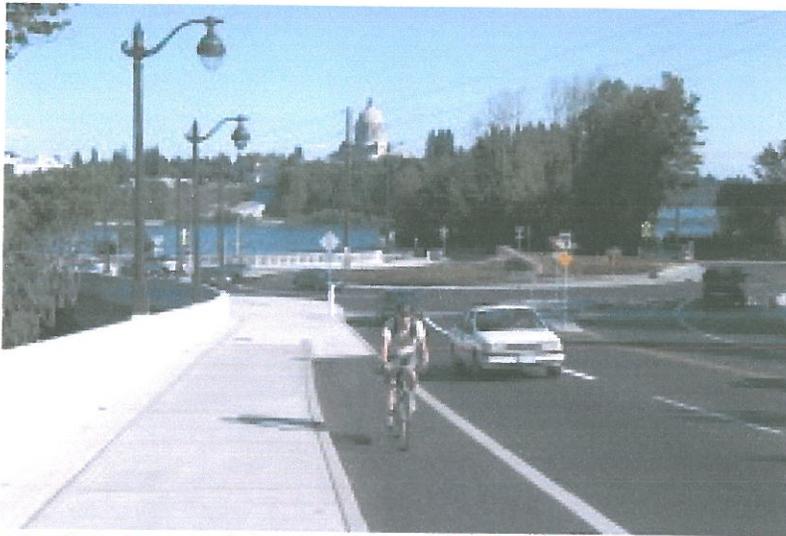
Sincerely,  
Jim Maurer



1839-1841 Ludington Avenue  
Contact information,  
3707 West Kilbourn Avenue  
414-933-4558  
coolstuf45@sbcglobal.net

Attachment: Jim Maurer letter 2-11-14 (1949 : Bike/Ped Plan)

Modern roundabouts by their design require motorists to slow down typically to less than 25 mph (40 km/h), and preferably 15 mph (25 km/h) to proceed through the intersection. The literature shows that, given a properly designed single-lane roundabout, motorist and pedestrian safety is almost always improved when compared to conventional intersections. Results regarding cyclist safety are somewhat mixed. Roundabouts have fewer conflict points and lower speeds compared to conventional intersections, resulting in a significant overall reduction in the severity of crashes for all users, although the frequency of some crashes may increase. ***Multi-lane roundabouts present some challenges to pedestrians, thus reducing the safety effects that roundabouts provide.***



A bicyclist navigates a roundabout on a bridge in Olympia, Washington. Ramps allow bicyclists to act as pedestrians as well as vehicles.  
 Photo: Dan Burden, from [www.pedbikeimages.org](http://www.pedbikeimages.org).

As with conventional intersections, a cyclist using a roundabout can proceed either as a motor vehicle or as a pedestrian using the sidewalk and marked crosswalks. If proceeding as a motor vehicle, merging with traffic is required at the entry. This may take some skill and judgment but is not unlike traveling through a conventional intersection. Motorists must detect cyclists upon entry, circulating and exiting so as not to merge into or turn in front of them. ***As with complex intersections with multiple turn lanes, a multi-lane roundabout also becomes more difficult for cyclists to traverse. (cont'd next page)***

[Another good source: <http://www.walkinginfo.org/faqs/answer.cfm?id=3454>\*  
 \*This site is funded by the U.S. Department of Transportation Federal Highway Administration and maintained by the Pedestrian and Bicycle Information Center within the University of North Carolina Highway Safety Research Center. Please read our Usage Guidelines]



Splitter islands allow pedestrians to cross one direction of traffic at a time.  
Photo: [www.pedbikeimages.org](http://www.pedbikeimages.org).

The splitter islands at roundabouts allow pedestrians to cross one direction of traffic at a time. This is a significant advantage over conventional intersections. If motorists do not yield to pedestrians at the crosswalk, pedestrians must select a gap in traffic before crossing. If traffic flow is continuous, choosing a gap may become problematic. At multi-lane roundabouts, the nearside vehicle may yield to pedestrians, but traffic in the adjacent lane may not stop, exposing the crossing pedestrians to a potential crash as they proceed through the first lane into the adjacent.

People who are visually impaired must be able to detect where and when to cross, be able to stay in the crossing area, and detect and exit the crossing. Properly designed and installed curb ramps and warning devices at the sidewalk sides of the crossing and in the splitter island aligned with the crosswalks can help address detecting where to cross and exit. The alignment along with highly visible crosswalk markings can assist pedestrians in staying in the crossing. However, detecting when to cross can be a challenge, particularly for multi-lane roundabouts or roundabouts with continuous traffic flow. Studies are being done to consider devices to create a gap in traffic flow or help people with vision impairments select a gap.

***In summary, single-lane roundabouts, in particular, can work well for most cyclists and pedestrians*** if properly designed and implemented. Lower operating speeds compared to conventional intersections reduce the overall severity of crashes that do occur. ***Multi-lane roundabouts that would be found on multi-lane roadways are not going to make these corridors work better for cyclists or pedestrians***, but their lower operating speeds have some advantage. More work is required to ensure that people who are visually impaired can be well-accommodated at roundabouts.

Carla Ledesma

**From:** Kathleen Ehley  
**Sent:** Wednesday, February 12, 2014 11:44 PM  
**To:** Michael Cape  
**Cc:** Carla Ledesma  
**Subject:** Re: Please Approve Tosa Bike/Ped Plan Tonight 2/10

Michael,  
 Thank you for you your comments. It will be included with other messages and comments on the bike ped plan approval process. Please make sure to follow the schedule of meetings for this item and, if possible attend the meetings at which the public can comment.

Sincerely,

Mayor Kathy Ehley

It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman

> On Feb 10, 2014, at 3:43 PM, "Michael Cape" <mfcap@gmail.com> wrote:

>

> Dear Mayor Ehley,

>

> I'm a resident of Wauwatosa's northwest side. I urge you to strongly  
 > consider approval of the updated bike and pedestrian plan proposed for  
 > the city.

>

> A healthy and vibrant Wauwatosa will depend on these facilities. As a  
 > homeowner in the Park Ridge neighborhood, it's exciting to learn about  
 > the planned reconstruction of the Menomonee River Parkway which is  
 > clearly desperate for repair. Concurrent with the roadway  
 > improvements, a modernized bike/ped plan will support Wauwatosa's  
 > active and diverse suburban community. Providing a safe connection  
 > between our neighborhoods and their shared jewels including Hart and  
 > Hartung Parks, the Village, Hoyt Pool, and miles of Menomonee River  
 > green space will be a valuable asset for years to come.

>

> Please take advantage of this great opportunity to significantly  
 > improve the quality of life available to all Wauwatosa residents. I  
 > appreciate your consideration.

>

> Sincerely,

>

> Michael Cape  
 > 10137 W. Sunset Avenue  
 > Wauwatosa, WI 53222  
 > 414-466-3213

**Carla Ledesma**

---

**From:** Kathleen Ehley  
**Sent:** Wednesday, February 12, 2014 11:47 PM  
**To:** Nicole Penegor  
**Cc:** Carla Ledesma  
**Subject:** Re: Tosa Bike/Ped Plan

Nicole,  
Thank you for your communication. We will enter is in the record. I encourage you to continue to follow the meeting schedule for the approval process of the plan and attend as many of the public hearing and community development committee meetings at which you can provide addition support.

Sincerely,  
Mayor Kathy Ehley  
It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman

On Feb 10, 2014, at 2:43 PM, "Nicole Penegor" <[npenegor@gmail.com](mailto:npenegor@gmail.com)> wrote:

Hello-  
I am writing to voice my support for the Bike/Ped plan to move forward. We need more attention to safe Bike and pedestrian routes in our community.

Thank you.  
Nicole Penegor  
10137 W. Sunset Avenue  
Wauwatosa WI 53222

Carla Ledesma

---

**From:** Kathleen Ehley  
**Sent:** Wednesday, February 12, 2014 11:39 PM  
**To:** Carla Ledesma  
**Subject:** Fwd: Bike/ped plan communication

Please include

Kathy Ehley  
It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman

Begin forwarded message:

**From:** Eric <[bikepoloeric@gmail.com](mailto:bikepoloeric@gmail.com)>  
**Date:** February 10, 2014 at 4:36:40 PM CST  
**To:** "[kehley@wauwatoso.net](mailto:kehley@wauwatoso.net)" <[kehley@wauwatoso.net](mailto:kehley@wauwatoso.net)>  
**Subject:** Bike/ped plan

please consider approving this project! I tavel everywhere in Tosa via bicycle including work and especially the farmers market and would benefit greatly with more bike friendly routes! I am unable to attend the meeting this evening.

- Eric Fowler  
11008 W Ruby ave

Carla Ledesma

**From:** Kathleen Causier  
**Sent:** Monday, February 10, 2014 7:03 PM  
**To:** Carla Ledesma  
**Subject:** Fwd: Bike & Pedestrian plan

Carla,

I'm sorry that I neglected to forward this to you earlier in the day for it to be recorded in the records related to the proposed Bike and Pedestrian plan. If possible, please enter it in the records.

Sent from my iPad

Begin forwarded message:

**From:** Scott Bolte <[scott.bolte@gmail.com](mailto:scott.bolte@gmail.com)>  
**Date:** February 10, 2014 at 7:49:55 AM CST  
**To:** Causier Kathleen <[kcausier@wauwatosa.net](mailto:kcausier@wauwatosa.net)>  
**Subject:** Bike & Pedestrian plan

Alderwomen Causier,

I've read the revised Bike & Pedestrian plan and I'm appalled. If adopted, it makes telling kids to walk in the street a matter of public policy. As far as so-called pedestrian facilities go -- and I believe the Menomonee River Parkway west of Swan would qualify -- the accurate name is mud pit.

While I do not agree with the small number of residents who say NIMFY (not in my *front* yard) to sidewalks, I believe we can be sensitive to their concerns without forcing the rest of Wauwatosa to regress decades. Topics as diverse as public health, global warming, personal safety, community cohesion, livability, and increasing property values all align with improving alternatives to the automobile. The plan should not be accepted if cars are the primary driver of the recommendations.

In the nearly 20 years that I've owned a home in Tosa, I've seen continuous improvements that have kept me here. Adopting a Bike & Pedestrian plan that puts the needs of cyclists and pedestrians in the *back* seat is a mistake. The stricken General Recommendations must be restored.

Scott Bolte  
8836 Jackson Park Blvd

## Carla Ledesma

---

**From:** Jeffrey Roznowski  
**Sent:** Tuesday, March 18, 2014 8:08 AM  
**To:** Carla Ledesma  
**Subject:** FW: bike/ped plan

Carla

I would like the email below added to the record and communications for the bike/ped item and hearing

Thanks

Jeff

Jeff Roznowski  
 6th District Alderman - City of Wauwatosa  
 Phone: 414-258-0633  
 Mobile: 414-803-9500

---

From: jamjustin@juno.com [jamjustin@juno.com]  
 Sent: Monday, March 17, 2014 10:57 PM  
 To: Cheryl Berdan; Jeffrey Roznowski  
 Subject: bike/ped plan

Hello,

I just wanted to share my thoughts with you as I am unable to attend the Common Council meeting on March 18. I am strongly in favor of improving the safety and flow of traffic around Eisenhower school. I have children that attend both Eisenhower and Whitman so I am frequently in that area. Improved bike/pedestrian lanes and sidewalks would greatly improve safety for those traveling by foot or in cars. I understand the residents on 116th are strongly opposed to sidewalks in that area, however there are students walking up and down that street both before and after school. I feel at the previous meeting both sides of were not represented, only those not in favor of the bike /ped plan. I hope you consider all the families that live in that area or those that are coming through that area, not just those on one street who appear to only be interested in their property.

Thank you for your time and consideration, Jeff and Margaret Justin

---

High School Yearbooks  
 View Class Yearbooks Online Free. Reminisce & Buy a Reprint Today!  
<http://thirdpartyoffers.juno.com/TGL3141/5327c47c59920447c668ast04vuc>

Attachment: Jeff and Margaret Justin email 3-17-14 (1949 : Bike/Ped Plan)

CITY OF WAUWATOSA  
MEMO



To: **Common Council**

From: **Tamara Szudy**

Date: **March 19, 2014**

Subject: **Request by John Czarnecki, The 2100 LLC, for a Change of Zoning from C2 District to C2 District/Planned Unit Development overlay at 2050 North Mayfair Road and 2100 North Mayfair Road**

---

**A. Issue**

Request by John Czarnecki, The 2100 LLC, for a Change of Zoning from C2 District to C2 District/Planned Unit Development Overlay at 2050 North Mayfair Road and 2100 North Mayfair Road

**B. Discussion**

The applicants are requesting a Change of Zoning from C2 District to C2 District/Planned Unit Development (PUD) Overlay to accommodate a multifamily housing development. The City's 2008 Comprehensive Plan identifies this site for Planned Commercial - essentially the status quo for the area. While the C2 District now allows for multifamily housing, a PUD is being requested as the proposed development exceeds the density standard and does not meet two minimum setbacks in the C2 District. In addition, since the Plan was written, the recent DOT modifications to Mayfair Road eliminated direct street access to the development site, severely impacting traditional retail and office redevelopment opportunities.

The Plan Commission reviewed this item on February 10<sup>th</sup> and recommended approval 4-1. A public hearing was held before the Council on March 18th and.....

**C. Recommendation**

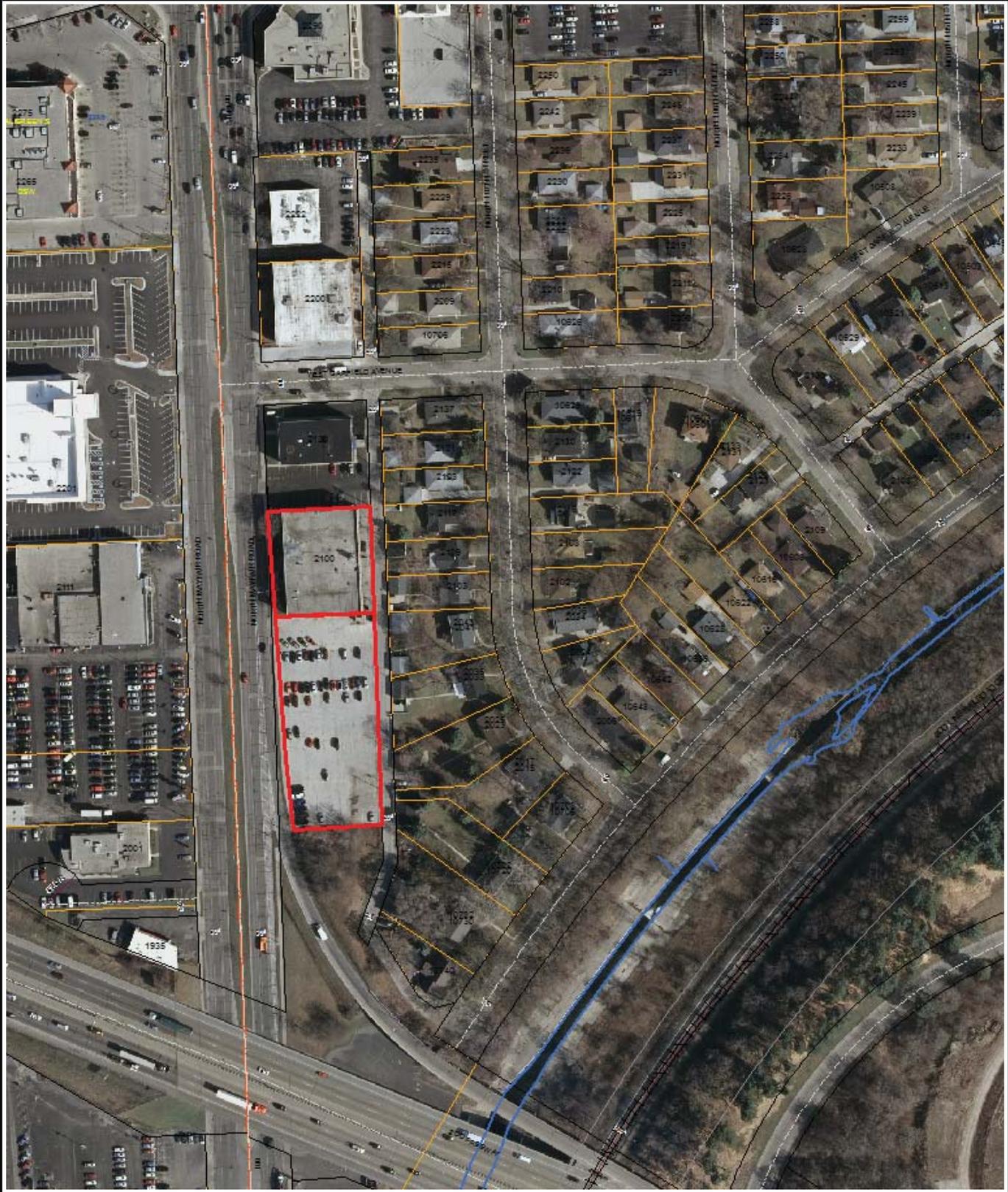
Staff recommends approval

History:

|          |                                 |                              |
|----------|---------------------------------|------------------------------|
| 12/09/13 | Plan Commission                 | HELD                         |
| 12/10/13 | Community Development Committee |                              |
| 02/10/14 | Plan Commission                 | RECOMMENDED FOR APPROVAL     |
| 02/11/14 | Community Development Committee | RECOMMENDED FOR INTRODUCTION |

# 2050 and 2100 North Mayfair Rd

1.2.

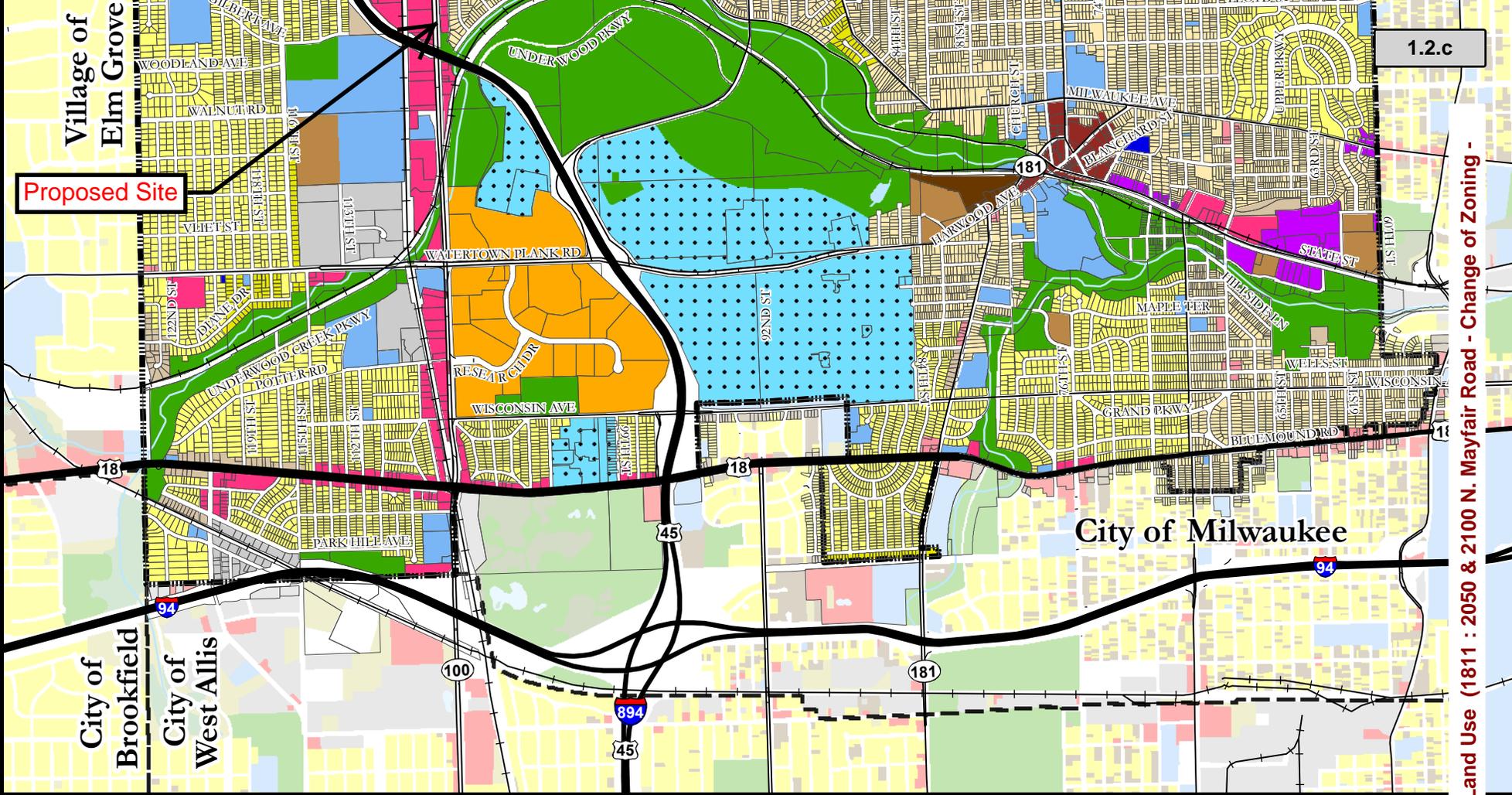


DISCLAIMER: This data is provided by the City of Wauwatosa for informational purposes only. The City does not warrant or guarantee the accuracy or reliability of this data. The recipient of this data assumes any risk of its use for any purpose.

Map Printed: 11/18/2013 9:58:04 AM



Scale: 1" = 200 Feet



1.2.c

Proposed Site

# City of Wauwatosa Comprehensive Plan

## Map 2.1 - 1: Future Land Use

-  Wauwatosa Municipal Boundary
-  Other Municipal Boundaries
-  Parcels

-  Neighborhood Conservation
-  Single Family Residential
-  Two-Family/Townhouse Residential
-  Mixed Residential-Moderate Density
-  Mixed Residential-High Density
-  Multi-Family-Urban Density
-  Neighborhood Commercial
-  Planned Commercial
-  Right of Way
-  Campus
-  Institutional
-  Public Utility
-  Light Production
-  General Product Distribution
-  Employment Area
-  Public Parks & Recreation
-  Right of Way

Attachment: 2100 Future Land Use (1811 : 2050 & 2100 N. Mayfair Road - Change of Zoning -

**Ordinance O-14-8**

ORDINANCE AMENDING CHAPTER 24.07.030 OF THE WAUWATOSA MUNICIPAL CODE BY ADDING GROUP LIVING AS A CONDITIONAL USE IN THE C2 DISTRICT

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. That Section 24.07.030 of the Wauwatosa Municipal Code, the "Use Table", is hereby amended as follows:

The provisions relating to "Group Living" shall be amended to reflect the letter "C" in the "C2" district.

Part II. This Ordinance shall take effect and be in force from and after its passage and publication.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

City Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

## **Ordinance O-14-9**

ORDINANCE AMENDING THE OFFICIAL ZONING MAP OF THE CITY OF WAUWATOSA FROM R8 DISTRICT TO R8 DISTRICT/PUD (PLANNED UNIT DEVELOPMENT) OVERLAY AT 8402, 8416 AND 8426 WEST NORTH AVENUE AND 2315 NORTH 84TH STREET

The Common Council of the City of Wauwatosa do ordain as follows:

Part 1. The Official Zoning Map of the City of Wauwatosa is hereby amended to reflect a Change of Zoning from R8 District to R8 District/Planned Unit Development (PUD) Overlay on the following parcels:

BERWYN LAWNS LOT 13 & E 20 FT OF LOT 14 BLK 4 SW 1/4 SEC 16

BERWYN LAWNS W 20 FT OF LOT 14 ALL OF LOT 15 & E 30 FT OF LOT 16 BLK 4 SW 1/4 SEC 16

BERWYN LAWNS W 10 FT OF LOT 16 & ALL OF LOTS 17 & 18 BLK 4 SW 1/4 SEC 16

Part II. The City Administrator is hereby directed to change the Official Zoning Map of the City of Wauwatosa to conform to the provisions of the Ordinance, and said Map is declared amended accordingly.

Part III. This ordinance shall take effect on and after its date of publication.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

City Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

**Laura Marquardt**

---

**Subject:** FW: Proposed apartment building on Mayfair Rd.

**From:** Kathleen Ehley  
**Sent:** Thursday, March 06, 2014 2:25 PM  
**To:** Carla Ledesma  
**Subject:** FW: Proposed apartment building on Mayfair Rd.

Please include in the existing file.

*Kathy Ehley*

Mayor, City of Wauwatosa  
 7725 W North Ave, 53226  
 414-479-8915

*It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman*

**From:** [trooney@cherryhomerealty.com](mailto:trooney@cherryhomerealty.com) [<mailto:trooney@cherryhomerealty.com>]  
**Sent:** Thursday, March 06, 2014 10:29 AM  
**To:** Kathleen Ehley  
**Cc:** Kathleen Causier  
**Subject:** Proposed apartment building on Mayfair Rd.

Some years ago the owner of Realty Executives was considering office space at the present office building off the freeway ramp at 2050/2100 N Mayfair Rd. Agents including myself met with him at the site and voted against the move due to access in a congested area.

As a resident for over 40 yrs. on nearby Fisher Parkway it is at times difficult enough to cross exiting freeway traffic to turn onto Garfield which is also used by non-resident traffic to avoid the intersection at North Ave/Mayfair Rd. During the prolonged Christmas season and the Mayfair Shopping Center the freeway exit is sometimes closed or has a long line of backed up traffic. Certainly with 134 units and over 200 parking spaces, one can imagine the effect of vehicles cutting through the adjoining subdivision.

In addition the lack of green space available for pets will mean a large number of pets and people using the parkway. The balconies overlooking their yards will also deprive the residents of the neighboring streets of a sense of privacy.

At the Common Council meeting on March 18th I will be present to voice my objections!!!!!!

Respectfully,  
 Theresa

Rooney

714 0310PM04:09 WAUWATOSA CLERK

David Whitehaus  
2329 N. 84<sup>th</sup> St.  
Wauwatosa, WI 53226

March 9, 2014

City of Wauwatosa  
Community Planning Committee  
7715 W. North Ave.  
Wauwatosa, WI 53213

Dear Community Planning Committee,

I am writing to you to express my concerns over the proposed Pasadena Apartment.

My first concern is the size and height of the proposed apartment. From the existing grade to the gutter of the west most apartment that is there now is 18 feet. The future building will be just over 44 feet, which will be taller than the existing trees on the property. The future apartment will also extend to the existing Blue Spruce on the west side of the property. Due to how much space the new building will take up, the proposed apartments will really decrease my privacy.

My second concern is the lack of green space or no green space. The 6 mature American Arborvitae averaging 25 feet in height and 20 inches in diameter along with the 2 mature Colorado blue spruce should not be removed and replaced with 4 small planters. When the trees were removed for the Meinecke Ave. project to the north those mature trees were replaced with trees similar if not better than the ones that were there before. This building should be surrounded by trees and other landscape plantings that soften the building like the existing homes and condos in the area.

As of now I am in opposition of the proposed Pasadena apartment. My concerns could be eased with the replacement of the existing landscape with a privacy screen of columnar trees to partially obstruct the view from the apartment and soften the grandness of the building. Thank you for your time and attention.

Sincerely,



David Whitehaus  
262-378-0446

\*14 0310PM04:09MAJMATOSA CLERK



\*14 0310PM04:09WAMATOSA CLERK



## Carla Ledesma

---

**From:** Jeffrey Roznowski  
**Sent:** Tuesday, March 18, 2014 8:08 AM  
**To:** Carla Ledesma  
**Subject:** FW: bike/ped plan

Carla

I would like the email below added to the record and communications for the bike/ped item and hearing

Thanks

Jeff

Jeff Roznowski  
 6th District Alderman - City of Wauwatosa  
 Phone: 414-258-0633  
 Mobile: 414-803-9500

---

From: jamjustin@juno.com [jamjustin@juno.com]  
 Sent: Monday, March 17, 2014 10:57 PM  
 To: Cheryl Berdan; Jeffrey Roznowski  
 Subject: bike/ped plan

Hello,

I just wanted to share my thoughts with you as I am unable to attend the Common Council meeting on March 18. I am strongly in favor of improving the safety and flow of traffic around Eisenhower school. I have children that attend both Eisenhower and Whitman so I am frequently in that area. Improved bike/pedestrian lanes and sidewalks would greatly improve safety for those traveling by foot or in cars. I understand the residents on 116th are strongly opposed to sidewalks in that area, however there are students walking up and down that street both before and after school. I feel at the previous meeting both sides of were not represented, only those not in favor of the bike /ped plan. I hope you consider all the families that live in that area or those that are coming through that area, not just those on one street who appear to only be interested in their property.

Thank you for your time and consideration, Jeff and Margaret Justin

---

High School Yearbooks  
 View Class Yearbooks Online Free. Reminisce & Buy a Reprint Today!  
<http://thirdpartyoffers.juno.com/TGL3141/5327c47c59920447c668ast04vuc>

Communication: Email from Jeff and Margaret Justin in support of the proposed bike and pedestrian plan (APPLICATIONS,

**Carla Ledesma**

---

**From:** WADE CEPULIS <cepulis@sbcglobal.net>  
**Sent:** Tuesday, March 18, 2014 4:29 PM  
**To:** Carla Ledesma  
**Subject:** Bike Path Pedestrian Plan

Dear Wauwatosa Mayor and City Clerk -

I am e-mailing you in support of the current Bike Path/Pedestrian plan that is going before the common council tonight.

I am in favor of the plan that my alderman Wilke is supporting.

Please pass my support on to the council.

Thank you,

Wade Cepulis

10238 Feerick Place

262-215-9992

Communication: Email from Wade Cepulis, 10238 Feerick Place, supporting the proposed bike/pedestrian plan (APPLICATIONS,

## Carla Ledesma

---

**From:** Kathleen Ehley  
**Sent:** Tuesday, March 18, 2014 4:26 PM  
**To:** Carla Ledesma  
**Subject:** 2100 N Mayfair Rd project comments

Carla, please include in communications on this project.

*Kathy Ehley*

Mayor, City of Wauwatosa  
 7725 W North Ave, 53226  
 414-479-8915

*It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman*

---

**From:** Rae Ward [mailto:raeward@att.net]  
**Sent:** Tuesday, March 18, 2014 10:38 AM  
**To:** Kathleen Ehley; Kathleen Causier; John Dubinski  
**Subject:**

Good Morning,

I am writing this morning re: the proposed development at 2100 N. Mayfair Road. I have taken some time to review the information and I am opposed to this building. My son and I enjoy walking in the neighborhood, riding our bikes and skating. There is minimal traffic at present. The addition of this complex will lead to an increased traffic flow through the neighborhood because of the limited access on and off the 2100 property. This will significantly impact the traffic on Garfield and the traffic turning onto Mayfair road from Garfield. It is already very difficult to turn out on to Mayfair Rd from Garfield because of the expressway exit ramp and the speed of the traffic. Trying to cross 4 or 5 lanes of traffic to get into the left turn lane at Mayfair and North Ave is very dangerous. Adding 200 more cars to the traffic flow in our small neighborhood would certainly have a negative impact. We already suffer from a significant amount of noise pollution in this area. There are times during the day that the noise from the traffic on Hwy 45, Mayfair Road and the train that runs parallel to Fischer Parkway make having a normal conversation outdoors impossible. I fear that adding so much extra traffic will make this worse. The alley behind the current building is certainly not enough of an entrance and exit for the amount of cars that would be involved and it would have a negative impact on safe travel through this area for the current residents. To add to that I cannot imagine the noise that will be created during the building of this development.

This development is not right for our neighborhood. I understand this may have a positive financial impact for the City of Wauwatosa but it would take away that neighborhood quality on our streets. The neighborhood quality that Wauwatosa prides itself in. The neighborhood quality that so many people move to Wauwatosa to enjoy.

I urge the Common Council to look beyond the financial impact and to consider instead the quality of life of the residents in this area. We do not need more noise and congestion in our neighborhood.

Thank you,  
 Rae Ward  
 2024 N. 107 Street

Wauwatosa, WI 53226  
(414) 491-6692

Communication: Email from Rae Ward, 2024 N. 107th Street, opposing the proposed development at 2050-2100 N. Mayfair Road

## Carla Ledesma

---

**From:** Kathleen Ehley  
**Sent:** Tuesday, March 18, 2014 5:26 PM  
**To:** Carla Ledesma  
**Subject:** FW: Support 2100 N. Mayfair Road

Please add to the file.

*Kathy Ehley*

Mayor, City of Wauwatosa  
 7725 W North Ave, 53226  
 414-479-8915

*It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman*

---

**From:** Steve P [mailto:steve.pape@greywp.com]  
**Sent:** Tuesday, March 18, 2014 5:08 PM  
**To:** Kathleen Ehley  
**Subject:** Support 2100 N. Mayfair Road

Kathy... I wanted to appear tonight and speak in favor of this project but my schedule will not allow me to. I wanted to send you message in show of support for this project on the agenda tonight:

- **Request by John Czarnecki, The 2100 LLC, for a Change of Zoning from C2 District to C2 District/Planned Unit Development overlay at 2050 North Mayfair Road and 2100 North Mayfair Road**
- 

I have reviewed the plans and renderings and this project would be a huge improvement for that land locked site and a building that has sat for way too long. With the improvements to Mayfair Mall, this site is essentially the "gateway" off Hwy. 41/45 to the Mayfair Corridor. What better to see as you get off the freeway than high end residential development! It would be a tremendous investment in the City of Wauwatosa by the developer and encourage future redevelopment down the road. Additionally, it creates new tax revenue and is requiring NO City assistance or TIF. This will be a tremendous addition to the Mayfair Road corridor and the City of Wauwatosa. Please support the project and encourage others to do so as well.

Home:  
 Steve Pape  
 7030 Maple Terrace  
 Wauwatosa, WI 53213

Work:  
 Steve Pape  
 Partner/Director of Brokerage  
 Greywolf Partners, Inc.  
 9000 W. Chester Street, Suite 350  
 Milwaukee, WI 53214  
 (O): 414.444.6853  
 (C): 414.322.6846  
[steve.pape@greywp.com](mailto:steve.pape@greywp.com)  
[www.greywp.com](http://www.greywp.com)

Communication: Email from Steve Pape, 7030 Maple Terrace, supporting the proposed development at 2050-2100 N. Mayfair Road



## Carla Ledesma

---

**From:** Kathleen Ehley  
**Sent:** Tuesday, March 18, 2014 5:30 PM  
**To:** Carla Ledesma  
**Subject:** FW: Opposed to Proposed Apartment Building Development in Country Club Subdivision

*Kathy Ehley*

Mayor, City of Wauwatosa  
 7725 W North Ave, 53226  
 414-479-8915

*It is amazing what you can accomplish if you do not care who gets the credit. - Harry S Truman*

---

**From:** Ruth Welcenbach [mailto:ruthwelcenbach@wi.rr.com]  
**Sent:** Tuesday, March 18, 2014 3:49 PM  
**To:** adamhammelman@yahoo.com  
**Cc:** Kathleen Causier; Kathleen Ehley; John Dubinski  
**Subject:** Opposed to Proposed Apartment Building Development in Country Club Subdivision

Hello Adam,

I didn't get a chance to sign your petition so I am sending this email instead.

Yes, I am opposed to the proposed apartment building development in our Country Club subdivision. It would definitely cause a traffic nightmare plus many other problems.

I won't be able to attend the meeting tonight at City Hall. However, please let our city officials know of my opposition to the project.

Thank you,

Ruth Welcenbach  
 Country Club subdivision home owner  
 2239 N 105th ST  
 Wauwatosa, WI 53226  
 414-771-3476

## Ordinance

ORDINANCE AMENDING SECTION 11.32.080 OF THE WAUWATOSA MUNICIPAL CODE TO ADD PARKING RESTRICTIONS ON THE NORTH SIDE OF STATE STREET AT 7018 WEST STATE STREET

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. The introductory schedule of restrictions in Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(ddd) No parking here to corner."

Part II. The "West State Street - north side" portion of the Schedule of Streets, and Portions, subsection of Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(ddd) From the front of the property at 7018 West State Street to the Corner of 70th street."

Part III. This ordinance shall take effect on and after its date of publication.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

City Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

## Ordinance

ORDINANCE AMENDING SECTION 11.32.080 OF THE WAUWATOSA MUNICIPAL CODE TO ADD PARKING RESTRICTIONS ON THE WEST SIDE OF NORTH 113TH STREET FROM CENTER STREET TO CLARKE STREET

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. The "North 113th Street - west side" portion of the Schedule of Streets, and Portions, subsection of Section 11.32.080 of the Wauwatosa Municipal Code is hereby amended by adding the following:

"(t) on the west side of North 113th Street from Center Street to Clarke Street.

Part II. This ordinance shall take effect on and after its date of publication.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

City Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

## Ordinance

ORDINANCE AMENDING SECTION 11.36.200 OF THE WAUWATOSA MUNICIPAL CODE TO ADD 'NO U-TURN' RESTRICTIONS ON CENTER STREET IN FRONT OF WAUWATOSA WEST HIGH SCHOOL AND EISENHOWER ELEMENTARY

The Common Council of the City of Wauwatosa do ordain as follows:

Part I. Section 11.36.200 of the Code of the City of Wauwatosa is hereby amended by adding the following:

"11. On Center Street in front of Wauwatosa West High School and Eisenhower Elementary

Part II. This ordinance shall take effect on and after its date of publication.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

City Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-47

By: Community Development Committee

WHEREAS, Sherry Carlin, chairperson of Tosafest 2014, has applied for a Street Festival Permit to the Village area on September 5-6, 2014; and

WHEREAS, the Committee on Community Development reviewed the request and recommends granting a Street Festival permit subject to the following restrictions:

1. Tosafest shall be conducted on Thursday, September 4, 2014, from 5:00 PM, Friday, September 5, 2014, from 1:00 pm to 11:30 pm; and on Saturday, September 6, 2014, 11:00 am to 11:30 pm; and take down and clean-up on Sunday, September 7, 2014, from 7:00 am to 12:00 noon;
2. Live and recorded music associated with the event shall cease no later than 11:00 pm
3. Tosafest shall pay all actual costs for Public Works services provided should City resources be utilized for the event.

NOW, THEREFORE, BE IT RESOLVED THAT a Street Festival permit be granted for Tosafest 2014 to use the Village area on September 5-7, 2014.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-48

By: Community Development Committee

---

WHEREAS, Jian Sun, Wisconsin International Academy, Inc., and Tom Campbell, Wauwatosa Hotel Group, LLP., applied for a Conditional Use in the C2 District at 11811 West Blue Mound Road to operate Wisconsin International Academy, a group living establishment, and;

WHEREAS, this request was reviewed and recommended by the City Plan Commission and the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants a Conditional Use to Jian Sun, Wisconsin International Academy, Inc., and Tom Campbell, Wauwatosa Hotel Group, LLP., to operate Wisconsin International Academy in the C2 District at 11811 West Blue Mound Road subject to the obtaining any additional permits and licenses.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-49

By: Community Development Committee

WHEREAS, Dan Kroetz, CCM - Pasadena Apartments, LLC., applied for preliminary plans for Planned Unit Development at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street for a multifamily development, including new construction, and;

WHEREAS, this request was reviewed and recommended by the City Plan Commission and the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants Planned Development preliminary plan approval to Dan Kroetz, CCM - Pasadena Apartments, LLC., for a multifamily development, including new construction, at 8402, 8416 and 8426 West North Avenue and 2315 North 84th Street, subject to the following:

1. plans showing adequate sewer capacity, storm water management, and traffic/access improvements subject to approval by the City Engineer
2. plans for water supply to the site subject to approval by the City Water Superintendent
3. Design Review Board approval
4. combine parcels prior to obtaining building permit
5. placement of an eight foot fence along the north property line
6. design and landscaping accommodations mutually agreed upon with the adjacent neighbors to the north
7. obtaining all necessary licenses and permits

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-50

By: Community Development Committee

WHEREAS, Edward Walsh, Alpine Realty Capital, and David Gilbert, UWM Real Estate Foundation, applied for an amendment to a Planned Development at 1300 Discovery Parkway to construct a hotel, and;

WHEREAS, this request was reviewed and recommended by the Committee on Community Development and determined to be necessary for the public convenience at that location; located and proposed to be operated in such manner which will protect the public health, safety, and welfare; and was found to be compatible with surrounding uses;

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa, Wisconsin hereby grants approval of an amendment to a Planned Development to Edward Walsh, Alpine Realty Capital, and David Gilbert, UWM Real Estate Foundation, to construct a hotel at UWM Innovation Campus, subject to the following:

1. Plans showing adequate sewer capacity and storm water management subject to approval by the City Engineer
2. Plans for water supply to site and hydrant placement subject to approval by the City Water Superintendent
3. Plans for fire protection subject to approval by Fire Prevention staff
4. Incorporation of a pedestrian connection from the main building entrance to the public sidewalk
5. Approval by the Design Review Board
6. Obtaining any additional licenses and permits

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-51

By: Budget and Finance Committee

WHEREAS, the City of Wauwatosa supports the pre-scoping and a second-round application to be submitted to WisDOT for the 2014-2018 Wisconsin Department of Transportation (WisDOT) 2014-2018 Transportation Alternatives Program (TAP) award cycle. The purpose of the application is to seek federal grant funding to establish a bicycle share program in Wauwatosa; and

WHEREAS, the City of Wauwatosa recognizes that WisDOT reimburses project sponsors for the federal share of 80% of the approved TAP project costs, up to the limit of the federal award amount. In light of the minimum twenty percent (20%) match requirement, the City of Wauwatosa will work toward securing the matching funds from non-tax levy sources.

NOW, THEREFORE, BE IT RESOLVED by the Common Council of the City of Wauwatosa that if the City of Wauwatosa is awarded funding by WisDOT for the 2014-2018 TAP award cycle, appropriate city officials are hereby authorized to accept the award administered by WisDOT for the above- referenced project, provided that sufficient matching funds are available.

BE IT FURTHER RESOLVED that the City of Wauwatosa agrees to comply with all applicable laws, requirements, and regulations as outlined in the WisDOT 2014-2018 TAP application materials, the state-municipal agreement between WisDOT and the City of Wauwatosa, and any other program and/or project documentation.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-52

By: Budget and Finance Committee

---

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted for appropriate City officials to enter into a 3 year contract with Symbiont for implementation of an EPA Brownfield Assessment Grant.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-53

By: Budget and Finance Committee

---

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted for the proper City officials to enter into an agreement, a copy of which is attached hereto and incorporated herein, with other municipal governments in Milwaukee County for fire service mutual aid.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

## AGREEMENT FOR MUTUAL ASSISTANCE

THIS AGREEMENT FOR MUTUAL ASSISTANCE, (“Agreement”), is made and entered into as of the date set forth next to the signature of the respective parties, (hereinafter referred to singularly as “party” “entity” “agency” or “department” and collectively as “parties” “entities” “agencies” or “departments”), each a Wisconsin municipal corporation or a 66.0301 Wis. Stats., intergovernmental entity as set forth below, each acting herein through their duly authorized officials.

### RECITALS:

WHEREAS the governing officials of the governmental entities set forth below, political subdivisions of the State of Wisconsin and the United States of America, desire to secure for each entity the benefits of assistance in the protection of life and property from fire and other disasters; and

WHEREAS Wisconsin Statute Section 66.0301(2) authorizes municipalities to contract with each other for the receipt and furnishing of fire, protection and emergency medical services; and

WHEREAS Wisconsin Statute Section 66.03125 authorizes fire departments to engage in mutual assistance within a requesting fire department’s jurisdiction;

WHEREAS the details of the assistance to be provided between each entity will be set forth in separate Memoranda of Understanding executed by two or more of the parties to this Agreement, and as outlined in this Agreement;

NOW, THEREFORE, IT IS AGREED AS FOLLOWS:

1. In consideration for each party's mutual assistance to the other upon the occurrence of an emergency condition and/or hazardous situations in any portion of the designated area where this Agreement is in effect, a predetermined number of firefighting equipment and/or emergency medical equipment or personnel of the parties may be dispatched, to such point where the emergency condition and/or hazardous situations exists in order to assist in the protection of life and property subject to the conditions hereinafter stated. For the purposes of this Agreement, emergency condition is a sudden, urgent, unexpected occurrence or occasion requiring immediate action, including any condition requiring fire protection or emergency medical services or both; a hazardous situation is a situation that creates a level of threat to life, property, health or the environment.

Details as to amounts and types of assistance to be dispatched, methods of dispatching and communications, training programs and procedures and areas to be assisted will be developed by the Chiefs of the fire departments from the respective parties. These details will be stipulated in a Memorandum of Understanding, (“MOU”), and signed by the Chiefs of the departments. No party shall have any

obligation pursuant to this Agreement to another party unless and until an MOU is executed between the respective parties. Said MOU may be revised or amended at any time by mutual agreement of the Fire Chiefs as conditions may warrant.

2. Any dispatch of equipment and personnel pursuant to this Agreement, shall be to the extent of available personnel and equipment not required for the adequate protection of the territorial limits of the agency providing the services. Said agency shall not be required to provide services when equipment and/or staffing is unavailable due to emergency conditions and/or hazardous situations confronting the department providing the assistance hereunder. No liability of any kind or nature shall be attributed to or be assumed whether express or implied by a party hereto, its duly authorized agents and personnel for failure or refusal to render aid. In addition, there shall not be any liability for a party that withdraws aid once provided pursuant to the terms of this Agreement.
3. Personnel and equipment dispatched pursuant to this agreement shall report for direction and assignment to the fire chief or incident commander of the department of the jurisdiction in which the service is being provided. The department offering assistance shall at all times have the right to withdraw any and all aid upon the order of its chief officer or designee provided; however, the department withdrawing such aid shall notify the incident commander or his designee of the jurisdiction in which the service is being provided of such withdrawal.
4. Each party to this Agreement waives all claims (except those arising from the intentional or reckless acts of the other party) against each and every other party to this Agreement for compensation for any loss, damage, personal injury, or death occurring as a consequence of this Agreement; however all parties providing assistance hereunder shall be entitled to the equitable distribution between the parties providing services of any expenses recovered from other responsible entities. Nothing herein shall operate to bar any recovery of funds from any State or Federal agency under any existing State and Federal laws.

A party receiving assistance hereunder agrees to hold harmless, indemnify and defend the party providing assistance in its jurisdiction from any and all claims, demands, liability losses including attorney's fees and costs which are made by a third party arising from providing assistance pursuant to this agreement, except there is no duty to hold harmless, indemnify and defend a party providing the assistance from any claim that arises from intentional or reckless acts of the party providing the assistance.

There shall be no liability of any party to another party of this Agreement for failure or refusal to render assistance or for withdrawal of assistance once provided.

5. Each party hereto shall procure and maintain at its sole and exclusive expense insurance coverage, including comprehensive liability, personal injury, property damage, worker's compensation and emergency medical service professional liability with limits of One Million Dollars (\$1,000,000) for auto coverage and One

Million Dollars (\$1,000,000) combined single limit general liability and professional liability coverage. No party hereto shall have any obligation to provide or extend insurance coverage for any of the items enumerated herein to any other party hereto or its personnel. The obligations of this section shall be satisfied by a party's membership in a self-insurance pool, a self-insurance plan, or arrangement with an insurance provider approved by the State of Wisconsin. Upon request, a party may provide evidence of compliance with the provisions of this section to the other party.

6. No party shall be reimbursed by the other for costs incurred pursuant to this Agreement. Personnel who are assigned, designated or ordered by their governing body to perform duties, pursuant to this Agreement, shall receive the same salary, pension, and all other compensation and rights for the performance of such duties, including injury or death benefits, and Worker's Compensation benefits, as though the service had been rendered within the limits of the entity where he or she is regularly employed. Moreover, all medical expenses; wage and disability payments; pension payments; damage to equipment and clothing; and expenses of travel; food; and lodging shall be paid by the entity in which the employee in question is regularly employed.
7. Each party to this Agreement is responsible for the operation of its own vehicles and equipment and the acts of its personnel responding to a request for mutual assistance while they are providing assistance in the requesting community. The employees that may provide services under this Agreement shall continue to be the employees of his or her employing parties' fire department and shall be covered by his or her employing parties' fire department for purposes of worker's compensation, unemployment insurance, benefits under ch. 40 Wisconsin Statutes and any civil liability. Any employee while providing services under this Agreement is considered, while so acting, to be in the ordinary scope of his or her employment with his or her employing parties' fire department.
8. At all times while equipment and personnel of any parties' fire department are traveling to, from, or within the geographical limits of the other parties' in accordance with the terms of this Agreement, such personnel and equipment shall be deemed to be employed or used, as the case may be, in the full line and cause of duty of the party which regularly employs such personnel and equipment. Further, such equipment and personnel shall be deemed to be engaged in a governmental function of its governmental entity. The parties declare and acknowledge that they are governmental entities entitled to governmental immunity under the common law and under Section 893.80 of the Wisconsin Statutes, and the parties agree that nothing contained herein shall waive the rights and defenses to which each party may otherwise be entitled, including all of the immunities, limitations, and defenses under Section 893.80 of the Wisconsin Statutes (2009-2010) or any amendments thereof. The parties also agree that they are not waiving any other immunities or defenses available to them under state, federal or administrative law.
9. In the event that any individual performing duties subject to this Agreement shall be cited as a defendant party to any state or federal civil lawsuit, arising out of his or her official acts performed within the scope of his/her duties pursuant to the terms of this Agreement, such individual shall be entitled to the same benefits that he or she

would be entitled to receive had such civil action arisen out of an official act within the scope of his or her duties as a member of the department where regularly employed and occurred within the jurisdiction of the governmental entity where regularly employed. The benefits described in this paragraph shall be supplied by the party where the individual is regularly employed. However, in situations where another jurisdiction may be liable, in whole or in part, for the payment of damages then the other jurisdiction may be joined in such cause of action to protect its interests.

10. It is agreed by and between the parties hereto that any party hereto shall have the right to terminate this Agreement upon ninety (90) days written notice to the other parties' Fire Chief.
11. It is understood and agreed that the parties have heretofore entered into an "Agreement for Mutual Aid", effective as of the dates indicated below.
12. In case one or more of the provisions contained in this Agreement shall be for any reason held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision thereof and this Agreement shall be construed as is such invalid, illegal, or unenforceable provision had never been contained herein.
13. Effective date of this Agreement as to any party shall be on the date of the signature of any parties hereto.
14. This Agreement shall be governed and construed in accordance with the laws of the State of Wisconsin. This Agreement represents a complete understanding of the parties with respect to this subject matter referred to herein and may not be amended except upon the mutual written consent of the parties. This Agreement may be executed in multiple counterparts or duplicate originals, each of which shall constitute and be deemed as one in the same document.

This signatory certifies that this Agreement for Mutual Assistance has been adopted and approved by ordinance, resolution, or other manner allowed by law, a copy of which is document is attached hereto.

\_\_\_\_\_  
Municipal Corporation

\_\_\_\_\_  
Signatory

\_\_\_\_\_  
Date

MEMORANDUM OF UNDERSTANDING FOR MUTUAL ASSISTANCE BETWEEN THE  
CITY OF \_\_\_\_\_ FIRE DEPARTMENT AND THE CITY OF  
\_\_\_\_\_ FIRE DEPARTMENT

This Memorandum of Understanding, (“MOU”), is authorized by the City of \_\_\_\_\_ and the of the City of \_\_\_\_\_, (hereinafter referred to singularly as “party” “entity” “agency” or “department” and collectively as “parties” “entities” “agencies” or “departments”), and is effective .

The purpose of this MOU is to outline the procedures for implementing a Mutual Assistance response between the parties. This MOU is a supplement to the Agreement for Mutual Assistance previously entered into by the parties. In the event this MOU conflicts with the Agreement for Mutual Assistance, the Agreement for Mutual Assistance shall be controlling.

### **Terms**

The terms and conditions of this MOU terminate automatically upon the termination of the Agreement for Mutual Assistance.

### **Amount and Time of Assistance**

This MOU is for fire/emergency service responses and/or emergency medical/service responses. Fire apparatus response on reported structure fires and emergency medical/service type incidents as assigned per CAD designation.

### **Response Areas:**

#### **Fire/Emergency Services Response**

The parties may combine resources to initiate an appropriate allocation of equipment to all reports of fire/emergency service response. The exact equipment is based on the nature of the call and shall be agreed upon by both fire chiefs. When available, units responding shall be based on closest unit response.

### **Emergency Medical Services (EMS) First Responder:**

The parties will combine resources to initiate an appropriate allocation of equipment to all reports of an emergency medical event. The exact equipment is based on the nature of the call and shall be agreed upon by both fire chiefs. Units responding may be based on closest unit response.

### **Limitations**

If the agreed upon response from either department is not available or is temporarily depleted, the assisting department need not respond. However, if a fill-in company is in quarters at a fire station that is part of this MOU, that company will respond. If the response is not available, the other party will be notified immediately.

### **Training**

Joint training exercises are to be conducted, at a minimum, semiannually. The training exercises will be coordinated and observed by a chief officer from each respective department, for the purpose of maintaining coordination in firefighting procedures, dispatching and communications.

### **Communications**

Dispatched units shall communicate with the dispatch center that provided the initial dispatch when possible.

Communications procedures and documents will be provided at the initial training session and updated as needed thereafter. Maintenance and replacement of radios will be the responsibility of the Department that owns the radios.

### **Dispatch to Emergencies**

Upon receipt of an alarm in any of the designated response areas, the Communications Center receiving the alarm will dispatch the proper assignment. Should the agreed upon assistance not be available, the requesting department will be so notified.

### **Incident Command**

The officer on the first arriving company will establish command of the incident until relieved by the appropriate authority. The fire department, in the City at which the incident occurs, shall upon arrival at the scene, communicate with the initial Incident Commander for a situational update, then assume Command of the incident thereafter.

**Fire Incident Reporting**

Each department will be responsible for obtaining needed information to complete fire and emergency medical service reports for incidents within their respective jurisdictions. Units assisting in the incident shall cooperate with the agency in charge to provide any necessary information. Fire investigations are the responsibility of the respective jurisdiction, and responding agencies will cooperate in the investigation.

**Revisions**

This Memorandum of Understanding may be revised or amended at any time by mutual agreement of the Fire Chief of the City of \_\_\_\_\_ and the Fire Chief of the City of \_\_\_\_\_.

\_\_\_\_\_  
\_\_\_\_\_, Fire Chief – City of \_\_\_\_\_ Fire Department.

Date \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_, Fire Chief – City of \_\_\_\_\_ Fire Department.

Attachment: Milwaukee County Mutual Aid Agreement (R-14-53 : Mutual Aid Milwaukee County Fire Department)

CITY OF WAUWATOSA  
Resolution

By: Budget and Finance Committee

---

BE IT RESOLVED, by the Common Council of the City of Wauwatosa, THAT, effective following the next re-election of each aldermanic seat, Common Council members are hereby authorized to participate in the receipt of a telephone reimbursement for council members at level three, or \$40.00 per month, consistent with the existing administrative policy in place for non-elected City employees, and with proof of actual expense.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_  
Clerk

Approved \_\_\_\_\_

\_\_\_\_\_  
Mayor

CITY OF WAUWATOSA  
MEMO

To: **Budget and Finance Committee**

From: **John Ruggini**

Date: **March 07, 2014**

Subject: **Memo from the Finance Director regarding iPads**

---

**A. Issue**

As part of the phone stipend discussion, the Common Council requested information on the cost of cellular enabled iPads.

**B. Background/Options**

The current iPads are not cellular enabled and require Wifi for internet access. New iPads would need to be purchased in order to allow for internet access when Wifi is not available.

A new cellular and wifi enabled iPad purchased off the state contract would cost \$499. A data plan would also need to be purchased for each iPad. Costs vary among providers however, assuming on average that each iPad would require a 1 gigabyte data plan, the cost would be \$20 per month per iPad or \$480 per year in addition to the purchase price.

A question was also raised during the Council meeting on the expected replacement schedule of the iPads. As a relatively new technology, it is not known how long they will last. For the time being, they are being replaced as new Council members are elected.

**C. Fiscal Impact**

This report is for informational purposes only.

**D. Recommendation**

This report is for informational purposes only.

CITY OF WAUWATOSA  
MEMO



To: **Common Council**

From: **Laura Marquardt**

Date: **March 18, 2014**

Subject: **Bills and Claims**

## COMPTROLLER'S OFFICE BILLS &amp; CLAIMS REPORT

Common Council Meeting March 18, 2014Payments to be ratified: Check # 171941 thru Check # 172000Payments to be approved: Check # 172001 thru Check # 172116

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK<br>WO # | CHECK # | CHECK AMT<br>AMOUNT | CHECK DATE<br>G/L ACCT # | VENDOR # | ADDRS # | VENDOR NAME<br>DESCRIPTION               | INVOICE #     | CHECK<br>STATUS<br>INV VEND |
|--------------|---------|---------------------|--------------------------|----------|---------|--|---------------|-----------------------------|
| 2            | 5079    | \$660927.50         | 03/05/14                 | 50366    |         | 0 ASSOCIATED TRUST CO.                   |               | CLEARED                     |
|              |         | 505476.81-          | 02-000-1991-000          |          |         | DEBT SERVICE PAYMENT                     | 5079          |                             |
|              |         | 505476.81           | 02-000-2901-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 483514.12           | 02-101-5100-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 137005.84           | 02-201-5100-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 21962.69            | 50-233-6000-900          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 6223.22             | 50-233-0510-900          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 683.98              | 04-000-2201-300          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 1114.98             | 17-000-2201-300          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 341.99              | 04-220-5300-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 557.49              | 17-340-5300-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 3620.79             | 04-000-2904-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
|              |         | 5902.40             | 17-000-2904-000          |          |         | DEBT SERVICE PAYMENT                     |               |                             |
| 2            | 5080    | \$5202.80           | 03/05/14                 | 60862    |         | 0 HUMANA                                 |               | CLEARED                     |
|              |         | 5202.80             | 12-311-5400-000          |          |         | DENTAL CLAIMS                            | 5080          |                             |
| 2            | 5082    | \$7835.04           | 03/05/14                 | 60761    |         | 0 UNITED HEALTHCARE                      |               | CLEARED                     |
|              |         | 7835.04             | 01-000-2306-200          |          |         | FLEX SPENDING                            | 5082          |                             |
| 2            | 5083    | \$100246.65         | 03/05/14                 | 60761    |         | 0 UNITED HEALTHCARE                      |               | CLEARED                     |
|              |         | 100246.65           | 16-311-5191-100          |          |         | HEALTH CLAIMS                            | 5083          |                             |
| 2            | 5085    | \$252306.19         | 03/07/14                 | 05030    |         | 0 EFTPS                                  |               | CLEARED                     |
|              |         | 66332.40            | 01-000-2202-300          |          |         | PAYROLL FOR 030614                       | 030614PAYROLL |                             |
|              |         | 50882.89            | 01-000-2301-100          |          |         | PAYROLL FOR 030614                       |               |                             |
|              |         | 119641.39           | 01-000-2301-200          |          |         | PAYROLL FOR 030614                       |               |                             |
|              |         | 15449.51            | 01-000-2301-300          |          |         | PAYROLL FOR 030614                       |               |                             |
| 2            | 5086    | \$910.00            | 03/07/14                 | 23244    |         | 0 WAUWATOSA POLICEMEN'S NSU BARG         |               | CLEARED                     |
|              |         | 910.00              | 01-000-2304-400          |          |         | PAYROLL FOR 030614                       | 030614PAYROLL |                             |
| 2            | 5087    | \$2280.30           | 03/06/14                 | 03416    |         | 0 CITIES & VILLAGES MUTUAL INSURANCE CO. |               | CLEARED                     |
|              |         | 37.40               | 09-211-5100-000          |          |         | POLICE DEPT                              | 5087          |                             |
|              |         | 33.25               | 09-211-5200-000          |          |         | FIRE DEPT                                |               |                             |
|              |         | 2209.65             | 09-211-5300-000          |          |         | FLEET DEPT                               |               |                             |
| 2            | 5089    | \$606600.00         | 03/10/14                 | 74400    |         | 0 DEPOSITORY TRUST COMPANY               |               | CLEARED                     |
|              |         | 2006.40             | 02-201-5200-000          |          |         | 3-10-14 DEBT SERVICE                     | 5089          |                             |
|              |         | 182400.00           | 02-101-5200-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 182400.00-          | 02-000-1992-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 182400.00           | 02-000-2902-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 230280.00           | 04-000-2901-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 187320.00           | 17-000-2901-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 2533.08             | 04-220-5300-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
|              |         | 2060.52             | 17-340-5300-000          |          |         | 3-10-14 DEBT SERVICE                     |               |                             |
| 2            | 5091    | \$2651.90           | 03/11/14                 | 60862    |         | 0 HUMANA                                 |               | CLEARED                     |
|              |         | 2651.90             | 12-311-5400-000          |          |         | DENTAL CLAIMS                            | 5091          |                             |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK<br>WO # | CHECK # | CHECK AMT<br>AMOUNT                                    | CHECK DATE<br>G/L ACCT #   | VENDOR # | ADDRS # | VENDOR NAME<br>DESCRIPTION   | INVOICE #                        | CHECK<br>STATUS<br>INV VEND |
|--------------|---------|--|--|----------|---------|--|----------------------------------|-----------------------------|
| 2            | 5092    | \$11155.44<br>11155.44                                 | 03/12/14<br>01-000-2306-200  | 60761    |         | 0 UNITED HEALTHCARE<br>FLEXIBLE SPENDING   | 5092                             | CLEARED                     |
| 2            | 5093    | \$164582.76<br>164582.76                               | 03/12/14<br>16-311-5191-100  | 60761    |         | 0 UNITED HEALTHCARE<br>HEALTH CLAIMS   | 5093                             | CLEARED                     |
| 2            | 5094    | \$14739.73<br>1086.85<br>7649.25<br>2491.02<br>3512.61 | 03/13/14<br>09-211-5100-000<br>09-211-5200-000<br>09-211-5300-000<br>09-211-5300-000 | 03416    |         | 0 CITIES & VILLAGES MUTUAL INSURANCE CO.<br>WC - POLICE<br>WC -FIRE<br>PW - FIRE<br>WC - FLEET | 5094                             | CLEARED                     |
| 2            | 171941  | \$245.00<br>245.00                                     | 03/07/14<br>01-211-5420-000  | 63629    |         | 0 ASP-WI<br>2014 TRAINING CONFERENCE   | REG: MOLDENHAUER                 | OUTSTANDING                 |
| 2            | 171942  | \$74.60<br>74.60                                       | 03/07/14<br>50-624-1000-900  | 58767    |         | 0 AT&T<br>SERVICE 2/22/14 THRU 3/21/134  | 414873471702 /FEB                | CLEARED                     |
| 2            | 171943  | \$85.00<br>85.00                                       | 03/07/14<br>01-411-4200-000  | 63627    |         | 0 BAUMANN VICTORIA L<br>CITATION REFUND  | REFUND                           | CLEARED                     |
| 2            | 171944  | \$100.00<br>100.00                                     | 03/07/14<br>22-000-2401-300  | 63624    |         | 0 BRAASCH ANN<br>4958 SECURITY DEPOSIT REFUND  | 4958                             | OUTSTANDING                 |
| 2            | 171945  | \$159.67<br>87.13<br>72.54                             | 03/07/14<br>01-000-1503-100<br>01-000-1503-100                                       | 00149    |         | 0 CONTINENTAL LIFE INS CO<br>AMB REF-SLOMOWITZ<br>AMBULANCE REFUND- KATZER                     | PT# 12646636-2<br>PT# 12698287-2 | OUTSTANDING                 |
| 2            | 171946  | \$279.53<br>279.53                                     | 03/07/14<br>01-211-5440-000  | 80000    | 85699   | DONOVAN JAMES<br>CLOTHING ALLOWANCE  | 0739/0009/8651/5                 | OUTSTANDING                 |
| 2            | 171947  | \$588.37<br>588.37                                     | 03/07/14<br>01-000-2303-400  | 60251    |         | 0 GROSSMAN MARY<br>PAYROLL FOR 030614  | 030614PAYROLL                    | CLEARED                     |
| 2            | 171948  | \$20.00<br>20.00                                       | 03/07/14<br>01-411-4200-000  | 63625    |         | 0 GRUDOWSKI KAITLYN<br>#608003572 REFUND   | REFUND                           | CLEARED                     |
| 2            | 171949  | \$290.00<br>145.00<br>145.00                           | 03/07/14<br>01-211-5420-000<br>01-211-5420-000                                       | 63628    |         | 0 GRYPHON TRAINING GROUP<br>GYPSIES/TRAVLERS & THE ELDERLY<br>GYPSIES/TRAVELERS & ELDERLY      | REG: KIRBY<br>REG: MILOTZKY      | OUTSTANDING                 |
| 2            | 171950  | \$13075.00<br>13075.00                                 | 03/07/14<br>01-000-2303-300  | 09024    |         | 0 ICMA RETIREMENT TRUST-457<br>PAYROLL FOR 030614  | 030614PAYROLL                    | CLEARED                     |
| 2            | 171951  | \$200.00<br>200.00                                     | 03/07/14<br>22-000-2401-300  | 63623    |         | 0 JACOBS ZULMA<br>4993 SECURITY DEPOSIT REFUND   | 4993                             | CLEARED                     |
| 2            | 171952  | \$190.00<br>190.00                                     | 03/07/14<br>01-000-2303-400  | 70025    |         | 0 JOANNE M LIPO ZOVIC, TRUSTEE<br>PAYROLL FOR 030614   | 030614PAYROLL                    | CLEARED                     |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE   | VENDOR # | ADDRS # | VENDOR NAME   | INVOICE #  | CHECK STATUS |
|------|---------|--|--|----------|---------|---|--|--------------|
| WO # |         | AMOUNT   | G/L ACCT #   |          |         | DESCRIPTION   |  | INV VEND     |
| 2    | 171953  | \$235.00<br>235.00   | 03/07/14<br>22-000-2401-300  | 63622    |         | 0 LUPA MARY<br>4992 SECURITY DEPOSIT REFUND   | 4992   | CLEARED      |
| 2    | 171954  | \$23544.68<br>23544.68   | 03/07/14<br>01-000-2303-300  | 21040    |         | 0 NATIONWIDE RETIREMENT SOLUTIONS<br>PAYROLL FOR 030614   | 030614PAYROLL  | CLEARED      |
| 2    | 171955  | \$9720.00<br>9720.00   | 03/07/14<br>01-000-2303-300  | 14810    |         | 0 NORTH SHORE BANK F.S.B.<br>PAYROLL FOR 030614   | 030614PAYROLL  | CLEARED      |
| 2    | 171956  | \$85.00<br>85.00   | 03/07/14<br>01-411-4200-000  | 63626    |         | 0 PALMISANO MICHAEL A<br>CITATION REFUND  | REFUND   | OUTSTANDING  |
| 2    | 171957  | \$85.00<br>85.00   | 03/07/14<br>01-411-4200-000  | 63607    |         | 0 PARROTT TANYA L<br>PARKING CITATION REFUND  | REFUND   | CLEARED      |
| 2    | 171958  | \$91.00<br>91.00   | 03/07/14<br>01-000-2304-500  | 16576    |         | 0 POLICE SUPERVISORY-UNION DUES<br>PAYROLL FOR 030614   | 030614PAYROLL  | OUTSTANDING  |
| 2    | 171959  | \$85.00<br>85.00   | 03/07/14<br>01-411-4200-000  | 63608    |         | 0 SAMPSON COURTNEY A<br>PARKING CITATION REFUND   | REFUND   | CLEARED      |
| 2    | 171960  | \$1323.00<br>1263.00<br>60.00  | 03/07/14<br>01-361-5980-010<br>01-361-5980-010   | 20152    |         | 0 TEST AMERICA LABORATORIES, INC<br>2013 BLANKET ORDER, EXPIRING<br>DIRECT PAY  | 23-291996  | CLEARED      |
| 2    | 171961  | \$1737.20<br>1265.00<br>371.96<br>100.24   | 03/07/14<br>24-144-5810-000<br>24-144-5810-000<br>24-144-5810-000  | 40974    |         | 0 TIME WARNER CABLE<br>2014 BLANKET ORDER EXPIRING<br>2014 BLANKET ORDER EXPIRING<br>2014 BLANKET ORDER EXPIRING  | 073634601/ MARCH<br>703992101/ MARCH<br>705185101/ MARCH           | CLEARED      |
| 2    | 171962  | \$125.00<br>125.00   | 03/07/14<br>01-000-2303-400  | 50288    |         | 0 UNITED STATES TREASURY<br>PAYROLL FOR 030614  | 030614PAYROLL  | CLEARED      |
| 2    | 171963  | \$191.00<br>191.00   | 03/07/14<br>01-000-2303-100  | 21595    |         | 0 UNITED WAY OF GREATER MILW INC<br>PAYROLL FOR 030614  | 030614PAYROLL  | CLEARED      |
| 2    | 171964  | \$5893.40<br>853.45<br>858.70<br>84.50<br>785.55<br>1064.10<br>378.30<br>1868.80 | 03/07/14<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000<br>16-321-5210-000 | 51746    |         | 0 VISION INSURANCE PLAN OF AMERICA INC<br>MARCH BILLING<br>MARCH BILLING<br>MARCH BILLING<br>MARCH BILLING<br>MARCH BILLING<br>MARCH BILLING<br>MARCH BILLING | 141604<br>141605<br>141606<br>141607<br>141608<br>141609<br>141610 | CLEARED      |
| 2    | 171965  | \$3029.56<br>3029.56   | 03/07/14<br>01-000-2304-300  | 23228    |         | 0 WAUWATOSA PROFESSIONAL FIREFIGHTERS ASSOC<br>PAYROLL FOR 030614   | 030614PAYROLL  | CLEARED      |
| 2    | 171966  | \$5535.97<br>1489.74   | 03/07/14<br>25-181-5340-000  | 23214    |         | 0 WAUWATOSA WATER UTILITY<br>SERVICE 10/23/13 TO 1/31/14  | 0001955001/3-2014  | CLEARED      |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                  | CHECK STATUS       |
|------|---------|------------|-----------------|----------|---------|------------------------------|--------------------|
| WO # |         | AMOUNT     | G/L ACCT #      |          |         | DESCRIPTION                  | INVOICE # INV VEND |
|      |         | 2584.01    | 25-181-5350-000 |          |         | SERVICE 10/23/13 TO 1/31/14  |                    |
|      |         | 29.52      | 50-626-1000-900 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030015001 3/2014  |
|      |         | 45.26      | 50-626-1000-900 |          |         | STORM WATER 10/16/13-1/17-14 | 0030021001 3/2014  |
|      |         | 53.14      | 01-331-5350-000 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030023001 3/2014  |
|      |         | 86.59      | 01-331-5350-000 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030024001 3/2014  |
|      |         | 175.15     | 50-626-1000-900 |          |         | SREVICE 10/16/13 TO 1/17/14  | 0030048001/3-2014  |
|      |         | 88.56      | 01-331-5350-000 |          |         | SERVIC 10/16/14 TO 1/17/14   | 0030050001/3-2014  |
|      |         | 57.07      | 01-331-5350-000 |          |         | 10/16/13 TO 1/17/14          | 0030051001 3/2014  |
|      |         | 246.00     | 01-331-5350-000 |          |         | STORM WATER 10/16/13-1/17/14 | 0030053001-3/2014  |
|      |         | 37.39      | 01-331-5350-000 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030056001/3-2014  |
|      |         | 326.69     | 01-331-5350-000 |          |         | STORM WATER 10/16/13-1/17/14 | 0030061001/3-2014  |
|      |         | 226.32     | 50-626-1000-900 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030078001/3-2014  |
|      |         | 90.53      | 50-626-1000-900 |          |         | SERVICE 10/16/13 TO 1/17/14  | 0030099001 3/2014  |
| 2    | 171967  | \$230.00   | 03/07/14        | 92052    |         | 0 WCTC                       | CLEARED            |
|      |         | 95.00      | 01-211-5420-000 |          |         | CONFESSION LAW UPDATE        | REG: DEISINGER     |
|      |         | 135.00     | 01-211-5420-000 |          |         | POLICING & PROBLEM SOLVING   | REG: MCDERMOTT     |
| 2    | 171968  | \$12778.64 | 03/07/14        | 23641    |         | 0 WE ENERGIES                | CLEARED            |
|      |         | 3329.78    | 27-551-5320-010 |          |         | SERVICE 11614 TO 2/16/14     | 8684-059-496= FEB  |
|      |         | 41.76      | 27-551-5320-015 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 9.58       | 27-551-5320-090 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 1112.18    | 27-551-5320-110 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 87.10      | 27-551-5320-120 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 377.91     | 27-551-5320-130 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 2974.87    | 27-551-5330-010 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 991.96     | 27-551-5330-110 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 2466.01    | 27-551-5330-120 |          |         | SERVICE 11614 TO 2/16/14     |                    |
|      |         | 1387.49    | 27-551-5330-130 |          |         | SERVICE 11614 TO 2/16/14     |                    |
| 2    | 171969  | \$391.00   | 03/07/14        | 91068    |         | 0 WEST ALLIS POLICE DEPT     | CLEARED            |
|      |         | 391.00     | 01-000-2107-000 |          |         | BAIL 14-4723                 | 141048             |
| 2    | 171970  | \$6602.51  | 03/07/14        | 37553    |         | 0 WI SCTF                    | CLEARED            |
|      |         | 6602.51    | 01-000-2303-400 |          |         | PAYROLL FOR 030614           | 030614PAYROLL      |
| 2    | 171971  | \$200.00   | 03/07/14        | 63621    |         | 0 WILSON SANDRA              | CLEARED            |
|      |         | 200.00     | 22-000-2401-300 |          |         | 5002 SECURITY DEPOSIT REFUND | 5002               |
| 2    | 171972  | \$42.13    | 03/07/14        | 23635    |         | 0 WISCONSIN DEPT OF REVENUE  | OUTSTANDING        |
|      |         | 42.13      | 01-000-2303-400 |          |         | PAYROLL FOR 030614           | 030614PAYROLL      |
| 2    | 171973  | \$50858.65 | 03/13/14        | 69875    |         | 0 ADVANCED DISPOSAL SERVICES | OUTSTANDING        |
|      |         | 50858.65   | 01-361-5810-100 |          |         | 8/1/13 THRU 8/31/13          | C60001120798       |
| 2    | 171974  | \$431.88   | 03/13/14        | 58767    |         | 0 AT&T                       | OUTSTANDING        |
|      |         | 138.42     | 01-221-5310-000 |          |         | SERVICE 2/22/14 THRU 3/21/14 | 414453260102/ FEB  |
|      |         | 141.68     | 01-221-5310-000 |          |         | SERVICE 2/16/14 THRU 3/15/14 | 414461485102/ FEB  |
|      |         | 79.71      | 01-221-5310-000 |          |         | SERVICE 2/25/14 THRU 3/24/14 | 414462666002/ FEB  |
|      |         | 72.07      | 04-211-5310-900 |          |         | SERVICE 2/28/14 THRU 3/27/14 | 414463547802 /FEB  |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT   | CHECK DATE   | VENDOR # | ADDRS # | VENDOR NAME   | INVOICE #                        | CHECK STATUS |
|------|---------|---|--|----------|---------|---|----------------------------------|--------------|
| WO # |         | AMOUNT  | G/L ACCT #   |          |         | DESCRIPTION   | INV VEND                         |              |
| 2    | 171975  | \$150.00<br>150.00  | 03/13/14<br>01-000-2107-000  | 26938    |         | 0 CLERK OF COURTS<br>BAIL 14-5419   | 141323                           | OUTSTANDING  |
| 2    | 171976  | \$308.00<br>308.00  | 03/13/14<br>01-000-2101-100  | 63636    |         | 0 COBBINS LINK<br>TRIP REFUND   | TRIP REFUND                      | OUTSTANDING  |
| 2    | 171977  | \$2500.29<br>2500.29  | 03/13/14<br>25-181-5710-000  | 68978    |         | 0 CURTIS HILL<br>IT ROOM  | 21404                            | OUTSTANDING  |
| 2    | 171978  | \$85.00<br>85.00  | 03/13/14<br>01-211-5810-010  | 63633    |         | 0 ECKDALE-DUDLEY RYAN<br>PARKING CITATION REFUND  | REFUND                           | OUTSTANDING  |
| 2    | 171979  | \$56.83<br>56.83  | 03/13/14<br>01-221-5310-000  | 50887    |         | 0 GLOBALSTAR USA<br>1/16/14 THRU 2/15/14  | 1000000005398557                 | CLEARED      |
| 2    | 171980  | \$649.55<br>649.55  | 03/13/14<br>50-142-1100-900  | 63634    |         | 0 GURCHINOFF STEPHEN<br>OVERPAYMENT   | REFUND                           | CLEARED      |
| 2    | 171981  | \$140.56<br>70.28<br>70.28  | 03/13/14<br>01-211-5420-000<br>01-211-5420-000   | 13160    |         | 0 MATC<br>DIGITAL CRIME PHOTOGRAPHY<br>DIGITAL CRIME PHOTOGRAPHY  | REG: ROY<br>REG: GRIFFIN         | OUTSTANDING  |
| 2    | 171982  | \$546.80<br>202.80<br>344.00  | 03/13/14<br>01-000-2107-000<br>01-000-2107-000   | 90962    |         | 0 MENOMONEE FALLS POLICE DEPT<br>BAIL 14-5449<br>BAIL 14-5732   | 141243<br>141284                 | OUTSTANDING  |
| 2    | 171983  | \$70.00<br>70.00  | 03/13/14<br>01-000-2101-200  | 63632    |         | 0 MERIT TITLE<br>OVPYMT 336-0297-00/376-0254-01   | REFUND                           | OUTSTANDING  |
| 2    | 171984  | \$11281.87<br>11281.87  | 03/13/14<br>13-101-5980-030  | 13283    |         | 0 METROPOLITAN MILWAUKEE FAIR HOUSING COUNCIL<br>JANUARY THRU DECEMBER 2013   | MMPHC YEAR 2013                  | CLEARED      |
| 2    | 171985  | \$185978.02<br>185978.02  | 03/13/14<br>50-232-3000-900  | 13732    |         | 0 MILWAUKEE WATER WORKS<br>1/31/14 THRU 2/18/14   | 1-0115.300 2/2014                | OUTSTANDING  |
| 2    | 171986  | \$114.00<br>114.00  | 03/13/14<br>01-000-2101-100  | 63635    |         | 0 MOSS KIARE<br>TRIP REFUND   | TRIP REFUND                      | OUTSTANDING  |
| 2    | 171987  | \$36943.75<br>199.62<br>598.88<br>798.50<br>2395.50<br>413.75<br>1241.25<br>1655.00<br>4965.00<br>534.00<br>1602.00 | 03/13/14<br>03-801-5980-000<br>03-801-5980-000<br>03-803-5980-010<br>03-803-5980-010<br>03-801-5980-000<br>03-801-5980-000<br>03-803-5980-010<br>03-803-5980-010<br>03-801-5980-000<br>03-801-5980-000 | 16807    |         | 0 PROFESSIONAL SERVICE INDUSTRIES INC<br>UWM INNOVATIONS SITE GRADING<br>UWM INNOVATIONS SITE GRADING | 00214113<br>00219433<br>00225055 | CLEARED      |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                    | INVOICE #         | CHECK STATUS |
|------|---------|------------|-----------------|----------|---------|--------------------------------|-------------------|--------------|
| WO # |         | AMOUNT     | G/L ACCT #      |          |         | DESCRIPTION                    | INV VEND          |              |
|      |         | 2136.00    | 03-803-5980-010 |          |         | UWM INNOVATIONS SITE GRADING   |                   |              |
|      |         | 6408.00    | 03-803-5980-010 |          |         | UWM INNOVATIONS SITE GRADING   |                   |              |
|      |         | 201.31     | 03-801-5980-000 |          |         | UWM INNOVATIONS SITE GRADING   | 00231532          |              |
|      |         | 603.93     | 03-801-5980-000 |          |         | UWM INNOVATIONS SITE GRADING   |                   |              |
|      |         | 805.25     | 03-803-5980-010 |          |         | UWM INNOVATIONS SITE GRADING   |                   |              |
|      |         | 2415.76    | 03-803-5980-010 |          |         | UWM INNOVATIONS SITE GRADING   |                   |              |
|      |         | 283.00     | 03-801-5980-000 |          |         | UWM INNOVATION ACCELERATOR BLG | 00231580          |              |
|      |         | 849.00     | 03-801-5980-000 |          |         | UWM INNOVATION ACCELERATOR BLG |                   |              |
|      |         | 1132.00    | 03-803-5980-010 |          |         | UWM INNOVATION ACCELERATOR BLG |                   |              |
|      |         | 3396.00    | 03-803-5980-010 |          |         | UWM INNOVATION ACCELERATOR BLG |                   |              |
|      |         | 215.50     | 03-801-5980-000 |          |         | UWM INNOVATION ACCELERATOR BLD | ER 00225098       |              |
|      |         | 646.50     | 03-801-5980-000 |          |         | UWM INNOVATION ACCELERATOR BLD |                   |              |
|      |         | 862.00     | 03-803-5980-010 |          |         | UWM INNOVATION ACCELERATOR BLD |                   |              |
|      |         | 2586.00    | 03-803-5980-010 |          |         | UWM INNOVATION ACCELERATOR BLD |                   |              |
| 2    | 171988  | \$27.64    | 03/13/14        | 40974    |         | 0 TIME WARNER CABLE            |                   | OUTSTANDING  |
|      |         | 27.64      | 01-221-5310-000 |          |         | 3/1/14 THRU 3/31/14            | 705108201 3/2014  |              |
| 2    | 171989  | \$754.53   | 03/13/14        | 55589    |         | 0 TOOLE DESIGN GROUP LLC       |                   | OUTSTANDING  |
|      |         | 754.53     | 13-101-5900-000 |          |         | PROFESSIONAL SERVICES TO PRODU | 8010JAN10         |              |
| 2    | 171990  | \$2480.39  | 03/13/14        | 13710    |         | 0 U.S. CELLULAR                |                   | OUTSTANDING  |
|      |         | 534.97     | 01-211-5310-000 |          |         | SERVICE 2/824/14 THRU 3/23/14  | 0028093626        |              |
|      |         | 68.77      | 25-181-5310-000 |          |         | SERVICE 2/23/14 THRU 3/23/14   | 0028120342        |              |
|      |         | 157.59     | 01-321-5310-000 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 7.72       | 01-335-5310-100 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 0.66       | 01-421-5980-010 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 0.51       | 01-421-5980-080 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 2.90       | 01-421-5310-000 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 24.89      | 27-551-5310-000 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 25.46      | 16-322-5310-000 |          |         | SERVICE 2/23/14 THRU 3/23/14   |                   |              |
|      |         | 140.90     | 01-322-5310-000 |          |         | SERVICE 1/24/14 THRU 3/23/14   | 0028134736        |              |
|      |         | 74.60      | 01-421-5980-025 |          |         | SERVICE 2/24/14 THRU 3/23/14   | 0028207416        |              |
|      |         | 295.16     | 01-211-5310-000 |          |         | SERVICE 2/24/14 THRU 3/23/14   | 0028294529        |              |
|      |         | 1064.95    | 01-221-5310-000 |          |         | SERVICE 2/26/14 THRU 3/25/14   | 0028574220        |              |
|      |         | 28.15      | 50-662-1000-900 |          |         | SERVICE 2/28/14 THRU 3/27/14   | 0028620638        |              |
|      |         | 53.16      | 01-221-5310-000 |          |         | SERVICE 2/28/14 THRU 3/27/14   | 0028735132        |              |
| 2    | 171991  | \$2842.93  | 03/13/14        | 21450    |         | 0 UNITED MAILING SERVICES INC  |                   | CLEARED      |
|      |         | 2842.93    | 01-000-1831-100 |          |         | 1/27/14 THRU 2/28/14           | 117109            |              |
| 2    | 171992  | \$491.22   | 03/13/14        | 40043    |         | 0 VERIZON WIRELESS             |                   | OUTSTANDING  |
|      |         | 477.03     | 50-662-1000-900 |          |         | SERVICE 1/23/14 THRU 2/22/14   | 9720587874        |              |
|      |         | 14.19      | 01-211-5310-000 |          |         | SERVICE 1/27/14 TO 2/26/14     | 9720828098        |              |
| 2    | 171993  | \$21457.60 | 03/13/14        | 23248    |         | 0 WAUWATOSA SCHOOL DISTRICT    |                   | OUTSTANDING  |
|      |         | 21457.60   | 17-336-5980-040 |          |         | EDUCATIONAL GRANTS-1ST QUARTER | 1ST QUARTER 2014  |              |
| 2    | 171994  | \$14610.61 | 03/13/14        | 23641    |         | 0 WE ENERGIES                  |                   | OUTSTANDING  |
|      |         | 19.27      | 50-603-1000-900 |          |         | SERVICE 1/8/14 TO 2/9/14       | 0000-067-587 /FEB |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                                  | INVOICE #         | CHECK STATUS |
|------|---------|------------|-----------------|----------|---------|--|-------------------|--------------|
| WO # |         | AMOUNT     | G/L ACCT #      |          |         | DESCRIPTION                                  | INV VEND          |              |
|      |         | 8144.94    | 50-623-1000-900 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 3317.33    | 50-623-1000-300 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 457.06     | 50-661-1000-500 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 69.45      | 50-662-1000-100 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 50.93      | 50-662-1000-900 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 2524.13    | 50-624-1000-900 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
|      |         | 27.50      | 50-902-1000-900 |          |         | SERVICE 1/8/14 TO 2/9/14                     |                   |              |
| 2    | 171995  | \$3278.38  | 03/13/14        | 23642    |         | 0 WE ENERGIES                                |                   | OUTSTANDING  |
|      |         | 737.90     | 01-221-5320-000 |          |         | SERVICE 1/15/14 THRU 2/13/14                 | 3674-303-973 FEB  |              |
|      |         | 2540.48    | 01-221-5320-000 |          |         | 1/15/14 THRU 2/12/14                         | 9291-995-740/FEB  |              |
| 2    | 171996  | \$244.00   | 03/13/14        | 63637    |         | 0 WILLIAMS CUEBUS                            |                   | OUTSTANDING  |
|      |         | 244.00     | 01-000-2101-100 |          |         | M633178-0 OVERPAYMENT                        | 139124            |              |
| 2    | 171997  | \$3000.00  | 03/13/14        | 79907    |         | 1 WISCONSIN FAIR HOUSING NETWORK             |                   | OUTSTANDING  |
|      |         | 3000.00    | 13-101-5900-000 |          |         | SPONSORSHIP 2014 EVENT                       | 0002 2/2014       |              |
| 2    | 171998  | \$20000.00 | 03/13/14        | 63638    |         | 0 WISCONSIN WOMEN'S BUSINESS INITIATIVE CORP |                   | OUTSTANDING  |
|      |         | 12980.19   | 13-101-5980-420 |          |         | 1/1/13 THRU 12/31/13                         | C.O.W.-02         |              |
|      |         | 7019.81    | 13-101-5980-420 |          |         | 1/1/13 THRU 9/30/13                          | C.O.W.-01         |              |
| 2    | 171999  | \$100.00   | 03/13/14        | 63631    |         | 0 WOMACK BARBARA                             |                   | OUTSTANDING  |
|      |         | 100.00     | 22-000-2401-300 |          |         | 5010 SECURITY DEPOSIT REFUND                 | 5010              |              |
| 2    | 172000  | \$7238.97  | 03/13/14        | 79906    |         | 0 YMCA OF METROPOLITAN MILWAUKEE             |                   | OUTSTANDING  |
|      |         | 7238.97    | 13-101-5980-385 |          |         | HART PARK SENIOR CENTER                      | FEBRUARY 2014     |              |
| 2    | 172001  | \$390.72   | 03/18/14        | 06370    |         | 0 1ST AYD CORPORATION                        |                   | OUTSTANDING  |
|      |         | 390.72     | 06-201-5690-000 |          |         | CLEANER, WASH AND WAX                        | 625843            |              |
| 2    | 172002  | \$105.00   | 03/18/14        | 01152    |         | 0 ACE BUSINESS MACHINES INC                  |                   | OUTSTANDING  |
|      |         | 105.00     | 01-211-5700-000 |          |         | LABOR -PAPER JAM                             | 115947            |              |
| 2    | 172003  | \$80.00    | 03/18/14        | 80000    |         | 85649 ALLEN PATRICK                          |                   | OUTSTANDING  |
|      |         | 80.00      | 27-551-5430-120 |          |         | SAFETY SHOE REIMBURSEMENT                    | 74616788          |              |
| 2    | 172004  | \$95.00    | 03/18/14        | 01570    |         | 0 AMERICAN CYLINDER GAS                      |                   | OUTSTANDING  |
|      |         | 60.00      | 06-201-5690-000 |          |         | OXYGEN                                       | 68116             |              |
|      |         | 35.00      | 06-201-5690-000 |          |         | CYLINDER RENTAL                              | R38971            |              |
| 2    | 172005  | \$1710.46  | 03/18/14        | 63630    |         | 0 ANDRES MEDICAL BILLING, LTD                |                   | OUTSTANDING  |
|      |         | 1710.46    | 01-221-5810-350 |          |         | FEBRUARY CHARGES                             | 132739            |              |
| 2    | 172006  | \$4847.61  | 03/18/14        | 60607    |         | 0 ANTHEM BCBS                                |                   | OUTSTANDING  |
|      |         | 4847.61    | 16-321-5220-000 |          |         | FEB 2014                                     | 00226423 FEB 2014 |              |
| 2    | 172007  | \$610.00   | 03/18/14        | 07254    |         | 0 ARIEL NETWORKING LLC                       |                   | OUTSTANDING  |
|      |         | 610.00     | 24-144-5810-000 |          |         | LABOR/TRIP CHARGE                            | 3030              |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                                   | INVOICE #     | INV VEND | CHECK STATUS |
|------|---------|------------|-----------------|----------|---------|---|---------------|----------|--------------|
| WO # |         | AMOUNT     | G/L ACCT #      |          |         | DESCRIPTION                                   |               |          |              |
| 2    | 172008  | \$49575.00 | 03/18/14        | 02160    |         | 0 BADGER METER INC                            |               |          | OUTSTANDING  |
|      |         | 18750.00   | 50-101-3431-900 |          |         | 2014 BLANKET ORDER, EXPIRING                  | 13685602      |          |              |
|      |         | 30825.00   | 50-101-3431-900 |          |         | 2014 BLANKET ORDER, EXPIRING                  | 13689205      |          |              |
| 2    | 172009  | \$1953.90  | 03/18/14        | 02128    |         | 0 BADGER TRUCK CENTER - MILWAUKEE             |               |          | OUTSTANDING  |
|      |         | 288.63     | 06-203-5110-000 |          |         | GRILLE  | 596837        |          |              |
|      |         | 25.37      | 06-203-5110-000 |          |         | BEARING                                       | 597336        |          |              |
|      |         | 505.88     | 06-203-5110-000 |          |         | PUMP  | 597825        |          |              |
|      |         | 624.89     | 06-203-5110-000 |          |         | SEAL, PAN AS OIL                              | 597832        |          |              |
|      |         | 221.73     | 06-203-5110-000 |          |         | PIPE, CLAMP                                   | 598148        |          |              |
|      |         | 178.58     | 06-203-5110-000 |          |         | ASSEMBLY                                      | 598180        |          |              |
|      |         | 108.82     | 06-203-5110-000 |          |         | TUBE KIT                                      | 598467        |          |              |
| 2    | 172010  | \$94.60    | 03/18/14        | 02320    |         | 0 BEARINGS INC                                |               |          | OUTSTANDING  |
|      |         | 45.11      | 06-203-5110-000 |          |         | PARTS- CREDIT                                 | 264613CM      |          |              |
|      |         | 110.85     | 06-203-5110-000 |          |         | PARTS   | 412174        |          |              |
|      |         | 28.86      | 06-203-5110-000 |          |         | PARTS   | 41284         |          |              |
| 2    | 172011  | \$47.00    | 03/18/14        | 63585    |         | 0 BENISTAR/UA                                 |               |          | OUTSTANDING  |
|      |         | 47.00      | 16-321-5100-000 |          |         | #36104  | 04012014      |          |              |
| 2    | 172012  | \$1325.00  | 03/18/14        | 45262    |         | 1 BILL TARMAN-RAMCHECK                        |               |          | OUTSTANDING  |
|      |         | 725.00     | 17-336-5810-000 |          |         | PROFESSIONAL CONSULTING SERVIC                | 1401          |          |              |
|      |         | 600.00     | 17-336-5810-000 |          |         | PROFESSIONAL CONSULTING SERVIC                | 1402          |          |              |
| 2    | 172013  | \$180.00   | 03/18/14        | 02607    |         | 0 BONDED TRANSPORTATION SOLUTIONS             |               |          | OUTSTANDING  |
|      |         | 90.00      | 01-211-5810-000 |          |         | 2014 BLANKET ORDER EXPIRING                   | 2985-2940     |          |              |
|      |         | 90.00      | 01-121-5810-000 |          |         | 2014 BLANKET ORDER EXPIRING                   |               |          |              |
| 2    | 172014  | \$134.06   | 03/18/14        | 80000    | 86169   | BRADLEY, KATIE A                              |               |          | OUTSTANDING  |
|      |         | 134.06     | 01-211-5430-000 |          |         | CLOTHING ALLOWANCE                            | MARCH 2014    |          |              |
| 2    | 172015  | \$667.68   | 03/18/14        | 02744    |         | 0 BROOKS TRACTOR INC                          |               |          | OUTSTANDING  |
|      |         | 98.13      | 06-203-5110-000 |          |         | PARTS   | M02997        |          |              |
|      |         | 569.55     | 06-203-5110-000 |          |         | RETAINER PIN, CHISEL                          | M03059        |          |              |
| 2    | 172016  | \$276.00   | 03/18/14        | 03770    |         | 0 BROOKSTONE PRINTING                         |               |          | OUTSTANDING  |
|      |         | 80.00      | 01-132-5210-000 |          |         | BUSINESS CARDS                                | G0034         |          |              |
|      |         | 73.50      | 01-211-5210-000 |          |         | BUSINESS CARDS                                |               |          |              |
|      |         | 122.50     | 01-211-5210-000 |          |         | BUSINESS CARDS                                | G0191         |          |              |
| 2    | 172017  | \$1726.85  | 03/18/14        | 02752    |         | 0 BRUCE MUNICIPAL EQUIPMENT INC               |               |          | OUTSTANDING  |
|      |         | 86.93      | 06-203-5110-000 |          |         | FUEL CAP                                      | 5140666       |          |              |
|      |         | 1639.92    | 06-000-2108-000 |          |         | RUBBER SEAL, BASE                             | 5140805       |          |              |
| 2    | 172018  | \$84.00    | 03/18/14        | 80000    | 86376   | BUDDE ANDREW B                                |               |          | OUTSTANDING  |
|      |         | 84.00      | 01-421-5420-000 |          |         | AUTO ALLOWANCE FEB 2014                       | AUTO FEB 2014 |          |              |
| 2    | 172019  | \$600.00   | 03/18/14        | 61953    |         | 0 BUELOW, VETTER, BUIKEMA, OLSON & VLIET, LLC |               |          | OUTSTANDING  |
|      |         | 600.00     | 01-143-5810-000 |          |         | SERVICE RENDERED                              | 70            |          |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE   | VENDOR # | ADDRS # | VENDOR NAME  | INVOICE #                | CHECK STATUS |
|------|---------|--|--|----------|---------|--|--------------------------|--------------|
| WO # |         | AMOUNT   | G/L ACCT #   |          |         | DESCRIPTION  |                          | INV VEND     |
| 2    | 172020  | \$257.55<br>257.55                               | 03/18/14<br>06-203-5110-000  | 99783    |         | 0 C & M HYDRAULIC TOOL SUPPLY<br>SEAL KIT  | 0114772-IN               | OUTSTANDING  |
| 2    | 172021  | \$1317.50<br>1317.50                             | 03/18/14<br>24-144-5550-000  | 79604    |         | 0 CARAHSOFT TECHNOLOGIES CORP<br>BLANKET ORDER FOR YEAR 2014   | IN167679                 | OUTSTANDING  |
| 2    | 172022  | \$3826.25<br>3826.25                             | 03/18/14<br>01-143-5810-000  | 39992    |         | 0 CARLSON DETTMANN CONSULTING LLC<br>SERVICES RENDERED   | 756                      | OUTSTANDING  |
| 2    | 172023  | \$138.31<br>47.91<br>90.40                       | 03/18/14<br>01-211-5200-000<br>24-144-5700-000                                       | 27699    |         | 0 CDW GOVERNMENT, INC.<br>PARTS<br>PARTS   | JX40871<br>JX55055       | OUTSTANDING  |
| 2    | 172024  | \$1926.55<br>1309.65<br>616.90                   | 03/18/14<br>25-181-5710-000<br>01-213-5710-000                                       | 01908    |         | 0 CINTAS FAS LOCKBOX 636525<br>FIRE EXT INSPECTION<br>FIRE EXT INSPECTION  | OF36070395<br>OF36070461 | OUTSTANDING  |
| 2    | 172025  | \$6203.02<br>6203.02                             | 03/18/14<br>01-211-5810-010  | 62058    |         | 0 COMPLUS DATA INNOVATIONS INC<br>IN STATE TICKET COLLECTIONS  | 26927                    | OUTSTANDING  |
| 2    | 172026  | \$240.44<br>240.44                               | 03/18/14<br>06-000-2108-000  | 38310    |         | 0 COREY OIL, LTD.<br>RED GREASE  | 1284242                  | OUTSTANDING  |
| 2    | 172027  | \$574.76<br>409.78<br>164.98                     | 03/18/14<br>06-201-5600-000<br>06-000-2108-000                                       | 01872    |         | 0 CORPORATE BILLING LLC<br>TOOL<br>SHOE KIT  | 238085<br>238635         | OUTSTANDING  |
| 2    | 172028  | \$1663.00<br>1663.00                             | 03/18/14<br>50-632-1000-900  | 68947    |         | 0 CTW CORPORATION<br>OMEGA COUPLING  | 21706                    | OUTSTANDING  |
| 2    | 172029  | \$1645.00<br>1645.00                             | 03/18/14<br>01-143-5810-000  | 59948    |         | 0 DAVIS & KUELTHAU, S.C.<br>SERVICES THRU 1-31-14  | 374613                   | OUTSTANDING  |
| 2    | 172030  | \$95.04<br>95.04                                 | 03/18/14<br>01-212-5900-000  | 62975    |         | 0 DECK THE WALLS<br>PATCH AND SHIELDS  | 6008                     | OUTSTANDING  |
| 2    | 172031  | \$555.06<br>138.78<br>138.76<br>138.76<br>138.76 | 03/18/14<br>01-335-5810-100<br>04-211-5900-000<br>17-336-5900-000<br>50-186-2000-210 | 19068    |         | 0 DIGGER'S HOTLINE INC.<br>2014 BLANKET ORDER TO COVER<br>ADDITIONAL FUNDING FOR ABOVE<br>ADDITIONAL FUNDING FOR ABOVE<br>ADDITIONAL FUNDING FOR ABOVE | 140 2 76501              | OUTSTANDING  |
| 2    | 172032  | \$60.00<br>60.00                                 | 03/18/14<br>01-231-5400-000  | 50128    |         | 0 EIASEW<br>2014 ELECTRICAL INSPECTION   | 12-2-14                  | OUTSTANDING  |
| 2    | 172033  | \$2130.37<br>612.93<br>1517.44                   | 03/18/14<br>01-221-5690-300<br>01-221-5690-300                                       | 13224    |         | 0 EMERGENCY MEDICAL PRODUCTS<br>2014 BLANKET ORDER TO COVER OU<br>2014 BLANKET ORDER TO COVER OU   | 1626085<br>1626399       | OUTSTANDING  |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                                    | INVOICE #   | CHECK STATUS |
|------|---------|------------|-----------------|----------|---------|--|-------------|--------------|
| WO # |         | AMOUNT     | G/L ACCT #      |          |         | DESCRIPTION                                    | INV VEND    |              |
| 2    | 172034  | \$10968.75 | 03/18/14        | 48521    |         | 0 ENGBERG ANDERSON, INC.                       |             | OUTSTANDING  |
|      |         | 10968.75   | 03-551-5980-000 |          |         | PROFESSIONAL ARCHITECTURAL                     | 10207704-06 |              |
| 2    | 172035  | \$519.59   | 03/18/14        | 06110    |         | 0 FASTENAL COMPANY                             |             | OUTSTANDING  |
|      |         | 20.96      | 06-203-5110-000 |          |         | PARTS  | WIMI3228587 |              |
|      |         | 84.69      | 06-203-5110-000 |          |         | PARTS  | WIMI3228614 |              |
|      |         | 3.42       | 06-203-5110-000 |          |         | PARTS  | WIMI3228684 |              |
|      |         | 9.64       | 06-203-5110-000 |          |         | PARTS  | WIMI3228778 |              |
|      |         | 94.98      | 06-203-5110-000 |          |         | PARTS  | WIMI3228938 |              |
|      |         | 225.58     | 06-203-5110-000 |          |         | PARTS  | WIMI3229124 |              |
|      |         | 80.32      | 06-203-5110-000 |          |         | PARTS  | WIMI3229197 |              |
| 2    | 172036  | \$5545.57  | 03/18/14        | 04321    |         | 0 FERGUSON WATERWORKS #1476                    |             | OUTSTANDING  |
|      |         | 2000.00    | 50-673-1000-900 |          |         | PARTS  | 0145410     |              |
|      |         | 3545.57    | 50-673-1000-900 |          |         | PARTS  | 0145588     |              |
| 2    | 172037  | \$217.68   | 03/18/14        | 51711    |         | 0 FIRST ADVANTAGE OCCUPATIONAL HEALTH SERVICES |             | OUTSTANDING  |
|      |         | 217.68     | 01-143-5810-000 |          |         | 2/1/14 THRU 2/28/14                            | 37621402    |              |
| 2    | 172038  | \$3735.00  | 03/18/14        | 63639    |         | 0 FROEDTERT HEALTH INC                         |             | OUTSTANDING  |
|      |         | 1830.00    | 16-322-5810-000 |          |         | ON SITE BILLING 1/2/14                         | 00000163-00 |              |
|      |         | 1905.00    | 16-322-5810-000 |          |         | ON SITE BILLING 2/6/14                         | 00000184-00 |              |
| 2    | 172039  | \$57.05    | 03/18/14        | 06966    |         | 0 FUEL SYSTEMS INC                             |             | OUTSTANDING  |
|      |         | 51.17      | 06-203-5110-000 |          |         | CRIMP FITTINGS                                 | 427383      |              |
|      |         | 5.88       | 06-203-5110-000 |          |         | SADDLE CLAMP                                   | 427553      |              |
| 2    | 172040  | \$8974.00  | 03/18/14        | 07357    |         | 0 GIELOW'S LAWN & GARDEN EQUIPMENT             |             | OUTSTANDING  |
|      |         | 7889.00    | 27-551-5970-000 |          |         | TORO, MODEL 74930 ZMASTER 5000                 | 140907      |              |
|      |         | 470.00     | 01-561-5670-000 |          |         | ECHO CS271T, 12" BAR CHAINSAW                  |             |              |
|      |         | 365.00     | 01-561-5670-000 |          |         | ECHO CS355T, 16 INCH BAR, CHAI                 |             |              |
|      |         | 250.00     | 27-551-5690-120 |          |         | BIMINI FOLDING SHADE ASM                       | 140908      |              |
| 2    | 172041  | \$160.60   | 03/18/14        | 07670    |         | 0 GRAINGER                                     |             | OUTSTANDING  |
|      |         | 32.10      | 06-203-5110-000 |          |         | PARTS  | 9367539559  |              |
|      |         | 64.20      | 06-201-5690-000 |          |         | PARTS  | 9367950210  |              |
|      |         | 64.30      | 06-201-5690-000 |          |         | CABLE TIE                                      | 9367950228  |              |
| 2    | 172042  | \$50.00    | 03/18/14        | 07998    |         | 0 GRAPHIC EDGE PRINTING                        |             | OUTSTANDING  |
|      |         | 50.00      | 01-321-5200-000 |          |         | ENVELOPES                                      | 56009       |              |
| 2    | 172043  | \$932.00   | 03/18/14        | 07735    |         | 0 GRAY'S INC                                   |             | OUTSTANDING  |
|      |         | 932.00     | 06-000-2108-000 |          |         | TRACKLESS                                      | 31516       |              |
| 2    | 172044  | \$926.04   | 03/18/14        | 07714    |         | 0 GRAYBAR                                      |             | OUTSTANDING  |
|      |         | 749.03     | 01-335-5660-100 |          |         | PARTS  | 971203702   |              |
|      |         | 177.01     | 25-181-5710-000 |          |         | PARTS  | 971203704   |              |
| 2    | 172045  | \$11748.40 | 03/18/14        | 27467    |         | 0 GUNTA LAW OFFICES SC                         |             | OUTSTANDING  |
|      |         | 11748.40   | 08-111-5100-100 |          |         | SERVICES THRU 1/31/14                          | 7559        |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE  | VENDOR # | ADDRS # | VENDOR NAME  | INVOICE #  | CHECK STATUS |
|------|---------|--|---|----------|---------|--|--|--------------|
| WO # |         | AMOUNT   | G/L ACCT #  |          |         | DESCRIPTION  |  | INV VEND     |
| 2    | 172046  | \$187.50<br>187.50   | 03/18/14<br>06-203-5110-000   | 08612    |         | 0 HOLZ MOTORS INC<br>SENSOR  | 816257   | OUTSTANDING  |
| 2    | 172047  | \$73.27<br>73.27   | 03/18/14<br>01-211-5440-000   | 80000    | 85380   | HUDSON LISA<br>CLOTHING ALLOWANCE  | 3/2014   | OUTSTANDING  |
| 2    | 172048  | \$72.80<br>72.80   | 03/18/14<br>06-203-5110-000   | 08828    |         | 0 HUMPHREY SERVICE PARTS, INC.<br>GAS  | 1131997  | OUTSTANDING  |
| 2    | 172049  | \$496.01<br>24.92<br>11.86<br>7.08<br>26.65<br>425.50  | 03/18/14<br>06-203-5110-000<br>06-203-5110-000<br>06-203-5110-000<br>06-203-5110-000<br>06-203-5110-000   | 99731    |         | 0 HYQUIP LLC<br>ELBOW<br>ELBOW<br>ELBOW<br>CLAMP<br>PARTS  | 00264482<br>00264718<br>00264851<br>00265460<br>00265996 | OUTSTANDING  |
| 2    | 172050  | \$2350.00<br>2350.00   | 03/18/14<br>01-613-5890-000   | 62305    |         | 0 IMPACT<br>2014 BLANKET ORDER FOR   | 2ND QUARTER 2014   | OUTSTANDING  |
| 2    | 172051  | \$564.49<br>310.59<br>81.30<br>172.60  | 03/18/14<br>01-111-5240-000<br>01-142-5240-000<br>19-111-5900-030   | 40068    |         | 0 JOURNAL SENTINEL INC<br>2/1/14 THRU 2/28/14<br>2/1/14 THRU 2/28/14<br>2/1/14 THRU 2/28/14  | 700515 FEB   | OUTSTANDING  |
| 2    | 172052  | \$344.10<br>344.10   | 03/18/14<br>06-203-5110-000   | 27390    |         | 0 JX ENTERPRISES INC<br>PARTS  | B-240490047  | OUTSTANDING  |
| 2    | 172053  | \$365.75<br>6.33<br>36.82<br>26.95<br>11.55<br>16.45<br>7.56<br>11.95<br>21.62<br>14.01<br>25.59<br>186.92 | 03/18/14<br>01-111-5210-000<br>01-132-5210-000<br>01-143-5210-000<br>01-151-5210-000<br>01-154-5210-000<br>01-155-5210-000<br>01-161-5210-000<br>01-171-5210-000<br>01-172-5210-000<br>01-231-5210-000<br>01-321-5210-000 | 94367    |         | 4 KONICA MINOLTA<br>ENG COPY MACHINE<br>ENG COPY MACHINE | 24910143   | OUTSTANDING  |
| 2    | 172054  | \$69.54<br>36.35<br>2.89<br>1.44<br>7.46<br>21.40  | 03/18/14<br>01-322-5210-000<br>01-335-5210-100<br>01-561-5210-000<br>06-201-5210-000<br>27-551-5210-000   | 94367    |         | 0 KONICA MINOLTA BUSINESS SOLUTIONS USA INC<br>STREET DEPT COPIER<br>STREET DEPT COPIER<br>STREET DEPT COPIER<br>STREET DEPT COPIER<br>2/1/14 THRU 2/28/14   | 227960661<br>228032221                                   | OUTSTANDING  |
| 2    | 172055  | \$780.00<br>514.00   | 03/18/14<br>01-213-5710-000   | 12308    |         | 0 LANGER ROOFING & SHEET METAL<br>LABOR AND MATERIALS  | 58305  | OUTSTANDING  |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                         | INVOICE #     | CHECK STATUS |
|------|---------|-----------|-----------------|----------|---------|-------------------------------------|---------------|--------------|
| WO # |         | AMOUNT    | G/L ACCT #      |          |         | DESCRIPTION                         | INV VEND      |              |
|      |         | 266.00    | 25-181-5710-000 |          |         | LABOR AND MATERIAL                  | 58308         |              |
| 2    | 172056  | \$7489.04 | 03/18/14        | 12310    |         | 0 LANNON STONE PRODUCTS             |               | OUTSTANDING  |
|      |         | 1136.78   | 50-673-1000-900 |          |         | 2014 BLANKET ORDER NO. 2, EXPI      | -1087337      |              |
|      |         | 3152.32   | 50-673-1000-900 |          |         | 2014 BLANKET ORDER EXPIRING         | 1087168       |              |
|      |         | 249.90    | 50-673-1000-900 |          |         | 2014 BLANKET ORDER EXPIRING         | 1087169       |              |
|      |         | 1094.10   | 01-331-5640-000 |          |         | SAND                                | 1087170       |              |
|      |         | 41.54     | 50-673-1000-900 |          |         | 2014 BLANKET ORDER EXPIRING         | 1087339       |              |
|      |         | 1814.40   | 01-331-5640-000 |          |         | SAND                                | 1087340       |              |
| 2    | 172057  | \$2426.43 | 03/18/14        | 40999    |         | 0 LEMBERG ELECTRIC COMPANY, INC.    |               | OUTSTANDING  |
|      |         | 1635.00   | 25-181-5750-000 |          |         | ELECTRICAL WORK                     | 131269        |              |
|      |         | 791.43    | 25-181-5710-000 |          |         | LABOR                               | 20404         |              |
| 2    | 172058  | \$330.14  | 03/18/14        | 80000    | 85211   | LILLY TIMOTHY                       |               | OUTSTANDING  |
|      |         | 330.14    | 01-211-5440-000 |          |         | CLOTHING ALLOWANCE                  | 3/2014        |              |
| 2    | 172059  | \$565.66  | 03/18/14        | 61890    |         | 0 MEI                               |               | OUTSTANDING  |
|      |         | 565.66    | 25-181-5710-000 |          |         | ELEVATOR REPAIR                     | 303906        |              |
| 2    | 172060  | \$1832.00 | 03/18/14        | 50003    |         | 0 MEI BADGER ELEVATOR INC           |               | OUTSTANDING  |
|      |         | 1832.00   | 25-181-5710-000 |          |         | DOOR EDGE REPLACEMENT               | 303872        |              |
| 2    | 172061  | \$67.20   | 03/18/14        | 80000    | 83472   | MESKE MARK J                        |               | OUTSTANDING  |
|      |         | 67.20     | 01-421-5420-000 |          |         | AUTO ALLOWANCE FEB 2014             | AUTO FEB 2014 |              |
| 2    | 172062  | \$191.10  | 03/18/14        | 27412    |         | 0 MEYER'S PRESSURE CLEANERS, INC.   |               | OUTSTANDING  |
|      |         | 191.10    | 07-301-5710-110 |          |         | UNLOADER                            | 3651          |              |
| 2    | 172063  | \$2904.41 | 03/18/14        | 13329    |         | 0 MID CITY PLUMBING & HEATING, INC. |               | OUTSTANDING  |
|      |         | 499.00    | 50-675-1000-900 |          |         | BALANCE OF FUNDING FOR ABOVE        | 76675         |              |
|      |         | 499.00    | 50-675-1000-900 |          |         | BALANCE OF FUNDING FOR ABOVE        | 76676         |              |
|      |         | 187.00    | 50-675-1000-900 |          |         | BALANCE OF FUNDING FOR ABOVE        | 76677         |              |
|      |         | 499.00    | 50-675-1000-900 |          |         | BALANCE OF FUNDING FOR ABOVE        | 76678         |              |
|      |         | 499.00    | 50-675-1000-900 |          |         | BALANCE OF FUNDING FOR ABOVE        | 76679         |              |
|      |         | 312.42    | 50-673-1000-900 |          |         | 2014 BLANKET ORDER NO. 2 EXPIR      | 76696         |              |
|      |         | 408.99    | 50-673-1000-900 |          |         | 2014 BLANKET ORDER NO. 2 EXPIR      | 76752         |              |
| 2    | 172064  | \$1652.58 | 03/18/14        | 13489    |         | 0 MILWAUKEE CITY OF                 |               | OUTSTANDING  |
|      |         | 1652.58   | 01-335-5320-000 |          |         | JANUARY STREET LIGHTING             | 5140008801    |              |
| 2    | 172065  | \$655.00  | 03/18/14        | 62654    |         | 0 MILWAUKEE COUNTY EMS              |               | OUTSTANDING  |
|      |         | 5.00      | 01-221-5980-015 |          |         | HEARTSAVER CARDS 1/18/14            | PARA 2901     |              |
|      |         | 400.00    | 01-221-5980-050 |          |         | JAN 2014-PROVIDER CARDS             | PARA 2904     |              |
|      |         | 250.00    | 01-221-5980-050 |          |         | ADMIN.FEE 1/1/14 -12/31/14          | PARA 2906     |              |
| 2    | 172066  | \$2557.64 | 03/18/14        | 13705    |         | 0 MILWAUKEE SPRING & ALIGNMENT      |               | OUTSTANDING  |
|      |         | 1542.54   | 06-203-5110-000 |          |         | SPRING                              | 28108         |              |
|      |         | 1015.10   | 06-203-5110-000 |          |         | SPRING                              | 28160         |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                    | CHECK STATUS |
|------|---------|-----------|-----------------|----------|---------|--------------------------------|--------------|
| WO # |         | AMOUNT    | G/L ACCT #      |          |         | DESCRIPTION                    | INVOICE #    |
| 2    | 172067  | \$232.14  | 03/18/14        | 13057    |         | 0 MOORE KENT                   |              |
|      |         | 153.75    | 16-321-5810-000 |          |         | MAILING                        | 13137        |
|      |         | 78.39     | 16-321-5810-000 |          |         | POSTAGE                        |              |
| 2    | 172068  | \$85.01   | 03/18/14        | 13899    |         | 0 MOTION INDUSTRIES INC        |              |
|      |         | 85.01     | 06-203-5110-000 |          |         | BOLTS                          | WI01-321272  |
| 2    | 172069  | \$240.00  | 03/18/14        | 63641    |         | 0 MURPHY DESMOND LAWYERS       |              |
|      |         | 240.00    | 08-111-5100-100 |          |         | SERVICES RENDBERED THRU 3/2/14 | 7957460      |
| 2    | 172070  | \$1211.75 | 03/18/14        | 14055    |         | 0 NAPA AUTO PARTS              |              |
|      |         | 121.07    | 06-203-5110-000 |          |         | BELT , ALTERNATOR              | 114257       |
|      |         | 61.47     | 06-203-5110-000 |          |         | BRAKE PADS                     | 114262       |
|      |         | 27.50     | 06-203-5110-000 |          |         | CORE DEPOSIT                   | 114581       |
|      |         | 27.27     | 06-203-5110-000 |          |         | DISC PAD                       | 114673       |
|      |         | 27.89     | 06-201-5690-000 |          |         | GLOVE                          | 114886       |
|      |         | 7.86      | 06-201-5690-000 |          |         | GLOVES                         | 115296       |
|      |         | 293.25    | 06-203-5110-000 |          |         | HOSE                           | 116068       |
|      |         | 13.30     | 06-203-5110-000 |          |         | CONNECTOR                      | 116910       |
|      |         | 33.65     | 06-203-5110-000 |          |         | ENGINE MOUNT                   | 117101       |
|      |         | 12.84     | 06-203-5110-000 |          |         | SWITCH                         | 117172       |
|      |         | 43.61     | 06-203-5110-000 |          |         | PARTS                          | 117263       |
|      |         | 7.08      | 06-203-5110-000 |          |         | BULB                           | 117309       |
|      |         | 28.14     | 06-203-5110-000 |          |         | BAR FRAME, REPAIR KIT          | 118929       |
|      |         | 64.50     | 06-203-5110-000 |          |         | OIL-FUEL FILTER                | 119051       |
|      |         | 65.88     | 06-000-2108-000 |          |         | PWR STEERING FLUID             | 119182       |
|      |         | 36.48     | 06-203-5110-000 |          |         | PAINT, WIRE                    | 119335       |
|      |         | 9.91      | 06-203-5110-000 |          |         | FILTER                         | 119435       |
|      |         | 34.44     | 06-000-2108-000 |          |         | OIL FILTER                     | 119493       |
|      |         | 43.36     | 06-000-2108-000 |          |         | BULB                           | 120279       |
|      |         | 42.06     | 06-000-2108-000 |          |         | HALOGEN LAMP                   | 120841       |
|      |         | 56.68     | 06-203-5110-000 |          |         | ELBOW                          | 121015       |
|      |         | 2.10      | 06-203-5110-000 |          |         | HOSE CLAMP                     | 121043       |
|      |         | 49.08     | 06-000-2108-000 |          |         | BRAKE                          | 121975       |
|      |         | 17.52     | 06-203-5110-000 |          |         | FILTER                         | 121978       |
|      |         | 3.72      | 06-000-2108-000 |          |         | AIR FILTER                     |              |
|      |         | 55.98     | 06-201-5690-000 |          |         | PARTS                          | 122073       |
|      |         | 15.38     | 06-203-5110-000 |          |         | CAPSULE                        | 122407       |
|      |         | 6.28      | 06-203-5110-000 |          |         | PARTS                          | 122449       |
|      |         | 4.94      | 06-000-2108-000 |          |         | OIL FILTER                     | 123145       |
|      |         | 3.38      | 06-203-5110-000 |          |         | OIL FILTER                     | 123475       |
|      |         | 10.94     | 06-203-5110-000 |          |         | U JOINT                        | 124047       |
|      |         | 10.40     | 06-203-5110-000 |          |         | OIL SEAL                       | 124104       |
|      |         | 99.05     | 06-203-5110-000 |          |         | CONTROL ARM                    | 124739       |
| 2    | 172071  | \$544.70  | 03/18/14        | 14375    |         | 0 NATIONAL SPRING CO INC       |              |
|      |         | 544.70    | 06-203-5110-000 |          |         | BRAKE DRUMS                    | 89867        |
| 2    | 172072  | \$97.50   | 03/18/14        | 14500    |         | 0 NEHER ELECTRIC SUPPLY, INC.  |              |
|      |         | 97.50     | 07-301-5710-100 |          |         | PARTS                          | 334638-00    |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK<br>WO # | CHECK # | CHECK AMT<br>AMOUNT   | CHECK DATE<br>G/L ACCT #   | VENDOR # | ADDRS # | VENDOR NAME<br>DESCRIPTION   | INVOICE #  | CHECK<br>STATUS<br>INV VEND |
|--------------|---------|---|--|----------|---------|--|--|-----------------------------|
| 2            | 172073  | \$72.18<br>72.18  | 03/18/14<br>06-203-5110-000  | 13577    |         | 0 NORTHERN SEWER EQUIPMENT CO. INC.<br>WATER PRESSUE GAUGE   | 8852   | OUTSTANDING                 |
| 2            | 172074  | \$50.00<br>50.00  | 03/18/14<br>01-211-5400-000  | 37938    |         | 0 NOTARY BOND RENEWAL SERVICE<br>NOTARY : GEISZLER & MCATBE  | 38-14  | OUTSTANDING                 |
| 2            | 172075  | \$33.00<br>33.00  | 03/18/14<br>01-143-5810-000  | 03692    |         | 0 OCCUPATIONAL HEALTH CENTERS OF THE SOUTHWEST<br>AUDIOGRAM  | 102184157  | OUTSTANDING                 |
| 2            | 172076  | \$133.70<br>18.36<br>42.84<br>9.82<br>19.64<br>9.82<br>17.65<br>15.57               | 03/18/14<br>50-921-1000-900<br>50-903-1000-900<br>01-132-5210-000<br>01-143-5210-000<br>01-161-5210-000<br>01-421-5210-000<br>01-151-5210-000                    | 15238    |         | 0 OFFICE COPYING EQUIPMENT LTD.<br>#2630 1/20/14 THRU 2/19/14<br>#2630 1/20/14 THRU 2/19/14<br>ATTORNEY COPY MACHINE<br>ATTORNEY COPY MACHINE<br>ATTORNEY COPY MACHINE<br>HEALTH DEPT COPIER<br>#3280 1/20/14 THRU 2/19/14   | C290095<br>C290096<br>C290097<br>C290107                             | OUTSTANDING                 |
| 2            | 172077  | \$928.81<br>318.99<br>168.87<br>18.76<br>56.29<br>9.38<br>225.17<br>103.20<br>28.15 | 03/18/14<br>01-211-5310-000<br>01-221-5310-000<br>01-511-5310-000<br>04-211-5310-000<br>07-301-5310-000<br>25-181-5310-000<br>27-551-5310-000<br>50-921-1000-900 | 62759    |         | 0 PAETEC<br>PHONE MAINT AND CENTRIX LINES<br>PHONE MAINT AND CENTRIX LINES | 57123063   | OUTSTANDING                 |
| 2            | 172078  | \$155.00<br>35.00<br>44.00<br>38.00<br>38.00  | 03/18/14<br>27-551-5710-010<br>07-301-5710-130<br>07-301-5710-130<br>07-301-5710-130   | 27378    |         | 0 PEST PATROL CO. INC.<br>2014 BLANKET ORDER TO COVER PE<br>2014 BLANKET ORDER TO COVER CO<br>2014 BLANKET ORDER TO COVER CO<br>2014 BLANKET ORDER TO COVER CO   | 165785<br>165805<br>165806<br>166086                                 | OUTSTANDING                 |
| 2            | 172079  | \$1379.63<br>318.98<br>251.88<br>316.11<br>178.44<br>160.80<br>153.42               | 03/18/14<br>06-000-2108-000<br>06-000-2108-000<br>06-203-5110-000<br>06-203-5110-000<br>06-203-5110-000<br>06-000-2108-000                                       | 16690    |         | 0 PRECISION SERVICE AND PARTS, INC.<br>ROTOR<br>BRAKE<br>PAD KIT, ROTOR<br>PARTS<br>STRUTS<br>BATTERY CORE   | 10GF9497<br>10GF9967<br>10GG3386<br>10GG5799<br>10GG5800<br>15GG1376 | OUTSTANDING                 |
| 2            | 172080  | \$1437.30<br>874.60<br>562.70   | 03/18/14<br>01-131-5980-030<br>01-131-5980-030   | 62891    |         | 0 PRO MEDIA-STREFF MARKETING GROUP<br>ECONOMY TOTE<br>BIKE BOTTLES   | -223525<br>223524  | OUTSTANDING                 |
| 2            | 172081  | \$263.33<br>213.95<br>49.38   | 03/18/14<br>50-928-1000-900<br>50-928-1000-900   | 16880    |         | 0 PUBLIC SERVICE COMMISSION OF WISCONSIN<br>1/1/14 TO 1/31/14<br>2/1/14 THRU 2/28/14   | 1401-I-06320<br>1402-I-06320   | OUTSTANDING                 |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                       | INVOICE #         | CHECK STATUS |
|------|---------|-----------|-----------------|----------|---------|-----------------------------------|-------------------|--------------|
| WO # |         | AMOUNT    | G/L ACCT #      |          |         | DESCRIPTION                       |                   | INV VEND     |
| 2    | 172082  | \$83.00   | 03/18/14        | 29752    |         | 0 RELIABLE WATER SERVICES         |                   | OUTSTANDING  |
|      |         | 83.00     | 25-181-5810-000 |          |         | HOT WATER                         | INV0177804        |              |
| 2    | 172083  | \$1272.77 | 03/18/14        | 50193    |         | 0 ROAD EQUIPMENT PARTS CENTER     |                   | OUTSTANDING  |
|      |         | 831.88    | 06-000-2108-000 |          |         | BRAKE PAD                         | WM770679          |              |
|      |         | 147.76    | 06-203-5110-000 |          |         | BRAKE SHOE KIT                    | WM771303          |              |
|      |         | 149.20    | 06-000-2108-000 |          |         | STROKE                            | WM771403          |              |
|      |         | 85.93     | 06-000-2108-000 |          |         | CORE                              | WM771671          |              |
|      |         | 58.00     | 06-201-5690-000 |          |         | CABLE TIE                         |                   |              |
| 2    | 172084  | \$122.66  | 03/18/14        | 80000    | 86063   | ROY JOSEPH E                      |                   | OUTSTANDING  |
|      |         | 122.66    | 01-211-5420-000 |          |         | TRAINING REIMBURSEMENT            | REIMBURSE:TRAININ |              |
| 2    | 172085  | \$462.75  | 03/18/14        | 04663    |         | 0 SCHLOSSMANN'S DODGE CITY        |                   | OUTSTANDING  |
|      |         | 962.75    | 06-203-5110-000 |          |         | PARTS                             | 24628             |              |
|      |         | 500.00-   | 06-203-5110-000 |          |         | CORE CREDIT                       | CMCM23777         |              |
| 2    | 172086  | \$3072.69 | 03/18/14        | 19212    |         | 0 SCHOK'S AUTO BODY & REFINISHING |                   | OUTSTANDING  |
|      |         | 1788.52   | 06-203-5190-000 |          |         | REPAIR                            | 22377             |              |
|      |         | 1284.17   | 06-203-5190-000 |          |         | REPAIR                            | 22378             |              |
| 2    | 172087  | \$104.23  | 03/18/14        | 19251    |         | 0 SCHWAAB INC                     |                   | OUTSTANDING  |
|      |         | 25.75     | 01-154-5200-000 |          |         | DATER PADS                        | D62174            |              |
|      |         | 78.48     | 01-121-5200-000 |          |         | SIGNATURE STAMP                   | D62180            |              |
| 2    | 172088  | \$56.93   | 03/18/14        | 80000    | 85953   | SMENT STEVEN D                    |                   | OUTSTANDING  |
|      |         | 56.93     | 01-211-5440-000 |          |         | CLOTHING ALLOWANCE                | MARCH-2014        |              |
| 2    | 172089  | \$616.24  | 03/18/14        | 19876    |         | 0 STEPP EQUIPMENT CO              |                   | OUTSTANDING  |
|      |         | 77.03-    | 06-203-5110-000 |          |         | ROLLER ASSY CREDIT                | 316447CM,         |              |
|      |         | 385.15    | 06-203-5110-000 |          |         | ROLLER ASSY                       | 790353            |              |
|      |         | 308.12    | 06-203-5110-000 |          |         | ROLLER ASSY                       | 791365            |              |
| 2    | 172090  | \$390.00  | 03/18/14        | 80000    | 86432   | STRAUS ERIC A                     |                   | OUTSTANDING  |
|      |         | 390.00    | 01-221-5420-000 |          |         | EDUCATION REIMBURSEMENT           | HY2020            |              |
| 2    | 172091  | \$141.21  | 03/18/14        | 38666    |         | 0 SUNSOURCE                       |                   | OUTSTANDING  |
|      |         | 141.21    | 06-203-5110-000 |          |         | SEAL KIT                          | 4087602-00        |              |
| 2    | 172092  | \$816.00  | 03/18/14        | 63642    |         | 0 TACTICAL SOLUTIONS              |                   | OUTSTANDING  |
|      |         | 816.00    | 01-211-5730-000 |          |         | CERTIFICATION                     | 4173              |              |
| 2    | 172093  | \$1622.00 | 03/18/14        | 20650    |         | 0 TAPCO                           |                   | OUTSTANDING  |
|      |         | 807.00    | 01-242-5810-100 |          |         | REPAIR CONTROLLER                 | I447409           |              |
|      |         | 815.00    | 01-242-5980-020 |          |         | ALUMINUM SQUARE                   | I447495           |              |
| 2    | 172094  | \$644.00  | 03/18/14        | 04789    |         | 0 TOTAL MECHANICAL                |                   | OUTSTANDING  |
|      |         | 644.00    | 25-181-5710-000 |          |         | 2ND FLOOR VAV PROBLEMS            | SRVCE067956       |              |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT  | CHECK DATE      | VENDOR # | ADDRS # | VENDOR NAME                           | CHECK STATUS       |
|------|---------|------------|-----------------|----------|---------|---------------------------------------|--------------------|
| WO # |         | AMOUNT     | C/L ACCT #      |          |         | DESCRIPTION                           | INVOICE # INV VEND |
| 2    | 172095  | \$104.13   | 03/18/14        | 23920    |         | 0 TRUCK COUNTRY OF WISC               | OUTSTANDING        |
|      |         | 91.01      | 06-203-5110-000 |          |         | SWITCH                                | X203357235:01      |
|      |         | 13.12      | 06-203-5110-000 |          |         | LENS, GAUGE                           | x203357235:02      |
| 2    | 172096  | \$19249.87 | 03/18/14        | 27289    |         | 0 TWIN CITY SECURITY, INC.            | OUTSTANDING        |
|      |         | 6470.99    | 01-214-5810-000 |          |         | 2014 BLANKET ORDER TO COVER           | 12136168           |
|      |         | 6389.44    | 01-214-5810-000 |          |         | 2014 BLANKET ORDER TO COVER           | 12136209           |
|      |         | 6389.44    | 01-214-5810-000 |          |         | 2014 BLANKET ORDER TO COVER           | 12136246           |
| 2    | 172097  | \$80.00    | 03/18/14        | 80000    | 83825   | TWINEM DALE R                         | OUTSTANDING        |
|      |         | 80.00      | 50-673-1000-900 |          |         | SAFETY SHOE REIMBURSEMENT             | 727370             |
| 2    | 172098  | \$4973.31  | 03/18/14        | 04075    |         | 0 UNEMPLOYMENT INSURANCE              | OUTSTANDING        |
|      |         | 1942.56    | 01-614-5990-000 |          |         | 2/1/14 THRU 2/28/14                   | 000005776454       |
|      |         | 1480.00    | 01-211-5920-000 |          |         | 2/1/14 THRU 2/28/14                   |                    |
|      |         | 353.47     | 01-322-5920-000 |          |         | 2/1/14 THRU 2/28/14                   |                    |
|      |         | 556.28     | 01-561-5920-000 |          |         | 2/1/14 THRU 2/28/14                   |                    |
|      |         | 641.00     | 27-551-5930-000 |          |         | 2/1/14 THRU 2/28/14                   |                    |
| 2    | 172099  | \$228.06   | 03/18/14        | 62117    |         | 0 UNIFIRST CORPORATION                | OUTSTANDING        |
|      |         | 18.95      | 01-221-5810-000 |          |         | WIPERS, CLOTHING                      | 096 0794097        |
|      |         | 50.37      | 06-201-5430-000 |          |         | CLOTHING                              | 096 0794282Q       |
|      |         | 25.91      | 01-221-5810-000 |          |         | WIPERS, CLOTHING                      | 096 0795072        |
|      |         | 51.12      | 06-201-5430-000 |          |         | CLOTHING                              | 096 0795255        |
|      |         | 1.88       | 04-211-5430-000 |          |         | COVERALLS                             | 096 0795256        |
|      |         | 2.82       | 01-331-5430-000 |          |         | COVERALLS                             |                    |
|      |         | 1.00       | 07-301-5630-000 |          |         | COVERALLS                             |                    |
|      |         | 10.00      | 01-335-5690-000 |          |         | MATS                                  | 096 0795304        |
|      |         | 4.23       | 01-335-5430-100 |          |         | COVERALLS                             |                    |
|      |         | 18.95      | 01-221-5810-000 |          |         | WIPERS, COVERALLS                     | 096 0796052        |
|      |         | 1.00       | 07-301-5630-000 |          |         | MOP                                   | 096 0796242        |
|      |         | 1.88       | 04-211-5430-000 |          |         | COVERALLS                             |                    |
|      |         | 2.82       | 01-331-5430-000 |          |         | COVERALLS                             |                    |
|      |         | 20.93      | 50-956-1000-900 |          |         | COVERALLS                             | 096 0796261        |
|      |         | 16.20      | 50-955-1000-900 |          |         | MATS                                  |                    |
| 2    | 172100  | \$23890.21 | 03/18/14        | 60752    |         | 0 UNITED HEALTHCARE INSURANCE COMPANY | OUTSTANDING        |
|      |         | 26919.06   | 16-321-5100-000 |          |         | 4/1/14 THRU 4/30/14                   | 00324330190        |
|      |         | 586.71     | 01-616-5990-000 |          |         | 2/1/14 THRU 2/28/14                   | 0034224156         |
|      |         | 3615.56    | 16-321-5100-000 |          |         | 7/1/13 THRU 3/31/14                   | 0034330314         |
| 2    | 172101  | \$1079.64  | 03/18/14        | 21910    |         | 0 UPTOWN MOTORS INC                   | OUTSTANDING        |
|      |         | 652.00     | 06-203-5190-000 |          |         | BODY REPAIR                           | 305841             |
|      |         | 364.38     | 06-203-5110-000 |          |         | PANEL ASSY , HOUSING                  | 319215             |
|      |         | 63.26      | 06-203-5110-000 |          |         | HOSE ASY                              | 319435             |
| 2    | 172102  | \$649.19   | 03/18/14        | 63643    |         | 0 USA HEATING & COOLING               | OUTSTANDING        |
|      |         | 649.19     | 25-181-5710-000 |          |         | LABOR                                 | E-2649             |
| 2    | 172103  | \$1002.09  | 03/18/14        | 61317    |         | 0 VANTAGEPOINT TRANSFER AGENTS        | OUTSTANDING        |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
 CHECK REGISTER  
 DATE RANGE: 03/05/14 - 03/18/14

| BANK<br>WO #                       | CHECK # | CHECK AMT<br>AMOUNT                 | CHECK DATE<br>G/L ACCT #  | VENDOR #      | ADDRS # | VENDOR NAME<br>DESCRIPTION  | INVOICE #                           | INV VEND | CHECK<br>STATUS |
|------------------------------------|---------|-------------------------------------|---|---------------|---------|---|-------------------------------------|----------|-----------------|
|                                    |         | 1002.09                             | 16-321-5300-000   |               |         | SICK LEAVE CONVERSION   | 2013 CORRECTION                     |          |                 |
| 2                                  | 172104  | \$79954.75<br>79954.75              | 03/18/14<br>01-571-5990-000                                       | 07805         |         | 0 VISIT MILWAUKEE INC<br>2ND QUARTER -OCCUPANCY TAX   | 14684                               |          | OUTSTANDING     |
| 2                                  | 172105  | \$45.00<br>45.00                    | 03/18/14<br>01-211-5400-100                                       | 58981         |         | 0 W.F.S.A.A.<br>2014 MEMBERSHIP RENEWAL   | 29-013-14                           |          | OUTSTANDING     |
| 2                                  | 172106  | \$247.50<br>220.00<br>22.00<br>5.50 | 03/18/14<br>01-211-5810-000<br>01-211-5810-000<br>06-201-5810-000 | 23151         |         | 0 WASH BRITE<br>2013 BLANKET ORDER TO COVER<br>2013 BLANKET ORDER TO COVER<br>CAR WASH # M74          | 185 FEB 2014<br>223 FEB<br>FEB 2014 |          | OUTSTANDING     |
| 2                                  | 172107  | \$213.00<br>183.00<br>30.00         | 03/18/14<br>01-132-5400-000<br>01-132-5400-000                    | 95185         |         | 0 WCMA<br>2014 DUES: ARCHAMBO<br>DUES: BROWN  | 2014<br>2014 DUES                   |          | OUTSTANDING     |
| 2                                  | 172108  | \$850.00<br>1150.00<br>300.00-      | 03/18/14<br>06-203-5110-000<br>06-203-5110-000                    | 61157         |         | 0 WELLER AUTO PARTS<br>RECORDED CAC/CORE CHARGE<br>CORE CHARGE  | 8593240<br>8593605                  |          | OUTSTANDING     |
| 2                                  | 172109  | \$40.00<br>40.00                    | 03/18/14<br>01-211-5400-000                                       | 62817         |         | 0 WI DEPT OF FINANCIAL INSTITUTIONS<br>NOTARY -GEISZLER / MCATBE                                      | 38-14                               |          | OUTSTANDING     |
| 2                                  | 172110  | \$780.00<br>780.00                  | 03/18/14<br>16-322-5810-000                                       | 37857         |         | 0 WISCONSIN ATHLETIC CLUB<br>WELLNESS: FEBRUARY   | 3213                                |          | OUTSTANDING     |
| 2                                  | 172111  | \$140.00<br>140.00                  | 03/18/14<br>01-211-5900-000                                       | 23629         |         | 0 WISCONSIN DEPARTMENT OF JUSTICE<br>2/1/14 TO 2/28/14  | G1034T FEB 2014                     |          | OUTSTANDING     |
| 2                                  | 172112  | \$11938.39<br>11938.39              | 03/18/14<br>01-154-5980-100                                       | 23631         |         | 0 WISCONSIN DEPT OF REVENUE<br>2013 MUNICIPAL FEE /ASSESSMENT   | 2013 MUNI FEE                       |          | OUTSTANDING     |
| 2                                  | 172113  | \$100.00<br>100.00                  | 03/18/14<br>01-121-5400-000                                       | 23736         |         | 0 WISCONSIN MUNICIPAL JUDGES ASSOCIATION<br>2014 MEMBERSHIP DUES                                      | 2014 DUES                           |          | OUTSTANDING     |
| 2                                  | 172114  | \$3962.30<br>1976.85<br>1985.45     | 03/18/14<br>50-673-1000-900<br>50-673-1000-900                    | 23952         |         | 0 WOLF CONSTRUCTION COMPANY, INC.<br>2014 BLANKET ORDER NO. 2, EXPI<br>2014 BLANKET ORDER NO. 2, EXPI | 25403<br>25405                      |          | OUTSTANDING     |
| 2                                  | 172115  | \$93.49<br>93.49                    | 03/18/14<br>01-211-5420-000                                       | 80000         |         | 85722 ZIELINSKI KELLY<br>TRAINING REIMBURSEMENT   | REIMB: TRAINING                     |          | OUTSTANDING     |
| 2                                  | 172116  | \$2650.00<br>2650.00                | 03/18/14<br>50-673-1000-900                                       | 26373         |         | 0 ZIGNEGO READY MIX INC<br>SLURRY   | 38377                               |          | OUTSTANDING     |
| TOTAL # OF ISSUED CHECKS:          |         |                                     | 188   | TOTAL AMOUNT: |         | 2606796.57  |                                     |          |                 |
| TOTAL # OF VOIDED/REISSUED CHECKS: |         |                                     | 0   | TOTAL AMOUNT: |         | 0.00  |                                     |          |                 |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
CHECK REGISTER  
DATE RANGE: 03/05/14 - 03/18/14

| BANK | CHECK # | CHECK AMT | CHECK DATE | VENDOR # | ADDRS # | VENDOR NAME | INVOICE # | INV VEND | CHECK STATUS |
|------|---------|-----------|------------|----------|---------|-------------|-----------|----------|--------------|
| WO # |         | AMOUNT    | G/L ACCT # |          |         | DESCRIPTION |           |          |              |

TOTAL # OF ACH CHECKS: 0      TOTAL AMOUNT: 0.00

TOTAL # OF UNISSUED CHECKS: 0

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

FUND TOTALS

| FUND    | FUND NAME                     | ISSUED TOTAL | VOIDED/REISSUED TOTAL |
|---------|-------------------------------|--------------|-----------------------|
| 001     | GENERAL FUND                  | 546,293.42   | 0.00                  |
| 002     | DEBT SERVICE FUND             | 804,926.36   | 0.00                  |
| 003     | CAPITAL PROJECTS FUND         | 47,912.50    | 0.00                  |
| 004     | SANITARY SEWER RESERVE        | 237,730.72   | 0.00                  |
| 006     | FLEET MAINTENANCE RESERVE     | 22,335.94    | 0.00                  |
| 007     | PUBLIC WORKS BUILDING RESERVE | 419.98       | 0.00                  |
| 008     | GENERAL LIABILITY RESERVE     | 11,988.40    | 0.00                  |
| 009     | WORKERS COMPENSATION RESERVE  | 17,020.03    | 0.00                  |
| 012     | DENTAL INSURANCE RESERVE      | 7,854.70     | 0.00                  |
| 013     | CDBG PROGRAM FUND             | 42,275.37    | 0.00                  |
| 016     | HEALTH/LIFE INSURANCE RESERVE | 304,695.61   | 0.00                  |
| 017     | STORM SEWER RESERVE FUND      | 219,876.75   | 0.00                  |
| 019     | TAX INCREMENTAL DISTRICT FUND | 172.60       | 0.00                  |
| 022     | AGENCY FUND                   | 835.00       | 0.00                  |
| 024     | INFORMATION SYSTEMS RESERVE   | 3,755.10     | 0.00                  |
| 025     | MUNICIPAL COMPLEX RESERVE     | 14,820.92    | 0.00                  |
| 027     | PARKS RESERVE                 | 21,823.13    | 0.00                  |
| 050     | WATER UTILITY                 | 302,060.04   | 0.00                  |
| TOTAL - |                               | 2,606,796.57 | 0.00                  |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

**GEMS SYSTEM  
DEPARTMENT CODES**

**ACCOUNT # STRUCTURE**

XX - XXX - XXXX-XXX  
Fund - Dept - Detail Line Item

**GENERAL FUND 01**

**GENERAL GOVERNMENT**

**LEGISLATIVE**

|                                  |     |
|----------------------------------|-----|
| Common Council                   | 111 |
| Youth Commission                 | 113 |
| Historic Preservation Commission | 114 |
| Senior Commission                | 115 |

**JUDICIAL**

|                 |     |
|-----------------|-----|
| Municipal Court | 121 |
|-----------------|-----|

**EXECUTIVE**

|                     |     |
|---------------------|-----|
| Mayor               | 131 |
| City Administration | 132 |

**GENERAL ADMINISTRATION**

|                 |     |
|-----------------|-----|
| City Clerk      | 141 |
| Elections       | 142 |
| Human Resources | 143 |

**FINANCIAL ADMINISTRATION**

|                  |     |
|------------------|-----|
| City Comptroller | 151 |
| City Assessor    | 154 |
| Purchasing       | 155 |
| City Treasurer   | 156 |

**LEGAL**

|               |     |
|---------------|-----|
| City Attorney | 161 |
|---------------|-----|

**URBAN PLANNING**

|                      |     |
|----------------------|-----|
| City Planning        | 171 |
| Economic Development | 172 |

**BUILDINGS & PLANT**

|                |     |
|----------------|-----|
| Police Station | 213 |
|----------------|-----|

**PUBLIC SAFETY**

**POLICE SERVICES**

|                   |     |
|-------------------|-----|
| Police Department | 211 |
| Police Reserves   | 212 |
| Crossing Guards   | 214 |

**FIRE SERVICES**

|                        |     |
|------------------------|-----|
| Fire Department        | 221 |
| Fire Equipment Reserve | 223 |

**INSPECTIONS**

|                              |     |
|------------------------------|-----|
| Building Regulation          | 231 |
| Weights & Measures           | 232 |
| Property Maintenance Program | 233 |

**OTHER PUBLIC SAFETY**

|                 |     |
|-----------------|-----|
| Traffic Control | 242 |
|-----------------|-----|

**TRANSPORTATION-GENERAL**

**ENGRG & OPERATIONS ADMIN**

|                             |     |
|-----------------------------|-----|
| Engineering                 | 321 |
| Public Works Operation Mgmt | 322 |

**STREETS & HIGHWAYS**

|                     |     |
|---------------------|-----|
| Roadway Maintenance | 331 |
| Electrical Services | 335 |

**OTHER TRANSPORTATION**

|                                 |     |
|---------------------------------|-----|
| Public Works Facilities Outside | 351 |
|---------------------------------|-----|

**SANITATION**

|                        |     |
|------------------------|-----|
| Solid Waste Management | 361 |
|------------------------|-----|

**HEALTH & SOCIAL SERVICES**

**HEALTH CARE SERVICES**

|                       |     |
|-----------------------|-----|
| Public Health Nursing | 421 |
| Environmental Health  | 422 |
| Health Administration | 423 |

**CULTURE**

|                         |     |
|-------------------------|-----|
| Public Library          | 511 |
| Public Library-Pictures | 512 |

**RECREATION**

|             |     |
|-------------|-----|
| July Fourth | 522 |
|-------------|-----|

**CONSERVATION OF  
NATURAL RESOURCES**

|          |     |
|----------|-----|
| Forestry | 561 |
|----------|-----|

**OTHER LEISURE ACTIVITIES**

|                |     |
|----------------|-----|
| Vist Milwaukee | 571 |
|----------------|-----|

**NON-DEPARTMENTAL & GENERAL**

**EMPLOYEE PENSION & BENEFITS**

|                                     |     |
|-------------------------------------|-----|
| Employee Assistance Plan            | 613 |
| Unemployment Benefits               | 614 |
| Special Death & Disability Benefits | 615 |
| Flexible Spending Account           | 616 |
| Undistributed Payroll               | 619 |

**OTHER GENERAL**

|                                 |     |
|---------------------------------|-----|
| Remission of Taxes              | 621 |
| Contribution for Uncollectables | 622 |
| MADAC                           | 623 |
| Litigation Reserve              | 624 |
| Internal Granting               | 625 |

**TRANSFERS TO OTHER FUNDS**

**INTRA-FUND TRANSFERS**

|                      |     |
|----------------------|-----|
| Intra-Fund Transfers | 912 |
|----------------------|-----|

**INTER-FUND TRANSFERS**

|                      |     |
|----------------------|-----|
| Inter-Fund Transfers | 921 |
|----------------------|-----|

**OTHER FUNDS**

|                                   |    |
|-----------------------------------|----|
| Debt Service Fund                 | 02 |
| Capital Projects Fund             | 03 |
| Sanitary Sewer Reserve            | 04 |
| Fleet Maintenance Reserve         | 06 |
| Public Works Bldg Res             | 07 |
| General Liability Reserve         | 08 |
| Worker's Comp Reserve             | 09 |
| Trust and Agency Fund             | 10 |
| Redevelopment Authority Res       | 11 |
| Dental Insurance Reserve Fund     | 12 |
| C.D.B.G. Fund                     | 13 |
| Health/Life Ins Reserve Fund      | 16 |
| Storm Water Mgmt Reserve          | 17 |
| Special Assessments               | 18 |
| Tax Incremental Districts         | 19 |
| Redevelopment Authority Lease     | 21 |
| Rev. Bd. Fd.                      |    |
| General Purpose Equipment Res     | 23 |
| Information Systems Reserve       | 24 |
| Municipal Complex Reserve         | 25 |
| Information Systems Equip Reserve | 26 |
| Parks Reserve                     | 27 |
| Water Utility                     | 50 |

Attachment: 03-18-14 Bills and Claims (2058 : Bills and Claims 3-18-14)

CITY OF WAUWATOSA  
Resolution

R-14-55

By: Board of Public Works

---

BE IT RESOLVED, by the Common Council of the City of Wauwatosa, THAT permission be and is hereby granted to Kristin Termuehlen, French County Pine & Design, 1423 Underwood Avenue, Wauwatosa, WI, to encroach onto City right-of-way with a two seat arbor and potted plants, subject to the applicant executing unto the City of Wauwatosa an indenture setting forth the terms, provisions, and conditions relating to the granting of the aforesaid permission by said City to said applicant.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor

CITY OF WAUWATOSA  
Resolution

R-14-56

By: Board of Public Works

---

WHEREAS, Sections 13.04.320 C. and D. of the Wauwatosa Municipal Code require private water mains to be laid directly from public mains to the parcel being served without crossing other parcels; and

WHEREAS, provision of water service for the new Nordstrom store at Mayfair Mall cannot be accomplished without allowing the private water main to cross at least two other parcels, which are owned by Bon Ton Stores and Mayfair Properties; and

WHEREAS, the owner of Mayfair Mall has provided that the Nordstrom parcel will have a cross-access easement over the other two parcels in order to have full rights to access and service the proposed water main via a proposed Water Utility Easement Agreement which was presented to the Board of Public Works at its meeting of March 17, 2014;

NOW THEREFORE BE IT RESOLVED THAT an exception to the provisions of Sections 13.04.320 C. and D. of the Wauwatosa Municipal Code is hereby approved in order to provide water service to the new Nordstrom store to be located on a separate parcel at Mayfair Mall, conditioned upon execution and recording of the Water Utility Easement Agreement which was presented to the Board of Public Works at its meeting of March 17, 2014, a copy of which is contained within the record of said meeting.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_  
Clerk

Approved \_\_\_\_\_

\_\_\_\_\_  
Mayor

CITY OF WAUWATOSA  
Resolution

R-14-57

By: Board of Public Works

---

BE IT RESOLVED, by the Common Council of the City of Wauwatosa THAT permission be and the same is hereby granted to the proper City officials to execute the five-year Management Agreement with Tosa Tonight, Inc., for the Rotary Pavilion at Hart Park, a copy of which was provided to the Board of Public Works at its meeting of March 17, 2014, and is contained in the proceedings of that meeting.

Passed and Dated \_\_\_\_\_

\_\_\_\_\_

Clerk

Approved \_\_\_\_\_

\_\_\_\_\_

Mayor