



TRI-COUNTY EXPANSION



WIS 441 Tri-County Project

Business and Public Involvement Meetings

March 2, 2015

Presentation Outline

- Introductions
- Forward progress
- Project improvements and design updates
- Construction schedule
- Noise barriers
- Roundabouts and diverging diamond interchange
- Community sensitive solutions
- Community outreach and business resources

Introductions

- WIS 441 Tri-County Project team
 - Will Dorsey, Northeast Region Director
 - Tom Buchholz, Project Development Manager
 - Chad DeGrave, Design Supervisor
 - Scott Ebel, Design Project Manager
 - Kimberly Slezak, Design Lead
 - Kathleen Slattery, Design Project Manager
 - Ashley Nelson, Design Lead

Introductions

- WIS 441 Tri-County Project team
 - Tammy Rabe, Construction Supervisor
 - Kurt Peters, Construction Project Manager
 - Curt Van Erem, Real Estate
 - Dawn Vanoudenhoven, Real Estate
 - Mark Kantola, Communication Manager

Project Improvements - Overview



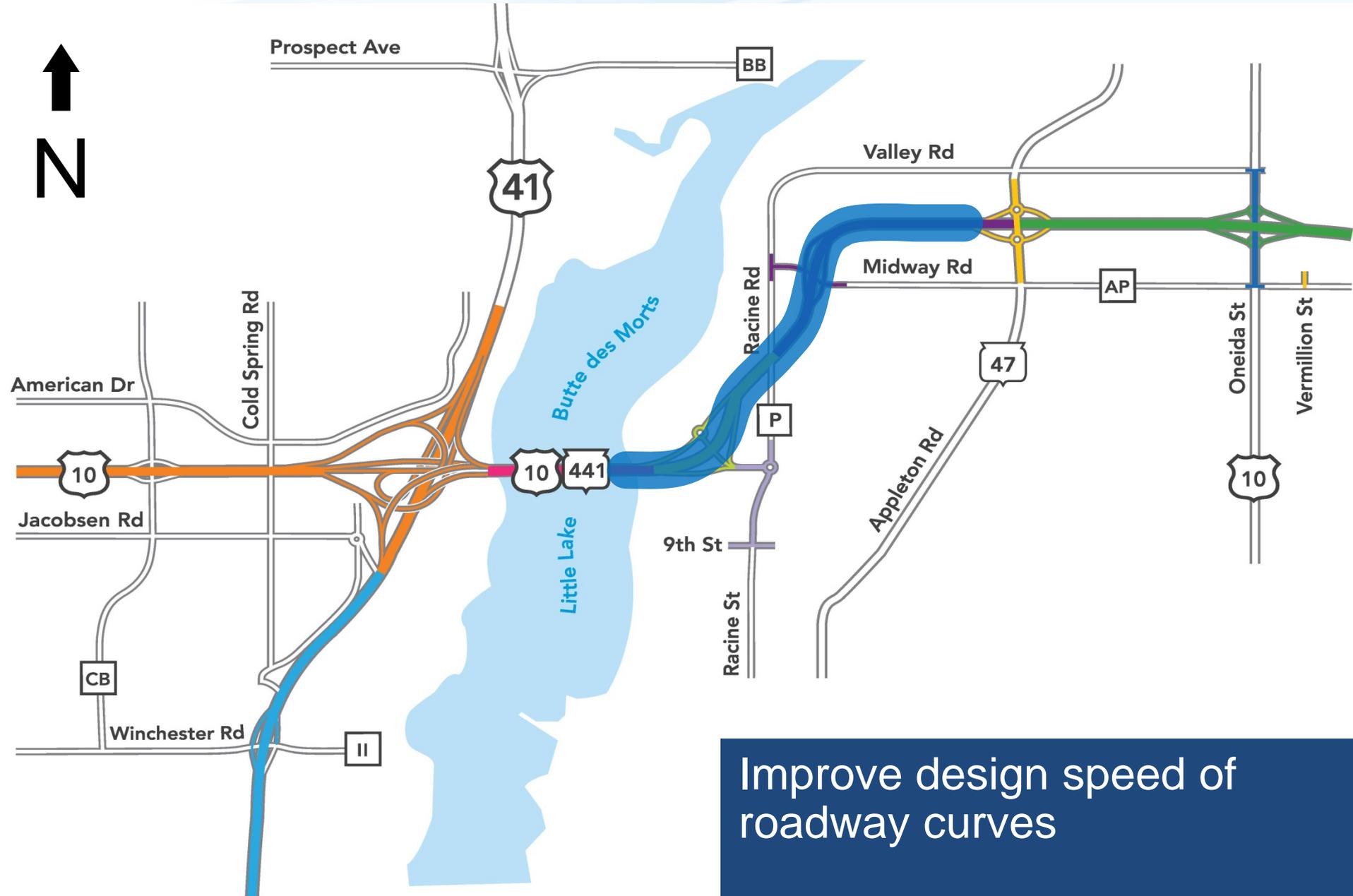
Reconstruct 5 interchanges and add missing movements at US 41

Project Improvements - Overview



Replace 6 miles of mainline pavement, expand to 6 lanes

Project Improvements - Overview



Improve design speed of roadway curves

Project Improvements - Overview



Construct a second parallel bridge over Little Lake Butte des Morts

Project Improvements - Overview



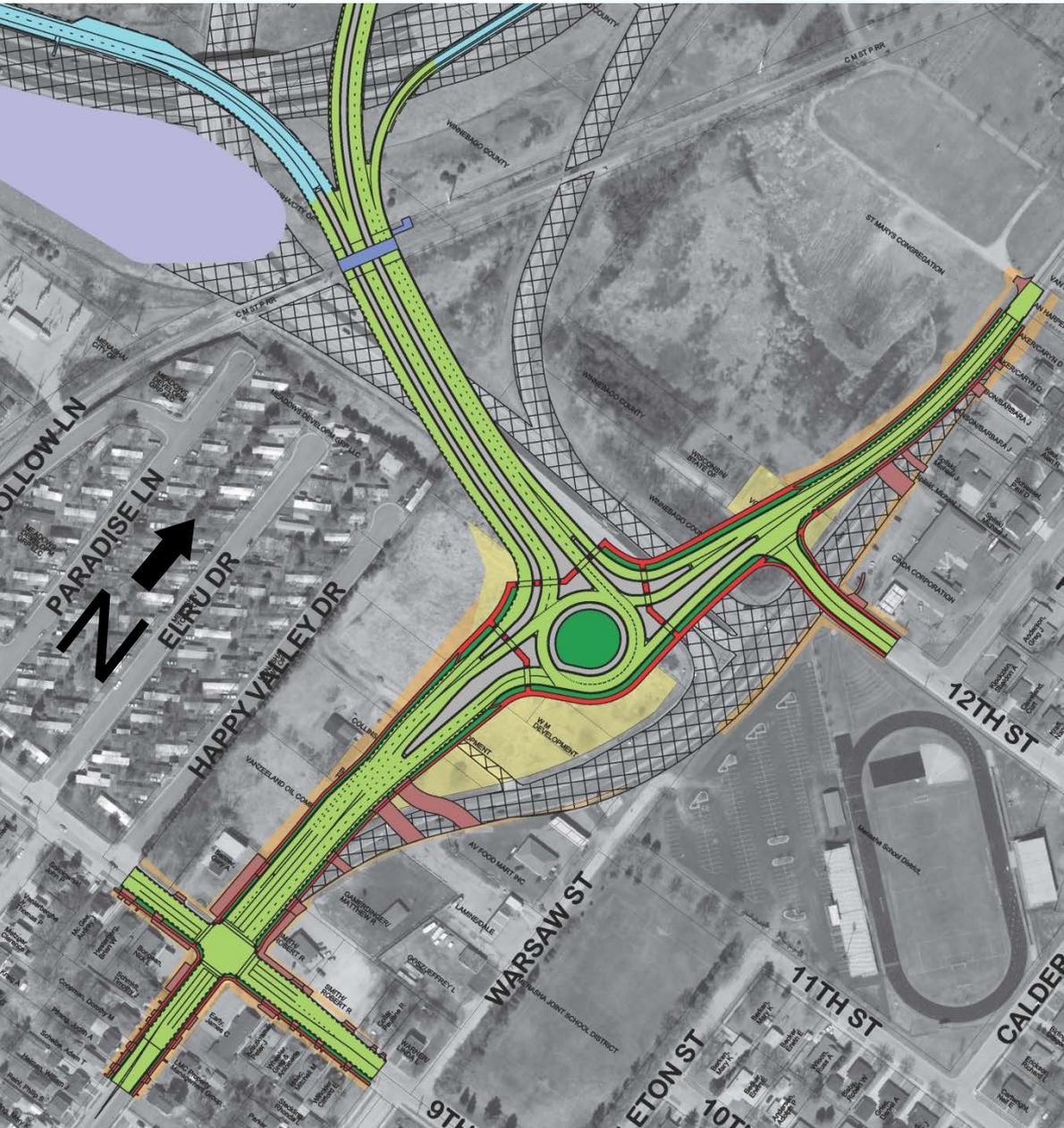
Revise interchange control

Project Improvements - Overview



Add auxiliary lanes along US 41 for system interchange operation

New Items / Refinements

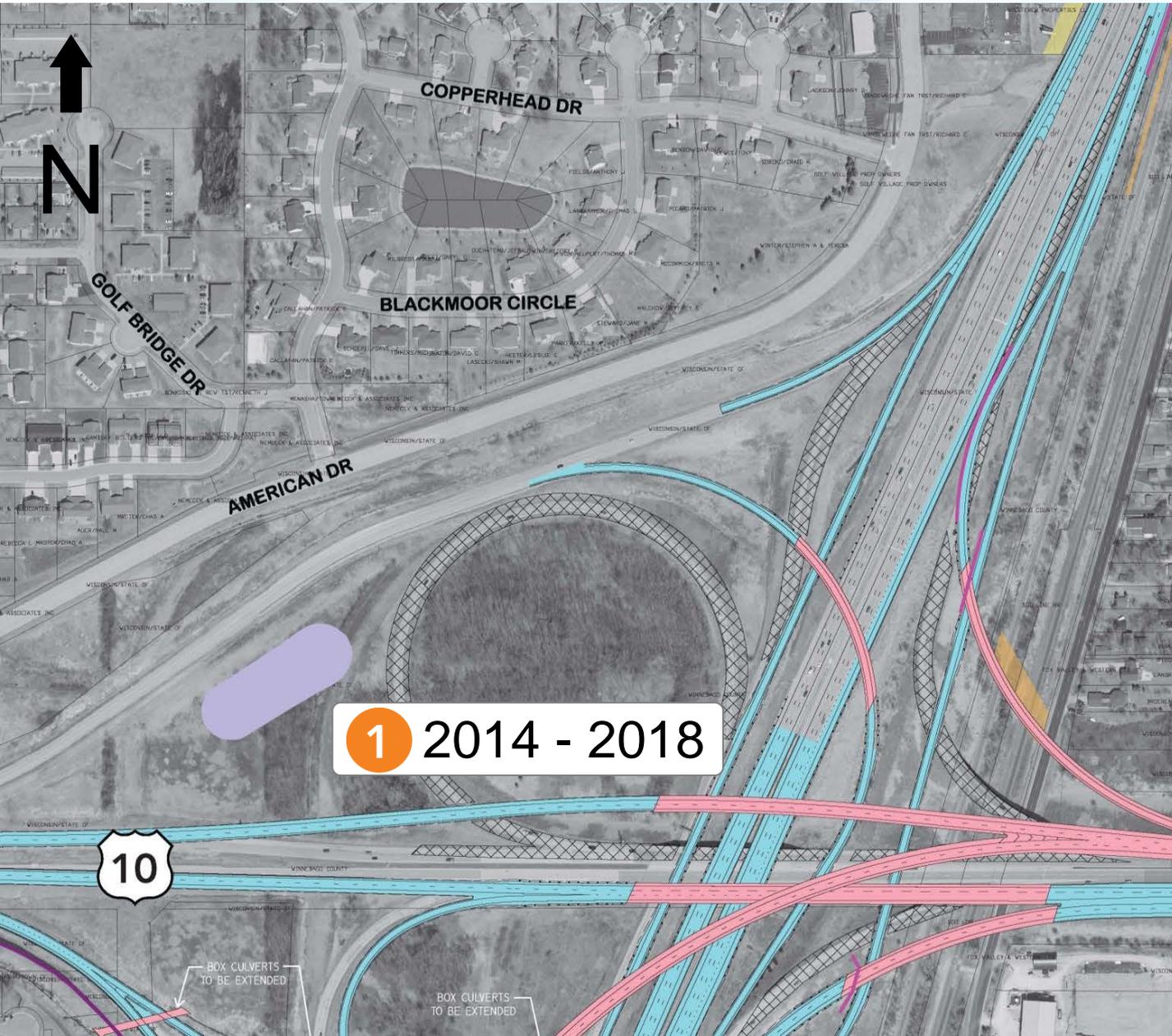


- Refined since Spring 2014:
 - 12th street / Racine Rd intersection design
 - Combined stormwater pond at Racine Rd interchange
 - Bus stops
 - Construction staging
 - Temporary ramp (west to south movement at US 41)
 - Temporary signals at Midway

Project Schedule

Function	2012	2013	2014	2015	2016	2017	2018	2019
Design	■	■	■	■	■			
Real Estate			■	■	■	■		
Utilities			■	■	■	■		
Construction				■	■	■	■	■

US 41/WIS 441 Interchange (north)



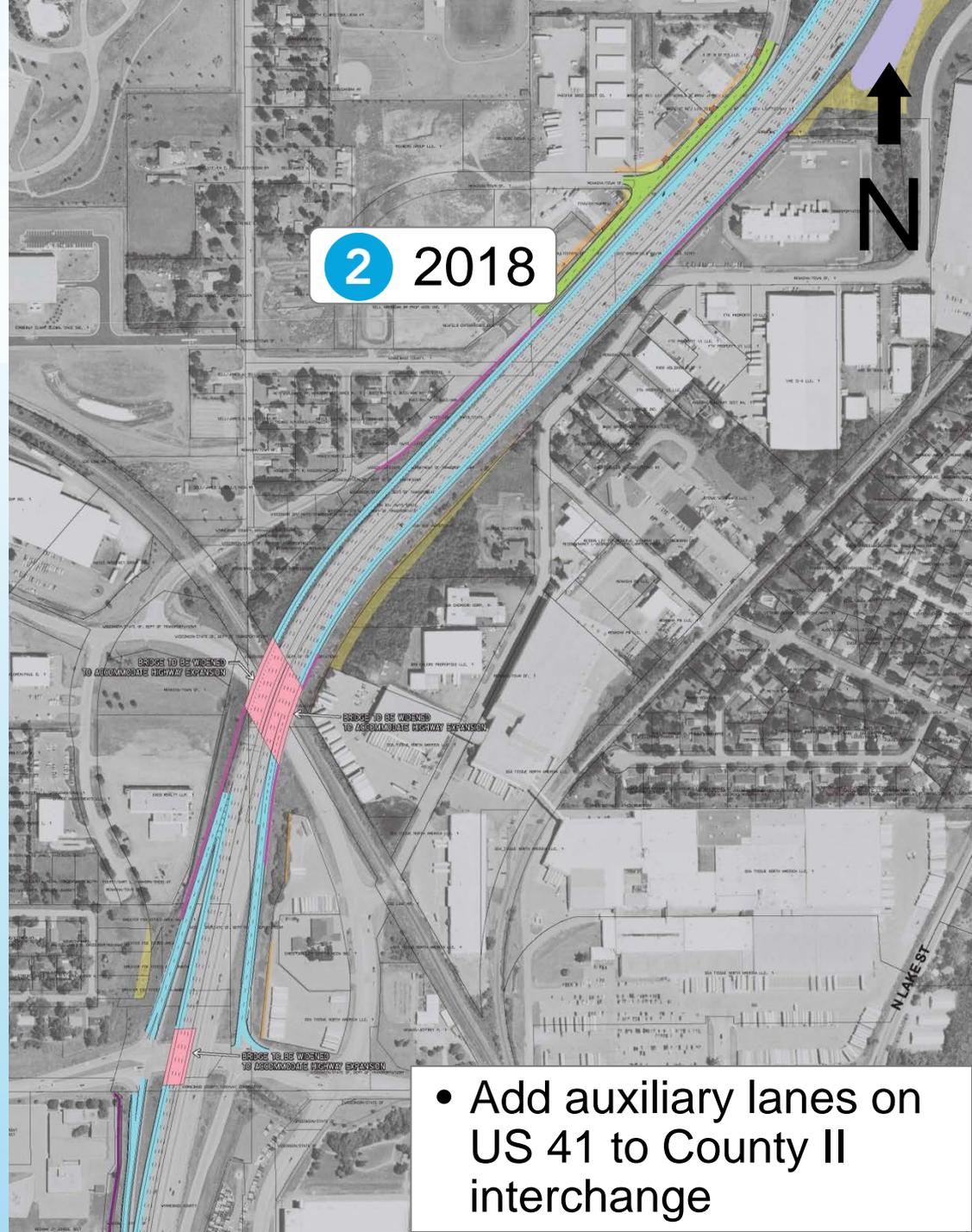
- Reconstruct US 41/ WIS 441 system interchange
- Free-flow movements all directions
- Freeway split for US 10 WB and WIS 441 SB
- Add auxiliary lanes on US 41

1 2014 - 2018

BRIDGE TO BE UPDATED AND REDECKED TO ACCOMMODATE HIGHWAY EXPANSION

BOX CULVERTS TO BE EXTENDED

US 41/WIS 441 Interchange and mainline (south)



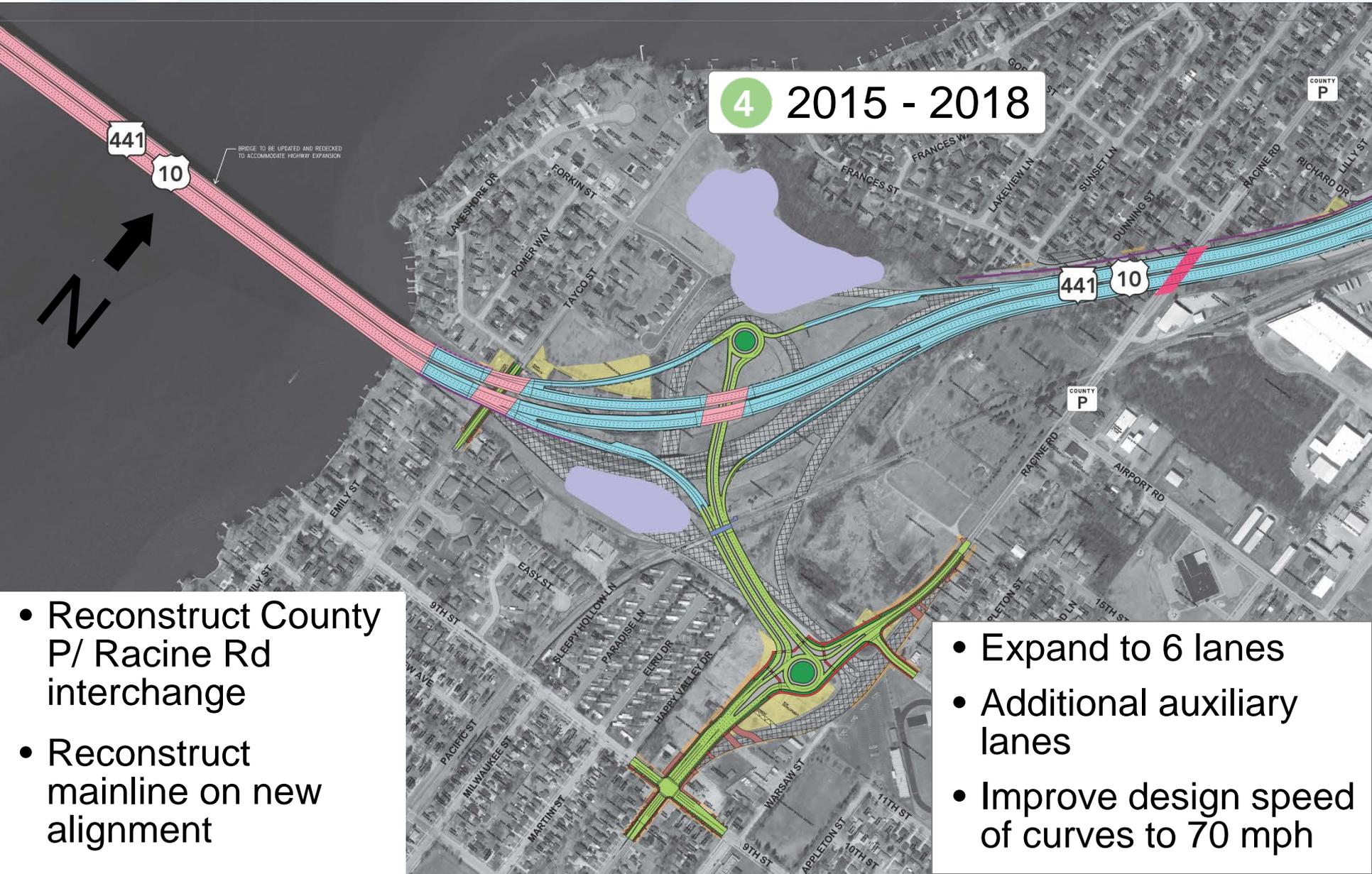
- Add auxiliary lanes on US 41 to County II interchange

Little Lake Butte des Morts Structures



- Construct 2nd parallel bridge over LLBDM
- New concrete structure closely matches existing
- Spans will vary from existing, more cost effective
- Stain existing and new structures to match
- Structures will have overhead bridge deck lighting

County P/Racine Rd Interchange

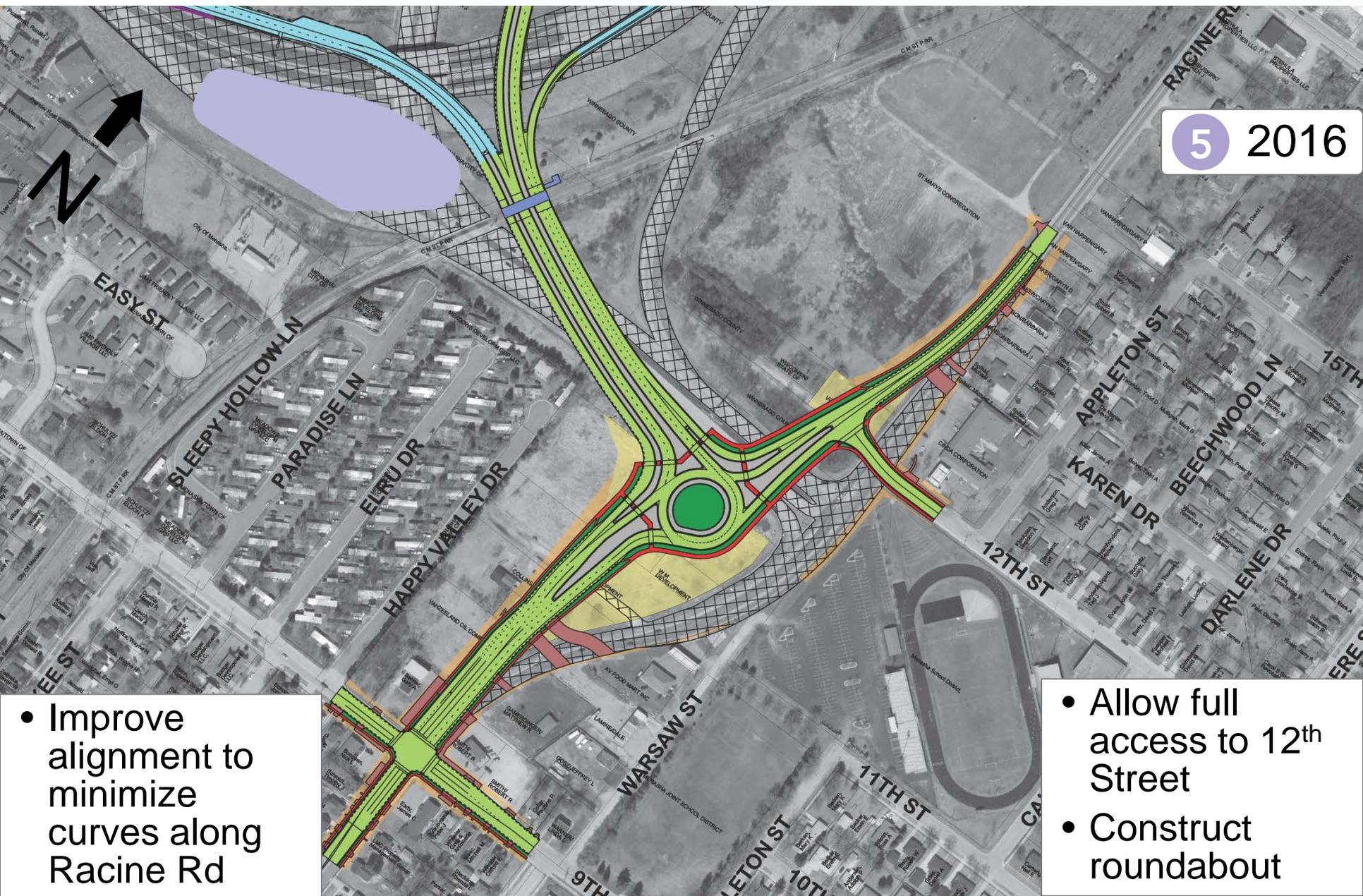


4 2015 - 2018

- Reconstruct County P/ Racine Rd interchange
- Reconstruct mainline on new alignment

- Expand to 6 lanes
- Additional auxiliary lanes
- Improve design speed of curves to 70 mph

County P/Racine Rd Interchange

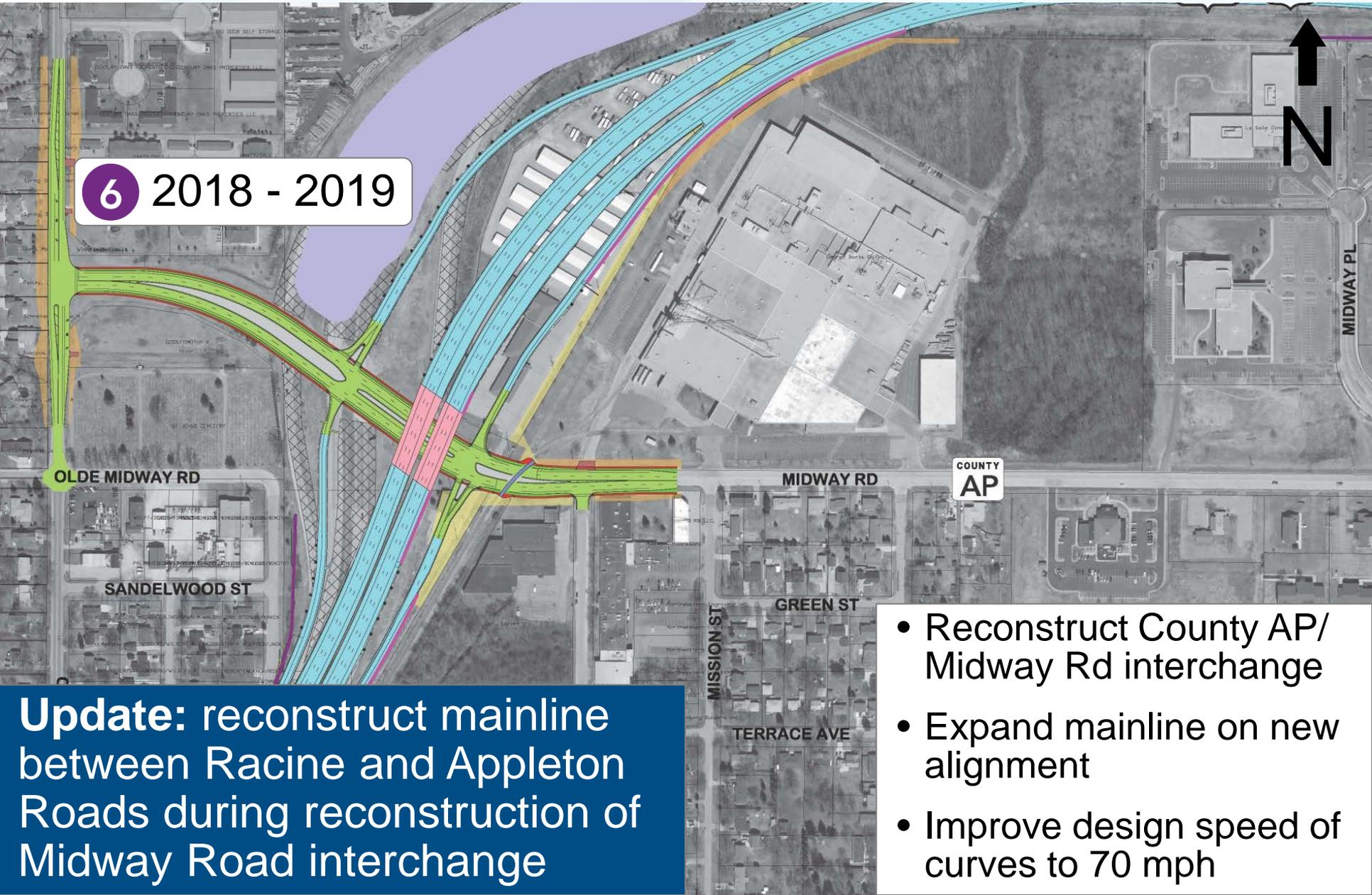


5 2016

- Improve alignment to minimize curves along Racine Rd

- Allow full access to 12th Street
- Construct roundabout

County AP/Midway Rd Interchange

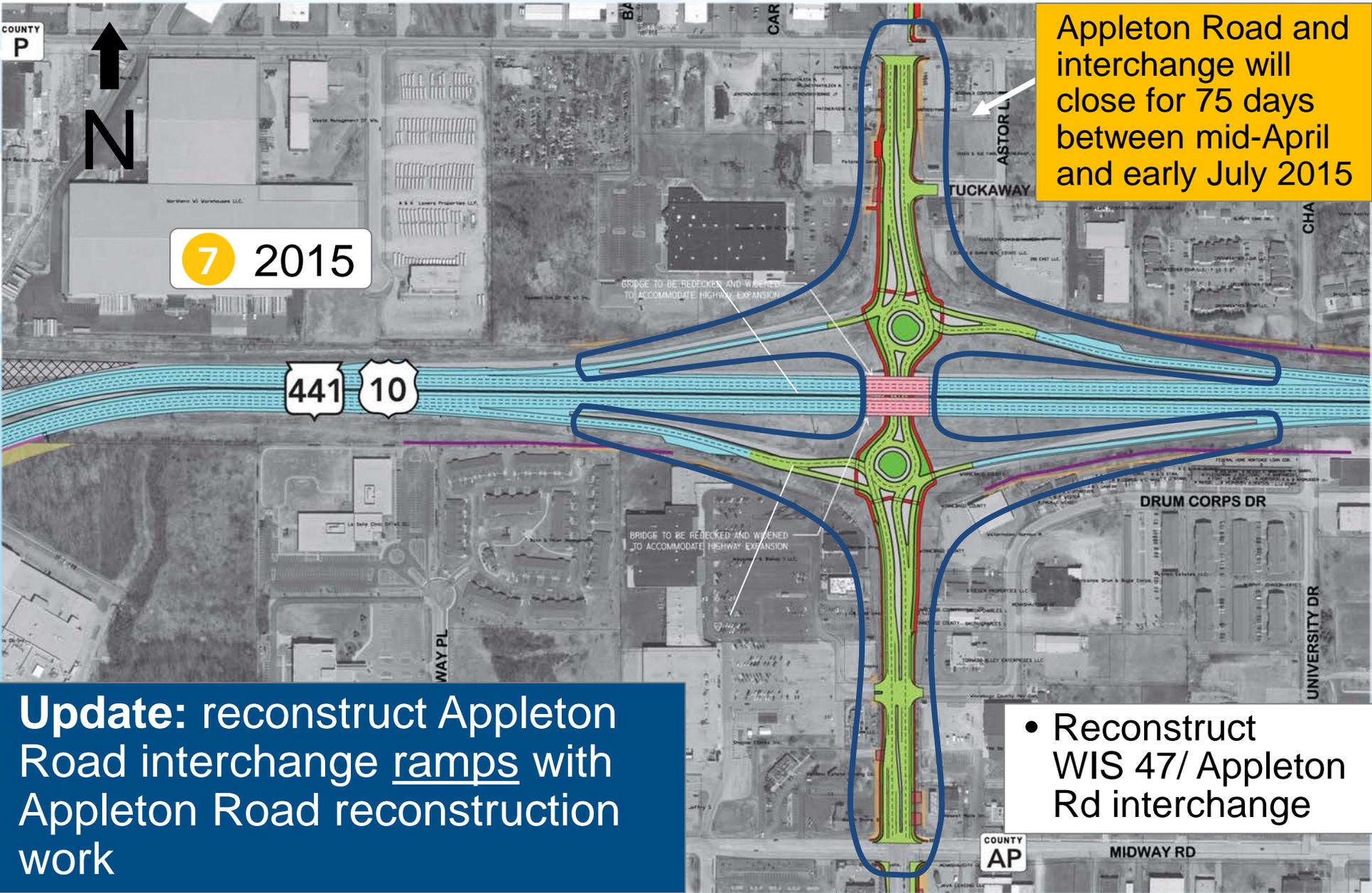


6 2018 - 2019

- Reconstruct County AP/ Midway Rd interchange
- Expand mainline on new alignment
- Improve design speed of curves to 70 mph

Update: reconstruct mainline between Racine and Appleton Roads during reconstruction of Midway Road interchange

WIS 47/Appleton Rd Interchange



Appleton Road and interchange will close for 75 days between mid-April and early July 2015

7 2015

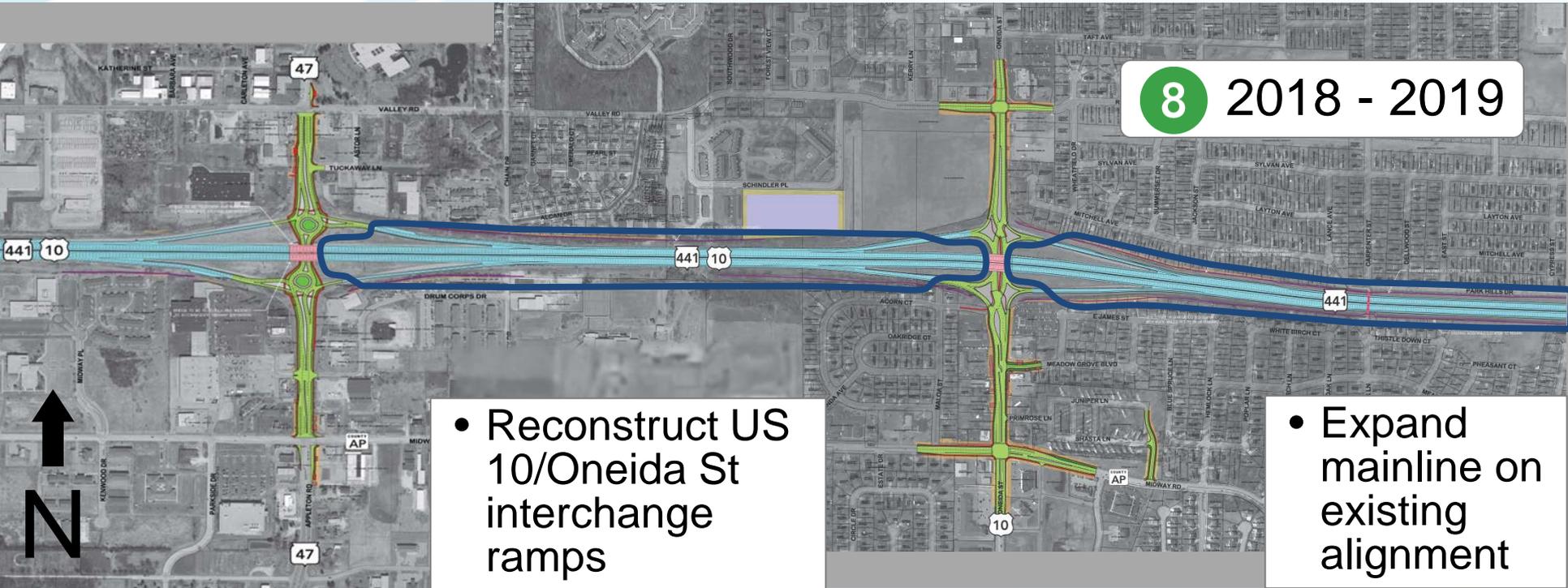
BRIDGE TO BE REBECKED AND WIDENED TO ACCOMMODATE HIGHWAY EXPANSION

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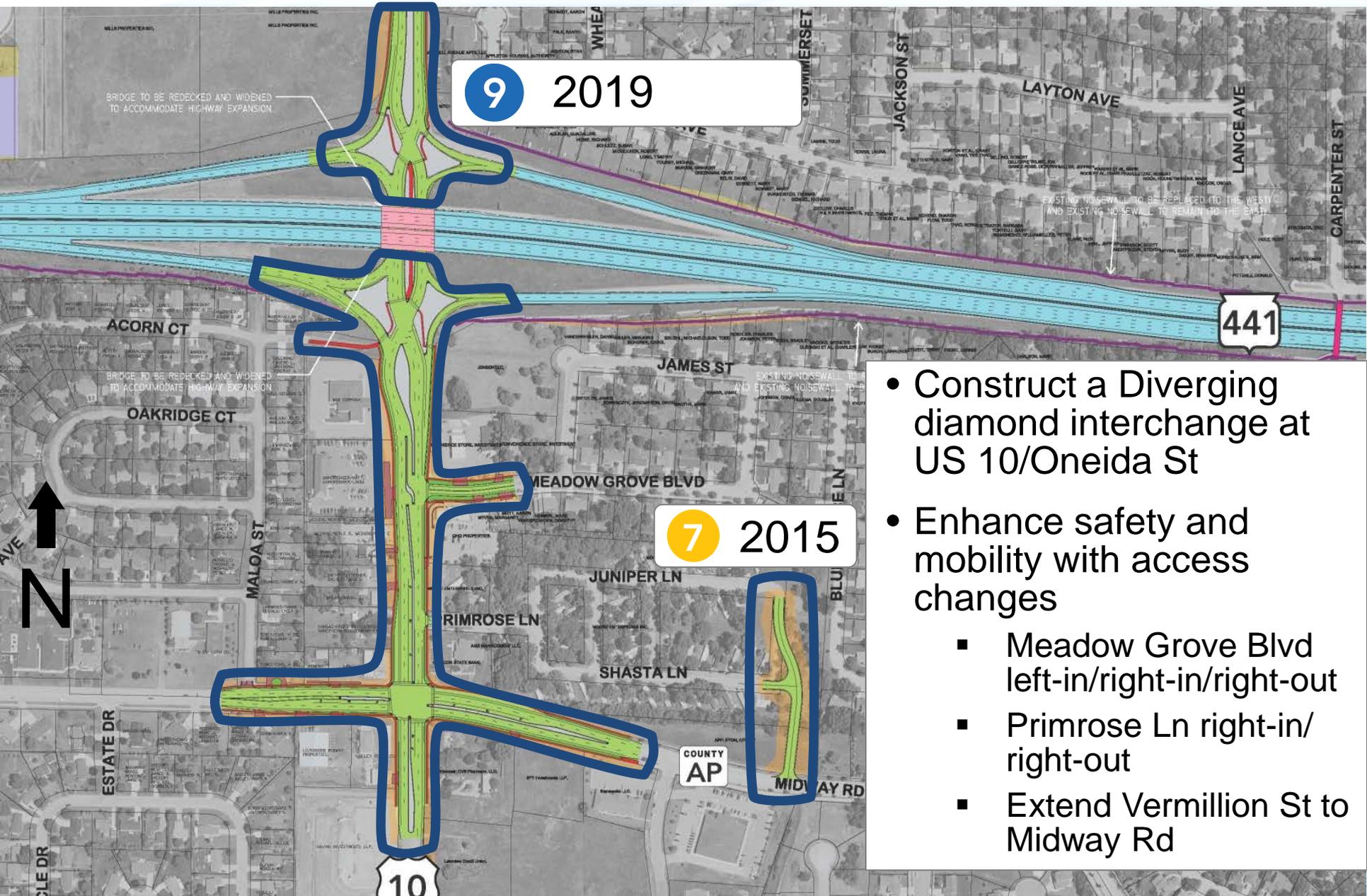
Update: reconstruct Appleton Road interchange ramps with Appleton Road reconstruction work

- Reconstruct WIS 47/ Appleton Rd interchange

US 10/Oneida St Interchange Ramps and WIS 441 Mainline



US 10/Oneida St Interchange



9 2019

7 2015

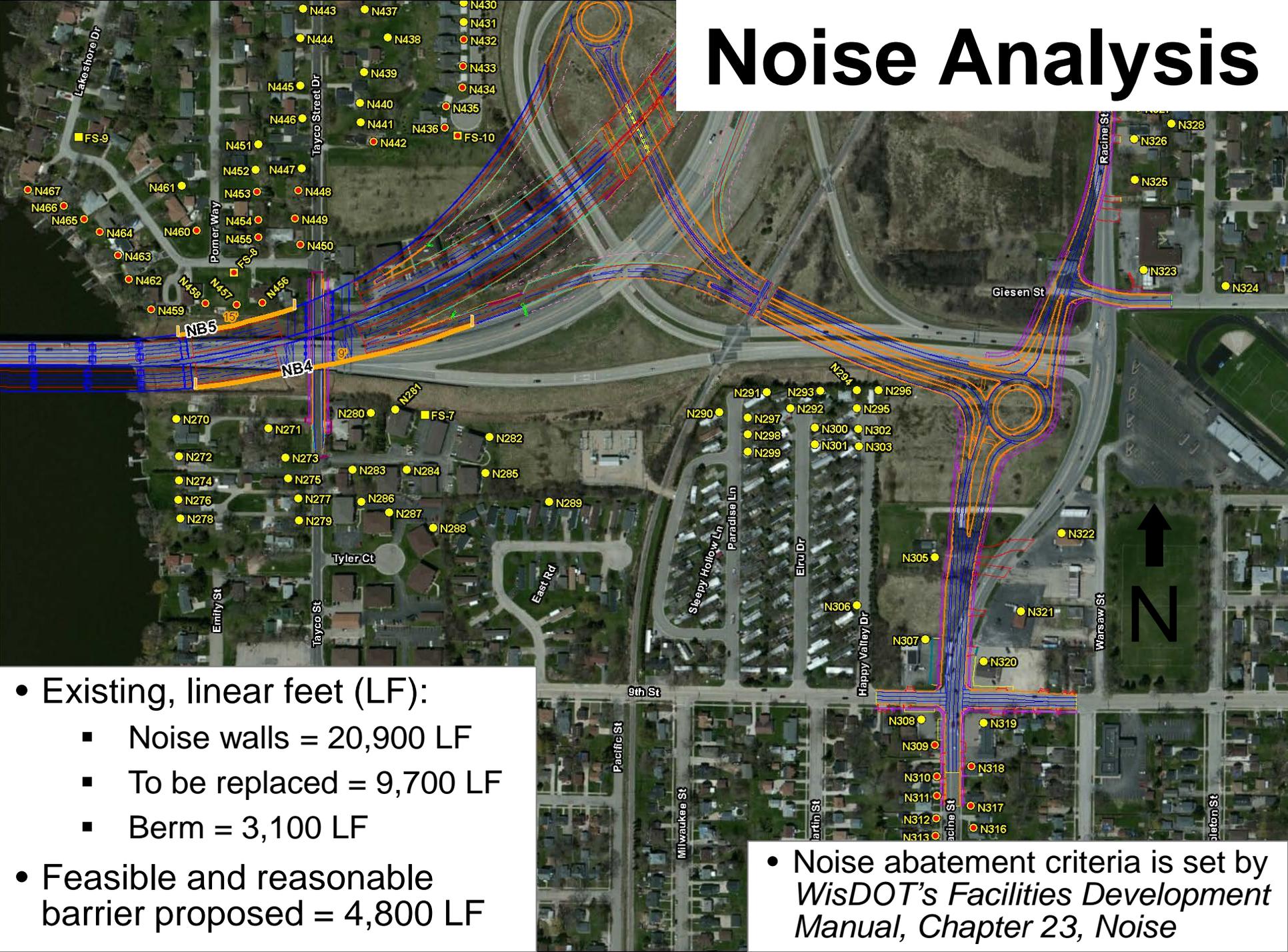
- Construct a Diverging diamond interchange at US 10/Oneida St
- Enhance safety and mobility with access changes
 - Meadow Grove Blvd left-in/right-in/right-out
 - Primrose Ln right-in/right-out
 - Extend Vermillion St to Midway Rd

Next Steps - Real Estate Acquisitions

- Business and residential displacements
 - identified on displays
 - Wisconsin's relocation program
 - Re-establishment of displaced persons and businesses
 - Prompt and reasonable relocation payments
 - Fair market value



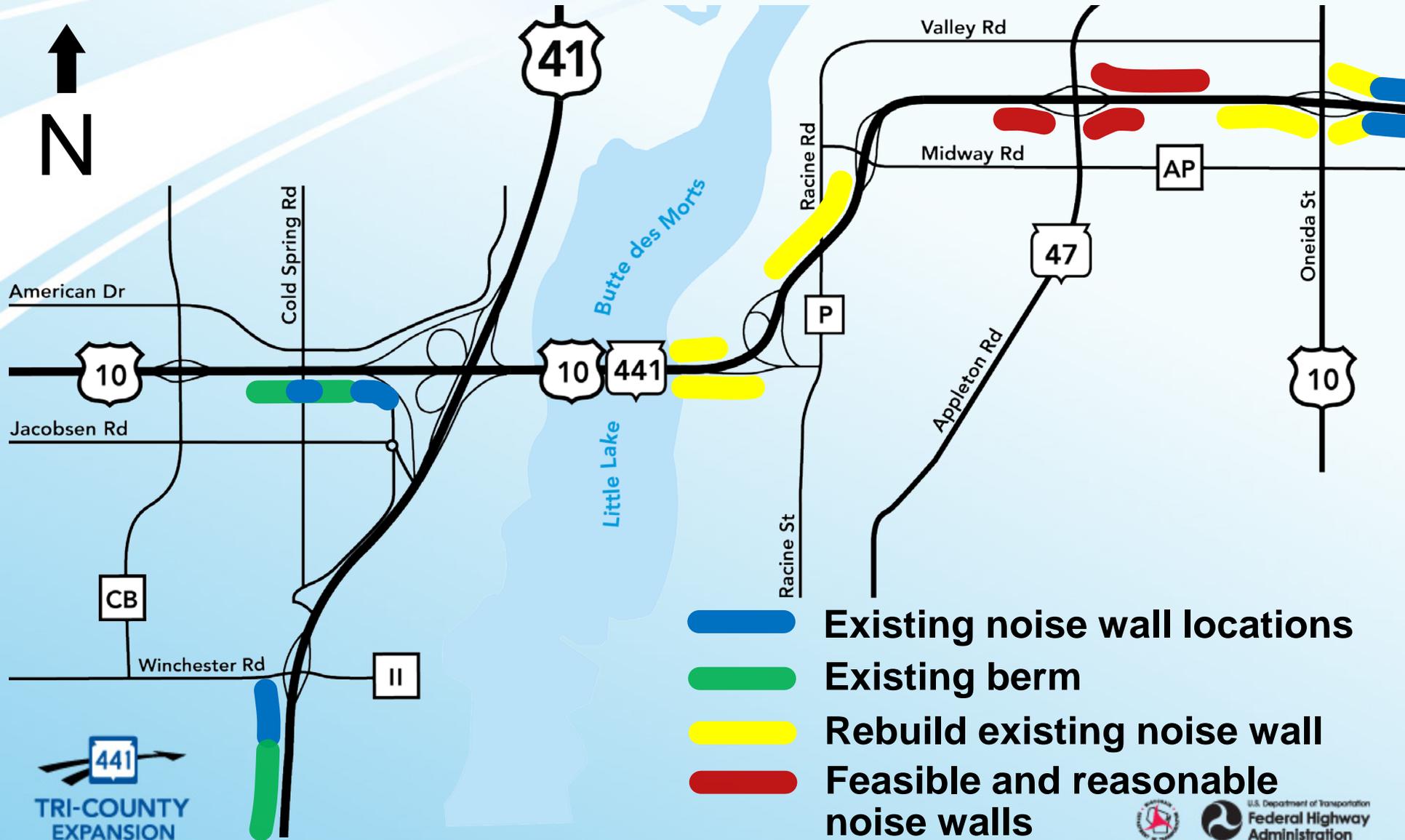
Noise Analysis



- Existing, linear feet (LF):
 - Noise walls = 20,900 LF
 - To be replaced = 9,700 LF
 - Berm = 3,100 LF
- Feasible and reasonable barrier proposed = 4,800 LF

• Noise abatement criteria is set by WisDOT's Facilities Development Manual, Chapter 23, Noise

Noise Analysis Results

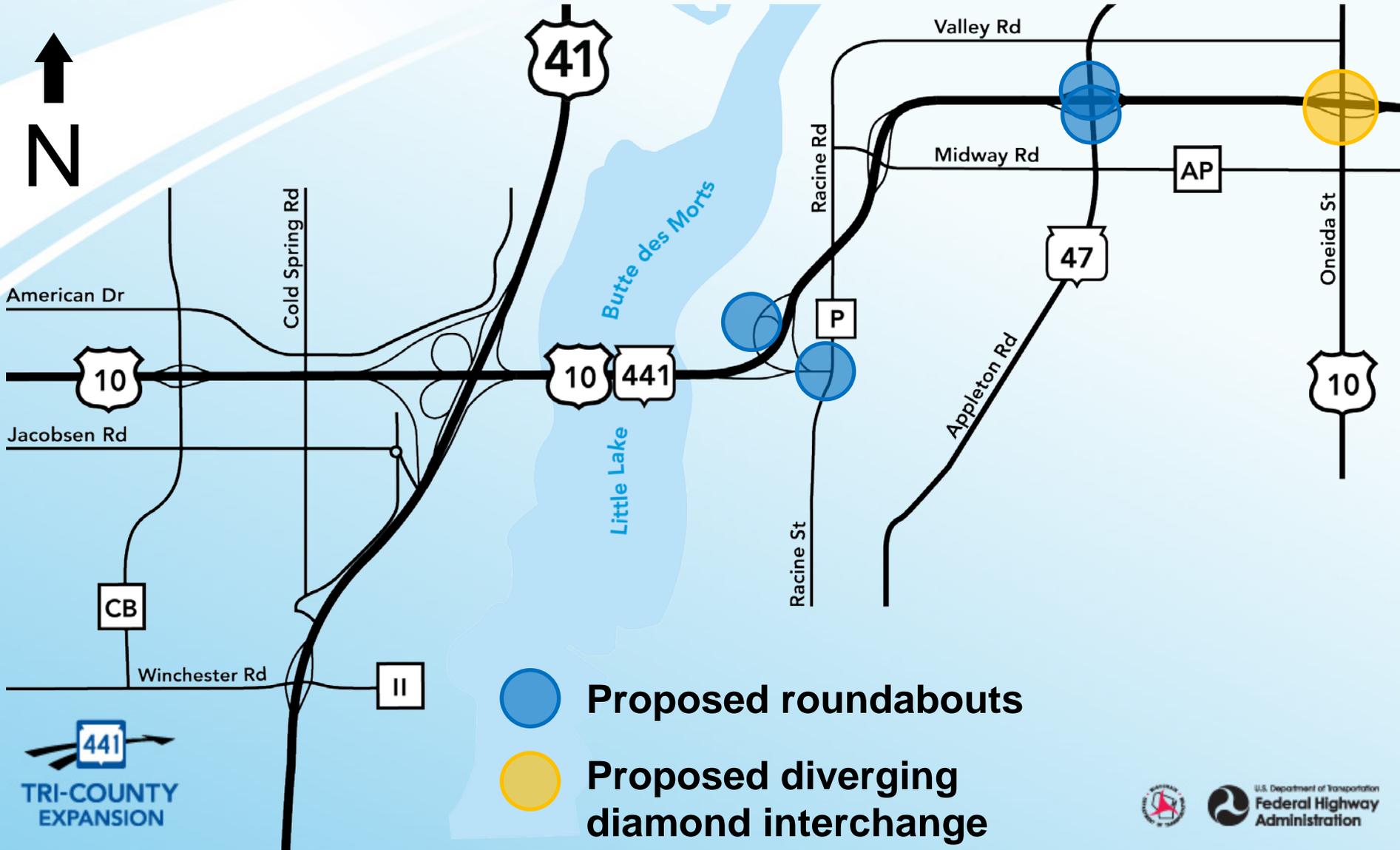


Noise Analysis

Next Steps

- Hold public meeting(s) with potentially benefited residents (May 2015)
 - Property owners and renters
 - Within 500 feet in any direction from the proposed noise barrier
- Determine level of support for the proposed noise barrier
 - Ballots cast by owners or residents of benefited receptors
 - Simple majority of ballots

Roundabouts & Diverging Diamond Interchange



Roundabouts



- 10 percent fewer bicycle crashes
- Fewer conflict points, meaning fewer opportunities for crashes

Source: Insurance Institute for Highway Safety

- 90 percent fewer fatal crashes
- 76 percent fewer crashes with injury
- 30-40 percent reduction in pedestrian crashes

Roundabout Outreach

- Roundabout education
 - www.wisconsinroundabouts.gov
 - “All about roundabouts” DVD
 - Wisconsin driver’s handbook brochure
 - Driver’s test – written exam question

Navigating a roundabout

When you are approaching a roundabout, the first thing you need to do is choose the proper lane and slow down. Be sure to observe all signs and yield to pedestrians in the crosswalk. Next, look left and enter the roundabout when there is a safe gap in traffic. Stay in your lane and obey all posted speed limits. When you have reached the exit you desire, use your right turn signal and exit the roundabout.

• Choosing the right lane

Left turns and U-turns

Use the left lane, or other lanes marked as left turn lanes.

Going straight

Observe the signs and arrows to choose the lane for your desired exit.

Right turns

Use the right lane, or other lanes marked as right turn lanes.

• Bicycles

If you are comfortable riding your bicycle in traffic, you can ride through a roundabout using the same general rules as a motorist. Just be sure to use your hand signals so motorists can prepare for your actions. If you feel uncomfortable in traffic, leave the roadway and either walk or ride on the shared-use path or crosswalks. Be sure to follow the same rules as pedestrians.

• Pedestrians

As you approach a roundabout on foot, you'll notice a crosswalk island dividing traffic into two directions. Look left at the crosswalk and walk to the island when there is a break in traffic. Next, look right when you get to the island because traffic will be coming from the other direction. When you feel it is safe, cross to the other side.

• Large vehicles

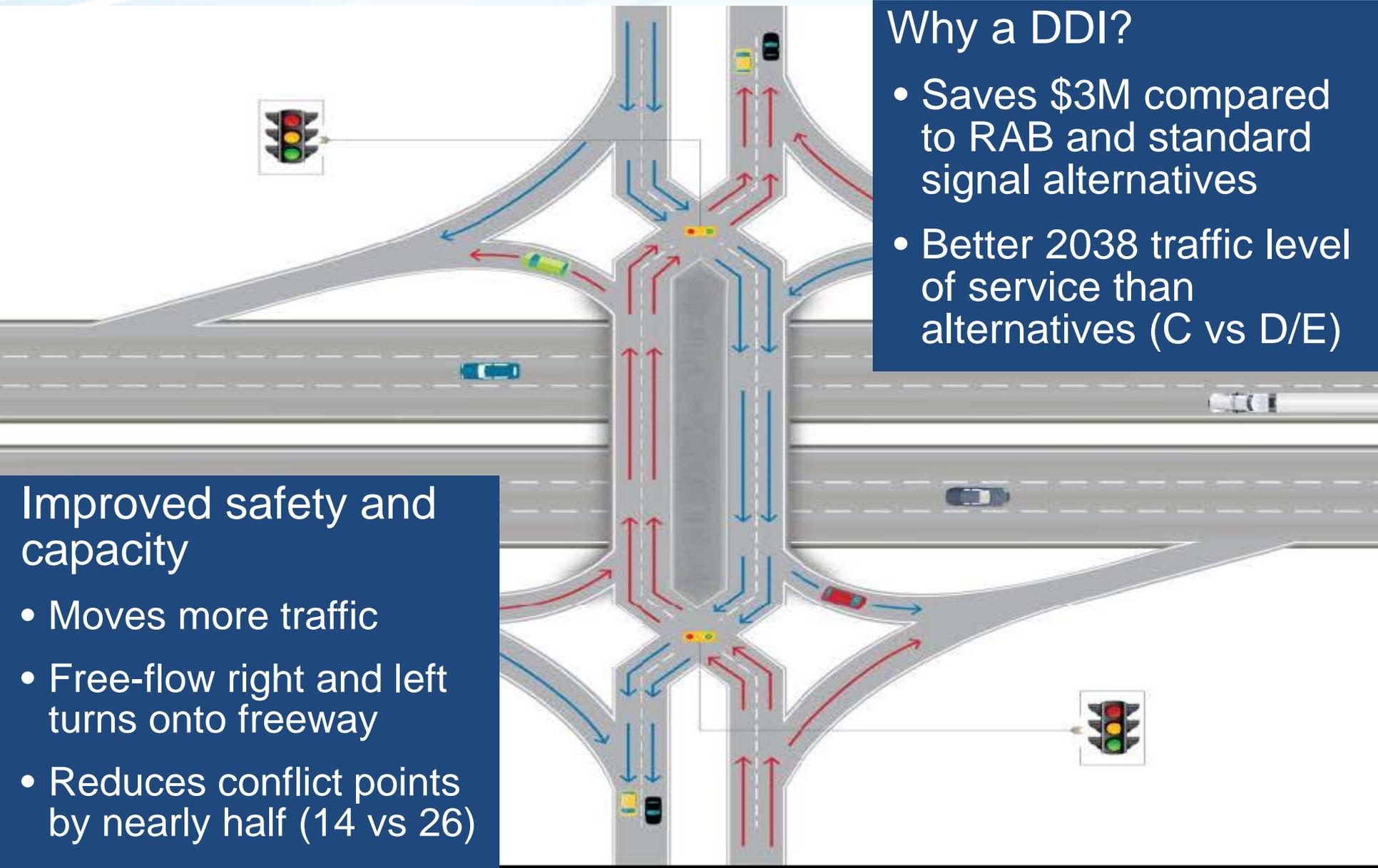
If you see a large vehicle approaching or within a roundabout, give them plenty of space. Avoid driving next to or passing large trucks when approaching or traveling inside a roundabout. You'll also notice an outer section of the center island called the truck apron. Truck aprons are for the rear wheels of a large truck to use when turning—not for SUVs, cars or pickup trucks.

• Emergency vehicles

As always, you should yield to emergency vehicles. If you have not entered the roundabout, pull over and allow the emergency vehicle to pass. If you are already inside the roundabout, avoid stopping and continue to your exit, then pull over to let the emergency vehicle pass.



Diverging Diamond Interchange



Why a DDI?

- Saves \$3M compared to RAB and standard signal alternatives
- Better 2038 traffic level of service than alternatives (C vs D/E)

Improved safety and capacity

- Moves more traffic
- Free-flow right and left turns onto freeway
- Reduces conflict points by nearly half (14 vs 26)

Diverging Diamond Interchange



Meets the needs of all road users

- Large trucks
- Pedestrians
- Bicyclists

Easy navigation, guides drivers with:

- Overhead signs
- Pavement markings
- Traffic signals

Widespread use

- Built in 18 states, planned in 21 states
- Wisconsin: Construction planned at WIS 26 and WIS 11 interchanges along I-39/90 in Janesville

Next Steps – Transportation Management Plans



Continue coordinating with taskforces, stakeholders along corridor

- Enhance safety
- Keep traffic moving during construction
- Keep customers connected with businesses

CSS Process and Recommendations

- Assess project area, develop concepts (**completed**)
- Stone concepts – Communities identify preference (**completed**)
- Color concepts - Communities identify preference (**completed**)
- Focused workshops with community stakeholders (**underway**;
Appleton Road completed)
 - Racine Road
 - Midway Road
 - Oneida Street

Junction 10/441 & 41 structures



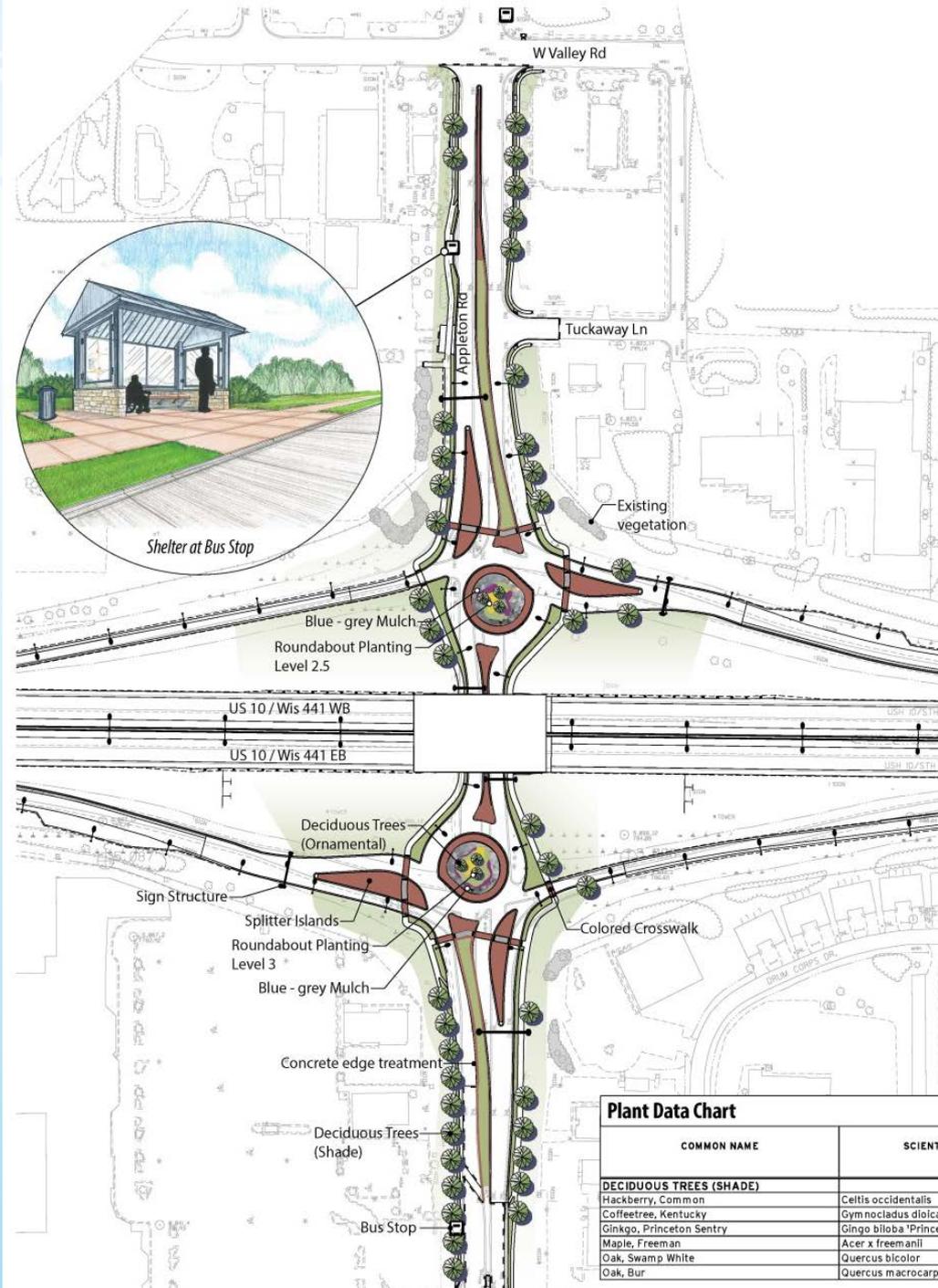
Structures east of LLBDM



Landscape Plan

CSS Process

- Finalized Appleton Road CSS designs
 - Town of Menasha
 - City of Menasha
 - City of Appleton
- Key features
 - Bus shelter and plantings
 - Updated pedestrian facilities



Next Steps - Public Outreach



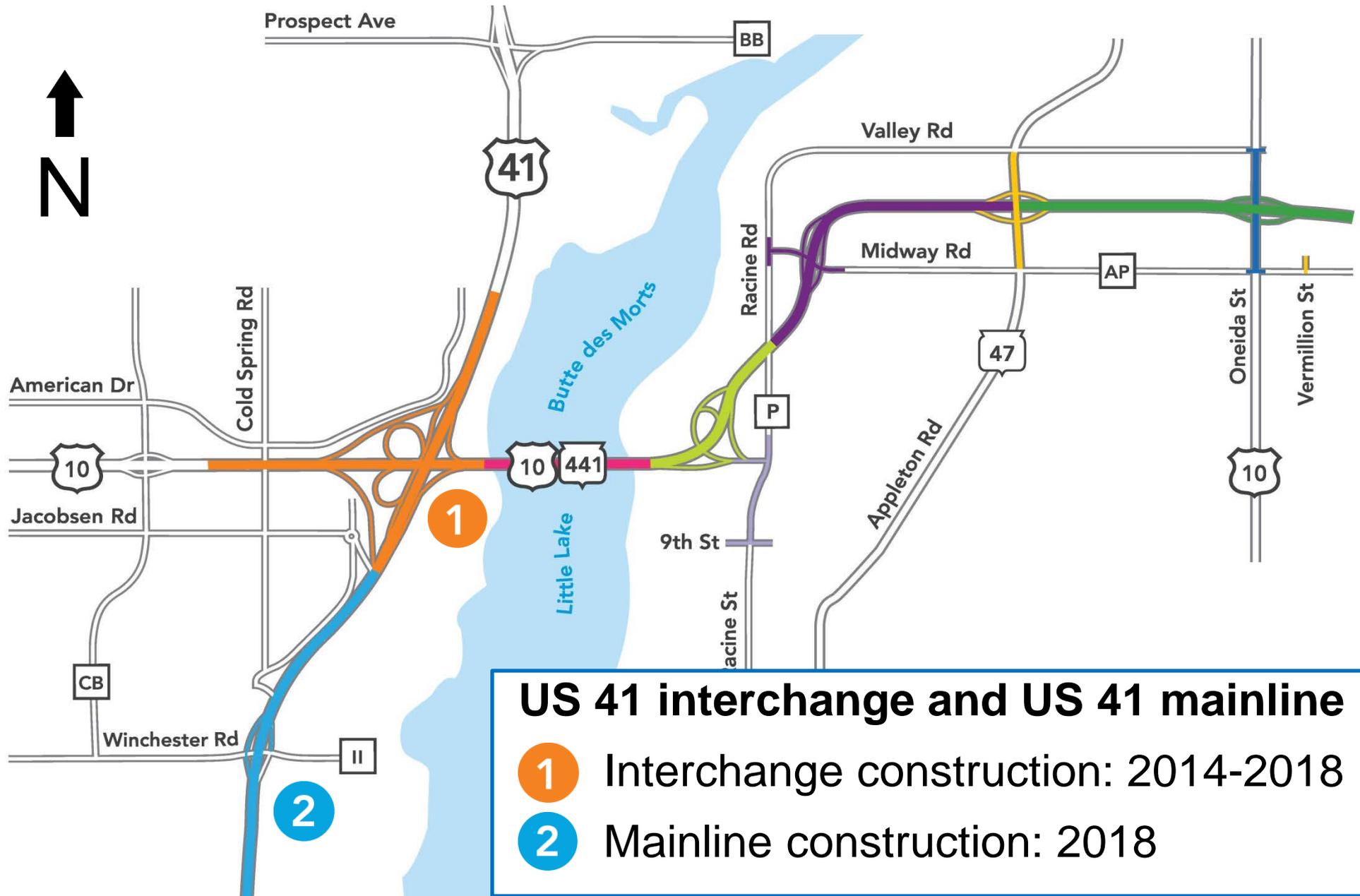
- Maintain trust and credibility within the community
- Be the first and best source for project information
- Seek public input at project milestones

Next Steps - Business Outreach



- Coordinate with businesses along corridor
- Provide businesses with first hand information at milestones
- Identify needs and concerns before and during construction

Project Schedule



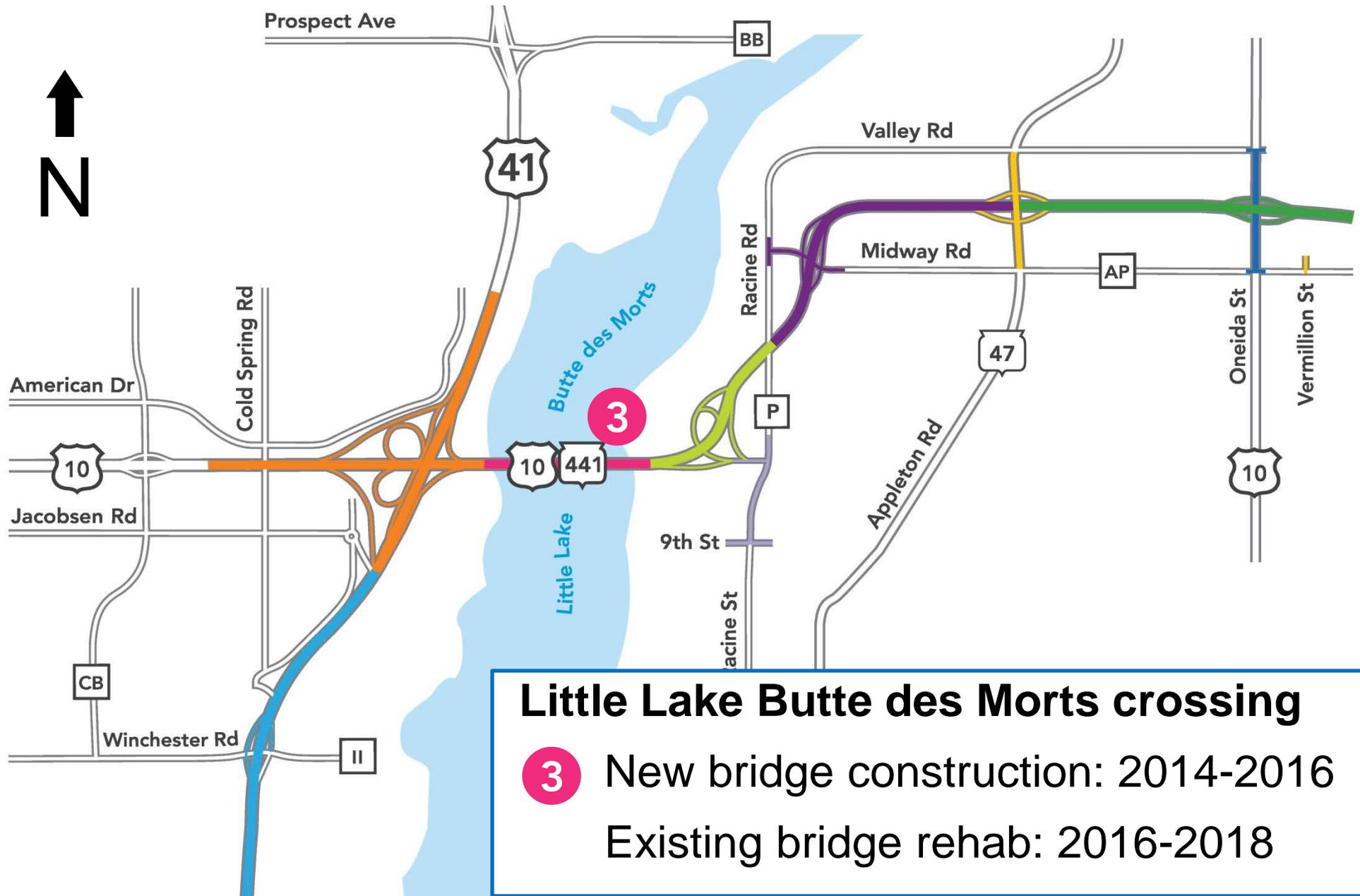


US 41 interchange construction



US 41 interchange construction

Project Schedule

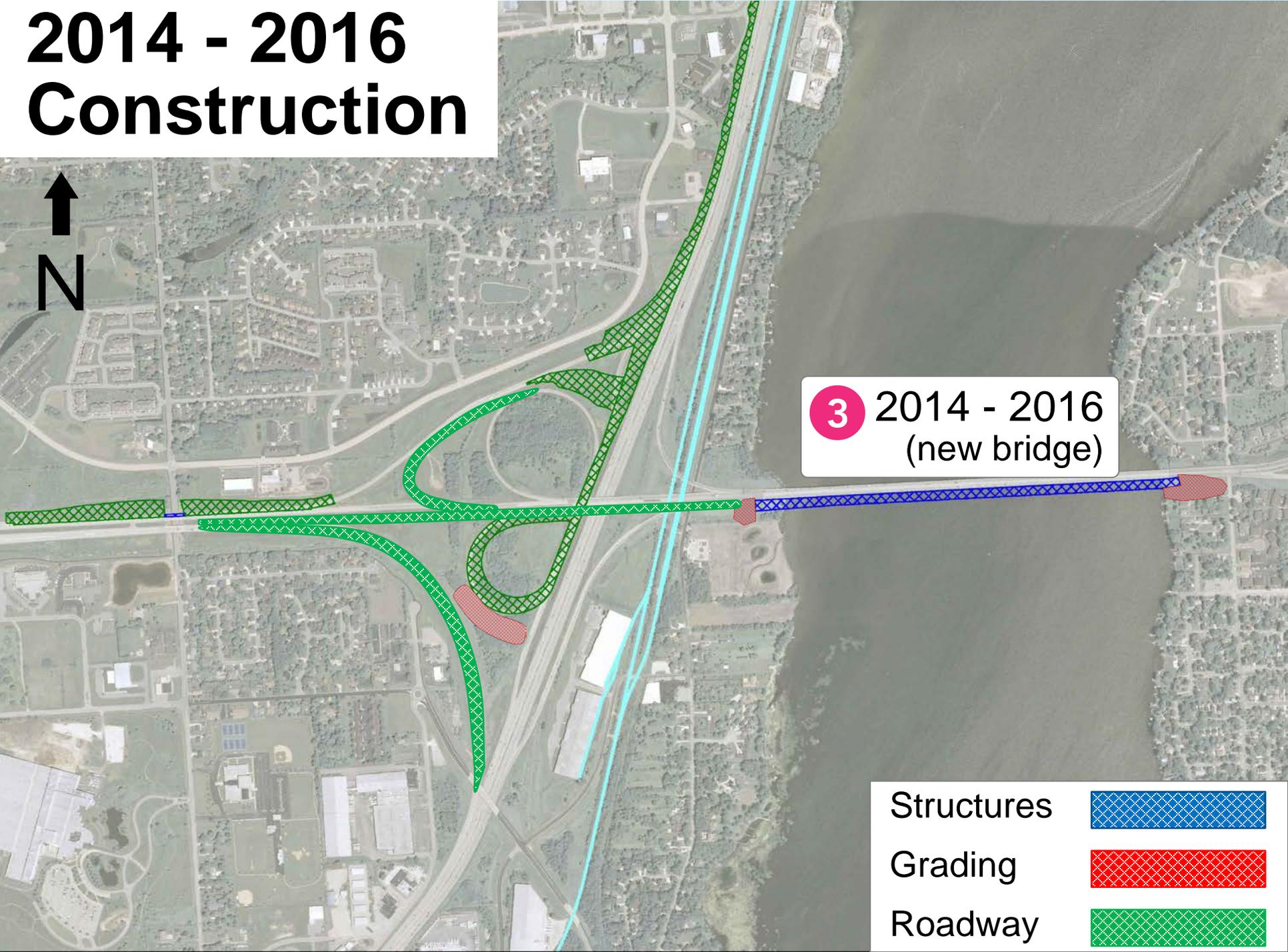


2014 - 2016 Construction



3 2014 - 2016
(new bridge)

Structures	
Grading	
Roadway	



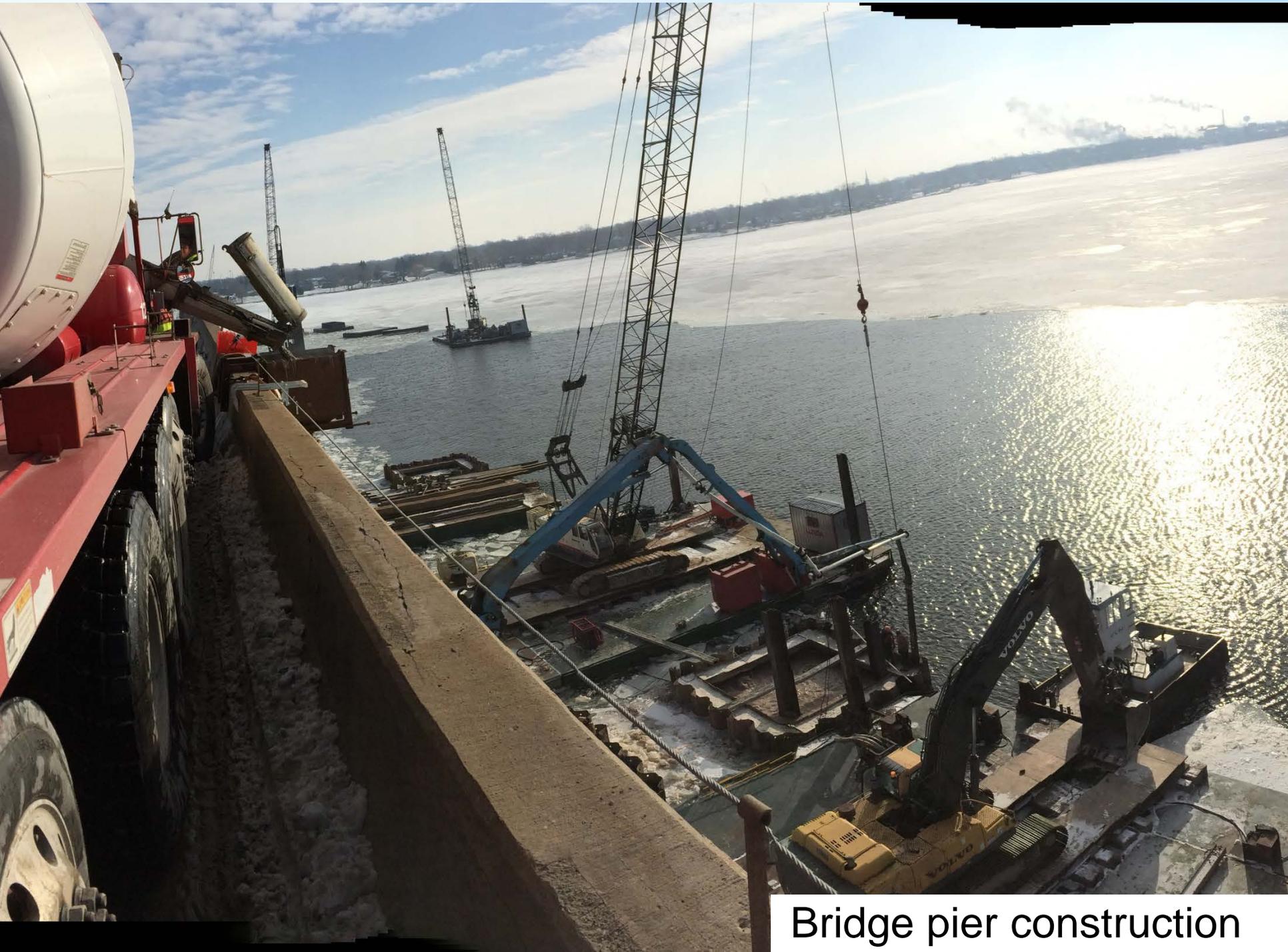


New bridge construction



12/05/2014 11:44

Bridge pier construction



Bridge pier construction



Bridge pier construction

Project Schedule



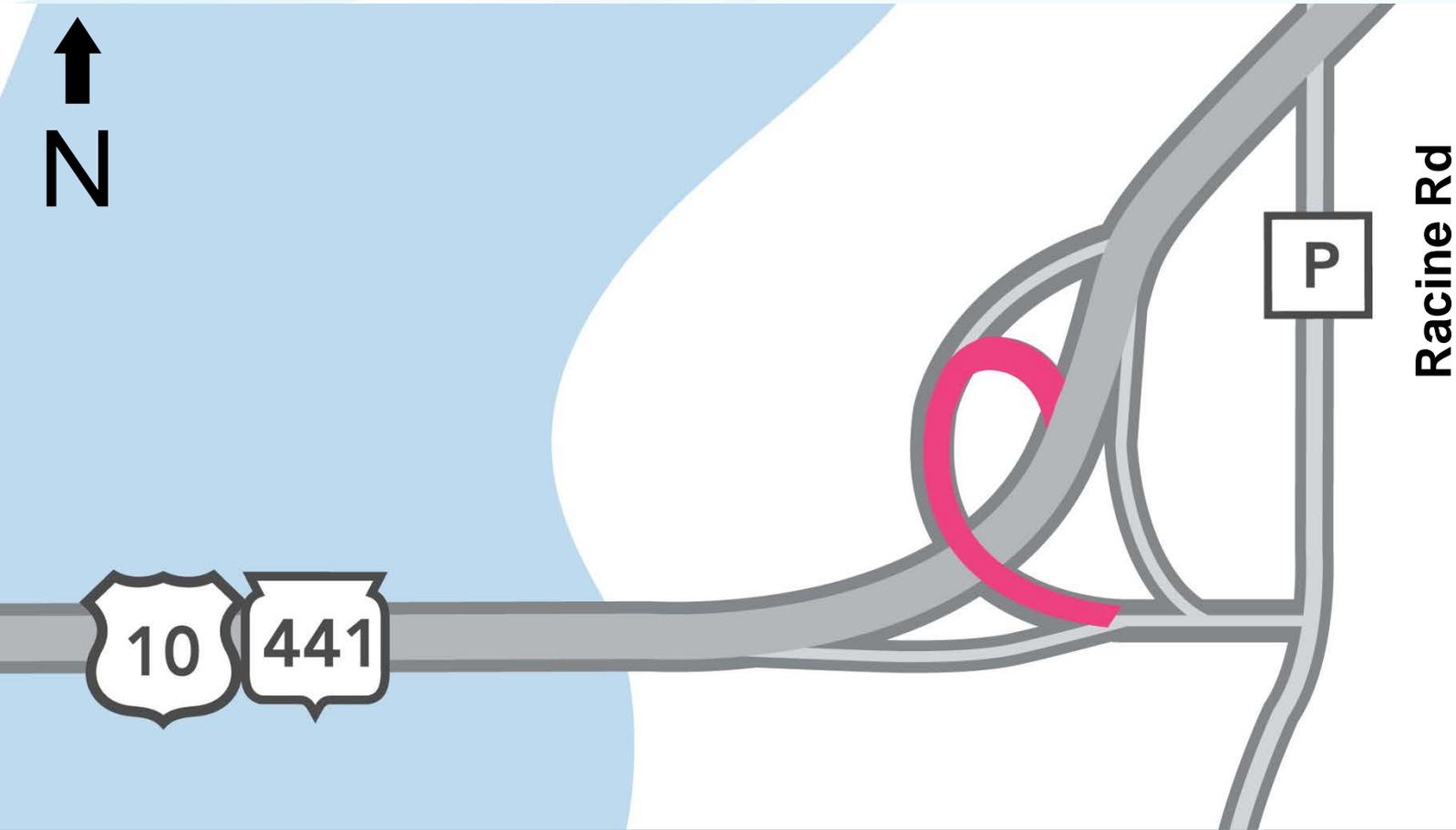
Racine Road

2015 long-term Ramp Closures

- Ramps will be closed during reconstruction
- Drivers will be able to access US 10/WIS 441 at the Midway Road interchange
- Temporary traffic signals will be installed to manage traffic during construction
 - Racine Road/Midway Road intersection
 - Midway Road/US 10/WIS 441 ramps

Racine Road

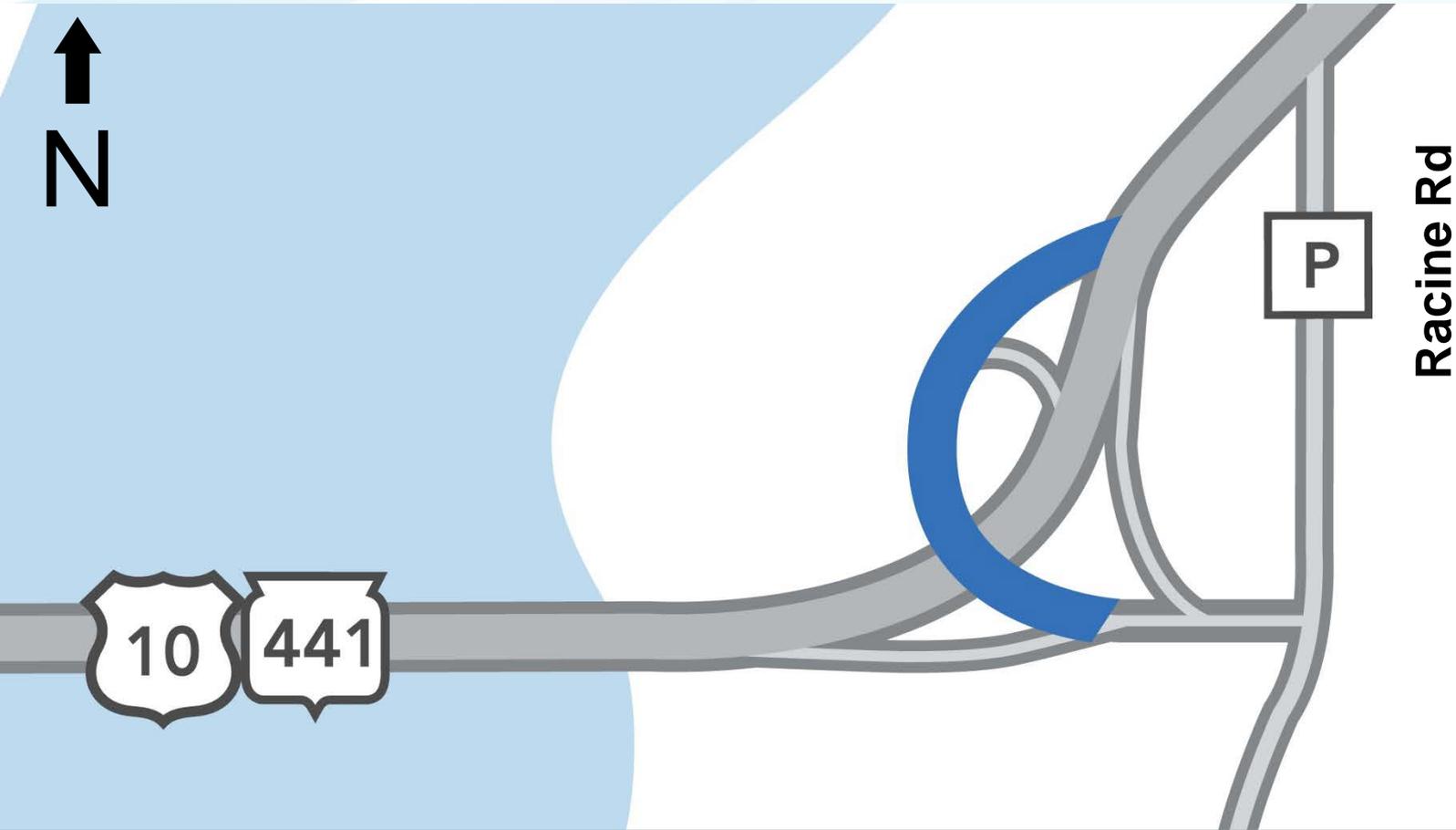
Construction Staging and Closures



- WB US 10/SB WIS 441 entrance ramp will CLOSE between summer 2015 and spring 2018

Racine Road

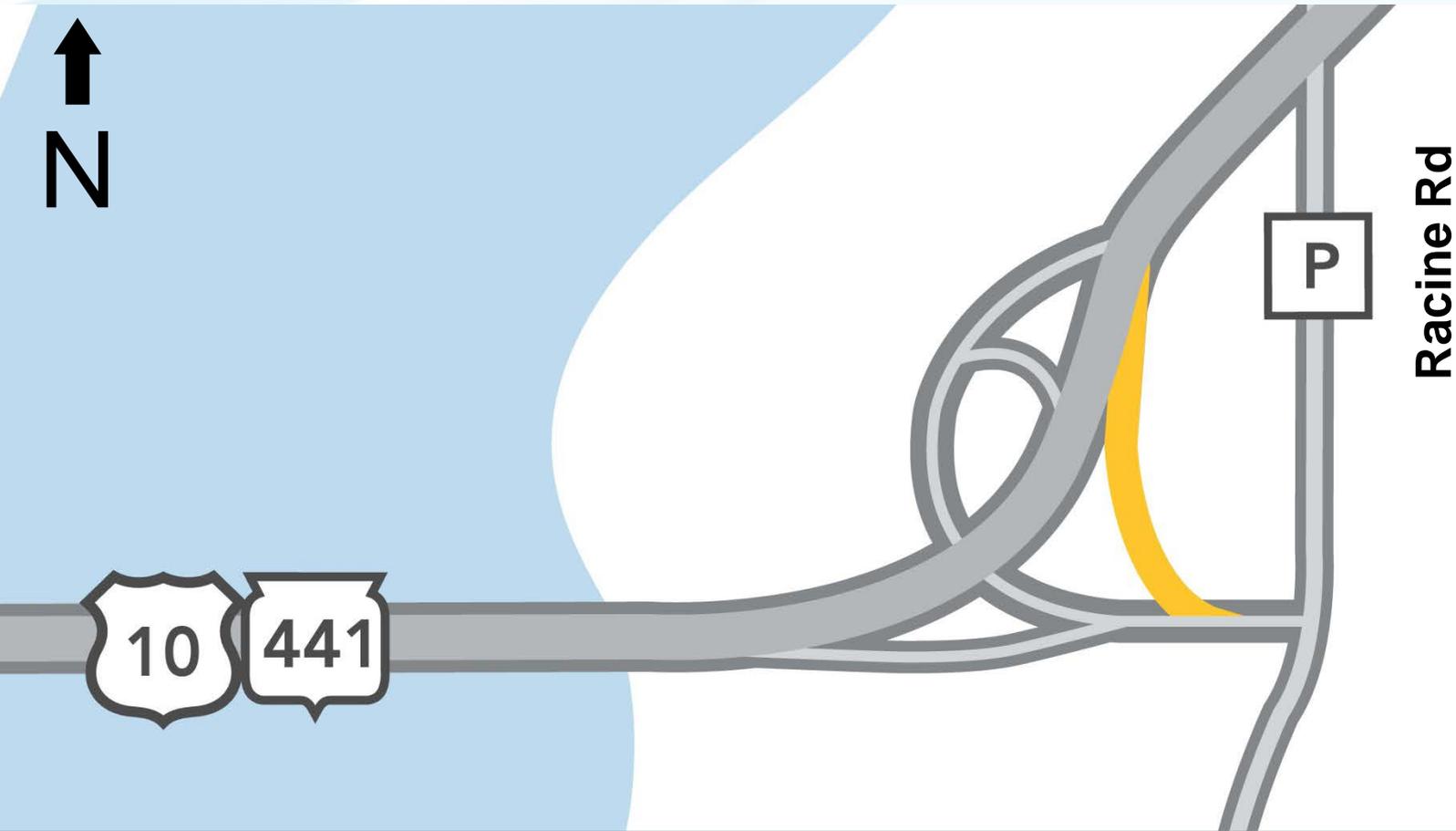
Construction Staging and Closures



- WB US 10/SB WIS 441 exit ramp to Racine Road will CLOSE between summer 2015 and fall 2016

Racine Road

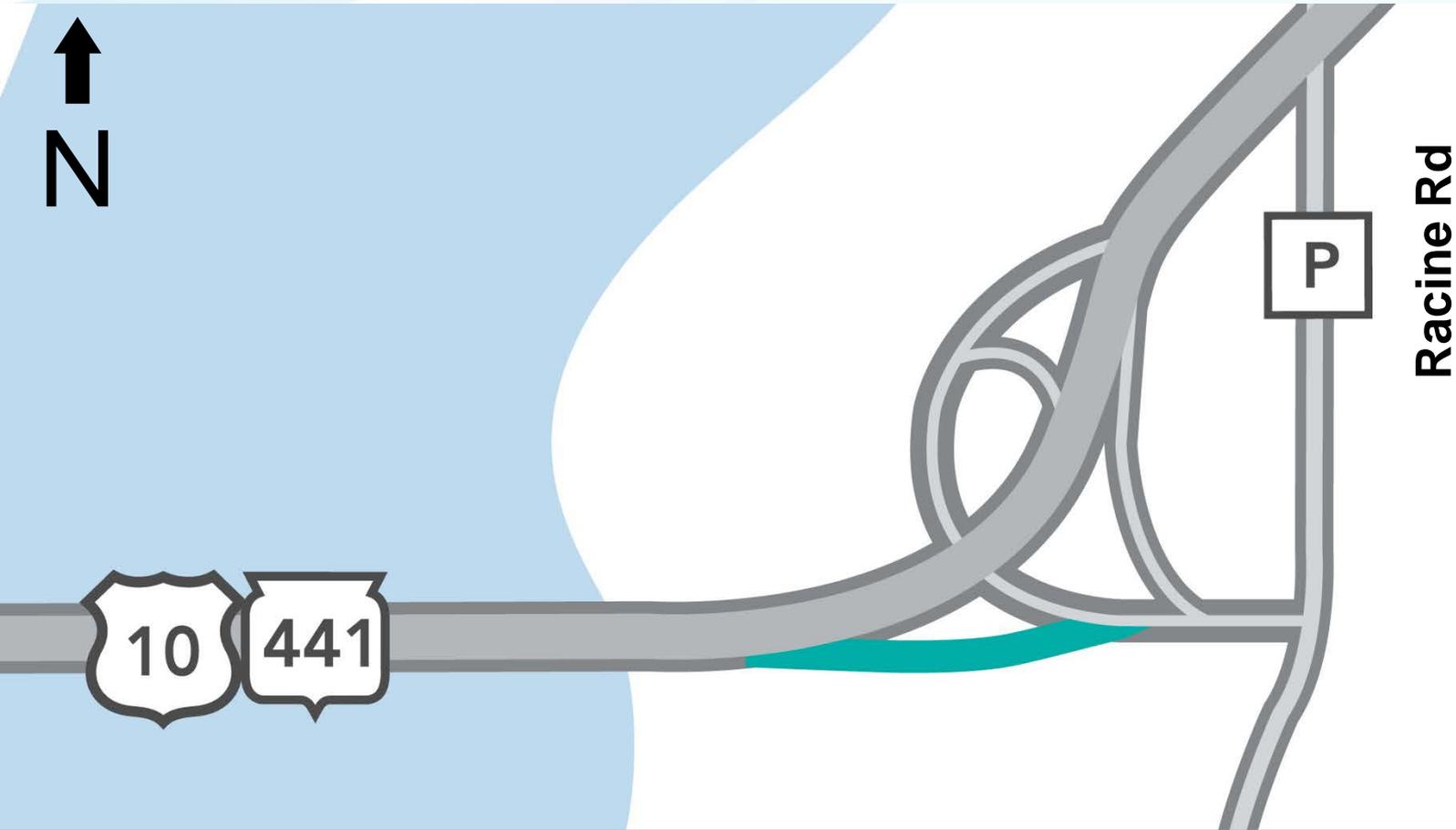
Construction Staging and Closures



- EB US 10/NB WIS 441 entrance ramp from Racine Road will **CLOSE** between fall 2015 and fall 2016

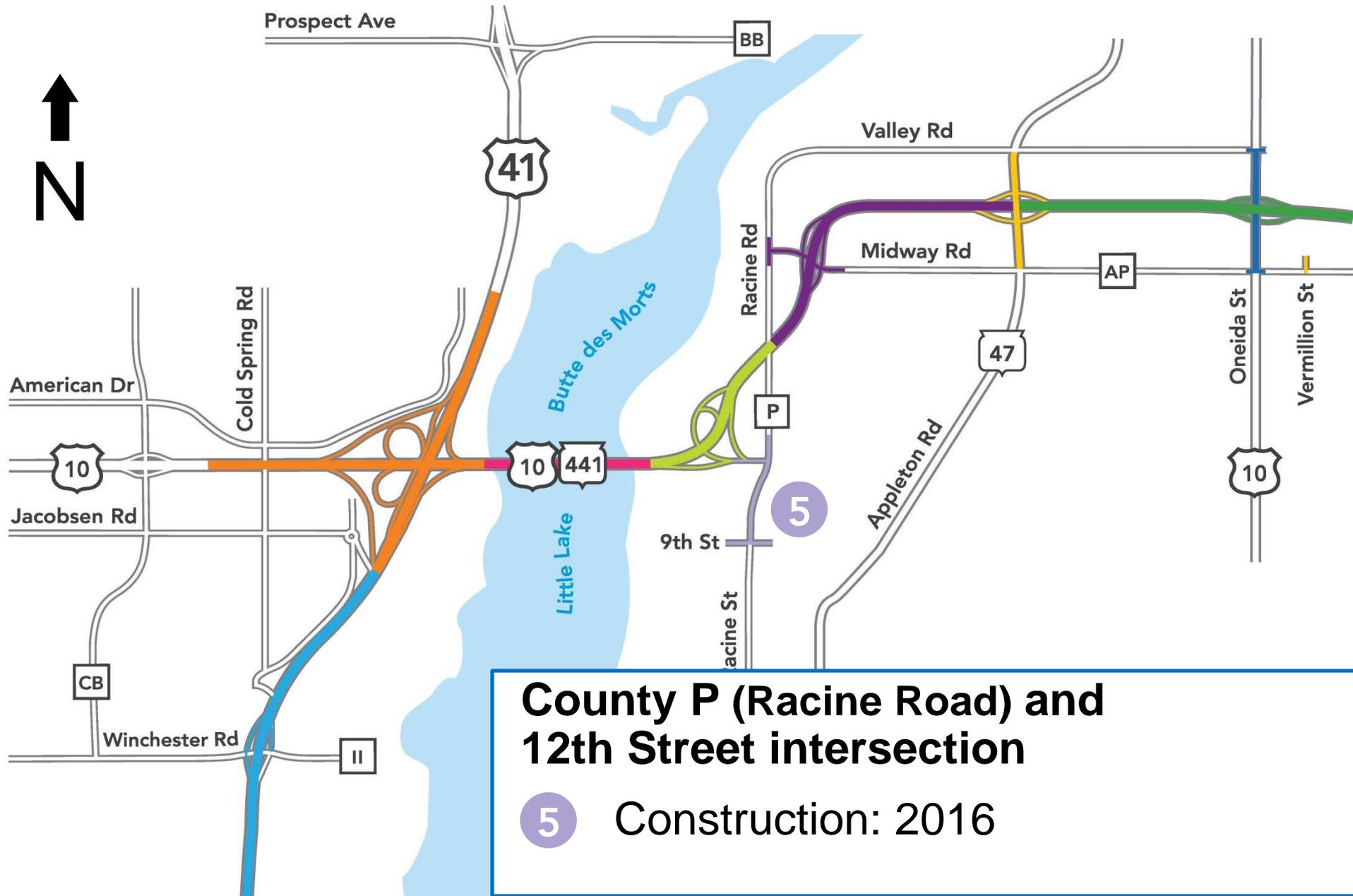
Racine Road

Construction Staging and Closures



- 2016: EB US 10/NB WIS 441 exit ramp to Racine Road will close between spring 2016 and fall 2016

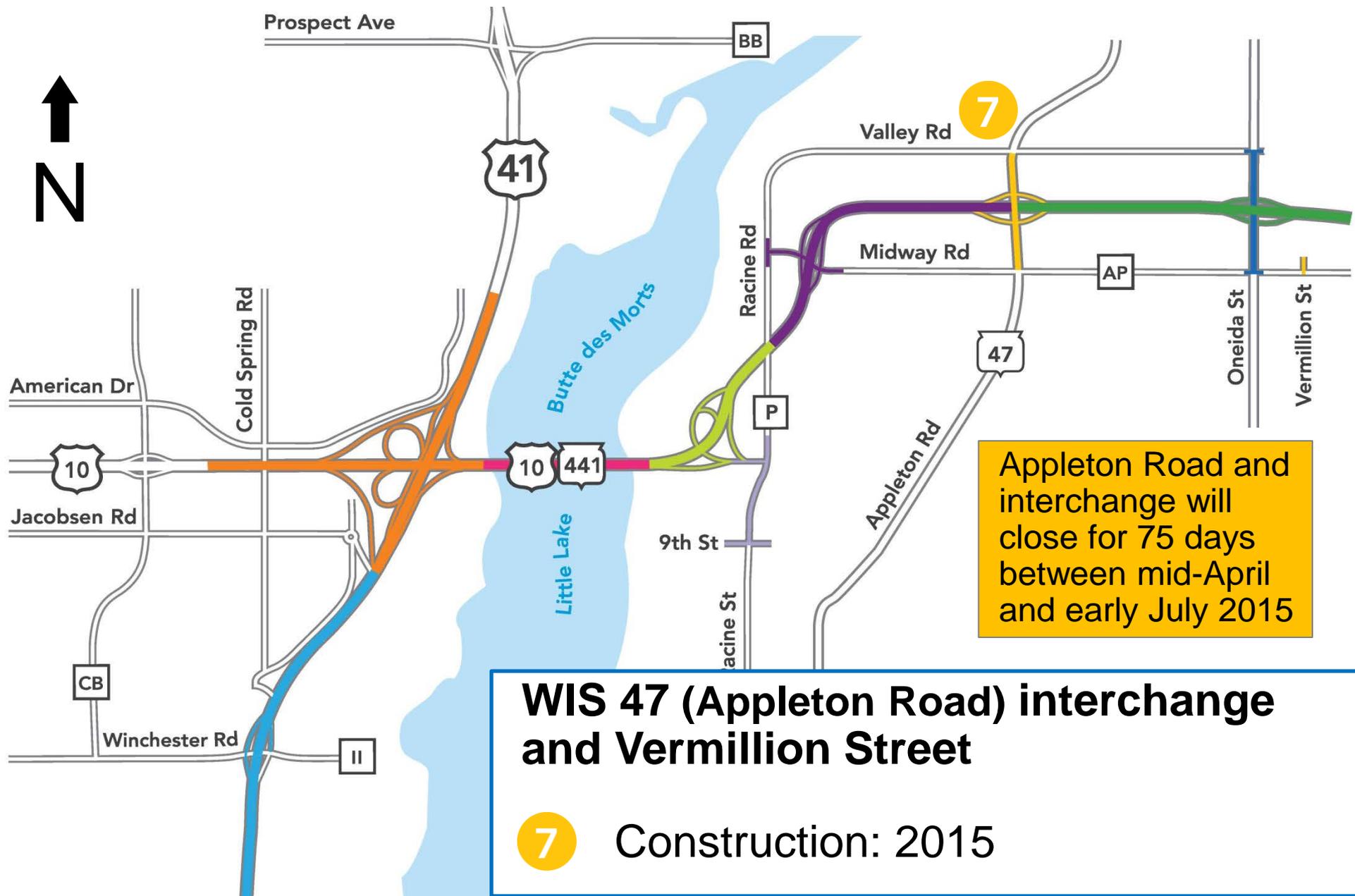
Project Schedule



Project Schedule



Project Schedule



Appleton Road and interchange will close for 75 days between mid-April and early July 2015

WIS 47 (Appleton Road) interchange and Vermillion Street

7 Construction: 2015

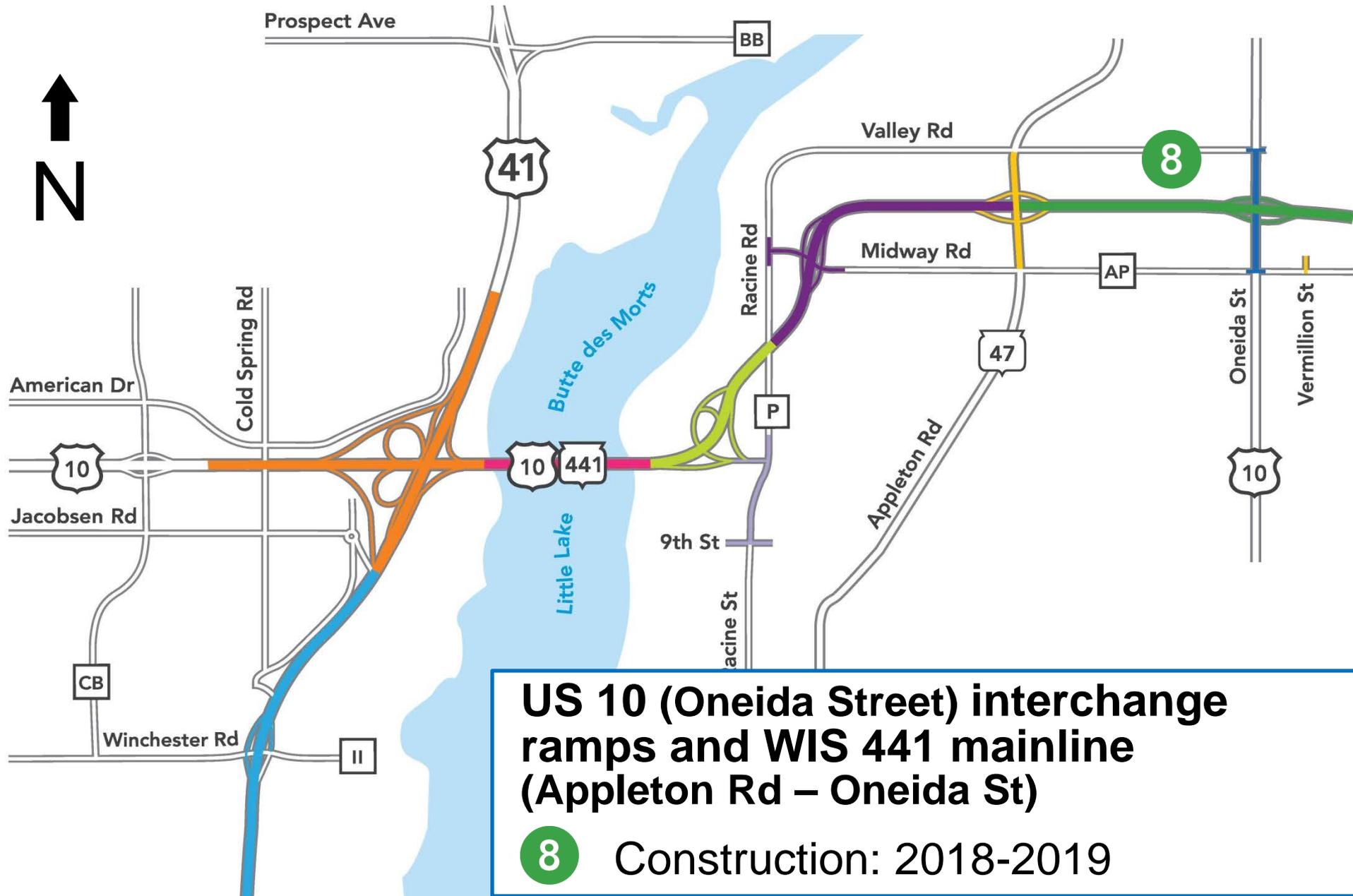
Appleton Road Construction Staging

- Appleton Road and interchange will be CLOSED for 75 days between mid-April and early July
- Alternate routes to US 10/WIS 441
 - Midway Road interchange
 - Temporary signals to manage traffic
 - Oneida Street interchange

Appleton Road Construction Staging

- Appleton Road interchange and Appleton Road Closure (Con't)
 - Pedestrian access will be maintained through the work zone
 - Access maintained across Appleton Road
 - Tuckaway Lane Drum Corps Drive
 - Detour route
 - WIS 47 to County P (Valley Road/Racine Road), to County AP (Midway Road)

Project Schedule



Project Schedule



2015 Construction Summary

Construction

Project

- 1 2014 - 2018 Reconstruct the US 41 interchange
- 3 2014 - 2016 Construct a new bridge across LLBDM
- 4 2015 - 2018 Reconstruct County P (Racine Rd) interchange and WIS 441 mainline
- 7 2015 Reconstruct WIS 47 (Appleton Rd) and construct Vermillion St connection

Work Zone Safety

- Recognizing work zones
 - Flashing lights
 - Orange signs
 - Barrels and flags
- Driving
 - Slow down
 - Follow the law
 - Put your cell phone away
 - Expect the unexpected
 - Plan ahead
- Consequences
 - Fines, prison, injuries/fatalities

SAFER IN THE
ZONE



Work Zone Safety



- Freeway Service Team
- Intelligent Transportation Systems (ITS)
- Emergency responder meetings

Business Resources

'In this together' kit

- Partnership with businesses and provides tools to assist businesses:
 - Planning ahead and staying informed
 - Handling and reducing traffic
 - Keeping customers informed

WISCONSIN DEPARTMENT OF TRANSPORTATION

Doing Business

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[In This Together](#)

[Workbook](#)

[Case studies](#)

[Promotional samples](#)

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In This Together - Workbook

This workbook shows how WisDOT and businesses can work together to succeed during a highway construction project.

Sections

- [Planning ahead](#)
- [Staying informed](#)
- [Handling traffic](#)
- [Reducing traffic](#)
- [Keeping customers informed](#)
- [Assistance for motor vehicle dealers](#)
- [Tips](#)

Worksheet

Checklist for business owners/operators showing items businesses could do, prior to and after construction successful.

- [Business checklist/timeline](#) 

<http://www.us41.wisconsin.gov/wis441/business-resources>



Business Resources - Signing

- Recommend that business signs be coordinated
- WisDOT construction staff will facilitate coordination with municipalities
 - Confirm acceptability of proposed sign location
- Businesses submit permits to either:
 - WisDOT - use the temporary business sign permit for state highways
 - Municipalities, Counties – other roadways, note individual sign support requirements vary by community



Business Resources - Signing



Construction Communication

- Traffic impacts
 - Nighttime lane closures
 - Ramp closures
- Changeable message boards
 - News / media alerts
 - Website



Project Office



- Field office
 - Permanent presence
 - Public / business involvement

Communicating With You



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Get info on the upcoming
WIS 441 Tri-County Project »



OVERVIEW

TRAFFIC

CLOSURES

MAP

GALLERY

NEWS & MEETINGS

RESOURCES



WIS 441 Tri-County Project

Construction begins 2014

OVERVIEW

WEEKLY WIS 441 CLOSURES

WIS 441 UPDATES

PREVIOUS STUDIES

SCHEDULE

CONTACTS

IMPROVED INTERCHANGES

SPECIAL PROJECT FEATURES

MEETINGS

WIS 441 Tri-County Project

WIS 441 Tri-County Project lane closures for February 2 – February 6

Public meeting scheduled for WIS 441

15 new cameras now monitoring traffic

Utility work begins on WIS 47/Appleton

The Wisconsin Department of Transportation is expanding the WIS 441 freeway. The WIS 441 Tri-County Project will add two lanes from Cold Spring Road to about



- WisDOT will continue to keep public informed
 - Project web presence
 - Media outreach
 - Newsletters
 - Public meetings
- Feedback

www.us41wisconsin.gov/wis441



Questions?