

JCAC

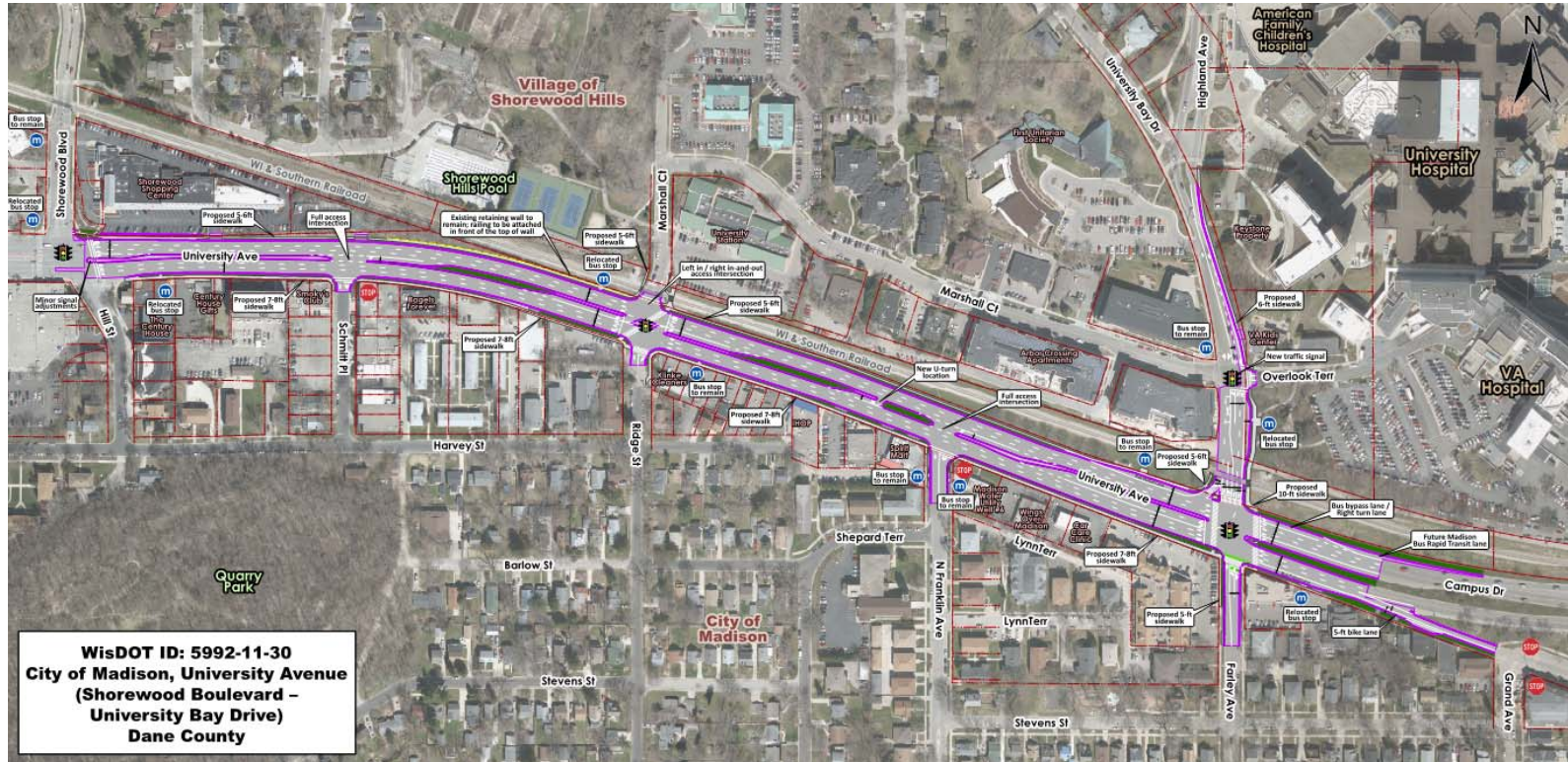
# University Avenue

(Shorewood Blvd – University Bay Dr)

May 28, 2020



# Project Overview



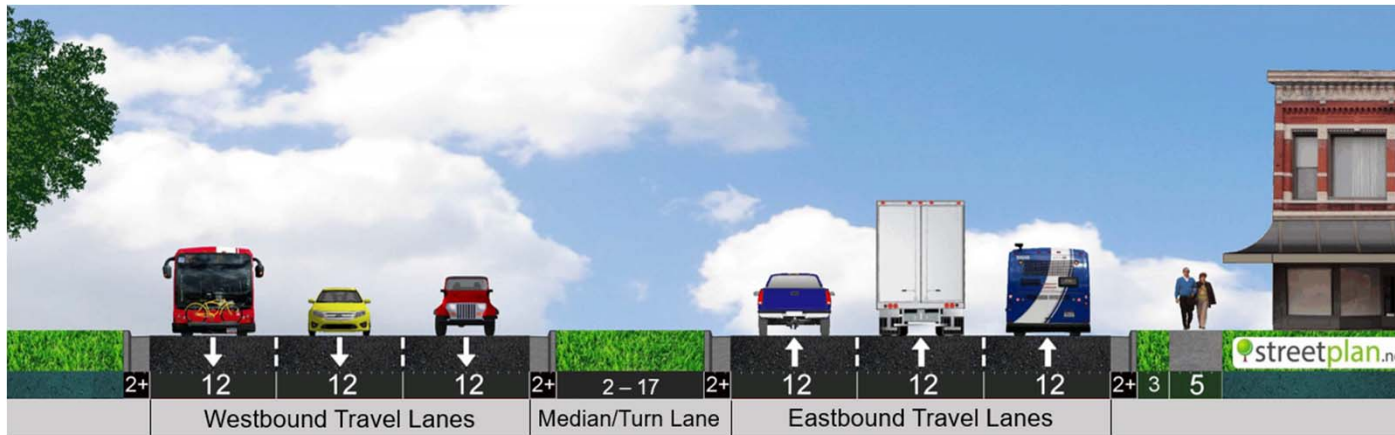
# Project Needs



- Poor pavement condition
- Substandard roadway geometrics
- Lack of bicycle accommodations
- Absence of pedestrian facilities
- Safety and operations inefficiencies at intersections
- Pedestrian/bicycle crossing on University Bay Drive of Campus Drive Bike Path
- Insufficient stormwater drainage collection and conveyance

# University Ave. – Typical Section

## Existing Typical Section



Existing Section  
(Looking East)

- 3-12' driving lanes in each direction
- Sidewalk with narrow terrace only on south side
- No bicycle accommodations
- Speed limit 35 mph

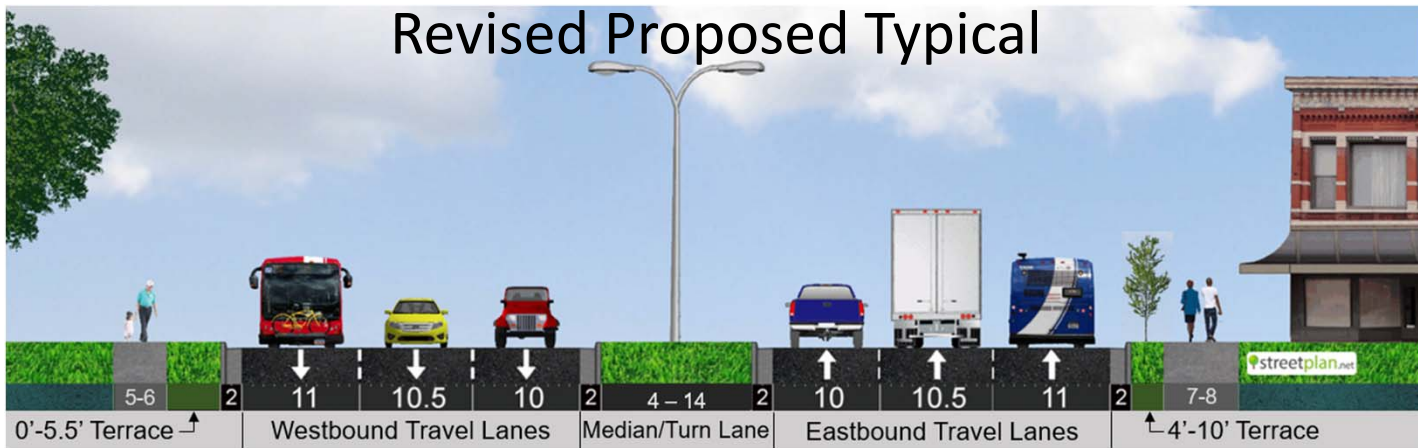
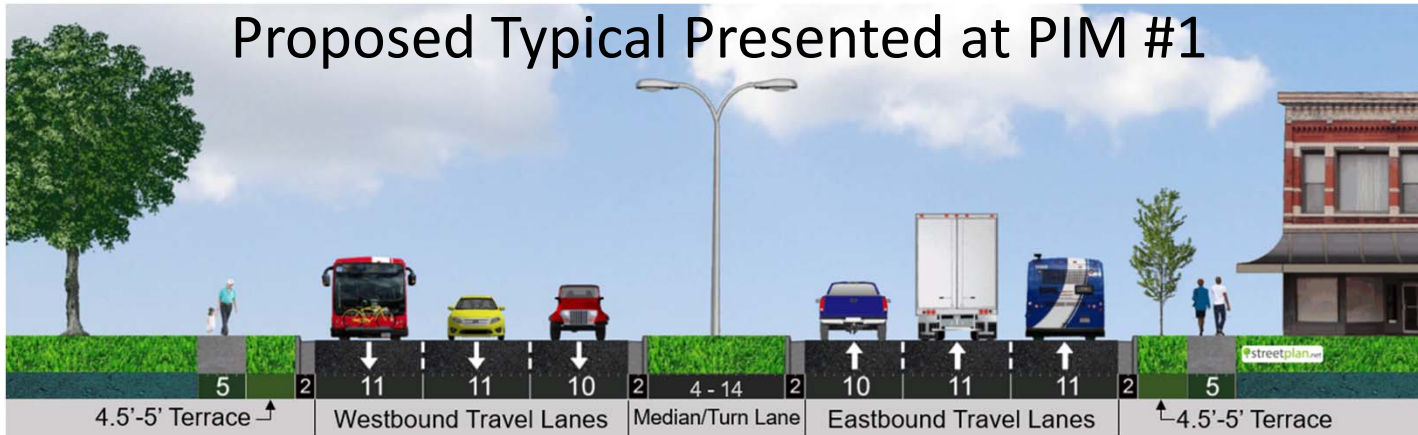
# University Ave. – Typical Section

Multiple Alternatives Considered:

- Narrower lane widths
- On-street bicycle lanes
- Wider terrace widths
- Multi-use side path on south side of street
- Standard 5-foot sidewalk on both sides of street

Alternative	North Side								South Side								L - Total width	Max. Width
	A - Sidewalk Path	B - Terrace	C - Bike Lane	E - Curb	D - Outside Lane	F - Center Lane	G - Inside Lane	H - Median	G - Inside Lane	F - Center Lane	D - Outside Lane	E - Curb	I - Bike Lane	J - Terrace	K - Sidewalk Path			
Existing			0	2.5	12	12	12	15	12	12	12	2.5	0	3.5	5	105.00		
Segoe to Shorewood			4.5	2	11	11	11	15	11	11	11	2	4.5	3.5	5	106.00		
Shorewood to Ridge Street																		
1	5	4	0	2	10	11	10	18	10	11	10	2	0	4	10	105.00	105	
2	0	5	4	2	10	11	10	18	10	11	10	2	0	4	10	105.00		
3	5	5.5	0	2	11	11	10	18	10	11	11	2	0	5.5	5	105.00		
4	5	4.5	0	2	10	11	10	18	10	11	10	2	4	4.5	5	105.00		
5	10	4	0	2	10	11	10	18	10	11	10	2	0	4	5	105.00		
6	8	3	0	2	10	11	10	18	10	11	10	2	4	3	5	105.00		
7	7	0	4	2	10	11	10	18	10	11	10	2	4	3	5	105.00		
8	5	3.5	0	2	14	10	10	18	10	10	14	2	0	3.5	5	105.00		
9	4.5	3.5	0	2	10.5	11	10	17	10	11	10.5	2	0	4	9	103.00		
Ridge Street to University Bay																		
1	5	4.5	0	2	10	11	10	18	10	11	10	2	0	4.5	10	106.00	106	
2	0	5	4	2	10	11	10	18	10	11	10	2	0	5	10	106.00		
3	5	6	0	2	11	11	10	18	10	11	11	2	0	6	5	106.00		
4	5	5	0	2	10	11	10	18	10	11	10	2	4	5	5	106.00		
5	10	4.5	0	2	10	11	10	18	10	11	10	2	0	4.5	5	106.00		
6	8	3.5	0	2	10	11	10	18	10	11	10	2	4	3.5	5	106.00		
7	7	0	4	2	10	11	10	18	10	11	10	2	4	4	5	106.00		
8	5	4	0	2	14	10	10	18	10	10	14	2	0	4	5	106.00		
9	4.5	3.5	0	2	10.5	11	10	17	10	11	10.5	2	0	4	9	103.00		

# University Ave. – Typical Section



# University Ave. – Typical Section

## Proposed Typical Section PIM #1

- 10 & 11-foot driving lanes
- New 5-foot sidewalk on north side
- Existing 5-foot sidewalk on south side to remain
- Feedback requested that design team look at bicycle accommodations on south side of University Avenue

## Proposed Typical Section PIM #2

- 10, 10.5 & 11-ft driving lanes
- New 5-foot sidewalk on north side
- Widened 7-8-foot sidewalk on south side
- Wider terrace widths
- Possible 30 mph speed limit

# Proposed Improvements



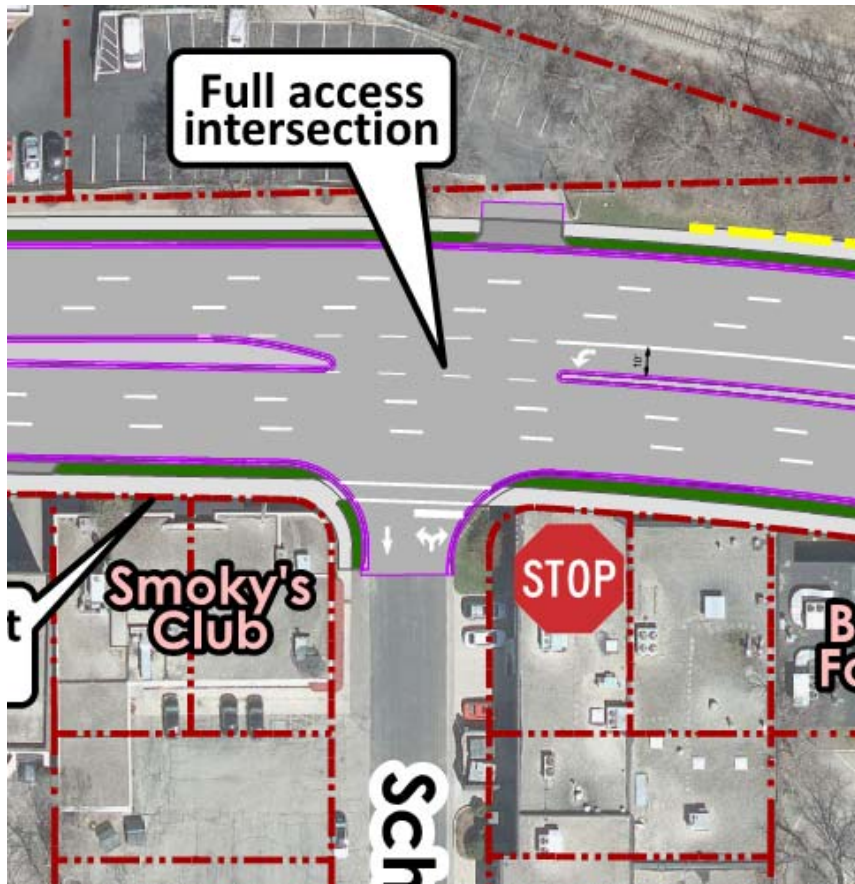
Hilldale Way/University Avenue intersection

## Safety and Operations Improvements

- New traffic signals
- Westbound crest curve improvement
- Dual eastbound left turn at University Bay Drive
- Leading pedestrian interval
- Count down timers



# Proposed Improvements

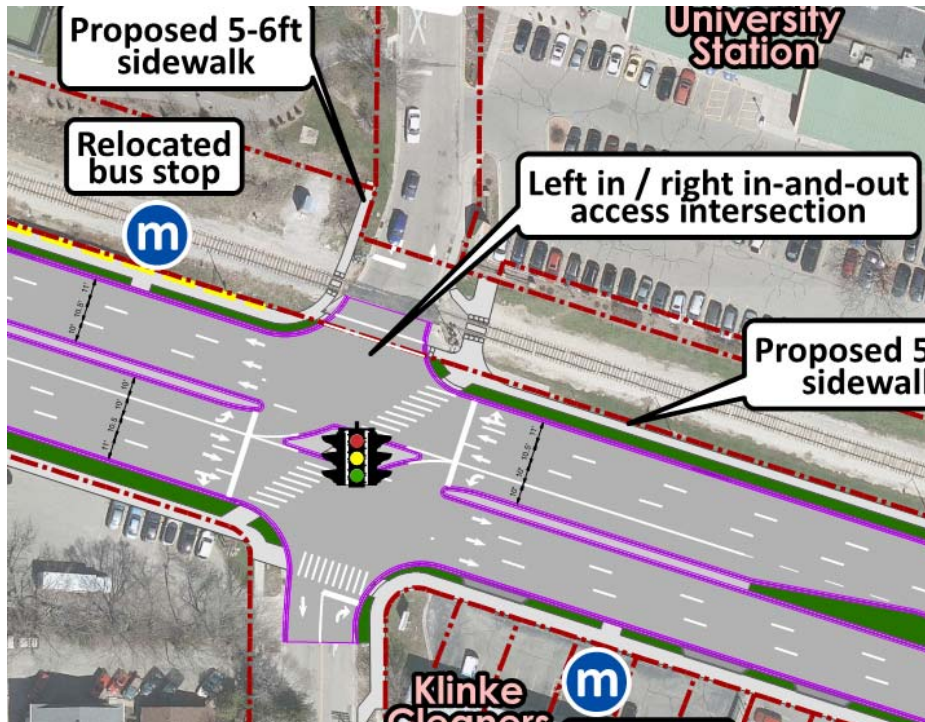


## Schmitt PI – Draft

- Previous design closed median
- Feedback requested that median remain open
- Design now maintains existing configuration
- Truck only left turn out

# Proposed Improvements

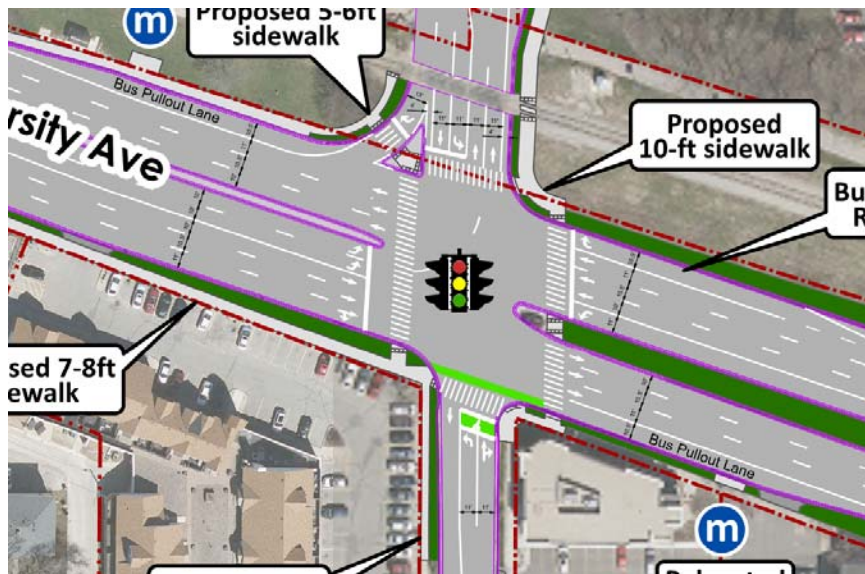
## Marshall Ct/Ridge St – Draft



- Maintain configuration – left turn out from Marshall Ct. and Ridge St. prohibited
- University Ave. left turn lanes lengths maintained
- U-turn near intersection
- Sidewalk on north Side (access to new multi-use path)
- Removed SE crossing to median
- Far side WB bus stop

# Proposed Improvements

## University Bay Dr./Farley Ave. – Draft



- Dual EB left turn lanes
- Far side EB bus pullout
- Far side WB bus pullout to remain
- WB bus bypass lane/right turn lane
- Improved east side crossing
- Tabletop crossing NW quadrant

# Proposed Improvements

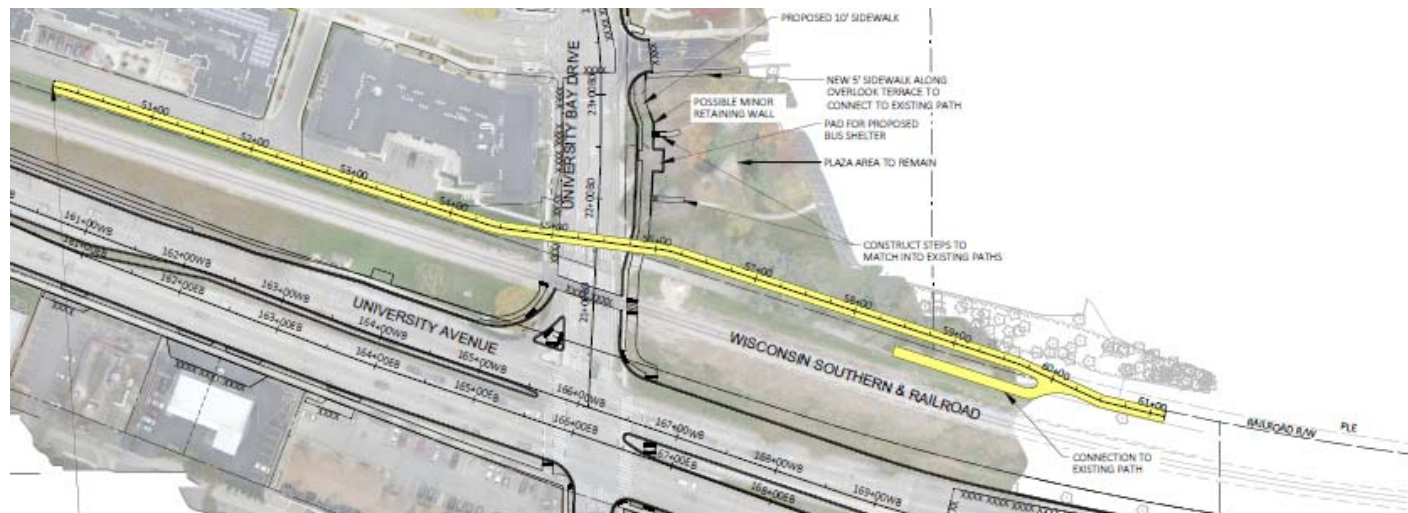


## University Bay Drive – Draft

- Two northbound lanes from University Ave. to Overlook Terr.
- Northbound bicycle lane & southbound shared lane
- Northbound bus pullout
- 10-ft sidewalk on east side from University Bay Dr. to Overlook Terr.
- New 6-ft sidewalk on east side from Overlook Terr. to Children’s Hospital
- New traffic signal at Overlook Terr.

# Proposed Improvements

## University Bay Drive – Grade Separated Overpass Bike/Ped Crossing



- Feasibility Study completed
- Overpass is the most cost effective with fewest impacts
- Prefabricated steel truss bridge, ramps supported on piers

# Metro Transit

## Bus Accommodations

- Bus Stop Pull outs
  - EB University Ave. after Farley Ave.
  - University Bay Dr. NB after railroad tracks
- Bus Stops moved to far side
  - WB University Ave. after Marshall Ct.
  - EB University Ave. after Hill St.
  - EB University Ave. after Farley Ave.



# Metro Transit

## Bus Accommodations (Cont.)

- Bus Stops to remain in place
  - WB University Ave. Pull out after University Bay Dr.
  - EB University Ave. after Ridge St.
  - WB after Shorewood Blvd.
  - N. Franklin Ave at University Ave. in both directions
  - University Bay Drive at Marshall Court in both directions

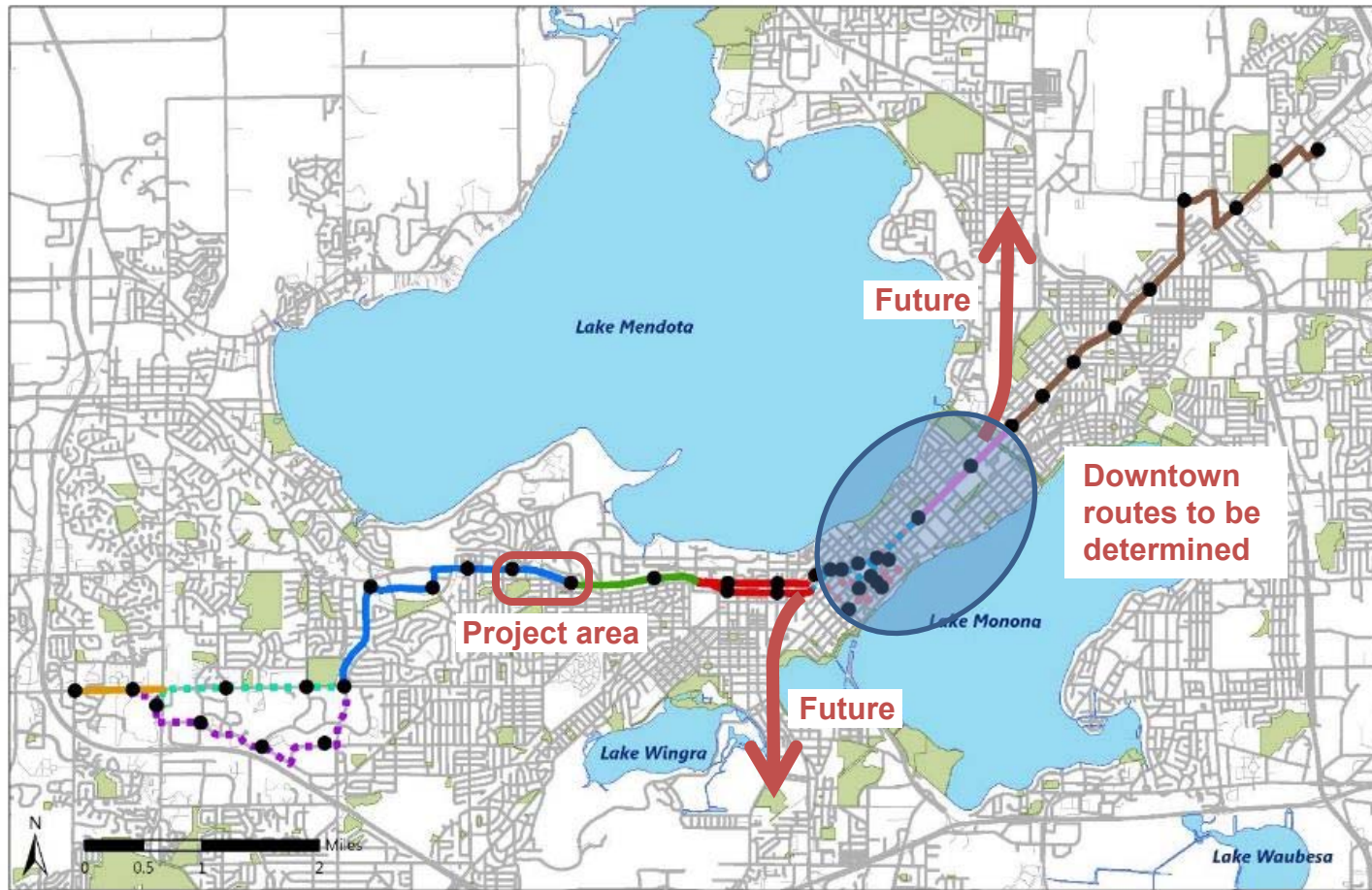
# Madison Bus Rapid Transit (BRT)

- University Ave. is part of the first planned route between East Towne and West Towne
  - Planned stations at University Bay Drive and Shorewood Boulevard
- Operate in mixed traffic with limited stops, signal priority, and off-board fare collection
- Westbound bypass lane at University Bay
- Project will accommodate future shoulder running on Campus Drive for BRT buses when traffic is heavy
- Coordination with BRT Study Team is ongoing





# Madison Bus Rapid Transit (BRT)



# University Avenue Watershed

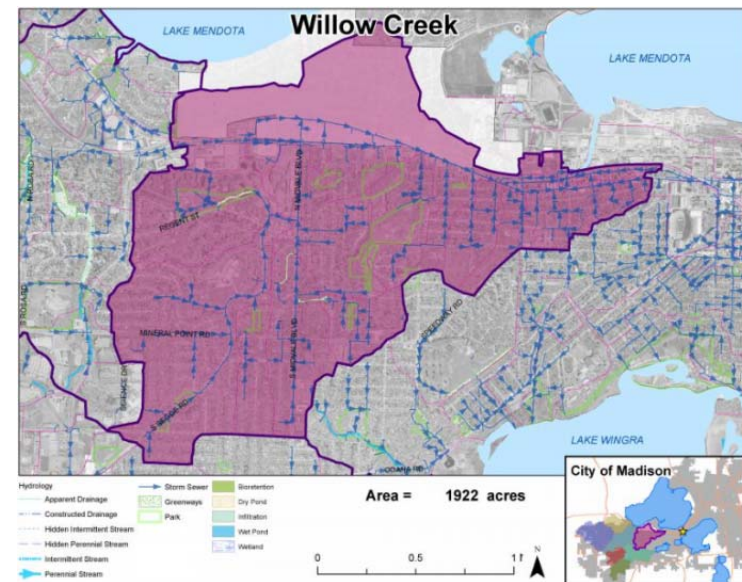
## University Avenue Watershed

- Update existing local storm sewer structures and inlets
- Conducting feasibility study on large diameter storm pipes/tunnel options
  - Feasibility study complete; design alternatives chosen based on funding availability
  - Design solutions will not preclude large tunnel options in future if/when funding becomes available
- Willow Creek Watershed Study in the City of Madison will kick off winter/spring 2020
  - Completed Concurrently with University Avenue design



# University Avenue Storm Sewer

- Extend 96” diameter storm sewer pipe west on University Ave.
  - Provides greater flow capacity
  - Conveys stormwater from University-Shorewood intersection to the Willow Creek outfall (by UW School of Veterinary Medicine)
- Future:
  - Additional expansion of stormwater infrastructure will be evaluated during the Willow Creek watershed study



# Project Schedule

## Winter 2019/2020 – Spring 2020

- Environmental Document
- Preliminary Plans & R/W Plat
- City and Village Approvals (Feb/March)

## Spring 2020 – Fall 2020

- Final Environmental Document
- Complete 60% Plans, R/W Plat
- 3<sup>rd</sup> Public Involvement Meeting

## Fall 2020 – Spring 2021

- Final Plans & Real Estate Acquisition

## Winter/Spring 2022 - Fall 2022

- Construction



# Project Website & Notifications

## University Avenue



Last Updated: 11/25/2019

### Project Details

University Ave is scheduled for reconstruction from Shorewood Boulevard/Hill St to University Bay Drive/Farley Ave. A map of the project limits can be found here: [Project Limits PDF](#). The City of Madison is jointly participating with the Village of Shorewood Hills on the design and construction. The project includes reconstruction of pavement, curb & gutter, sidewalk as necessary, street lighting, traffic signals, water main, sanitary sewer and storm sewer. Design alternatives will include analysis to try and improve pedestrian & bicycle connectivity, bus rapid transit initiatives and stormwater drainage.

### Schedule

Construction is scheduled for 2021

### Public Meetings

Public Information Meeting No. 2: 6 p.m., Dec. 18, 2019, Best Western Inn Towner 2424 University Avenue  
Presentation will be posted closer to date of meeting

Public Information Meeting No. 1: 6 p.m., June 13, 2019, UW Credit Union Corporate Headquarters, 3500 University Ave.

[Presentation PDF](#)

[Preliminary Plan Overview PDF](#)

### Project Details

**Project Type:** [Road Construction](#)

**Location(s):**

• 2737 University Avenue  
Madison, WI 53705

☆ **Area:** West

■ **Aldermanic District(s):** [District 5](#)

■ **Estimated Schedule:** 04/01/2021 to 11/01/2021

● **Project Status:** In Design

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☰ [Active Project List](#)

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<https://www.cityofmadison.com/engineering/projects/university-avenue>

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Please Complete and Return Comment Forms by January 8, 2020



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# Presentation Q & A

