

US 151 Freeway Conversion Study

Public Involvement Meeting #4
August 4, 2016



PROJECT STAFF

Wisconsin Department of Transportation

- Mark Westerveld – DOT Project Manager
- Tom Koprowski – DOT Transportation Planner
- Brandon Lamers – DOT Supervisor
- Joel Brown – DOT Major Studies Environmental Coordinator
- Colleen Hoesly – DOT Transportation Planner
- Greg Messling – DOT Real Estate Specialist

Ayres Associates

- Matt Barr – Project Manager
- Dan Schrum – Design Engineer



TranSmart Technologies

- Charles Wade – Transportation Planner



MEETING AGENDA



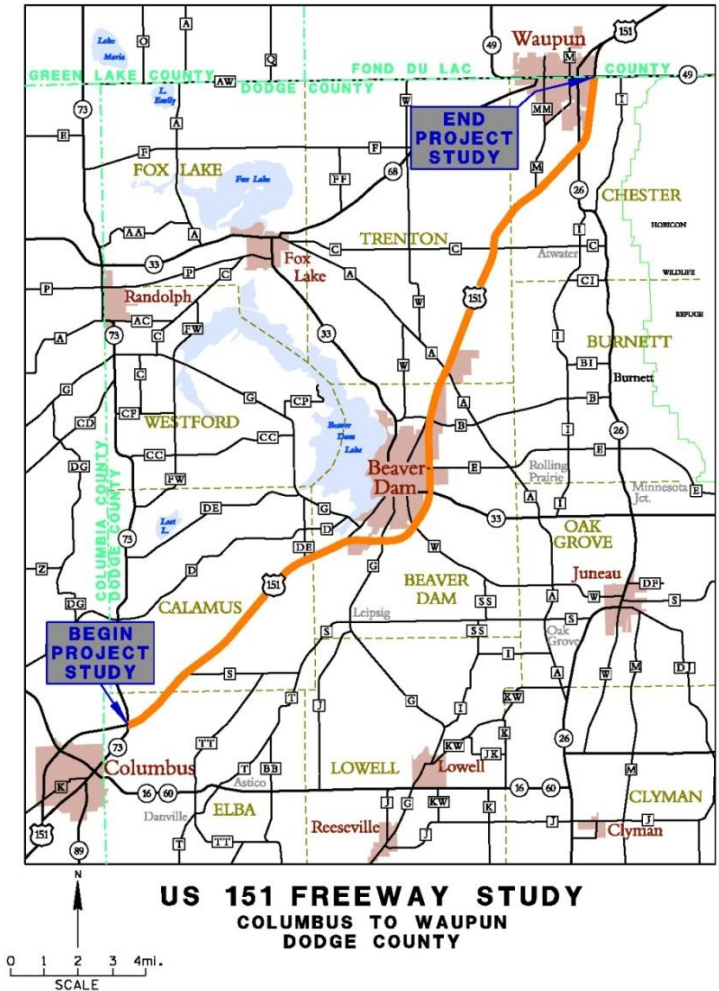
- Project Overview
- Review purpose and need of study
- Discuss official “mapping” process
- Discuss stakeholder concerns to date
- Summarize impacts of freeway conversion
- Discuss alternatives carried forward and the Recommended Alternative
- Gather input



PROJECT STUDY AREA

Project Limits

- Columbus to Waupun
- WIS 73 interchange to WIS 49 interchange
- Total length approx. 27 miles



PURPOSE OF STUDY

- Analyze US 151 corridor for conversion to freeway facility (Majority of US 151 within study limits is currently an expressway)
 - Expressway
 - Four-lane divided roadway
 - Limited access to mainline for side roads and private entrances
 - Freeway
 - Four-lane divided roadway
 - Access to mainline only allowed at interchanges



EXISTING CORRIDOR HISTORY

- Columbus Bypass - 1991
- Columbus to Beaver Dam Expressway - 1993
- Beaver Dam Bypass - 1996
- Beaver Dam to Waupun Expressway - 1997
- Beaver Dam Bypass – 2008
- County D Interchange - 2011
- STH 33 – 2014
- Guardrail replacement project - 2014

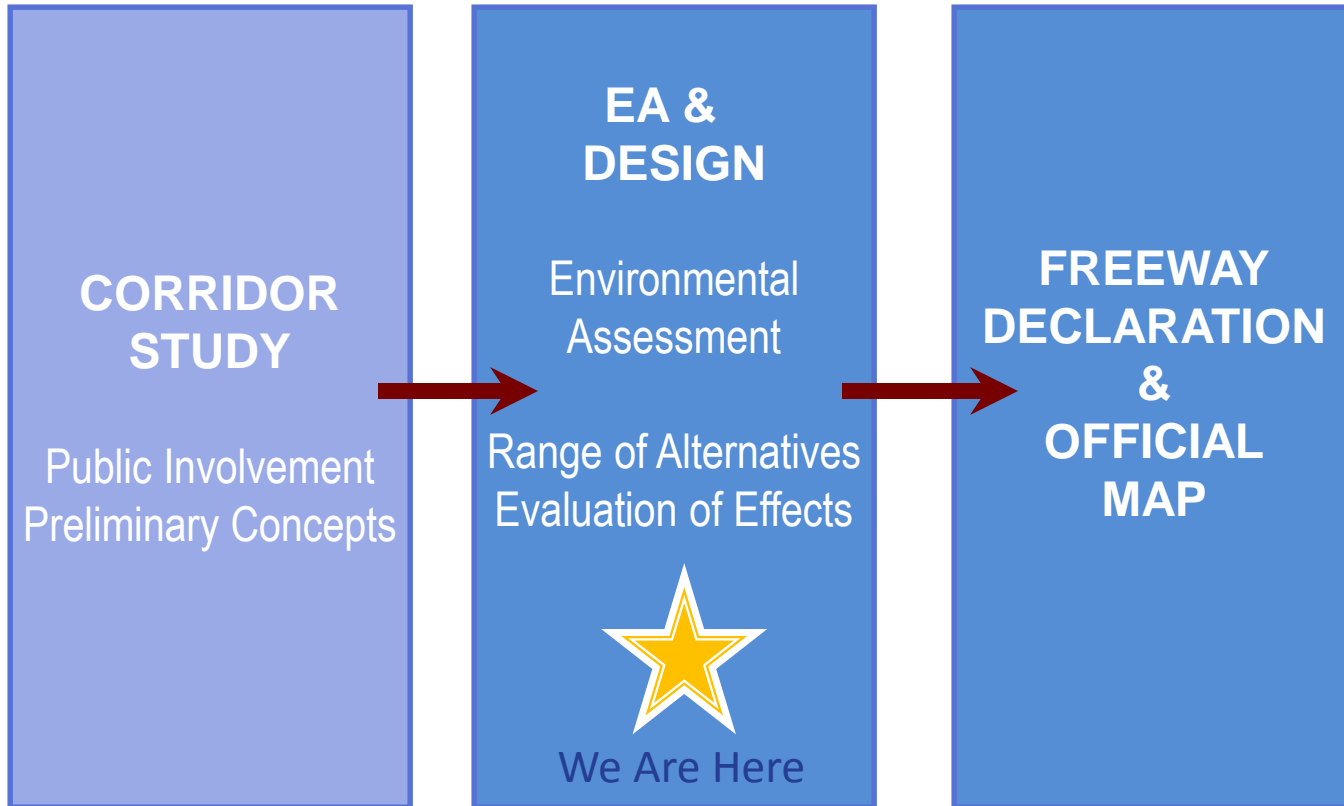


PROJECT NEED

- Long-term plan and importance of highway
 - Connections 2030 Backbone Route
- Corridor Preservation
- Address increasing growth and development
- Facilitate planning for future land use and transportation needs
- Maintain long-term safety and operations



PROJECT STUDY PHASES



WIS. STATUTE 84.295 & OFFICIAL MAP

- State Statute (Wis. Stat. 84.295(10)) authorizes WisDOT to create and update an official map for future freeways and expressways
- An official map allows WisDOT to preserve, protect, and set aside future right-of-way for US 151 where freeway design is being planned
- An official map also informs and enables landowners, the public, and local agencies to plan their future in ways that won't conflict with the future highway improvements



WHAT WILL WISDOT OFFICIALLY MAP?

- WisDOT will map and preserve land required to convert US 151 to a freeway under Wis. Statutes 84.295(10) including:
 - Interchanges
 - Grade separations (overpass/underpass)
 - Alterations to existing public and private access points
 - Alterations, removals, or additions to the local road system



SUMMARY OF FREEWAY CONVERSION

Existing interchanges likely to remain

- WIS 73 - Full diamond interchange
- County D – Reconstructed to full diamond interchange in 2012
- County G - Full diamond
- WIS 33 - Full diamond
- Industrial Drive - Half diamond
- County B - Full diamond



STH 73 Interchange



SUMMARY OF FREEWAY CONVERSION

Existing interchanges likely to remain

- County A - Full diamond
- County M
 - 2 movements allowed now
- WIS 26 - Full diamond
- WIS 49 - Full diamond



County A Interchange



SUMMARY OF FREEWAY CONVERSION

Side roads

- Access to US 151 relocated to interchanges
- Modifications to local road network required
- Desirable distance between ramp terminals and frontage road is $\frac{1}{4}$ mile, min. 1,000'
- Overpass or underpass crossings of US 151



Redwood Road



SUMMARY OF FREEWAY CONVERSION

Private access

- All direct access removed from US 151 include:
 - Commercial entrances
 - Driveways
 - Agricultural entrances
- Access to US 151 only at interchanges
- Frontage roads to provide connections to interchanges and local roads



Business along US 151



SUMMARY OF FREEWAY CONVERSION

Eliminate at-grade railroad crossings

- Crossing of Wis. Southern east of Beaver Dam
 - Raise US 151 over railroad
 - US 151 spans both railroad and County E
- Crossing of Wis. Southern south of Waupun
 - Raise US 151 over railroad
- Overpass of Union Pacific crossing south of Beaver Dam to remain



At-grade RR crossing



PROJECT STATUS & PUBLIC INVOLVEMENT

- Environmental Data Collection
- Agency Input
- Developed Preliminary Concepts
- Completed a Value Planning Study
- Held 3 Public Involvement Meetings and 4 Local Officials Meetings
- Refined Preliminary Concepts and Developed a Recommended Alternative



WHAT WE HAVE HEARD

- Division of farm properties resulting from loss of at-grade crossings of US 151
- Possible need to create alternative crossings of US 151 to serve farmers
- Longer and less direct commutes for some residents on/near the US 151 corridor
- Need for new local roads or extended driveways to replace direct access to US 151
- Impact on existing and proposed crossings for recreational users (snowmobiles, bicycles, etc.)



WHAT WE HAVE HEARD

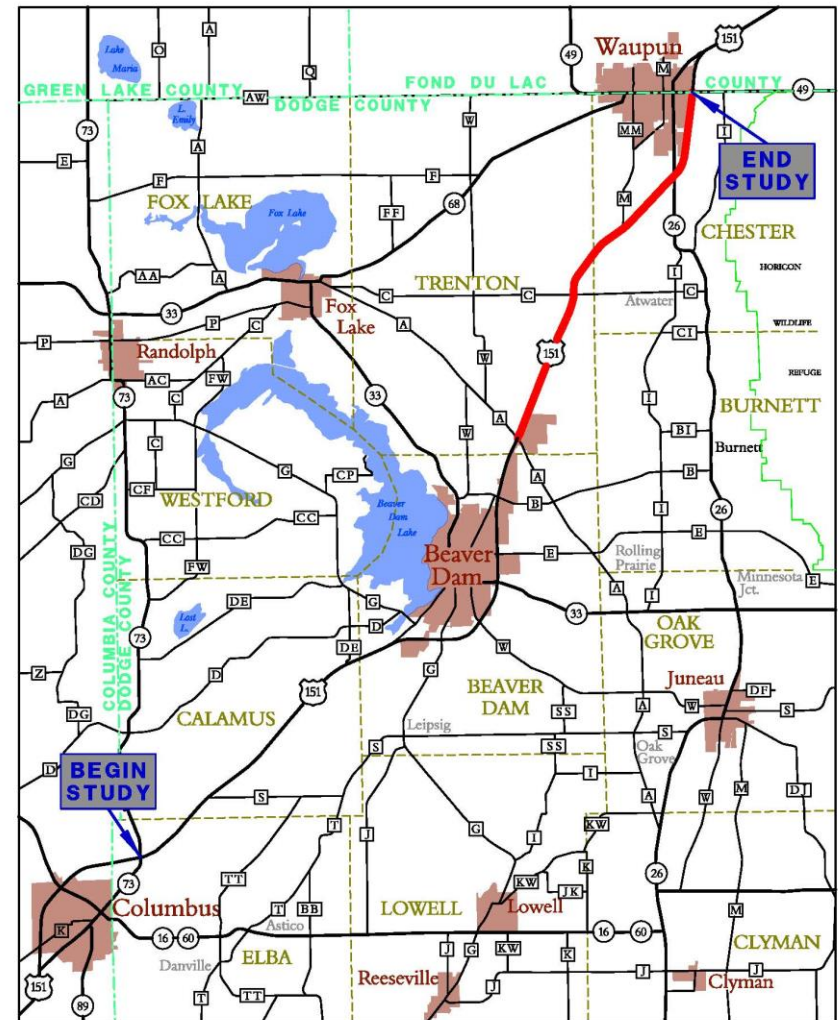
- Business access on Klatt Road
- Possible disincentive for non-agricultural development near the US 151 corridor where access is eliminated
- Possible increased pressure to develop near potential new interchanges
- Possible removal/relocation of buildings
- Likely increases in traffic on remaining routes with access to US 151
- Safety concerns at County C intersection



ALTERNATIVES ANALYSIS

STUDY SECTIONS

- South Section
 - Columbus to Beaver Dam
- Central Section
 - Beaver Dam
- North Section
 - Beaver Dam to Waupun



US 151 FREEWAY STUDY
COLUMBUS TO WAUPUN
DODGE COUNTY
NORTH SECTION



ALTERNATIVES ANALYSIS

Where did we begin?

19 Alternatives Initially Developed

- 10 South Section Alternatives: Columbus to Beaver Dam (Alternatives numbered 1 through 3; A,B,C,D)
- 9 North Section Alternatives: Beaver Dam to Waupun (Alternatives numbered 4 through 7; A,B,C)
- Central Section Alternative: Beaver Dam



ALTERNATIVES ANALYSIS

Factor Matrix Evaluation

What criteria was used?

EVALUATION CRITERIA	HOW IT WAS MEASURED
Engineering / Construction	
Total New Road Length	Alignment Miles
Interchange Spacing	Qualitative Measure
Longest Distance between USH 151 Crossings	Alignment Miles along US 151
Change in Access to US 151	Displaced Access Miles
Stormwater Impacts	Qualitative Measure
Real Estate	
Land Converted to Right-of-Way	Acreage
Building Relocation	Total Number of Properties with Relocations
Historical Relocation	Total Number of Properties with Relocations
Historical Impacts: Non-Relocation	Land Acquisition or Major Visual Impact
Relocated Property Access	Each
Environmental Issues	
Farmland Parcel Divisions	Either > 1/4 of property or 10 acres split up
Agricultural Land Converted to Right-of-Way	Acreage
Wetland Impacts	Acreage
Stream Crossings	Each
Community	
Community Rating	Qualitative Measure; Overall Compatibility w/ Local Comp Plans

Which alternatives were evaluated?

	ALTERNATIVE	INTERCHANGE LOCATION	OVERPASS LOCATION			
Columbus to Beaver Dam	1A	CTH S, Gunn	Bethel	Salem	Forest	County DE
	1B	CTH S, Gunn		Salem	Forest	County DE
	1C	CTH S, Gunn		Salem	Forest	County DE
	1D	CTH S, Gunn		Salem	Forest	County DE
	2A	CTH S, CTH DE	Bethel		Forest	
	2B	CTH S, CTH DE		Salem	Forest	
	2C	CTH S, CTH DE		Salem	Forest	
	3A	CTH S	Bethel		Forest	County DE
	3B	CTH S	Bethel	Salem	Forest	County DE
	3C	CTH S		Salem	Forest	County DE
	4A	Redwood, CTH M	Breezy Point	County C		
	4B	Redwood, CTH M	Breezy Point	County C	Oakwood	
4C	Redwood, CTH M	Breezy Point	County C	Oakwood		
Beaver Dam to Waupun	5A	CTH C, CTH M	Breezy Point	Redwood	Oakwood	
	5B	CTH C, CTH M	Breezy Point		Oakwood	
	5B MODIFIED	Partial Cloverleaf at CTH C, CTH M	Breezy Point		Oakwood	
	5C	CTH C, CTH M	Breezy Point		Oakwood	
	6A	Split Diamond at Redwood & CTH C, CTH M	Breezy Point		Oakwood	
	7A	Partial Cloverleaf at Redwood, CTH M	Breezy Point	County C	Oakwood	
RECOMMENDED ALTERNATIVE						



ALTERNATIVES ANALYSIS

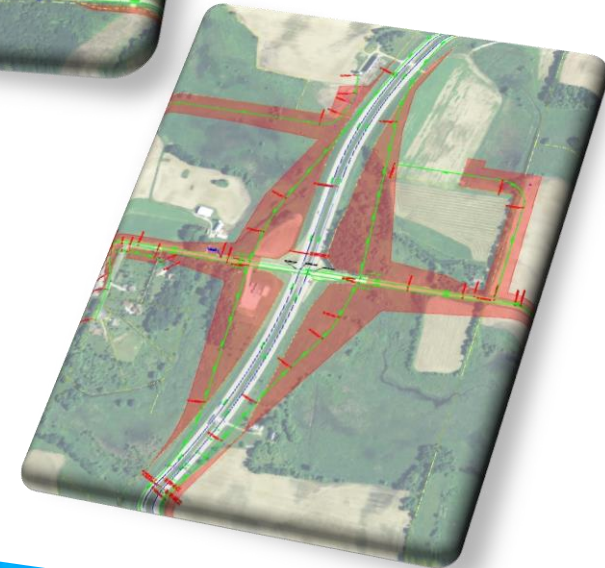
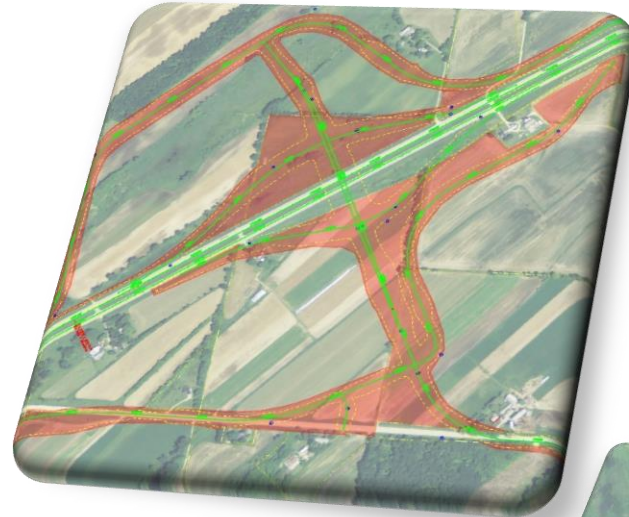
5 Alternatives Identified for Further Analysis

- 2 South Section Alternatives: Columbus to Beaver Dam (1C, 3C)
- 3 North Segment Alternatives: Beaver Dam to Waupun (5B, 5B Modified, 7A)
 - 5B Modified – new alternative since the last round of public meetings; includes a partial cloverleaf interchange with County C vs. diamond
- Central Section Alternative: Beaver Dam



RECOMMENDED ALTERNATIVE

- South Section:
Columbus to
Beaver Dam (3C)
- North Section:
Beaver Dam to
Waupun (5B)
- Central Section



RECOMMENDED ALTERNATIVE

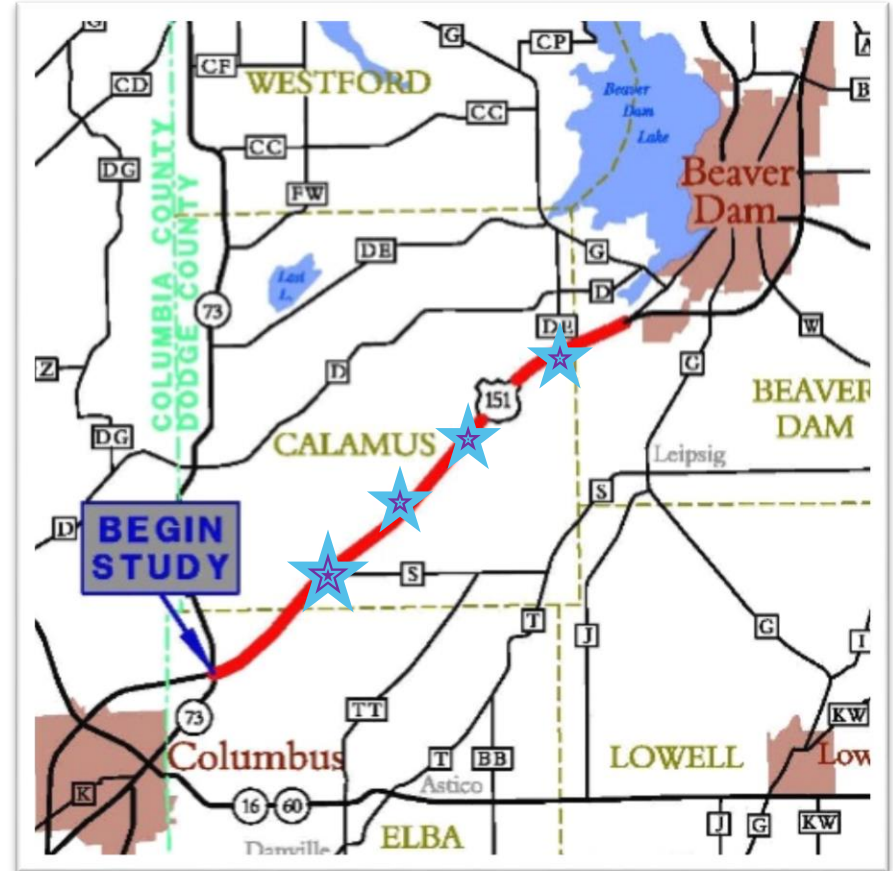
SOUTH SECTION

Interchange at County S

Overpasses at Salem Road, Forest Road and County DE

Reasons selected as the Recommended Alternative:

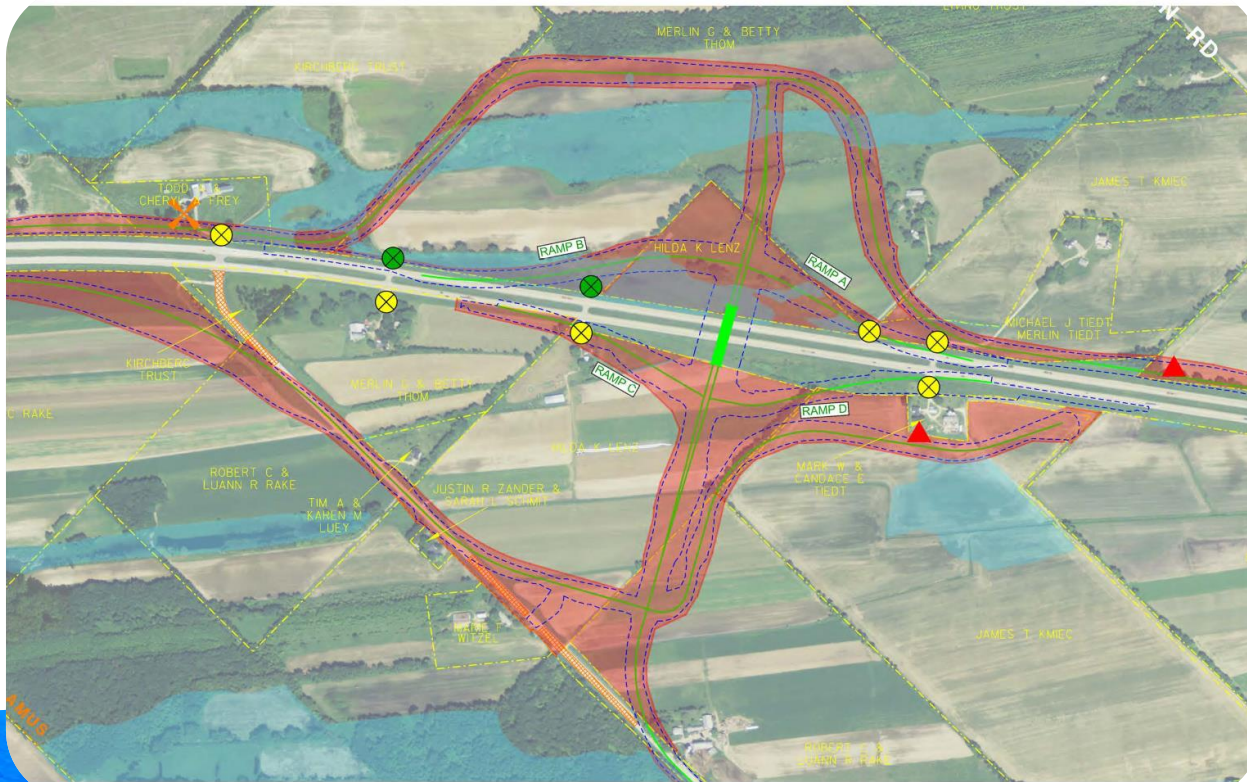
- Best Factor Matrix score
- Less total land converted to right-of-way
- Fewer building relocations
- Less relocated property access
- Fewer wetland impacts



RECOMMENDED ALTERNATIVE

SOUTH SECTION

Interchange at County S



RECOMMENDED ALTERNATIVE

SOUTH SECTION

Overpass County DE



RECOMMENDED ALTERNATIVE

CENTRAL SECTION

Consistent approach for all alternatives

Overpass of County E and Wisconsin & Southern RR

Frontage road connection from Kellom Road to Hemlock Road



RECOMMENDED ALTERNATIVE

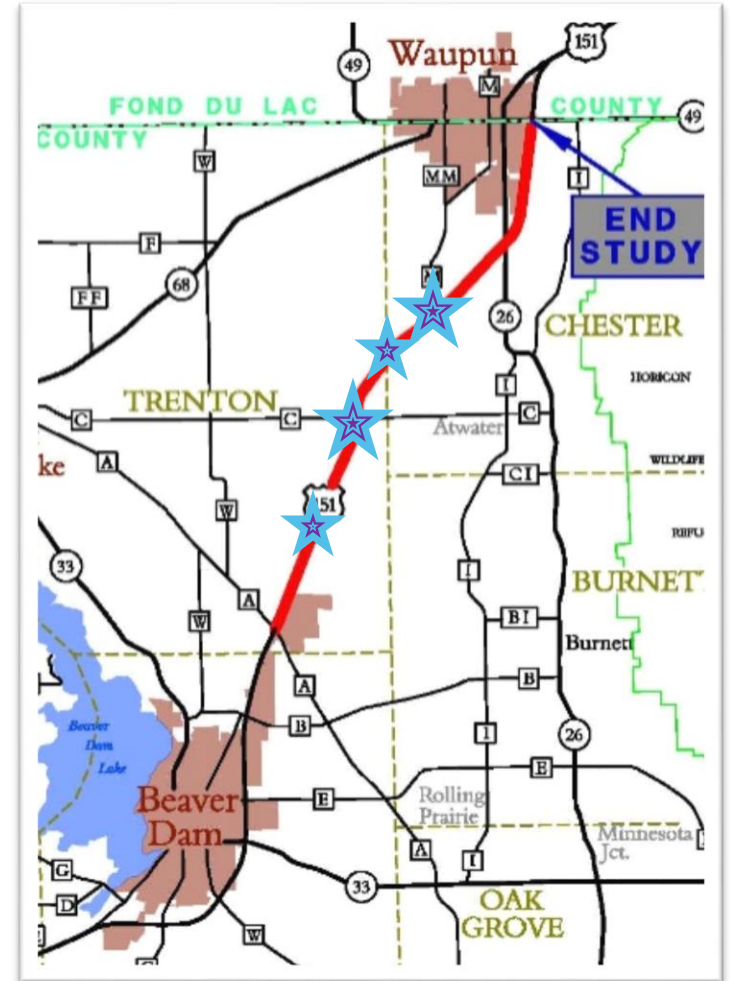
NORTH SECTION

Interchanges at County C and County M (half diamond)

Overpasses at Breezy Point Road and Oakwood Road

Reasons selected as the Recommended Alternative:

- Best Factor Matrix Score
- New interchange with County C vs. Redwood Road
- Conventional diamond interchange design at County C
- Less total land converted to ROW
- Fewer wetland impacts



RECOMMENDED ALTERNATIVE

NORTH SECTION

Interchange at County C



RECOMMENDED ALTERNATIVE

NORTH SECTION

Interchange County M (half diamond)



WHEN WILL CONSTRUCTION OCCUR?

- Wis. Stats. 84.295 and official mapping does not include construction
- No construction or project dollars are programmed at this time
- Possibly programmed, funded, and constructed over several decades or phases
- Funding is examined statewide
- Short-term options may also be considered such as intersection improvements and driveways and/or median alterations



COMMENTS/FEEDBACK

- Comment Forms
 - Available at the check-in desk
 - We encourage you to provide us your feedback
 - Forms can be filled out and submitted today or mailed by the specified date



What's Next?

Environmental Document
Prepare Official Map

2016 - 2017

2019 - 2021

Project contacts

Mark Westerveld
Project Manager
Wisconsin Department of Transportation
Southwest Region – Madison
2101 Wright Street
Madison, WI 53704-2583
(608) 246-5355
mark.westerveld@dot.wi.gov

Matthew Barr
Project Manager
Ayres Associates
5201 E. Terrace Drive, Suite 200
Madison, WI 53718
(608) 443-1261
barrm@ayresassociates.com

Project website

<http://wisconsindot.gov/Pages/projects/by-region/sw/151/default.aspx>



QUESTIONS?

