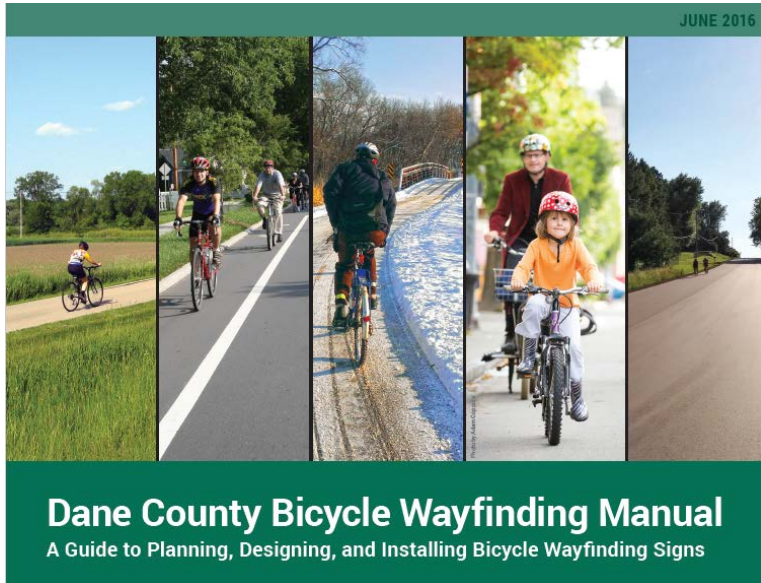


Dane County Bicycle Wayfinding


March 2, 2017

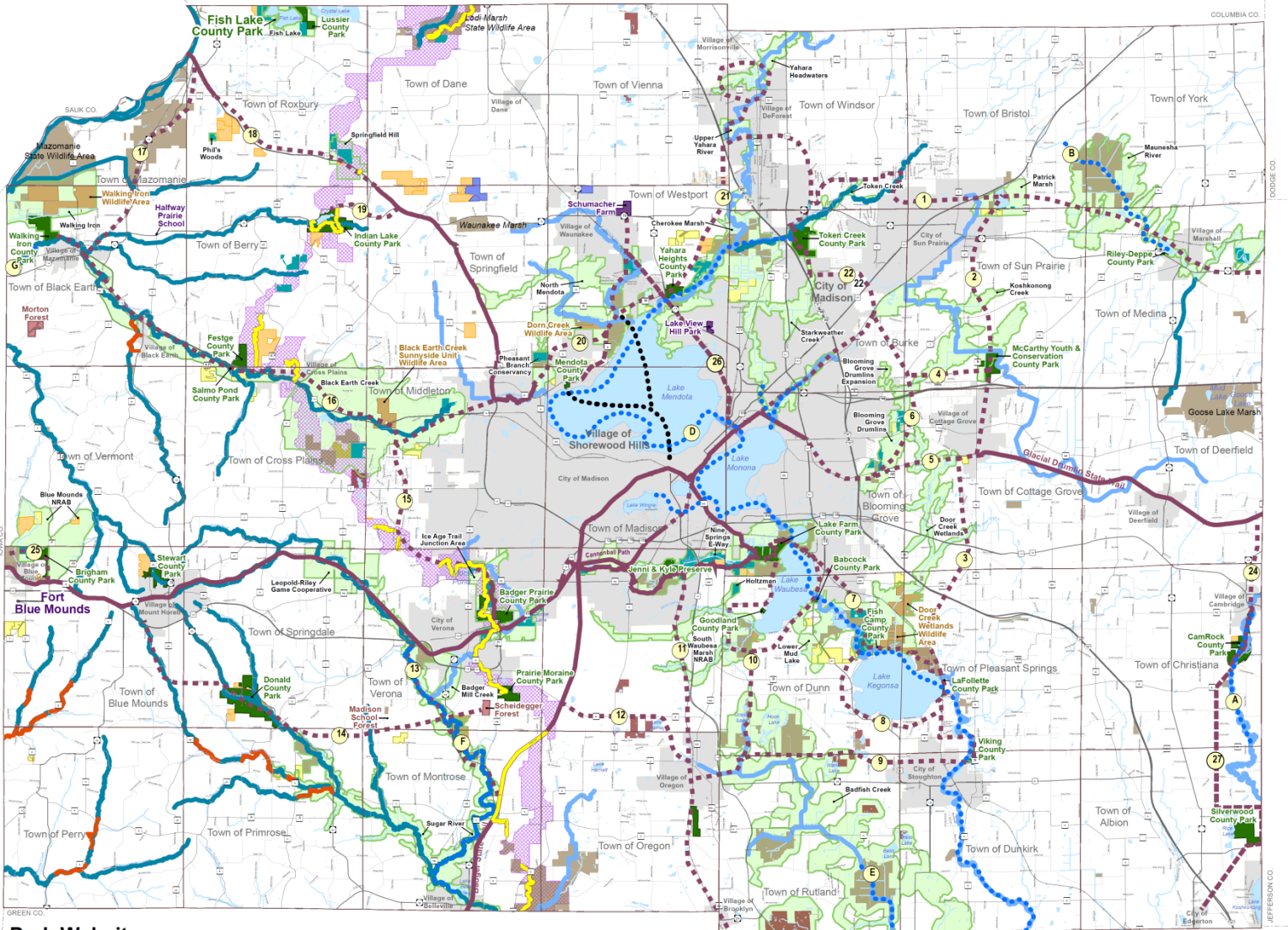


Introductions



Why Wayfinding?

- For Riders
 - Higher level of comfort for riders, especially new riders
 - Guidance on less intuitive routes
 - Provide navigational assistance and helps in finding destinations
 - For Municipalities
 - Consistency across jurisdictional boundaries
 - Simplify implementation
 - Support bicycle encouragement
 - Increase awareness and promotion of parks
- 



Legend

Dane County Park Commission Lands

- Recreation Park
- Forest
- Historical/Cultural Site
- Natural Resource Area Property
- Wildlife Area
- Land & Water Legacy Wetland Sites
- Dane County Conservation Easements
- Dane County Streambank Easements
- Conservation Fund Grant Properties*

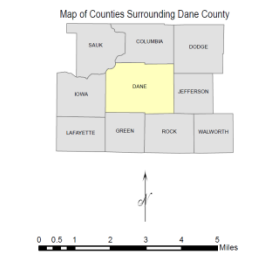
Dane County Project Areas

- Natural Resource Area Boundary (NRAB)
- Ice Age National Scenic Trail Corridor
- Tier I Stream
- Tier II Stream

Existing and Proposed Regional Trails

- Existing Off-road Bicycle/Pedestrian Trails
- Existing Ice Age National Scenic Trail
- Proposed Off-road Bicycle/Pedestrian Trails
- Proposed Bicycle Pedestrian Ferry
- Water Trails

* Conservation Fund Grant Properties are lands or easements acquired by local units of government or non-profits with assistance from the Dane County Conservation Fund Grant Program.



Reference Layers

- DNR Public Lands
- US Fish and Wildlife Lands
- National Park Service Lands
- Urban Service Area
- Resource Protection Corridor
- Lakes or Open Water
- Perennial Stream
- Railroad
- Township Boundary

* More detailed water trail information can be found at www.captiva/trails.org

Land & Water Resources Department

Data Sources:
 Recreation Parks, School & Community Forests, Historical/Cultural Sites, Wildlife Areas, Natural Resource Area Properties, and Natural Resource Area Boundaries: Dane County Parks Data (2011).
 Ice Age National Scenic Trail Corridor: Ice Age Park & Trail Foundation (2000).
 Trail Land Tier I Easements: Dane County Parks Data (2006).
 Existing Bicycle/Pedestrian Trails: Madison Area Metropolitan Planning Commission (2011).
 Existing Ice Age National Scenic Trail: Ice Age Park & Trail Foundation (2011).
 Proposed Off-road Bicycle/Pedestrian Trail and Ferry: Dane County Parks Data (2011).
 Water Trails: Dane County Parks Data (2006).
 State/Federal Lands: Dane County Parks Data (2011).
 Resource Protection Corridor: Capital Area Regional Planning Commission (2011).
 Urban Service Area: Capital Area Regional Planning Commission (2011).
 Railroad: Capital Area Regional Planning Commission (2011).
 Hydrography: CMPO/Info-derived (2005).
 Township Boundary: Dane County (2011).

Map Created by Land & Water Resources Department 03/07/2012
 File Location: \\P:\Parks\Maping\PCSP\2012\2017_POSPMap\PCSP2012_Poster_Files\Map

Park Websites
 POSP Map: http://www.countyofdane.com/lwrp/parks/open_space_plan.aspx
 Parks Brochure: <http://www.countyofdane.com/lwrp/parks/brochure.aspx>
 Park Information: <http://www.countyofdane.com/lwrp/parks/parks.aspx>

Proposed Off-Road Bicycle Pedestrian Trails

- 11. Fitchburg/Oregon Rail Trail
- 12. Oregon to Badger State Trail
- 13. Sugar River Trail
- 14. Sugar River to Mount Horeb Trail
- 15. Black Earth Creek to Pope Farm Park to Badger Prairie Co. Park
- 16. Black Earth Creek Trail
- 17. Mazomanie to Sauk City Rail Trail
- 18. Highway 12 Connector Trail
- 19. Indian Lake Spur Trail

- 20. North Mendota Trail
- 21. Upper Yahara River Trail
- 22. DeForest to Sun Prairie Trail
- 23. Starkweather Creek Trail
- 24. Glacial Drumlin to Rockdale Trail
- 25. Blue Mounds Loop
- 26. Sherman Flyer Trail
- 27. CamRock Co. Park to Silverwood Co. Park to City of Edgerton

Water Trails**

- A. Koshkonong Creek
- B. Mauneha River
- C. Starkweather Creek
- D. Yahara Chain
- E. Badfish Creek
- F. Sugar River
- G. Black Earth Creek

Dane County Park Commission Lands

Lands identified as Dane County Park Commission Lands are owned or leased by the Dane County Park Commission. All lands purchased by the Park Commission are identified as a park, forest, historical/cultural site, wildlife area, or natural resource area in the Parks & Open Space Plan.

Dane County Project Areas
 Dane County project areas include lands within a Natural Resource Area Boundary or the Ice Age National Scenic Trail Corridor and lands along Tier I and Tier II streams. The Dane County Park Commission has the authority to purchase land rights within these designated areas from willing sellers. Lands within these areas are also eligible for Conservation Fund Grants.

Existing and Proposed Regional Trails

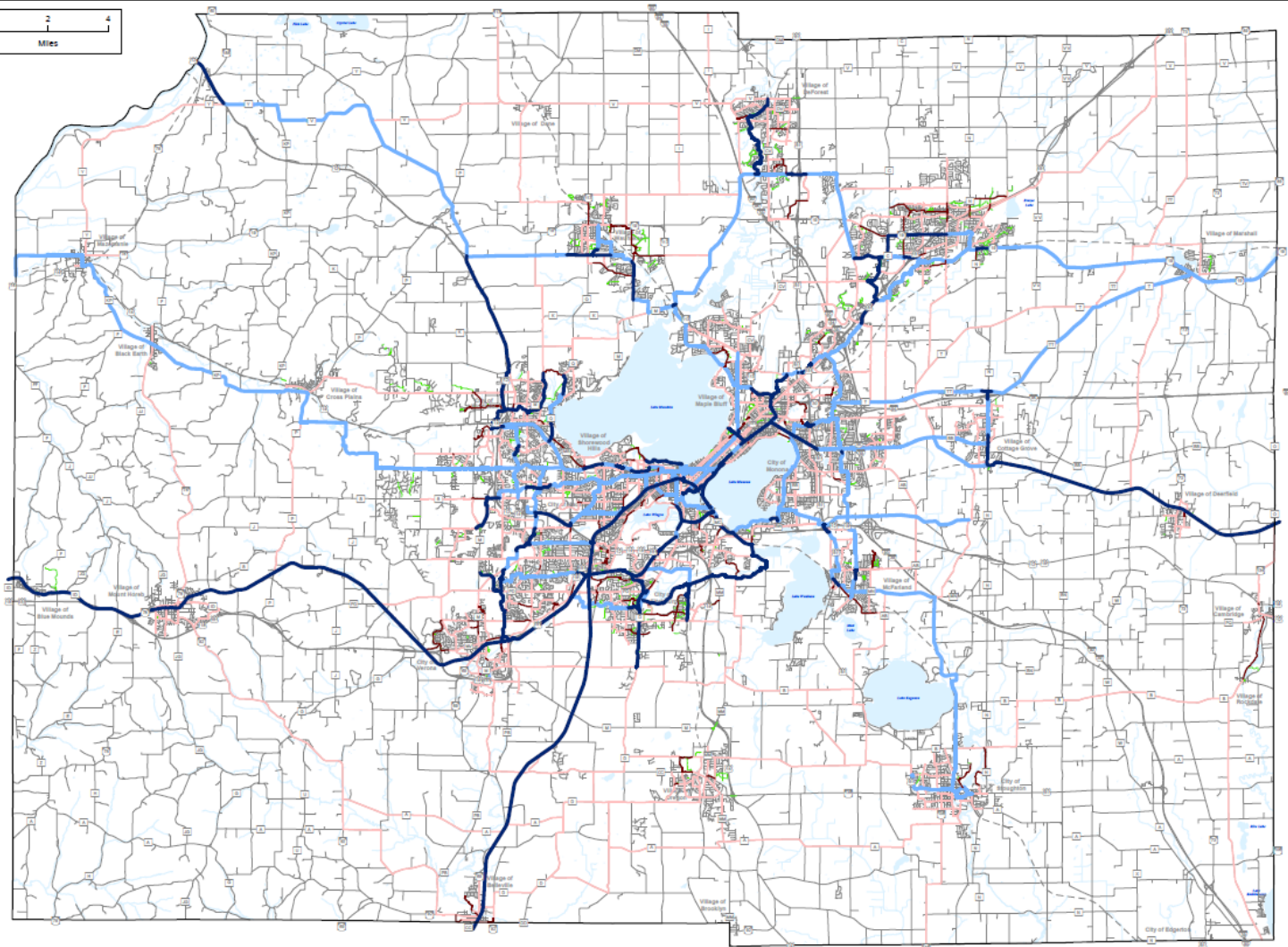
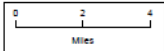
Existing and proposed regional trails are trail corridors that provide connections to areas within the County of regional significance. The Dane County Park Commission has the authority to purchase land or land rights from willing sellers near or underlying existing or proposed trails. Lands for regional trails are also eligible for Conservation Fund Grants.

Reference Layers
 Reference layers include existing infrastructure, landuse, hydrology, and state/federal land within Dane County. The Dane County Park Commission does not have the authority to purchase land rights in these areas, nor are lands within these areas eligible for Conservation Fund Grants.

Bicycle Transportation Plan

Madison Metropolitan Area and Dane County

Existing Bicycle Functional Class Dane County



- Primary Bicycle Network**
 - Primary (Shared Use Path)
 - Primary (On Street)
- Secondary Bicycle Network**
 - Secondary (Shared Use Path)
 - Secondary (On Street)
- Other Bicycle Facilities**
 - Other Existing Shared Use Paths

Prepared by staff to the
Transportation Planning Board
A Regional Planning Organization (RPO)

T-P-B
Transportation Planning Board
A Regional Planning Organization (RPO)

Source: GIS
Map Date: 10/2010
Map Scale: 1:50,000
Map Projection: NAD 83
Map Datum: NAD 83
Map Spheroid: GRS 1980
Map Units: Feet
Map Contour Interval: 10 Feet
Map Contour Elevation: 1000 Feet
Map Contour Color: Green
Map Contour Width: 2 Pixels
Map Contour Style: Solid
Map Contour Join Style: Round
Map Contour Cap Style: Square
Map Contour Dash: None
Map Contour Color: Blue
Map Contour Width: 2 Pixels
Map Contour Style: Solid
Map Contour Join Style: Round
Map Contour Cap Style: Square
Map Contour Dash: None

Date Revised: 10/2010

For Whom are We Signing?

· Residents

- new to bicycling
- new to the neighborhood or city
- confidence in a complicated route
- trying a new facility

· Tourists

· Skill level

- Interested but concerned
- Experienced but in unfamiliar area



Developing the Project Scope

Prioritize your bicycle routes

- Regionally significant routes
- Local routes
 - To business districts, parks, schools, libraries, points of interest
- US Bicycle Routes

Mapping

- Inventorying Current Signage
- 

Developing Destination Signage

Context	Primary Destinations	Secondary Destinations	Tertiary Destinations
Urban/Suburban Bikeway	Up to 5 miles	Up to 2 miles	Up to 1 mile
Rural Bikeway	No distance limit	Up to 5 miles, with the exception of trail or path end points, which have no distance limit	Up to 1 mile

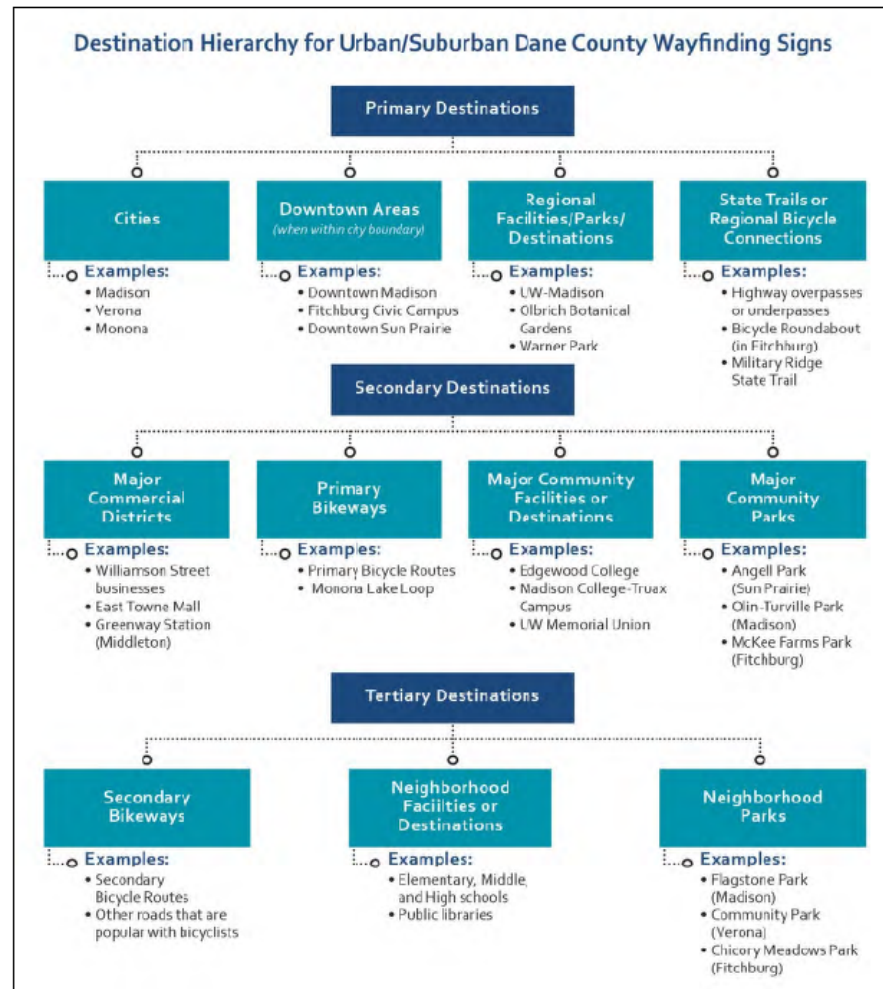
- How well known is the destination?
- Is it a destination with many visitors?
- Is it easily reached by bicycle?
- If it is a bike path, does it have a recognizable name?

Developing Destination Signage

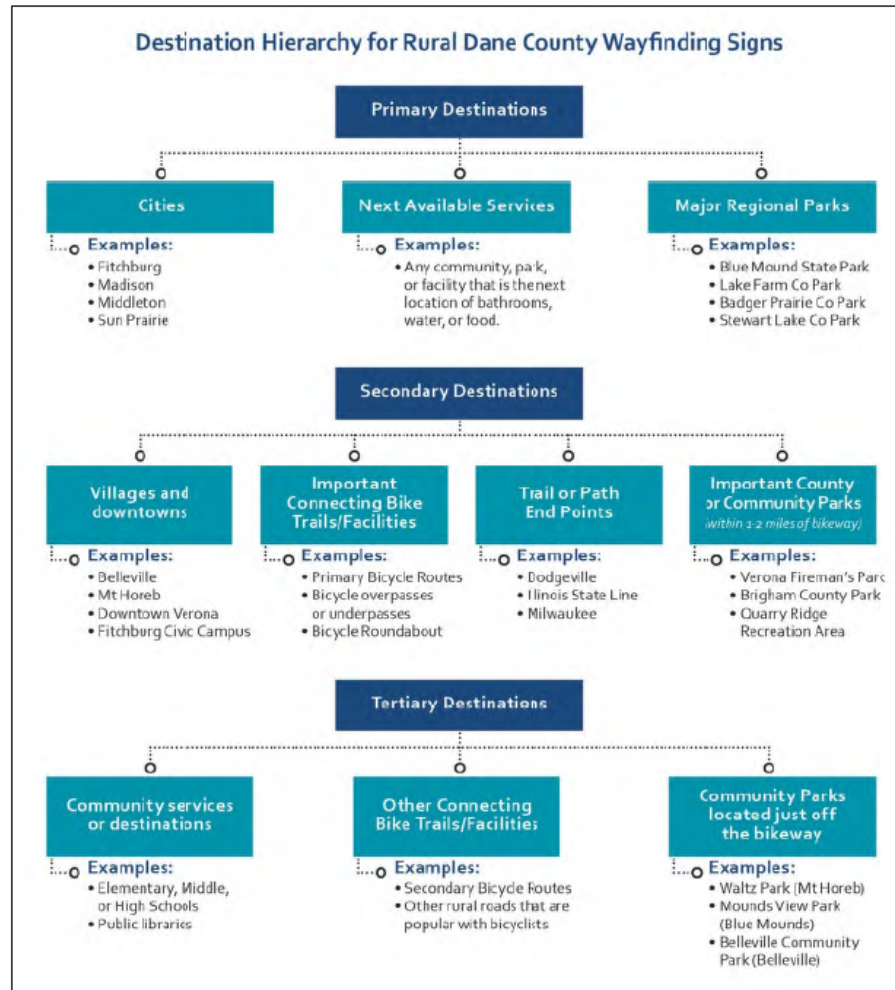
- Parks, business districts, major sports venues, major bikeways, well-known landmarks, schools, libraries
- Private businesses should not be signed – use name for area, generic title or symbol



Developing Destination Signage



Developing Destination Signage



Destination Signage Examples

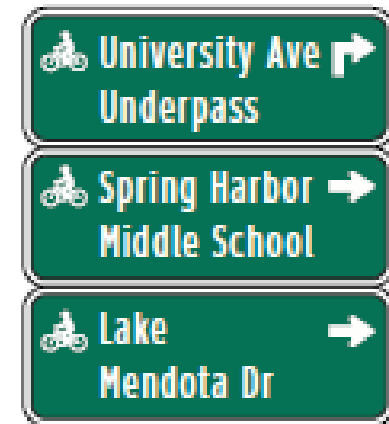


Destination Signage Examples



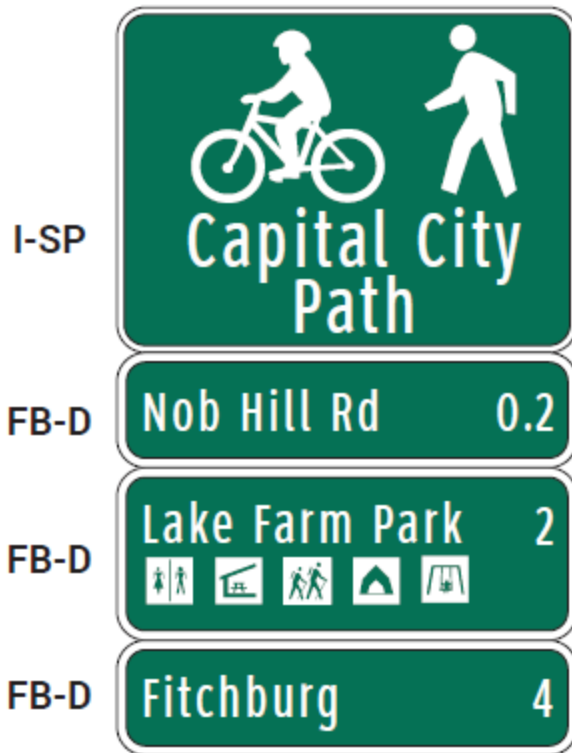
Practice Exercise

Decision Assemblies

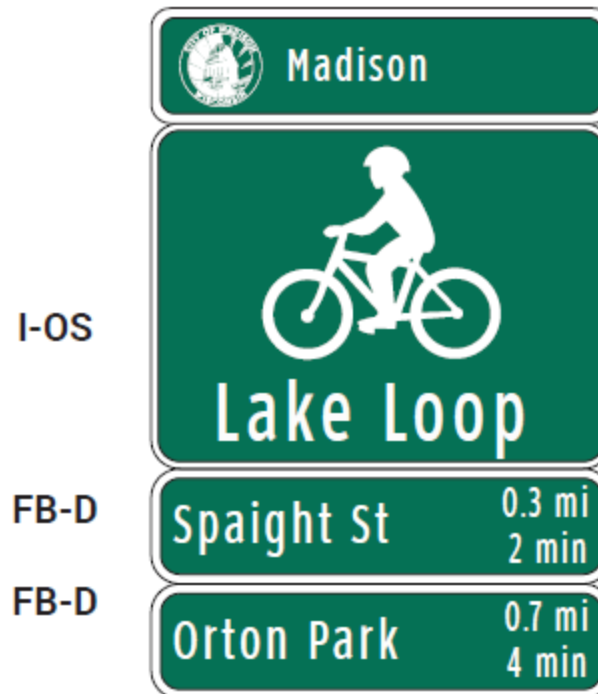


Confirmation Assemblies

Typical confirmation assembly for a shared use path



Confirmation assembly showing both distance and time.



Street Name Assemblies

Typical double-sided street name assembly with Stop Sign



Double-sided street name assembly with multiple path names



Path Access and Exit Assemblies



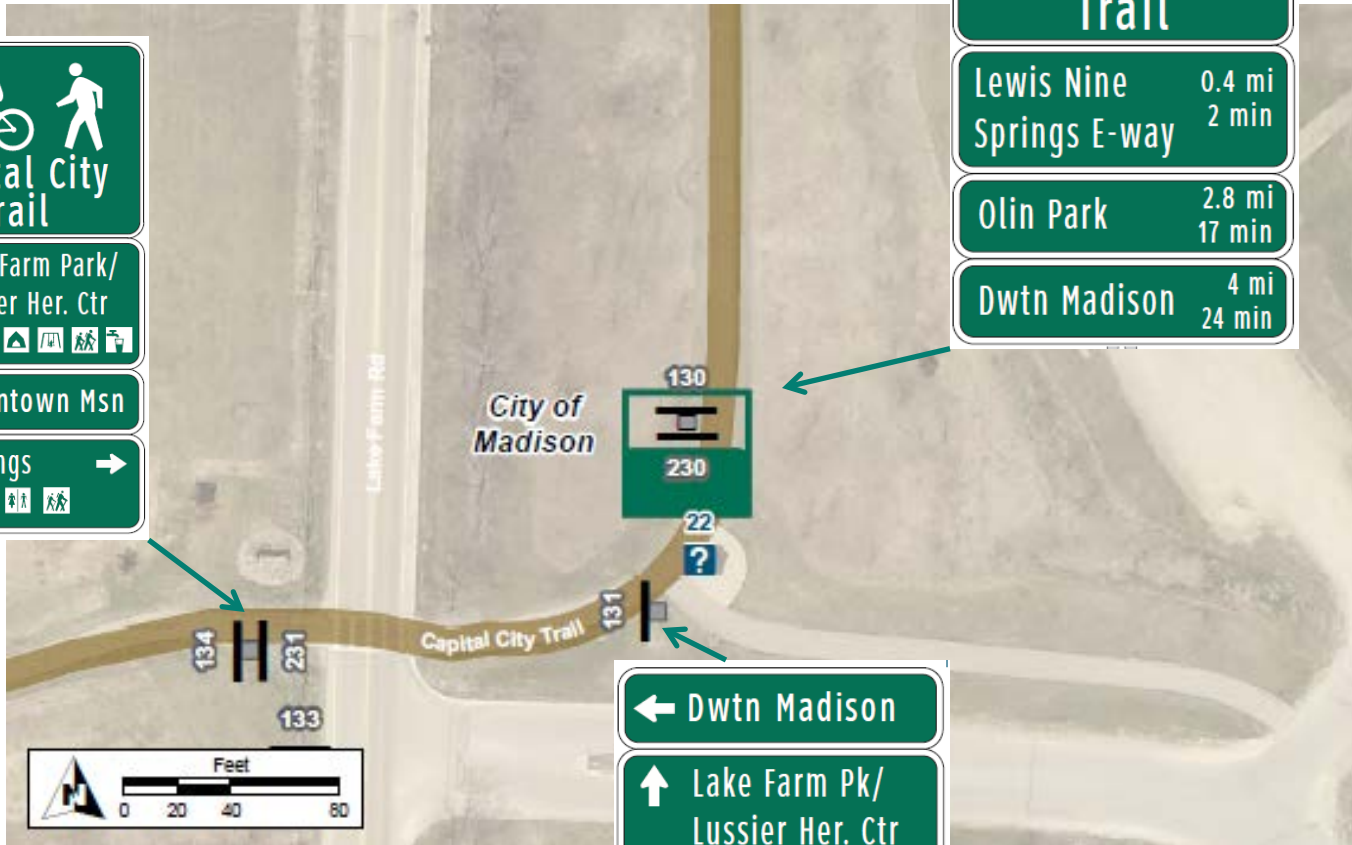
Example

Capital City Trail

↑ Lake Farm Park/
Lussier Her. Ctr
[Icons: person, bicycle, dog, wheelchair, stroller, trash]

↑ Downtown Msn

Cap. Springs State Pk →
[Icons: person, bicycle]



Capital City Trail

Lewis Nine Springs E-way 0.4 mi
2 min

Olin Park 2.8 mi
17 min

Dwtm Madison 4 mi
24 min

← Dwtm Madison

↑ Lake Farm Pk/
Lussier Her. Ctr
[Icons: person, bicycle, dog, wheelchair, stroller, trash]

↑ McFarland
Via Lower Yahara
River Trail

Example

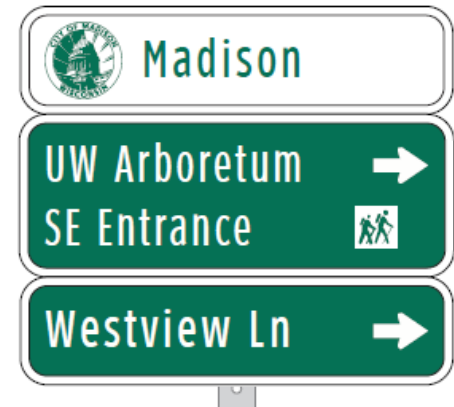


Source: Esri, DigitalGlobe, GeoEye, Earth
CNES/Airbus DS, USDA, USGS, AEX, Ge
IGN, IGP, swisstopo, and the GIS User Co

Example



Community Branding



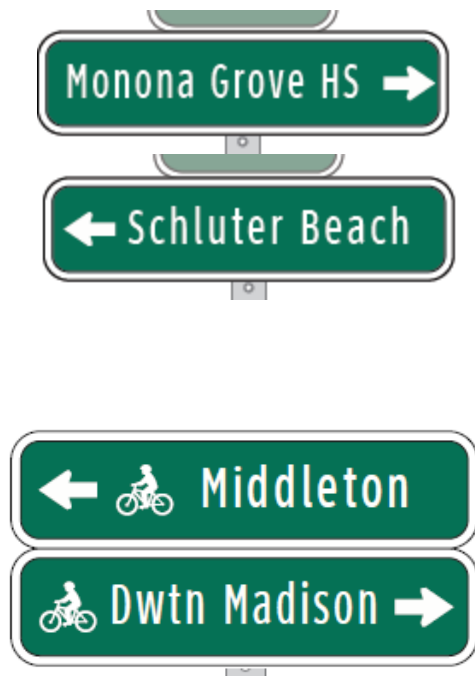
Route Identification Sign

Sign Type	Route Identification Shared Use Path (I-SP)	Route Identification On-street Route (I-OS)	Route identification Unnamed Route (I-UN)
Description	Shows route name and bicycle/pedestrian modes	Shows route name and bicycle mode	Shows bicycle mode without route name
Features	<ul style="list-style-type: none"> Name of path Ped/bike symbols 	<ul style="list-style-type: none"> Name of on-street facility or route Bicycle symbol 	<ul style="list-style-type: none"> Bicycle symbol
Sample			

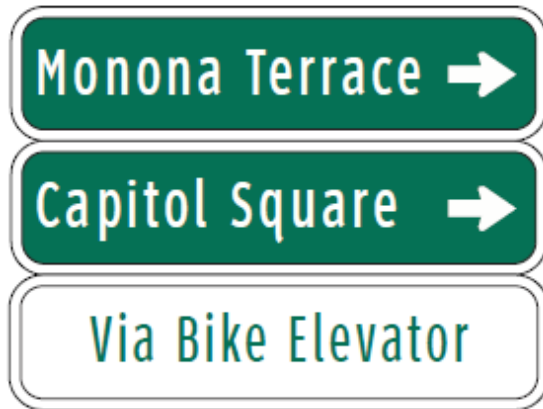
Route Identification Sign



Fingerboard Layout – Arrows

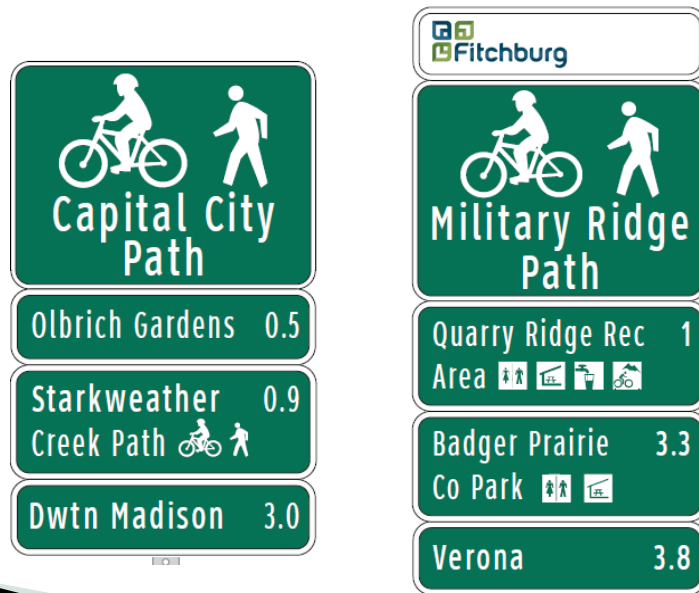


Fingerboard Layout – Navigation



Fingerboard Layout – Distance

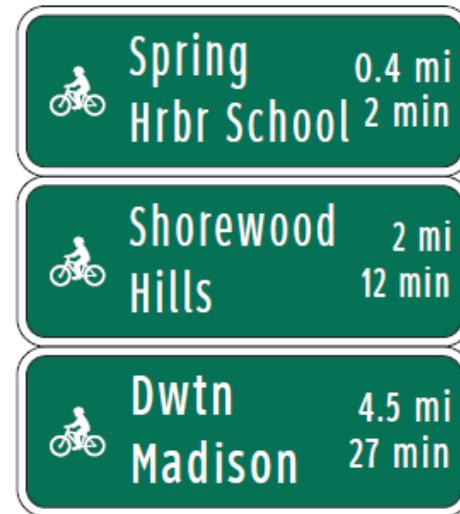
- Measure to main entrance of location
- City Center for smaller cities/villages
- Madison – city limit
- Madison – downtown



- Distances under 5 miles should be rounded to the nearest tenth of a mile
- 5-10 miles, to the nearest half-mile
- Over 10 miles, to the nearest mile

Fingerboard Layout – Time

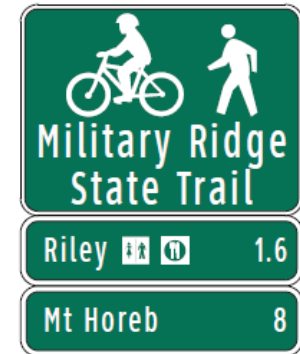
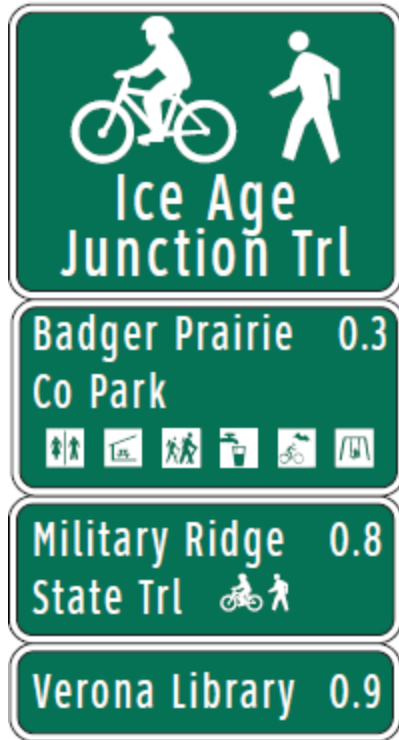
- Encouragement tool
- Urban areas with easy access to popular destinations
- Use approx 10 min/mile



Fingerboard Layout – Symbols



Sign Layout Examples



Signage Plan

Assembly ID: 307



Madison

← UW Arboretum SE Entrance 

← Westview Ln



Location	
On	Cannonball Path
At	South of spur to Arboretum
Installation Details	
Assembly Type	Decision
Jurisdiction	City of Madison
Post	New 12 Foot Post
Other Assemblies	Back to Back with #306, Perpendicular to #308
Sign Facing	West
Post Distance off Pavement	4 ft south of path
Distance from Intersection	0 ft
Placement Notes	
Place on south side of intersection with trail spur	



Cannonball Path

← Capital City Trail 

← Beltline Overpass

Dunn's Marsh Bike Roundabout →

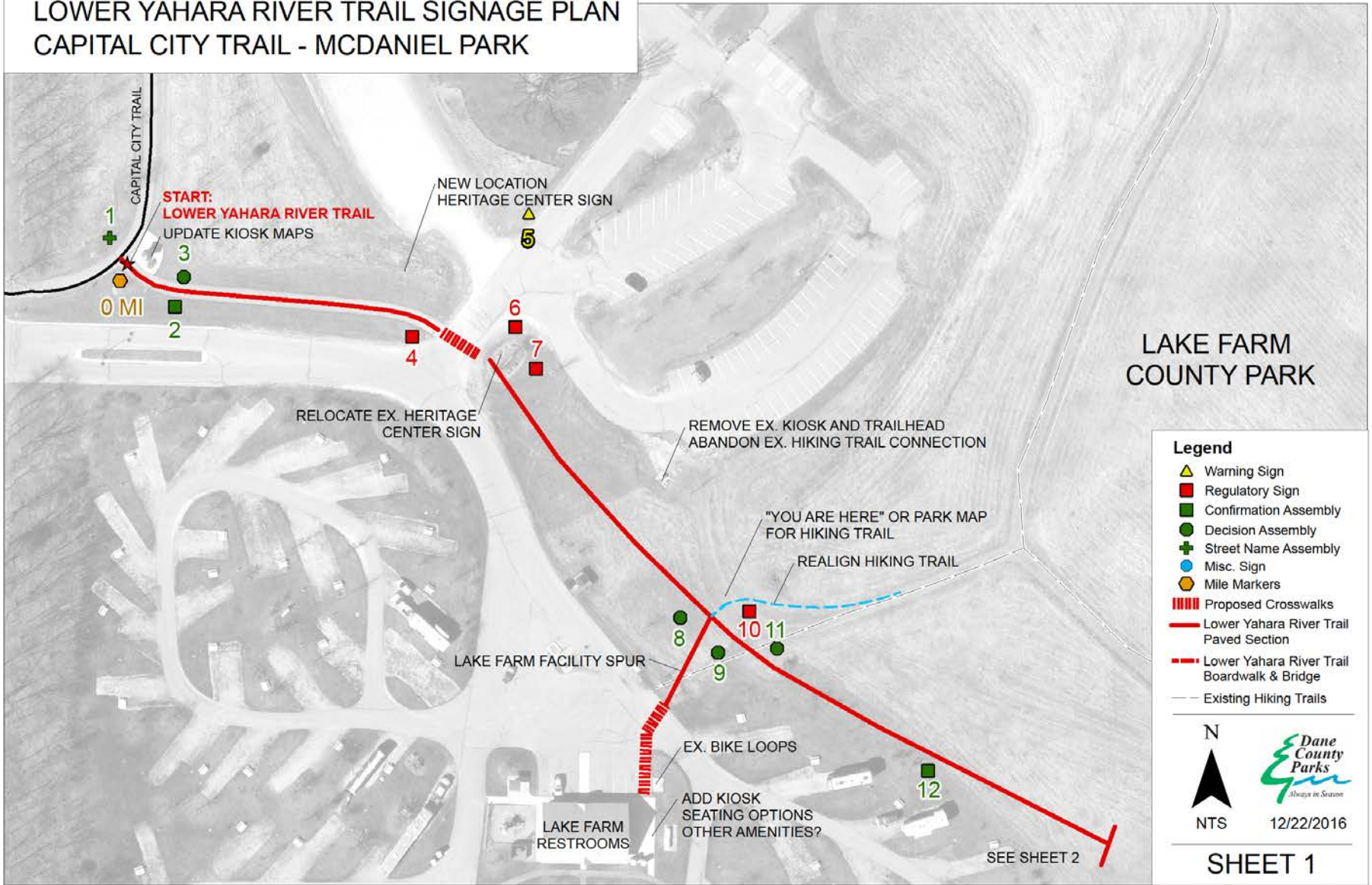


Madison

UW Arboretum SE Entrance 

Westview Ln →

LOWER YAHARA RIVER TRAIL SIGNAGE PLAN CAPITAL CITY TRAIL - MCDANIEL PARK



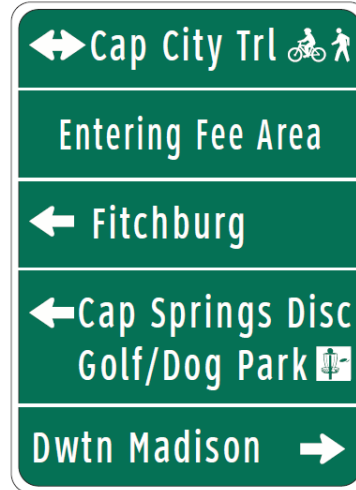
SIGN 1



SIGN 2



SIGN 3



SIGN 8



SIGN 9



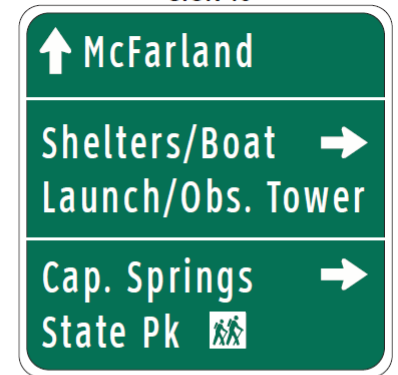
SIGN 11



SIGN 12



SIGN 13



Practice Exercise



Other Signs – Warning Signs

Warning signs may be installed where shared use path conditions could cause a bicyclist to lose control of the bicycle.

Typical conditions include:

sharp curves, blind curves, steep grades, path or street intersections with poor visibility, areas that flood during storm events, and areas with rough pavement.



Location	On Longford Terrace At Capital City Spur - West
Installation Details	Assembly Type Path Warning Jurisdiction City of Fitchburg Post Existing Other Assemblies None Sign Facing East Post Distance off Pavement 2 ft from path Distance from Intersection 3 ft from sidewalk
Placement Notes	Replace Existing "Walk Your Bike" sign panel with Warning Sign and "Yield to Peds" sub plaque.



Other Signs – Etiquette

Sign Type	Walk, Run, and Ride on the Right	Give Warning Before Passing	Fast Users Yield to Slow Users
Description	Inform all path users to keep right	Inform path users to give audible warnings before passing other users	Inform path users that faster users must give way to slower path users
Sample	<p>A green rectangular sign with a white border. The text "Walk, Run, and Ride on the Right" is written in white. To the right of the text are white silhouettes of a person walking, a person running, and a person riding a bicycle. Dimensions: 24" wide and 18" high.</p>	<p>A green rectangular sign with a white border. The text "Give Warning Before Passing" is written in white. To the right of the text is a white silhouette of a person riding a bicycle with a speech bubble pointing towards the text. Dimensions: 24" wide and 18" high.</p>	<p>A green rectangular sign with a white border. At the top are white silhouettes of a person on a bicycle, a person running, and a person pushing a stroller. Below the silhouettes is the text "Faster Yield to Slower" in white. At the bottom are four white silhouettes representing different users: a person walking, a person in a wheelchair, a person walking with a cane, and a person pushing a stroller. Dimensions: 24" wide and 18" high.</p>

Other Signs – Mileage Markers



- Count up in one direction and down in the other. The displayed mileage will be the same from both directions of travel.
- Zero distance should usually begin at the south and west terminus points of shared use paths.
- When a path name changes (such as when the Badger State Trail changes to the Southwest Path), it is a logical place to consider resetting the mileage system at zero
- The most important part of the mileage system is that it has a logical zero distance terminus on one end and that maintenance crews and first responder agencies know what the mileage system is.

Other Signs – Jurisdiction Boundaries

Sometimes trails and paths weave in and out of municipal boundaries, in which case the jurisdiction boundary sign may be confusing to users.

If this is the case, consider avoiding the use of the boundary sign, or installing it only at the point at which the path enters the jurisdiction for the last time.




Other Signs – Fee Areas



Other Signs – Kiosks and Maps

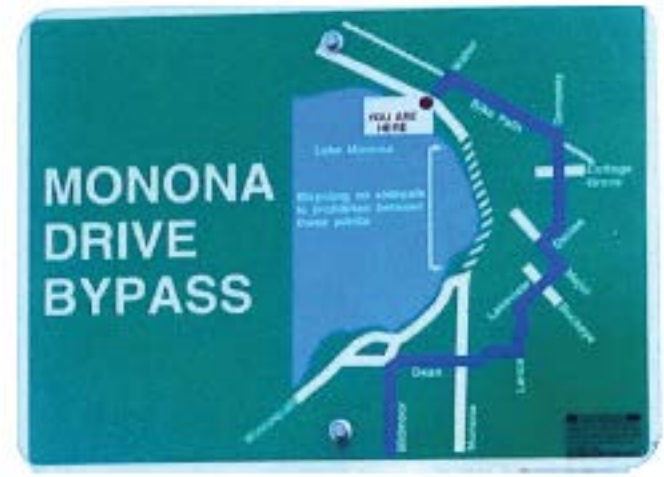
Ice Age Junction and Military Ridge State Trail



The map shows a network of trails and roads. A red arrow points to a specific location labeled 'You Are Here'. The map includes a legend for trail types and road types, and a scale bar.

Trail Rules & Etiquette	Fees
<ul style="list-style-type: none">• Slowest traffic has the right-of-way• Give audible warning before passing• Keep right except when passing• Move off the trail before stopping• Pets must be leashed and under control at all times• Keep the trail clean-- properly dispose of trash or take it with you	<p>State Trail Pass:</p> <ul style="list-style-type: none">• Daily - \$5• Annual - \$25 <p>Insert payment in the self-pay envelope and deposit in the slot on the side of kiosk.</p>

For Emergency: Call 911 **For Maintenance: Call (XXX) XXX-XXXX**



Other Signs – Pavement Markings



Location	
On	Glacier Valley Dr
At	South of Fish Hatchery Rd
Installation Details	
Assembly Type	Pavement Marking
Jurisdiction	Fitchburg
Post	N/A
Other Assemblies	None
Sign Facing	South
Post Distance off Pavement	N/A
Distance from Intersection	About 30 ft south of crosswalk
Placement Notes	



Sign Plans

Installation Plan

- Plan Map
- Sign Assembly and Installation Details
- Fabrication Specifications
- Potential Vendors:
 - Decker Supply Co.
 - TAPCO Traffic & Parking Control Inc.
 - Fastsigns
 - Madison Sign Shop
 - Badger State Industries



DANE COUNTY DEPARTMENT OF LAND & WATER RESOURCES

PARKS DIVISION
 5201 Fen Oak Drive, Room 208
 MADISON WI 53718-8812
 608/224-3611

REQUEST FOR QUOTATION

Quote prices **FOB Destination** to
 Dane County Park:
 5201 Fen Oak Drive, Room 208
 Madison, WI 53718-8812

For information call **Sara Rigelman, Acquisition and Planning Specialist, 608/224-3611**

Please email your Quotation to rigelman@countvofdane.com or mail to above address.
 Call for FAX number if you must fax your quotation.

Item Description	Net Unit Price
Dane County Parks is seeking vendor proposals for the fabrication of several signs for the Lower Yahara River Trail.	
Scope of Services includes: Fabrication of 78 signs for the Lower Yahara River Trail as listed and depicted in Attachment 1. All of the bicycle wayfinding signs should adhere to the sign lay-outs as described in Attachment 2.	1) _____
The signs should 0.080 inches thick aluminum with reflective sheeting and anti-graffiti coating. Reflective sheeting should be furnished from the Wisconsin Department of Transportation's approved products list. If the manufacturer provides a warranty for the reflective sheeting, turn the warranty over to the Dane County Parks Division. 3/8 in. bolt holes should be drilled at the top and bottom of signs on center.	
Signs should be delivered to Dane County Parks, 4318 Robertson Rd, Madison WI 53718.	
TOTAL COST:	\$ _____
Hourly rate if additional services are required beyond the original scope or after completion date:	\$ _____

Completion date:

All signs shall be completed and delivered by **May 1, 2017**.

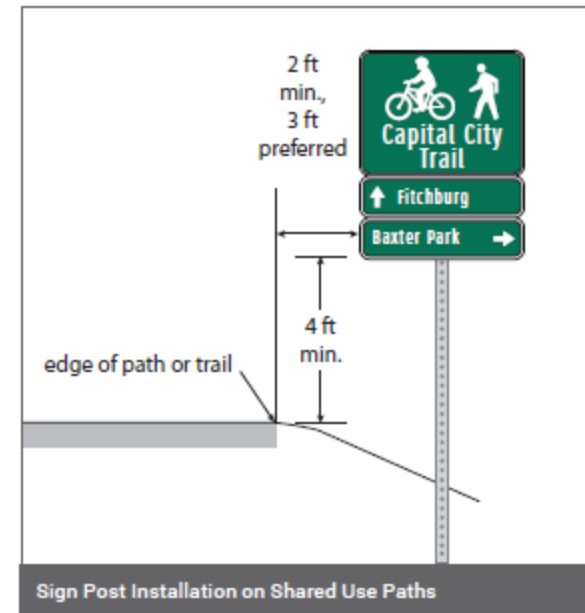
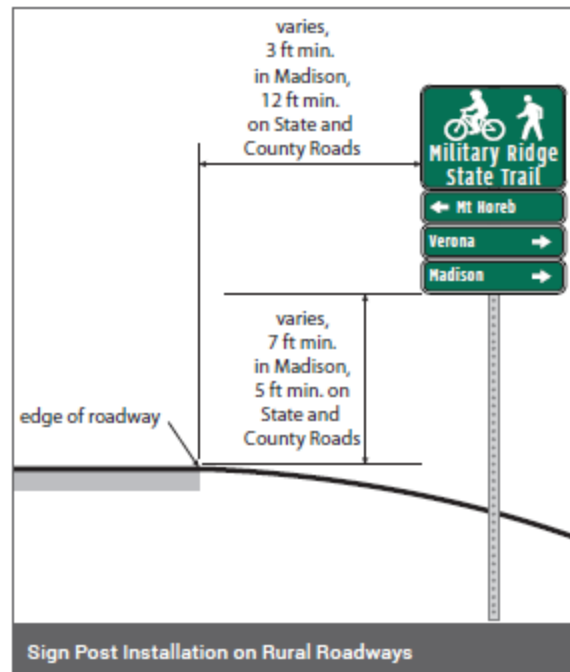
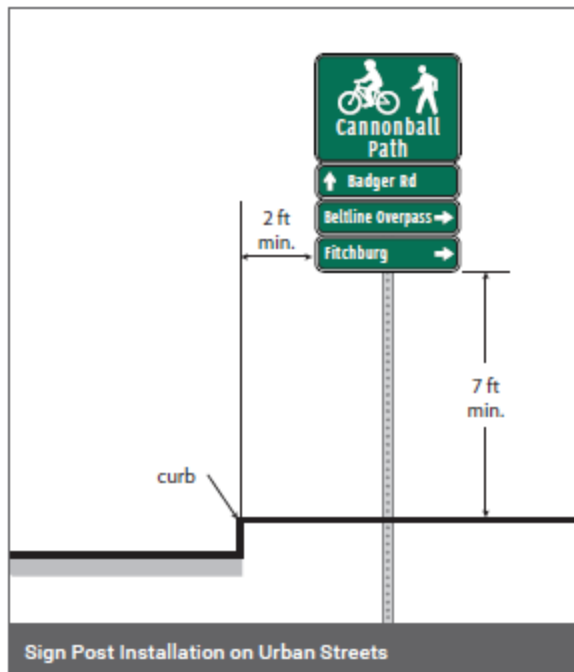
Vendor Contact Information

Vendor Name: _____
 Contact Person: _____
 Address: _____
 Phone: _____
 Email: _____

Signed by: _____ Date: _____

Sign #	Quantity	Type	Dimensions	MUTCD Ref. #
1	1	Wayfinding Street Sign	13" W x 8" H	
2	1	Wayfinding Street Sign	28" W x 8" H	
3	1	Wayfinding	24" W x 42" H	
4	1	Wayfinding	24" W x 36" H	
5	1	Wayfinding	24" W x 30" H	
6	1	Wayfinding	24" W x 42" H	
7	1	Wayfinding	24" W x 24" H	
8	1	Wayfinding	24" W x 42" H	
9	1	Wayfinding	24" W x 30" H	
10	1	Wayfinding	24" W x 48" H	
11	1	Wayfinding	24" W x 30" H	
12	1	Wayfinding	24" W x 36" H	
13	1	Wayfinding	24" W x 42" H	
14	1	Wayfinding	24" W x 42" H	
15	1	Wayfinding	24" W x 54" H	
16	1	Wayfinding	24" W x 54" H	
17	1	Wayfinding	24" W x 60" H	
18	1	Wayfinding	24" W x 42" H	
19	1	Wayfinding	24" W x 60" H	
20	3	Yield	18" x 18" x 18"	R1-2
21	4	Trail Xing (Symbol)	18" x 18" (diamond)	W11-15 (diamond)
22	4	Tail Xing (Text)	18" W x 12" H (plaque)	W11-15P (plaque)
23	1	Heritage Center Patron Parking Only	15" W x 9" H	
24	6	No Bicyclists	6" x 6"	R5-6
25	1	Vehicles Yield to Pedestrians And Bicyclists	12"W x 18" H (Yield sign)	
26	4	Share Road w/Bicyclists	18" x 18" (diamond)	
27	1	Do Not Enter	30" x 30" (Do Not Enter)	R5-1
28	3	Authorized Vehicles Only	24" W x 18" H (varies	R5-11
29	2	Slippery when wet	18" x 18" (diamond)	W8-10 (diamond)
30	1	End of Boardwalk in 0.9 MI	24" W x 12" H	
31	2	Regulations	24" W x 18" H	
32	1	Fishing right arrow	6" x 6"	
33	1	Fishing left arrow	6" x 6"	
34	1	Restrooms 0.8 MI	6" x 6"	
35	1	Restrooms 0.7 MI	6" x 6"	
36	2	Stay off railings	36" W x 6" H	
37	2	No mooring	54" W x 5.5" H	
38	1	Do not walk or fish on tracks	12" W x 18" T	
39	4	No fishing	6" x 6"	
40	14	Mile markers; 0 MI, 0.5 MI, 1 MI, 1.5 MI, 2.5 MI, 1.6 MI, 1.7 MI, 1.8 MI, 1.9 MI, 2.0 MI, 2.1 MI, 2.2 MI, 2.3 MI, 2.4 MI	6" W x 9" H	

Post Installation



Detours



Questions / Comments

Contacts:

Sara Rigelman

rigelman@countyofdane.com

Renee Callaway

recallaway@cityofmadison.com

<https://parks-lwr.dcountyofdane.com/Parks-Recreation/Biking>