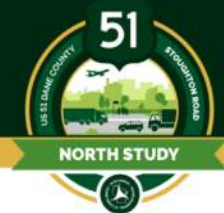


U.S. Department
of Transportation
**Federal Highway
Administration**

US 51 (Stoughton Road) NORTH STUDY

Public Involvement Meeting #2

September 27, 2023



Presentation Outline

- 1 Corridor Overview
- 2 Study Purpose and Need Updates
- 3 Alternative Concepts
- 4 Study Schedule





Corridor Overview

NORTH STUDY



NORTH LIMIT:
I-39/90/94 in the town of Burke

5.5 MILES

SOUTH LIMIT:
WIS 30 in the city of Madison





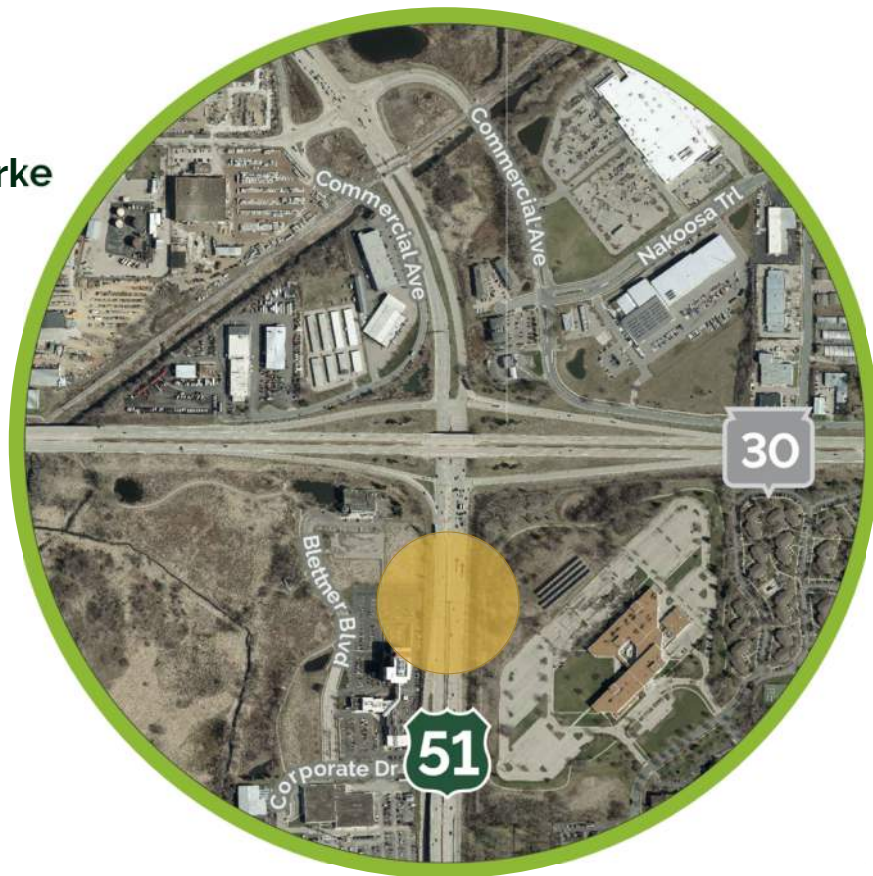
Corridor Overview – South Limit

NORTH STUDY



NORTH LIMIT:
I-39/90/94 in the town of Burke

SOUTH LIMIT:
WIS 30 in the city of Madison





Corridor Overview – North Limit

NORTH STUDY



NORTH LIMIT:
I-39/90/94 in the town of Burke

SOUTH LIMIT:
WIS 30 in the city of Madison





Adjacent Studies and Projects

US 51 (Stoughton Road) South Study

Voges Road to WIS 30 – Fall 2025 completion

I-39/90/94 Corridor Study

Madison to Wisconsin Dells – Fall 2024 completion

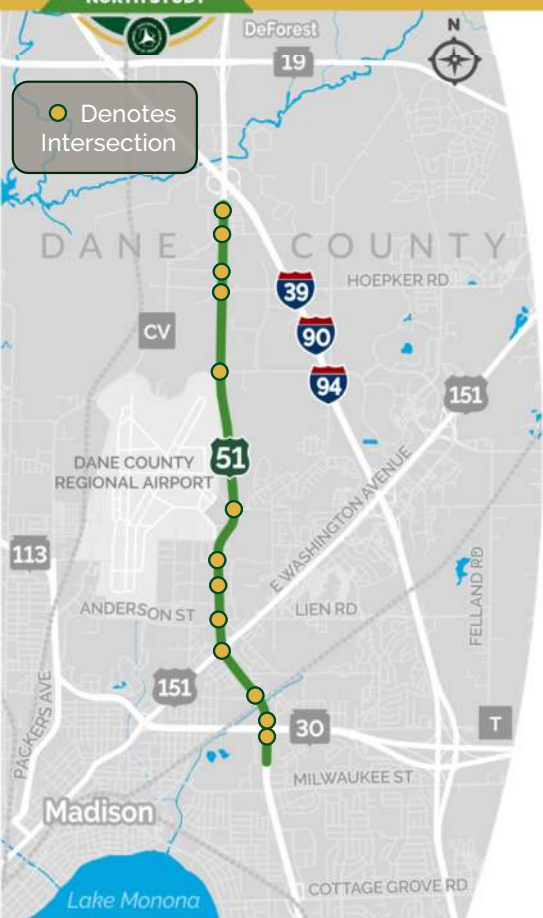
US 51 Pavement Replacement Project

US 151 to Pierstorff Street (NB lanes) – completed September 2023



















Corridor Overview



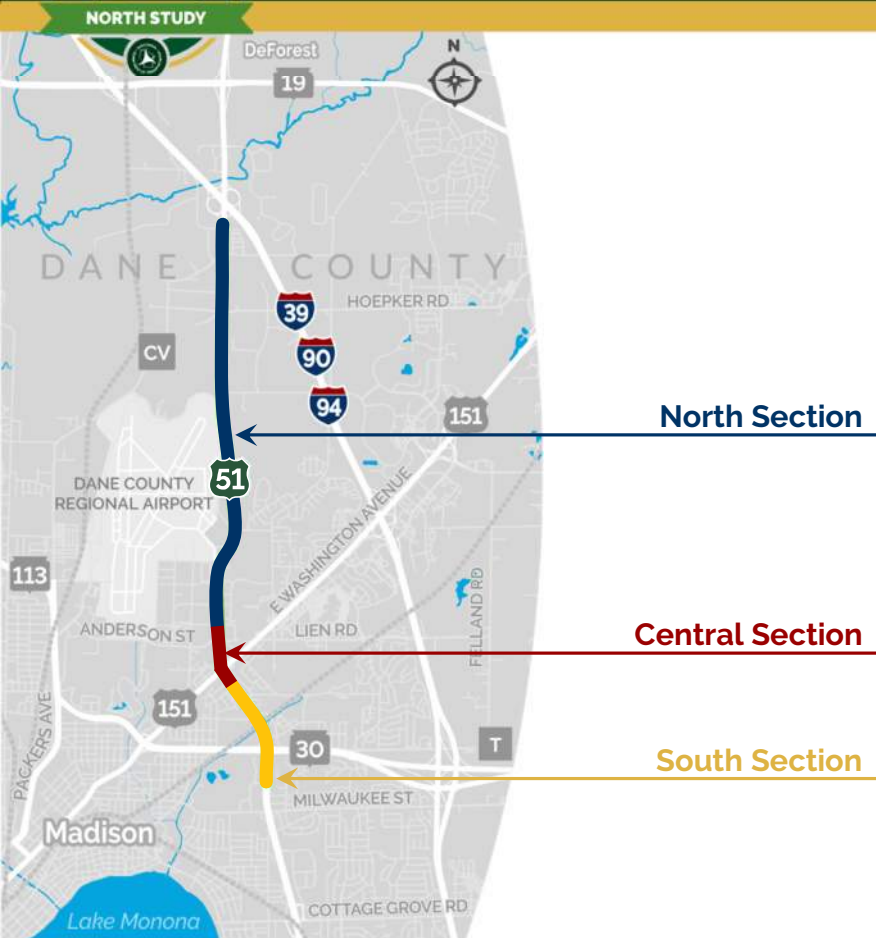
14 INTERSECTIONS:

-  Daentl Road
-  County CV/Anderson Road
-  Acker Road
-  Hoepker Road
-  Hanson Road
-  Amelia Earhart Drive
-  Rieder Road
-  Pierstorff Street
-  Kinsman Boulevard
-  Anderson Street
-  US 151/East Washington Avenue
-  Commercial Avenue/Lexington Avenue
-  WIS 30 – North Ramps
-  WIS 30 – South Ramps





Corridor Overview



North Section

← 4 Lanes →

SPEED LIMIT 45 SPEED LIMIT 55

Central Section

← 5 Lanes →

SPEED LIMIT 35 SPEED LIMIT 45

South Section

← 6 Lanes →

SPEED LIMIT 45





Study Purpose and Need

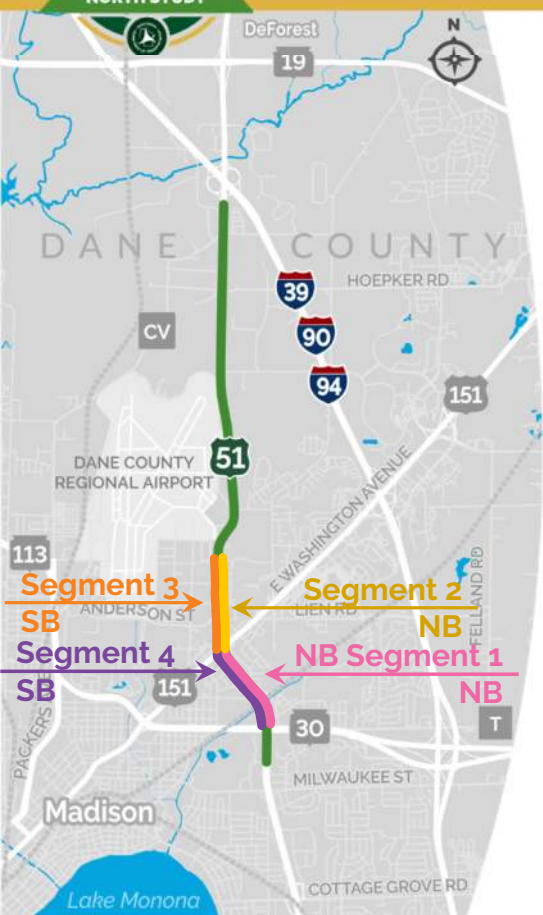
Accommodate existing and future travel demand with a focus on safety issues that affect travel on Stoughton Road

- Address **safety** issues including bicycles and pedestrians
- Address **travel demand** and **traffic operations**
- Address **roadway** and **geometric deficiencies**





Study Needs: Vehicle Safety




Safety

579 TOTAL CRASHES

2 FATAL CRASHES

12 SERIOUS INJURY CRASHES

FOUR SEGMENT CRASH RATES EXCEED STATEWIDE AVERAGES



CRASH DATA FROM 2017-2021

On average, 2.2 crashes per week

Over 90% of corridor crashes are **intersection** related.

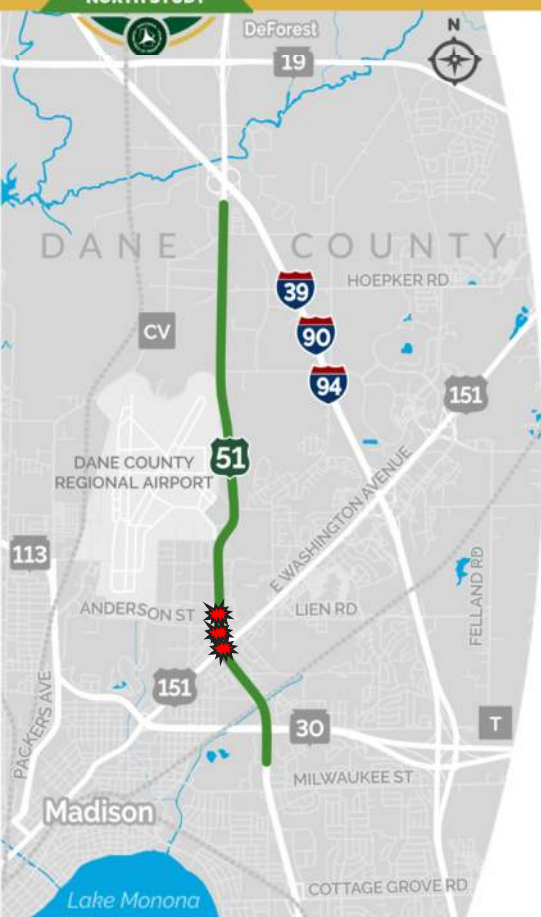
US 51 & East Washington Ave. ranks as 3rd highest crash intersection in the city

4 segments exceed statewide crash average





Study Needs: Safety – Bicycles and Pedestrians



Identified 2 unmarked mid-block pedestrian crossings

Lack of bicycle and pedestrian accommodations along US 51

Majority of US 51 crossings are considered high stress for bicycles and pedestrians

3 bicycle/pedestrian crashes occurred from 2017 - 2021

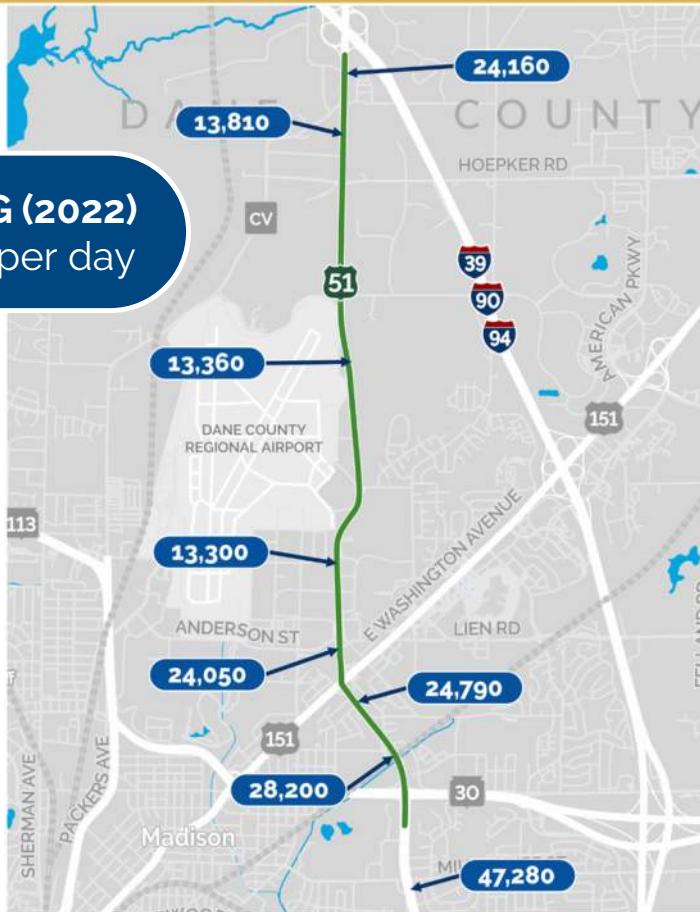
Bike/Ped expert panel feedback identified corridor and system needs



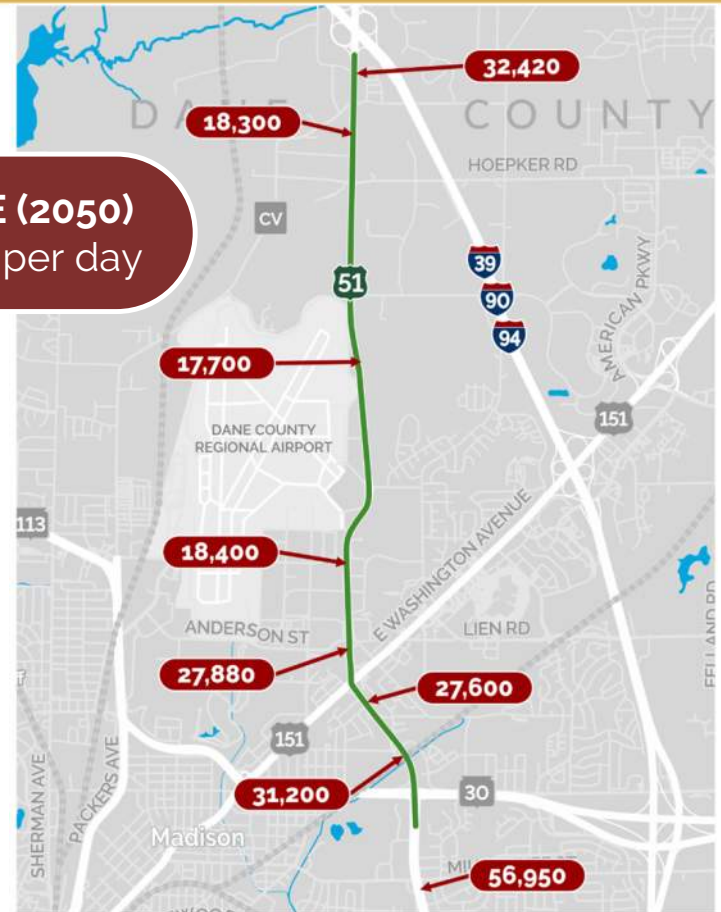


Study Needs: Traffic Volumes

EXISTING (2022)
vehicles per day

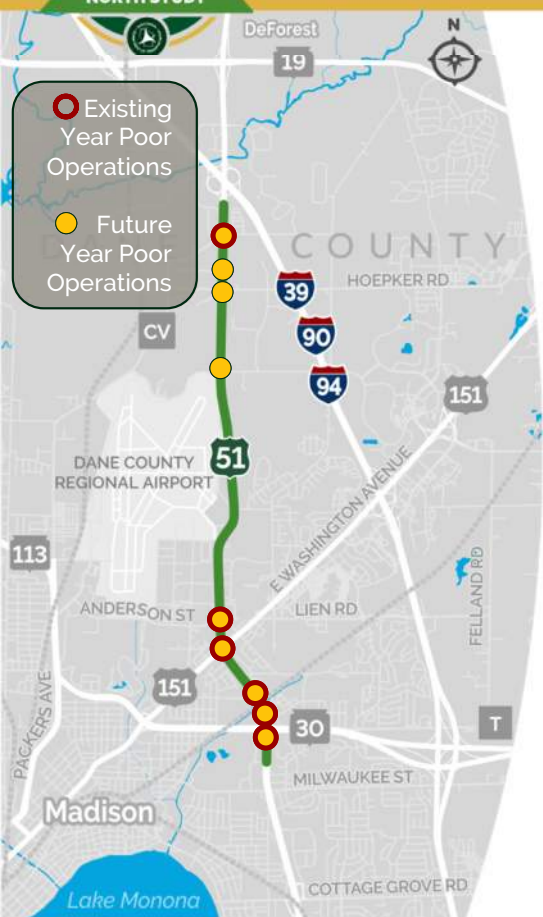


FUTURE (2050)
vehicles per day





Study Needs: Traffic Operations and Demand



Travel Demand and Traffic Operations

Poor Operations*

6

INTERSECTIONS
EXISTING
YEAR 2022

9

INTERSECTIONS
FUTURE
YEAR 2050

*WORST PEAK HOUR
MOVEMENT

Many corridor intersections have poor operations today and they are expected to get worse in the future

The southern section of the corridor currently has the most intersections with poor operations

Long delays and back-ups are expected to occur at several intersections in the future





Study Needs: Roadway Geometric Deficiencies



-  **LARGE SKEW ANGLE AT US 51 AND US 151**
-  **SUBSTANDARD CURVES BETWEEN PIERSTORFF ST AND RIEDER RD**
- 7** AREAS WITH HORIZONTAL ALIGNMENT DEFICIENCIES
- 18** AREAS WITH VERTICAL ALIGNMENT DEFICIENCIES
- 7** AREAS WITH STOPPING SIGHT DISTANCE DEFICIENCIES
- 10** AREAS WITH CROSS SECTION DEFICIENCIES

Geometric deficiencies can lead to safety and operational issues

Substandard intersection angle at US 51 & East Washington Ave.


Substandard curves north of Pierstorff Street





Study Purpose and Need

Accommodate existing and future travel demand with a focus on safety issues that affect travel on Stoughton Road

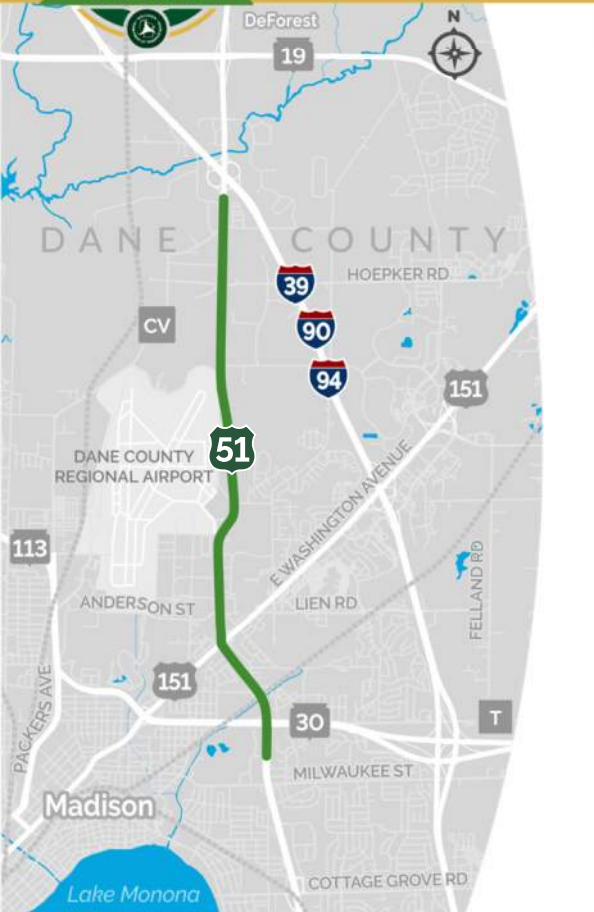
<p>Safety</p> <p>579 TOTAL CRASHES</p> <p>2 FATAL CRASHES</p> <p>12 SERIOUS INJURY CRASHES</p> <p>FOUR SEGMENT CRASH RATES EXCEED STATEWIDE AVERAGES</p> <p> CRASH DATA FROM 2017-2021</p>	<p>Travel Demand and Traffic Operations</p> <p>POOR OPERATIONS:</p> <p>6 INTERSECTIONS EXISTING YEAR 2022</p> <p>9 INTERSECTIONS FUTURE YEAR 2050</p> <p>*WORST PEAK HOUR MOVEMENT</p>	<p>Roadway Geometric Deficiencies</p> <p>X LARGE SKEW ANGLE AT US 51 AND US 151</p> <p>7 AREAS WITH HORIZONTAL ALIGNMENT DEFICIENCIES</p> <p>18 AREAS WITH VERTICAL ALIGNMENT DEFICIENCIES</p>	
<p>2 UNMARKED MID-BLOCK PEDESTRIAN CROSSING LOCATIONS</p> <p>US 51 IDENTIFIED AS A HIGH STRESS CORRIDOR FOR BICYCLISTS</p>	<p>Pavement</p> <p>TWO LOCATIONS OF PAVEMENT CONDITIONS AT OR NEARING THE THRESHOLD FOR REPLACEMENT</p>	<p>7 AREAS WITH STOPPING SIGHT DISTANCE DEFICIENCIES</p> <p>10 AREAS WITH CROSS SECTION DEFICIENCIES</p>	





Alternative Concept Development

NORTH STUDY



Concepts were developed to address study purpose and corridor needs

Investigated options to optimize safety and capacity while limiting impacts

Identified potential improvements to bicycle/pedestrian network





Alternative Concept Development: Screening



Safety



Operations



Engineering



Impacts

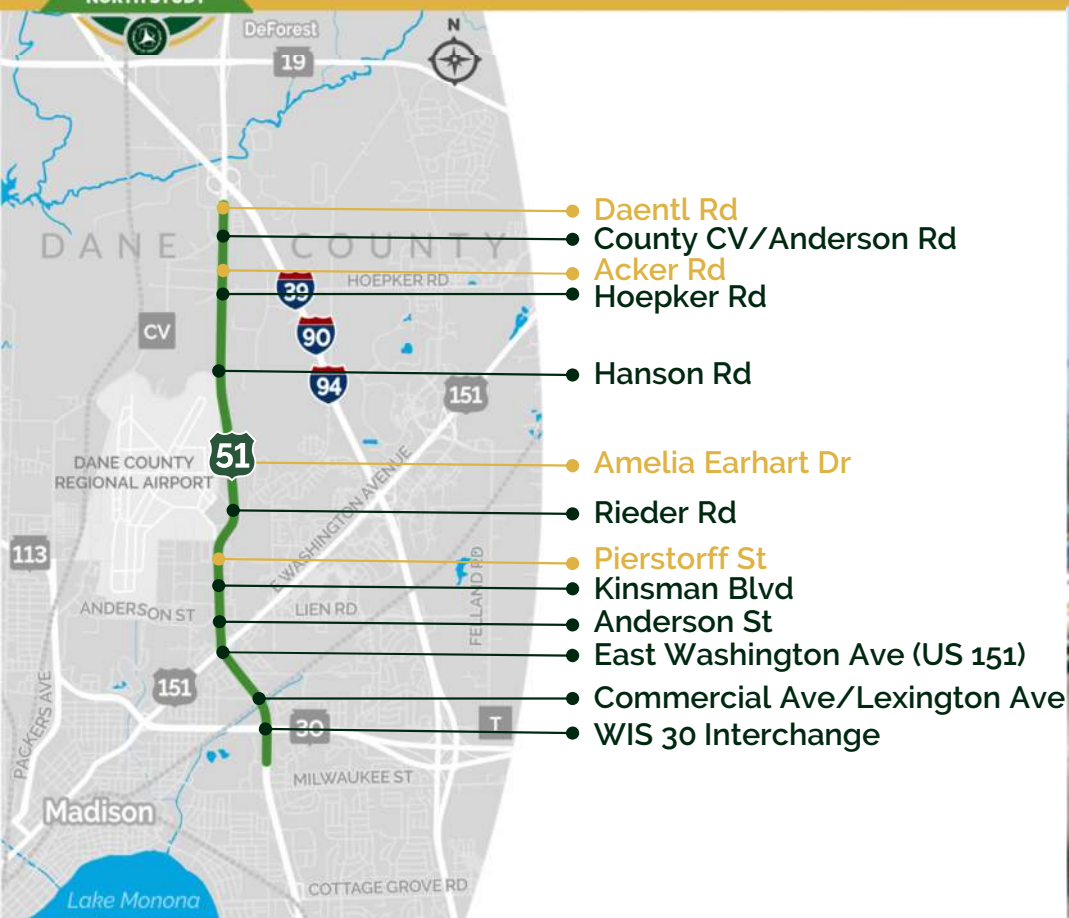


Community & Collaboration





Alternative Concept Development

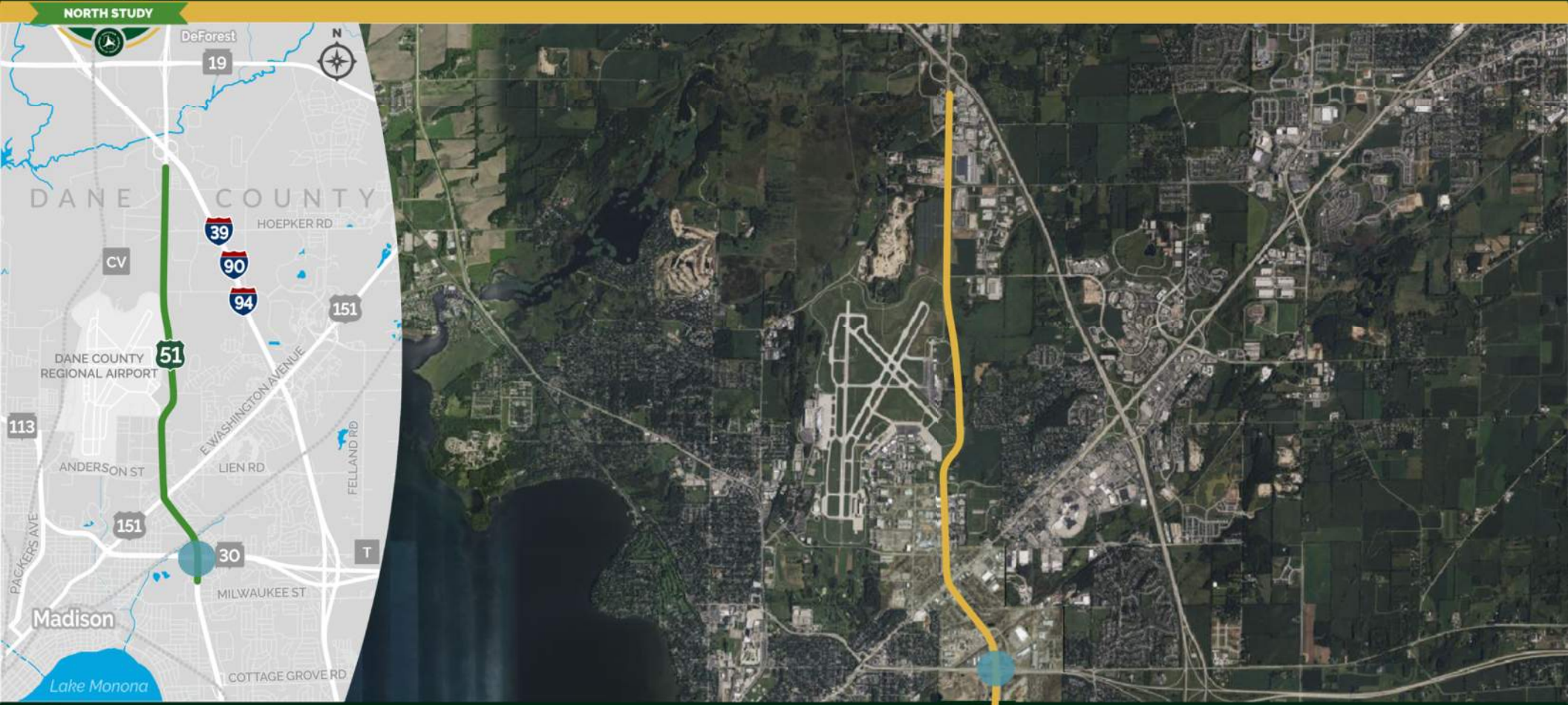


Alternative concepts focus on 9 intersection areas for ease of discussion





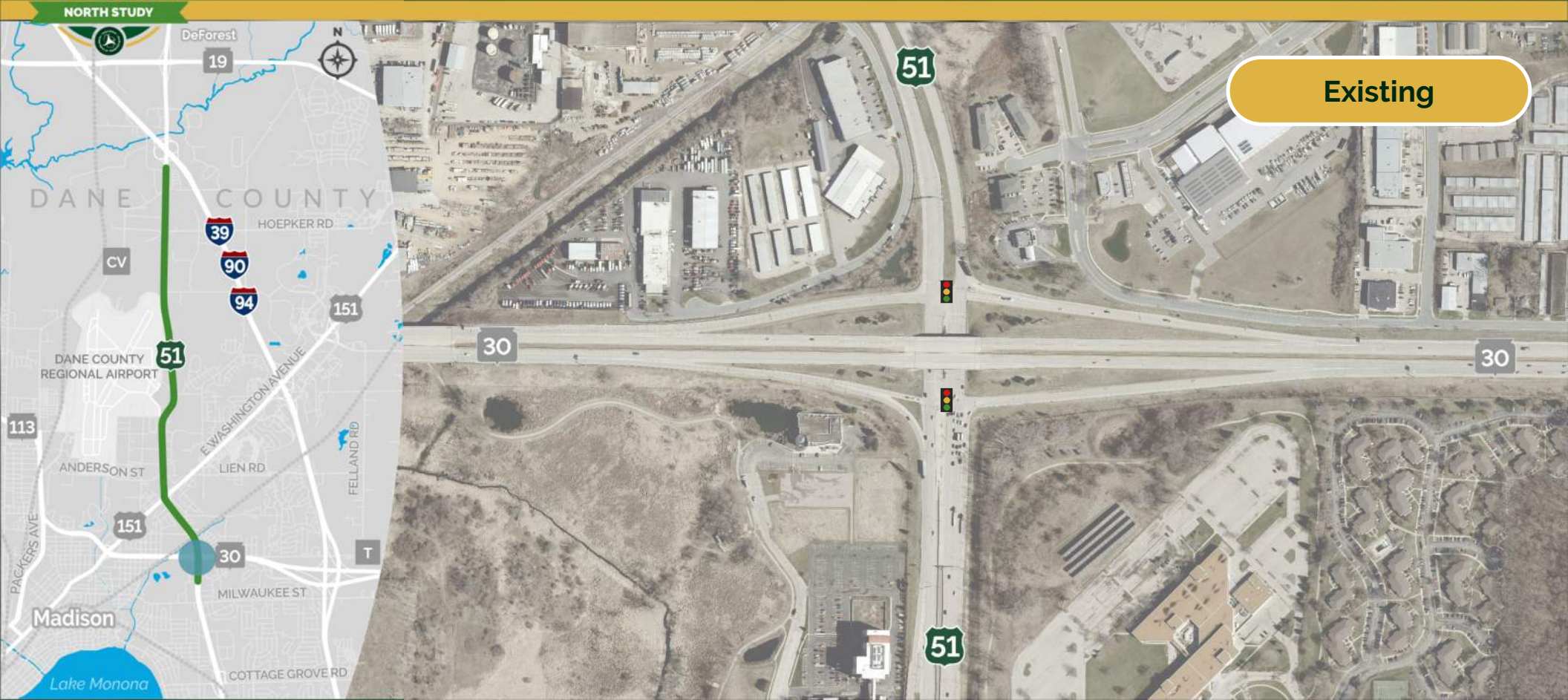
WIS 30 Alternative Concepts





WIS 30 Alternative Concepts

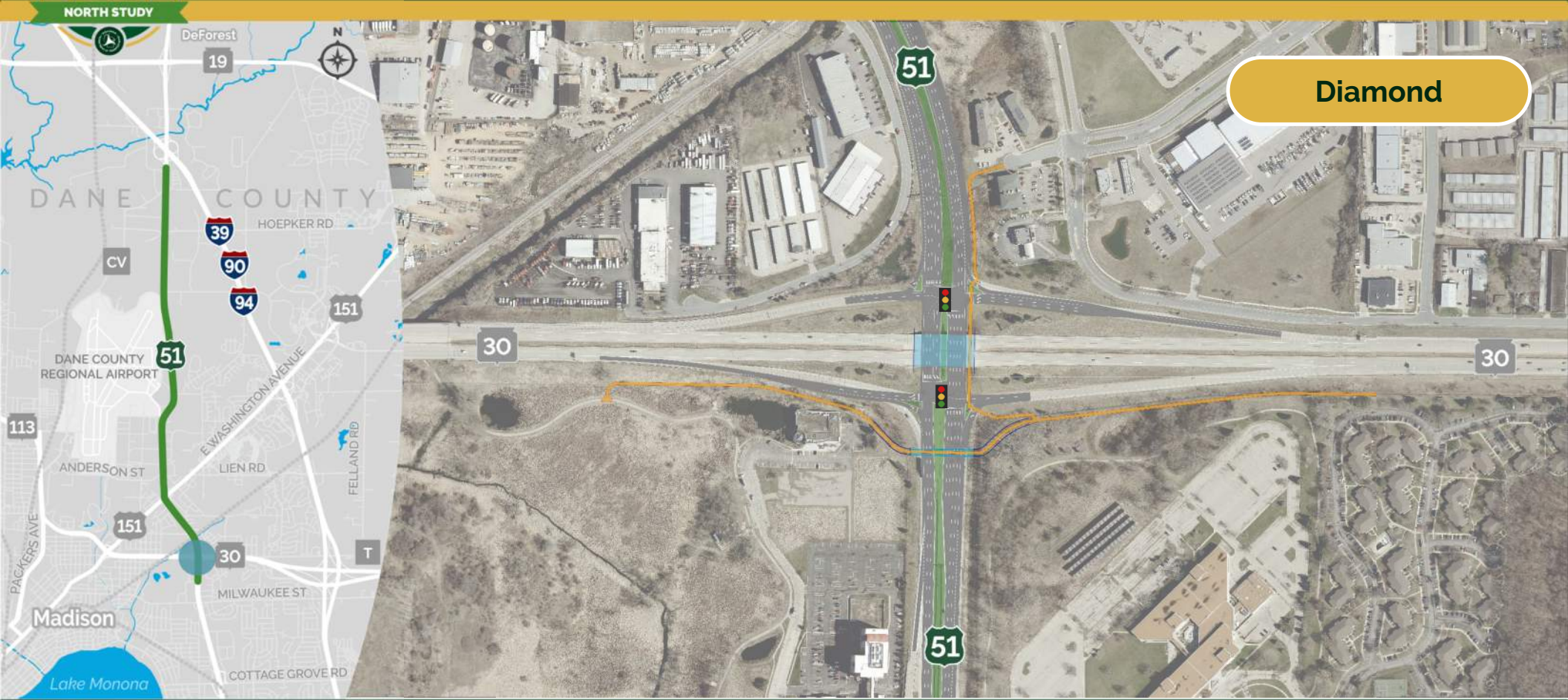
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WIS 30 Alternative Concepts

1





WIS 30 Alternative Concepts

1

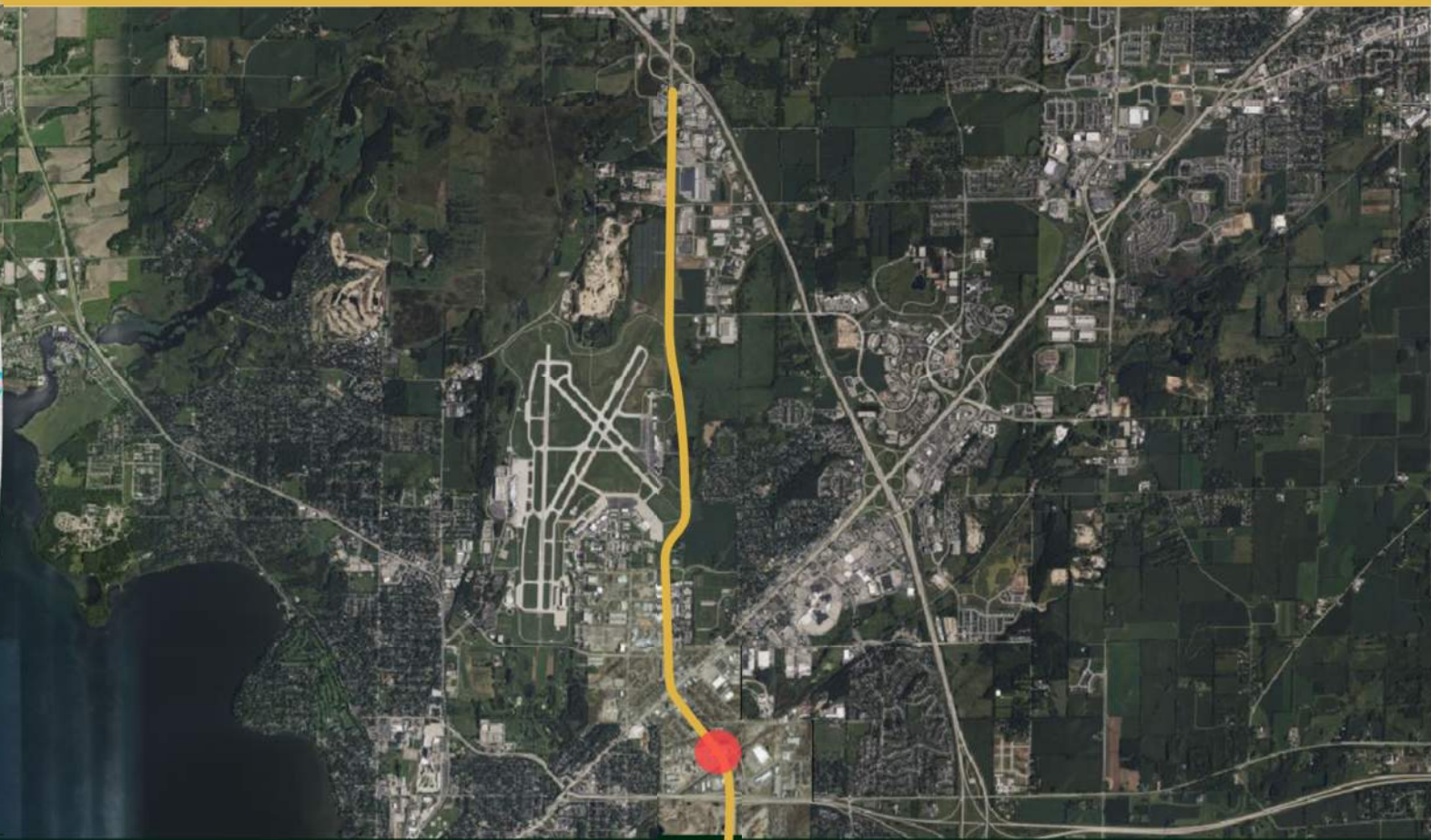
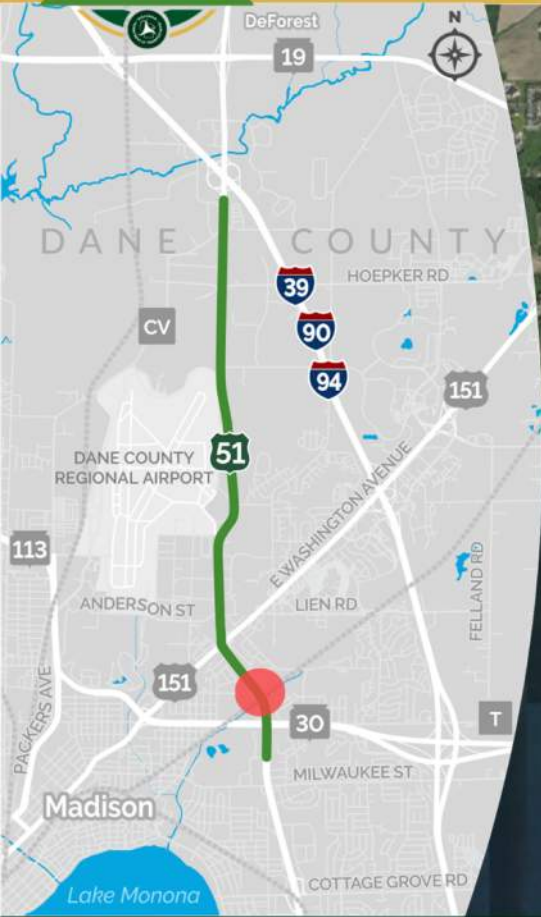
NORTH STUDY





Lex / Commercial Ave. Alternative Concepts

2

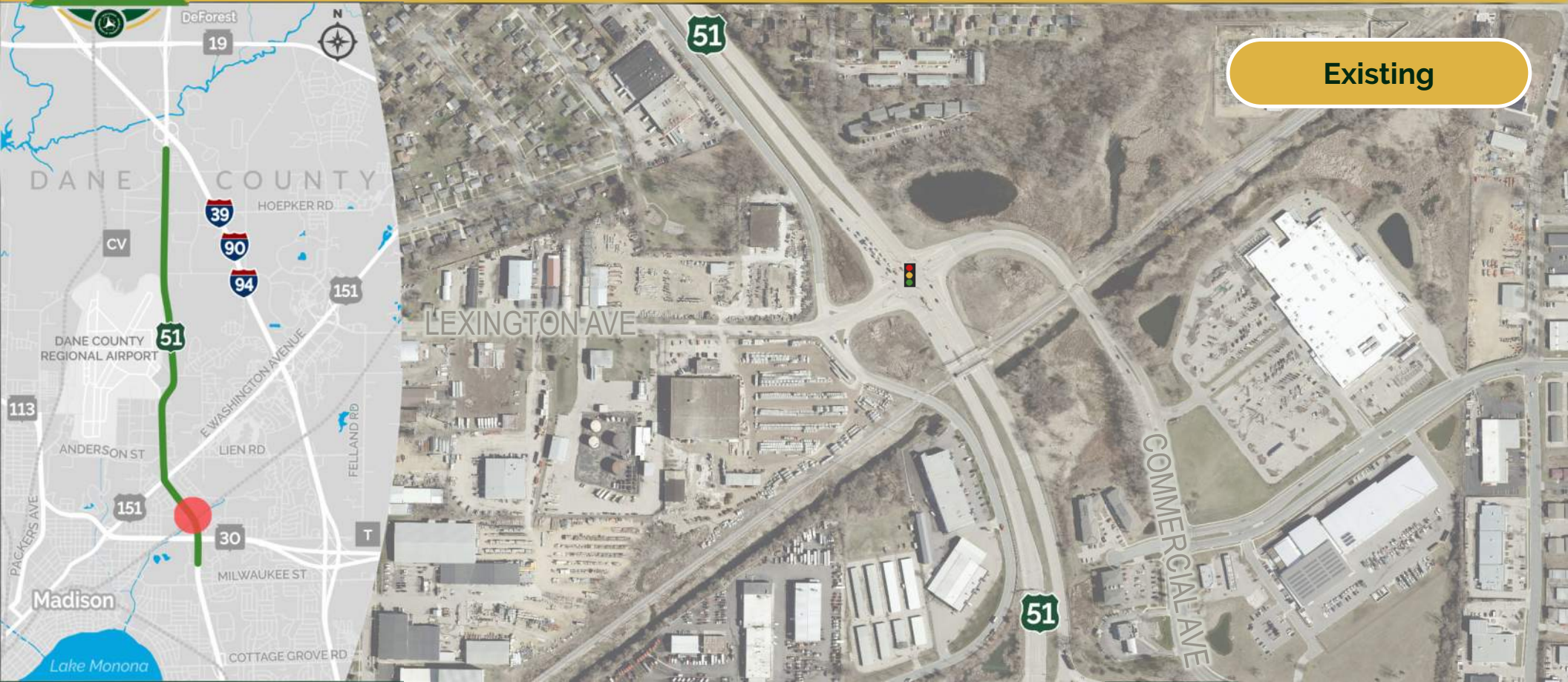




Lex / Commercial Ave. Alternative Concepts

2

NORTH STUDY



Existing

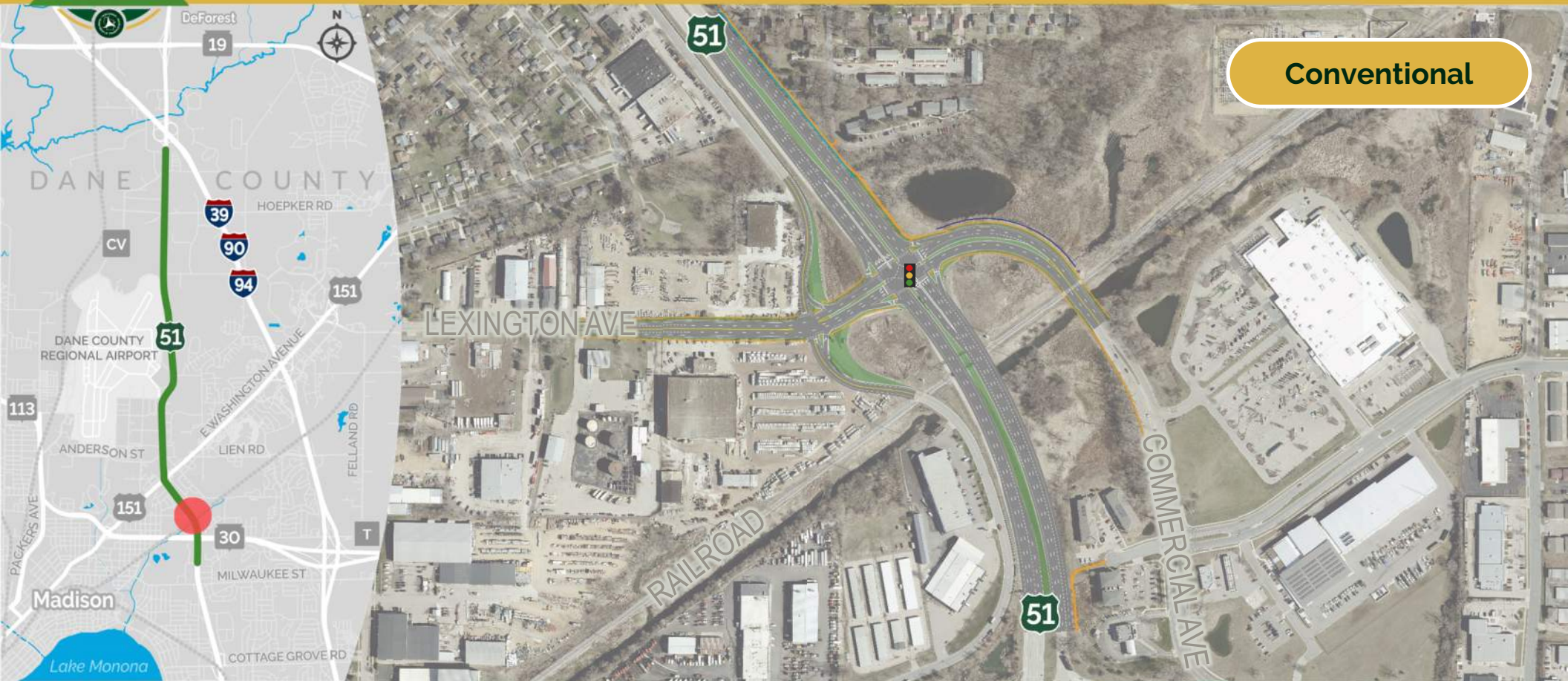




NORTH STUDY

Lex / Commercial Ave. Alternative Concepts

2



Conventional





Lex / Commercial Ave. Alternative Concepts

2





Lex / Commercial Ave. Alternative Concepts

2

NORTH STUDY



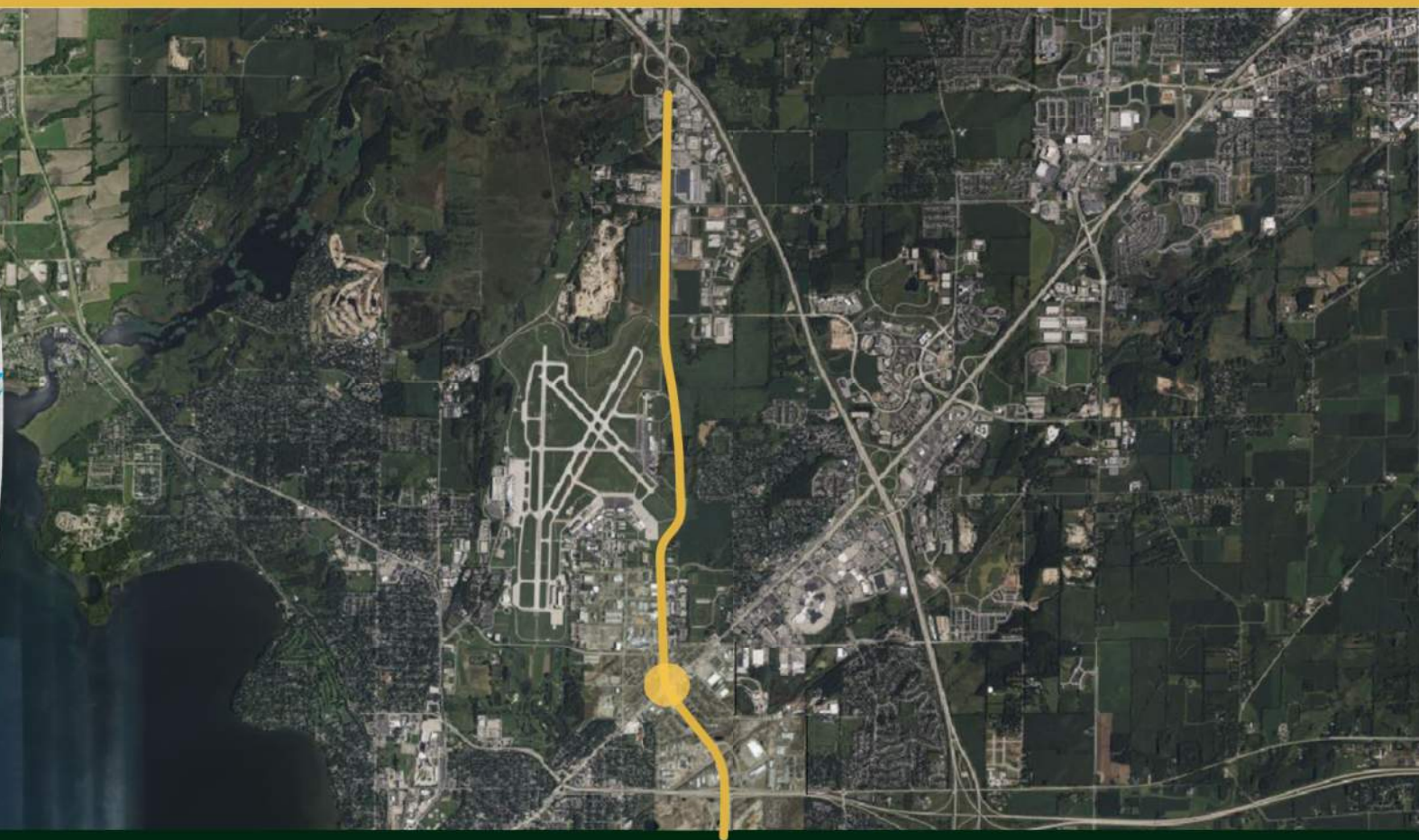
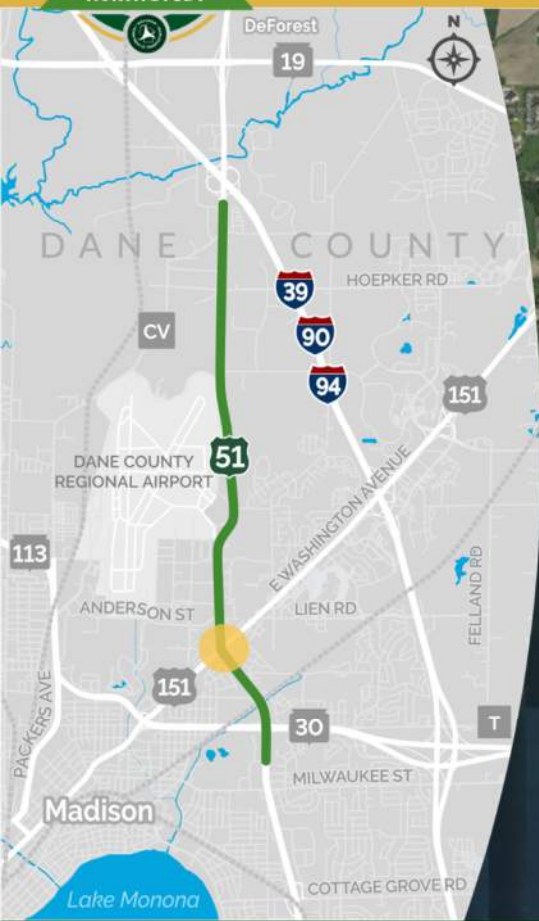
Raised 3-Leg



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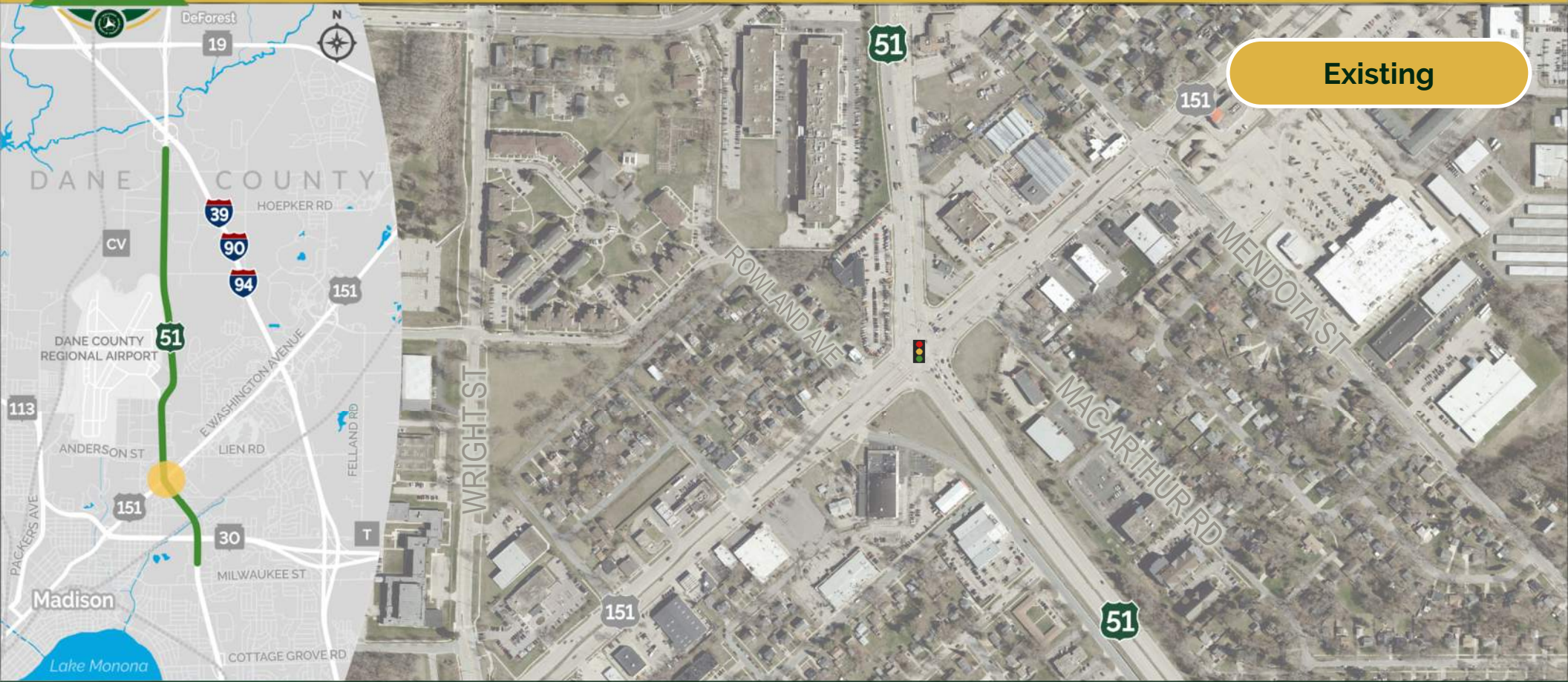
E. Washington Ave. Alternative Concepts





E. Washington Ave. Alternative Concepts

3

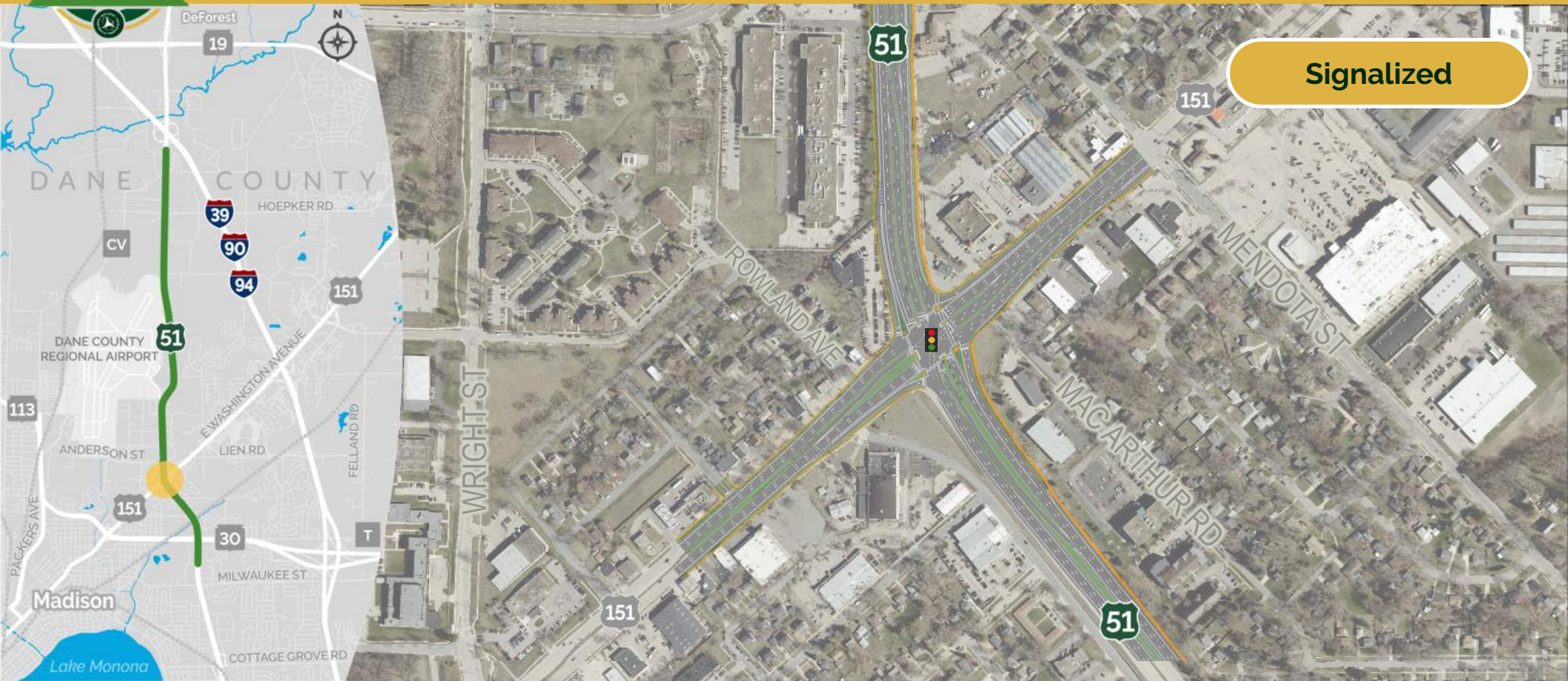




E. Washington Ave. Alternative Concepts

3

NORTH STUDY



Signalized



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E. Washington Ave. Alternative Concepts

3



Quadrant





E. Washington Ave. Alternative Concepts

3

NORTH STUDY



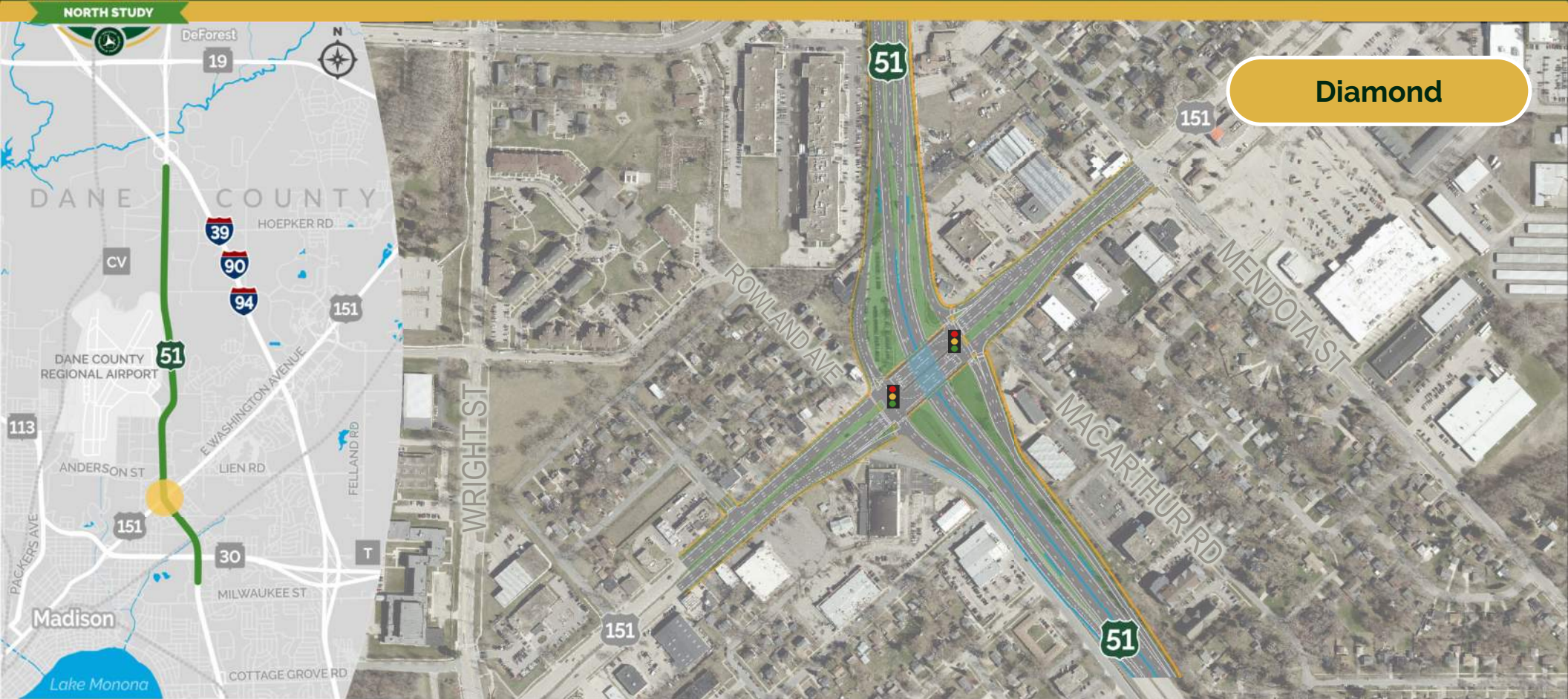
Jug Handle





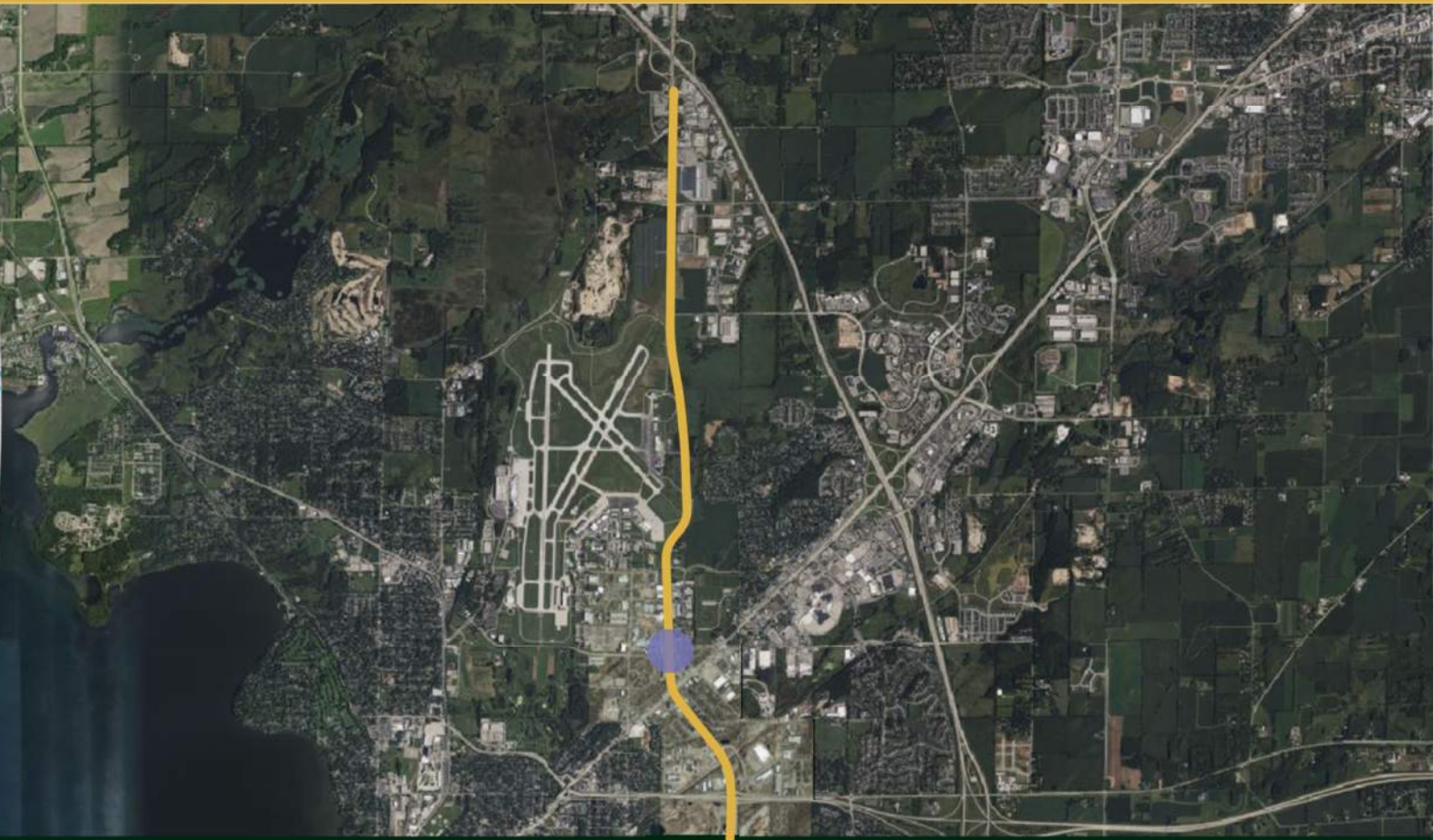
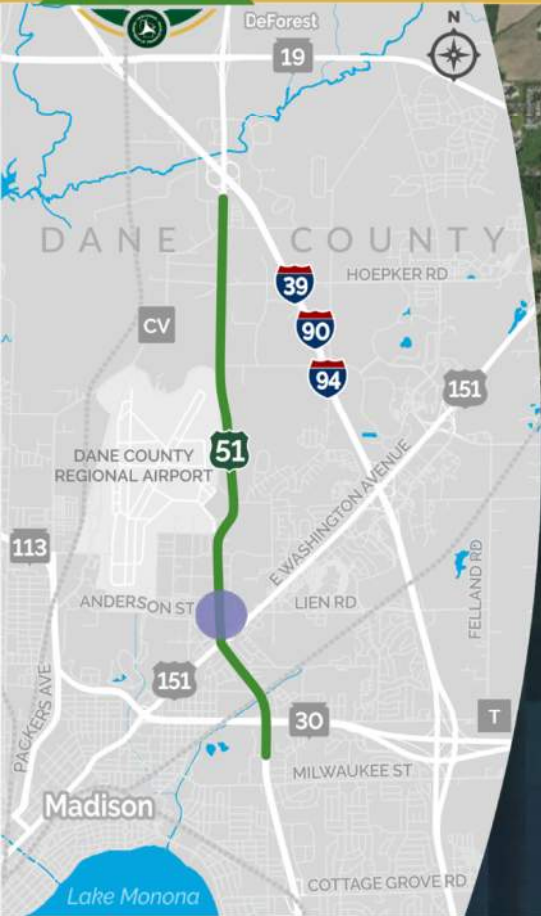
E. Washington Ave. Alternative Concepts

3





Anderson Street Alternative Concepts





Anderson Street Alternative Concepts



Existing



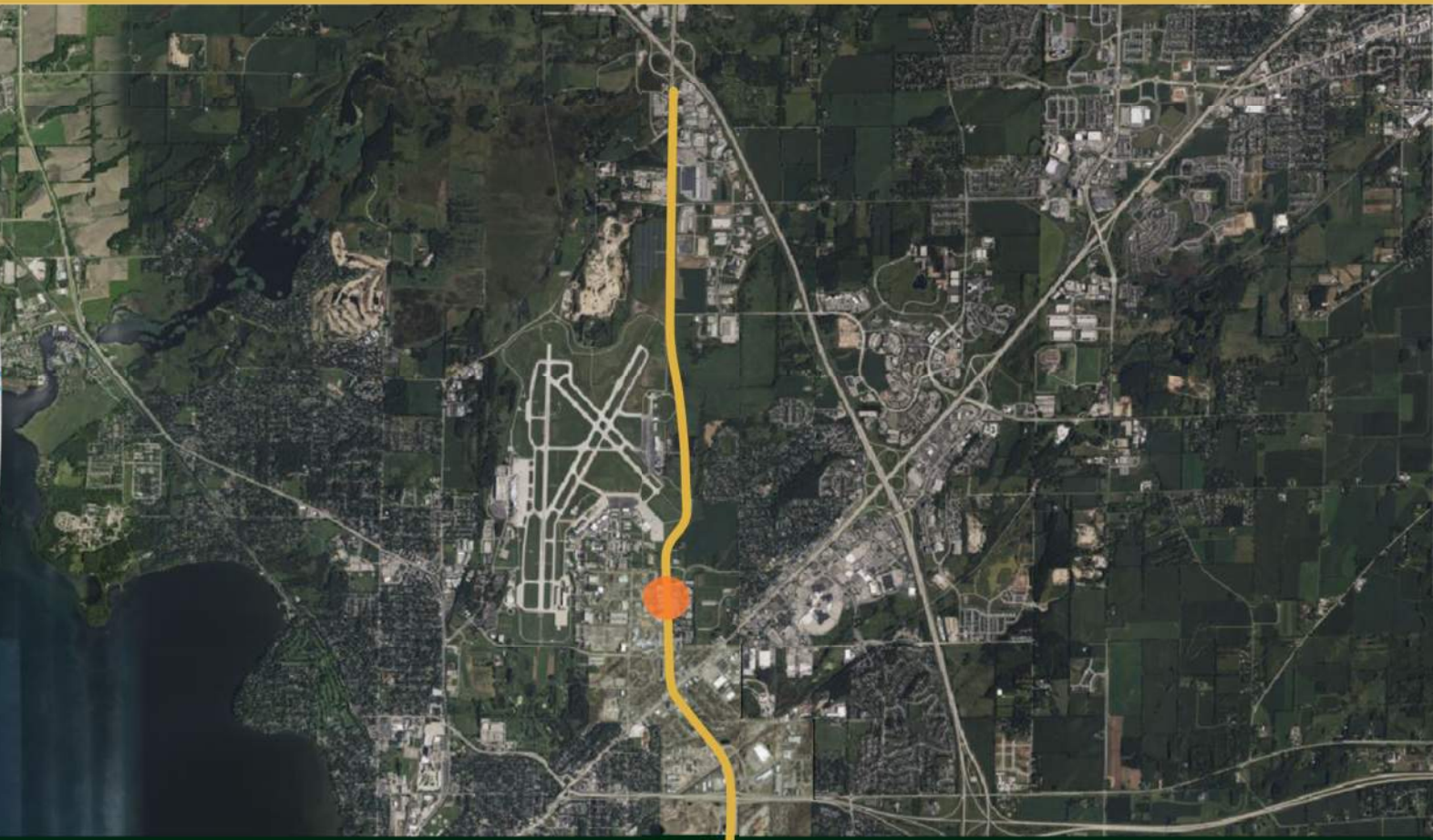
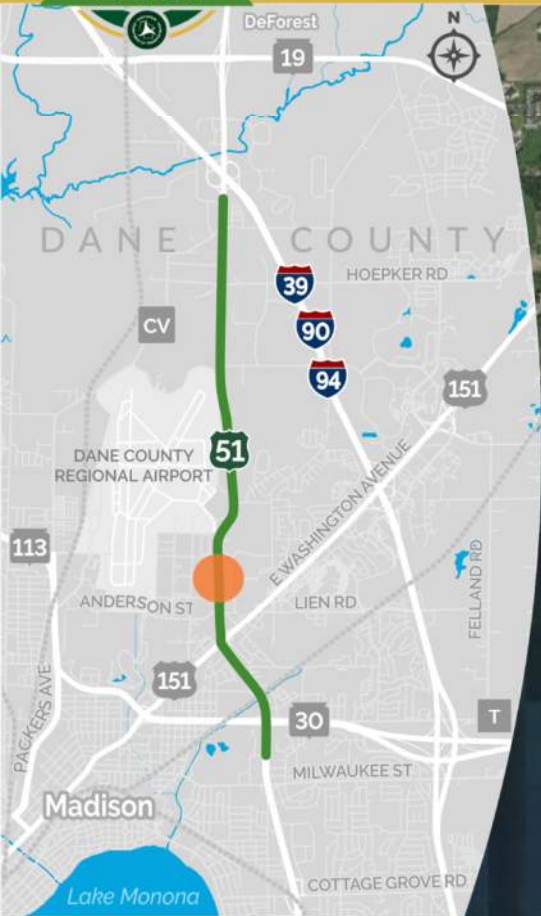


Anderson Street Alternative Concepts





Kinsman Boulevard Alternatives





Kinsman Boulevard Alternatives



Existing





51

NORTH STUDY

Kinsman Boulevard Alternatives

5



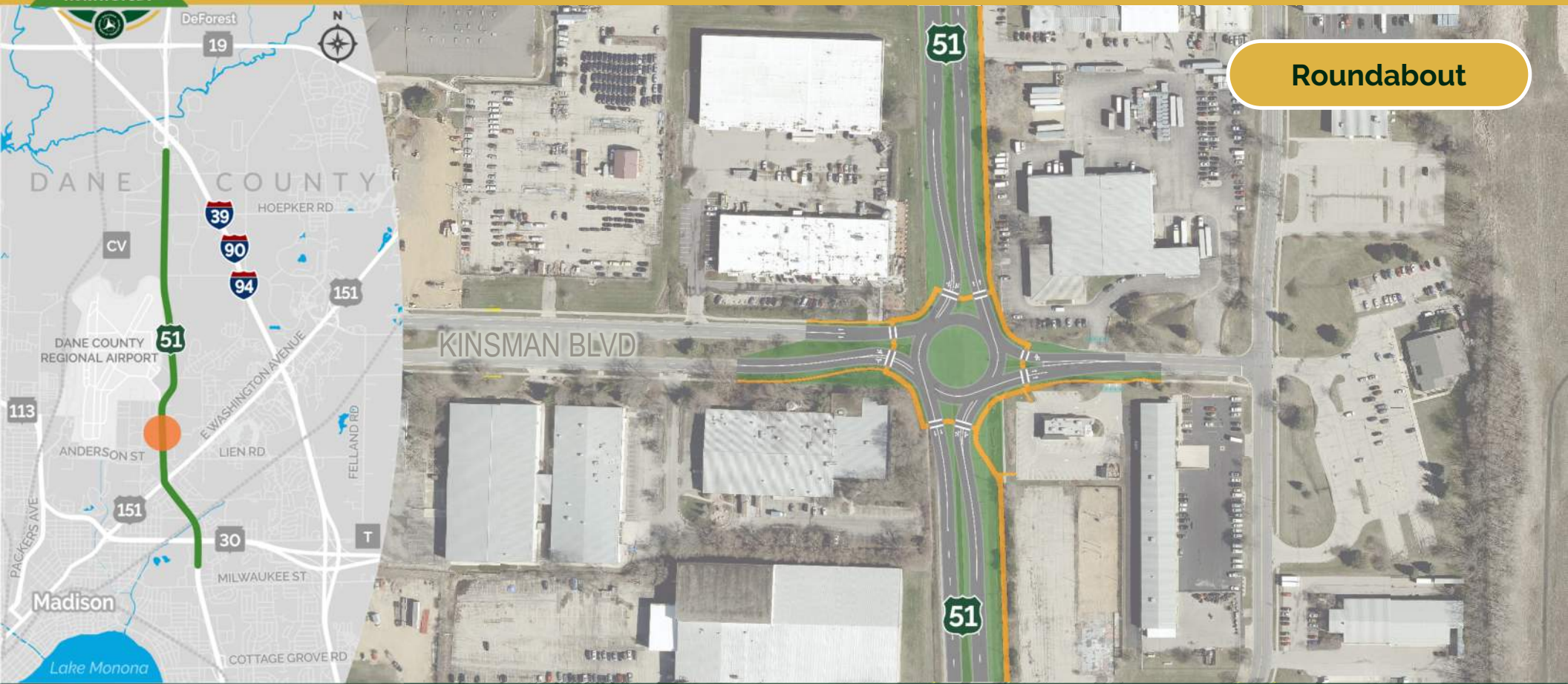
Signal





Kinsman Boulevard Alternatives

5

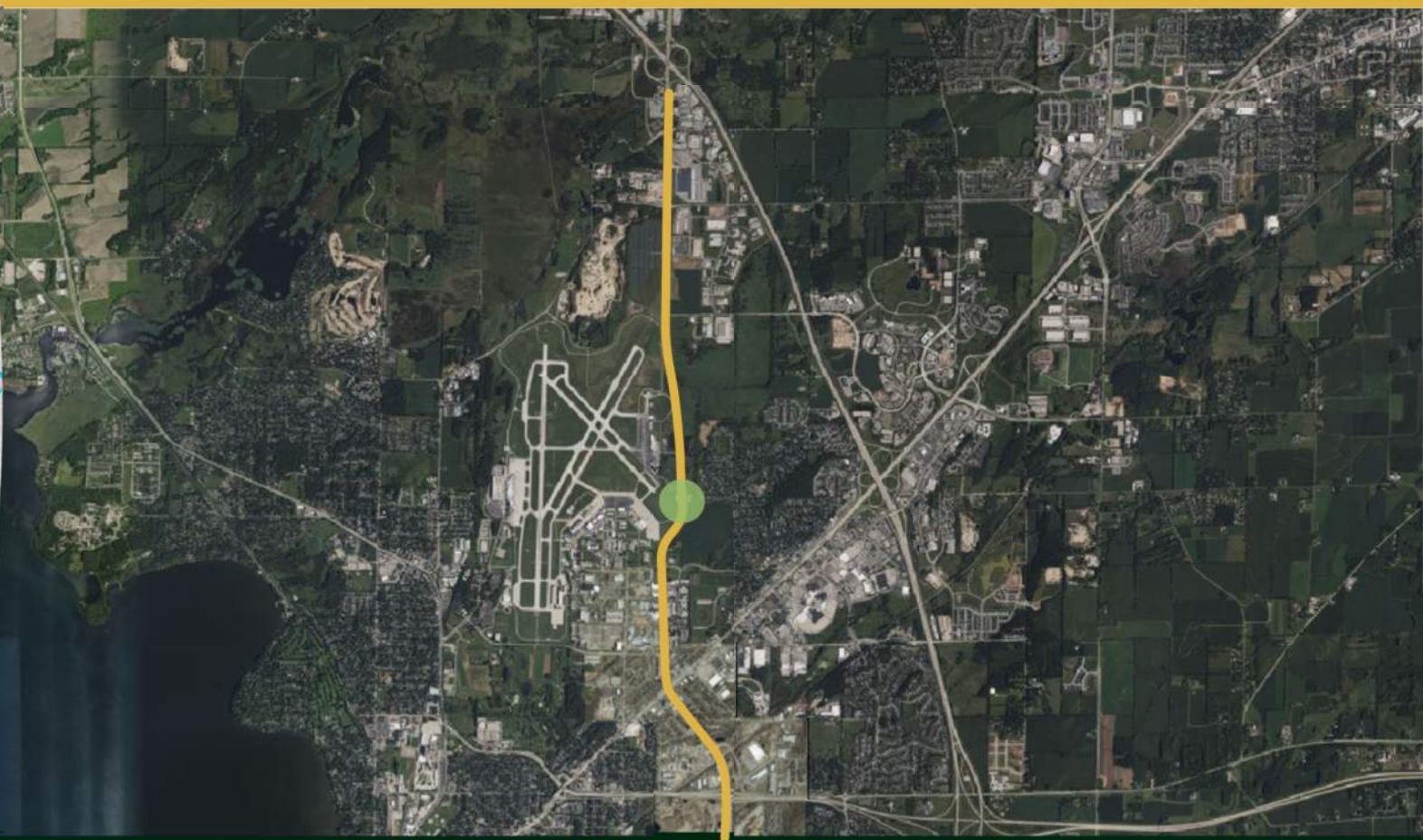


Roundabout





Rieder Road Alternative Concepts

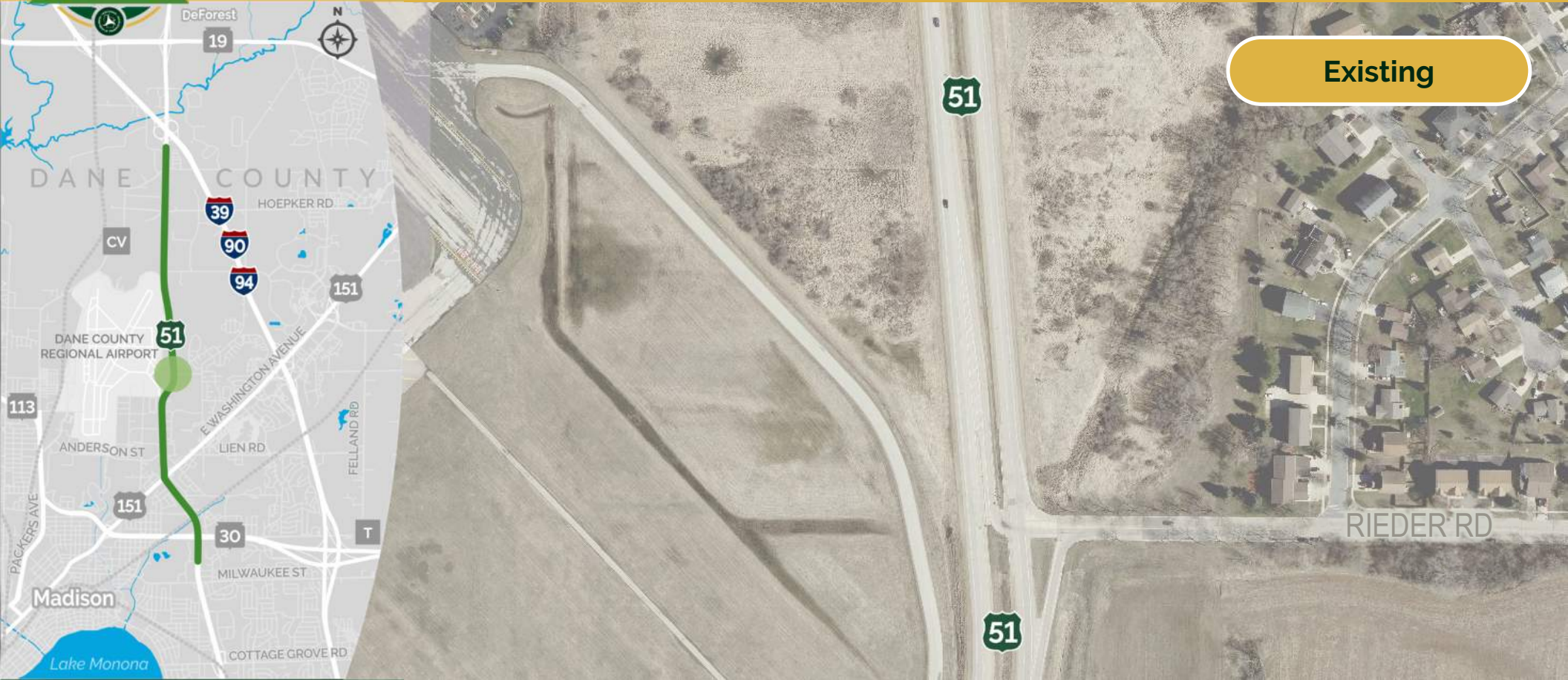




Rieder Road Alternative Concepts

7

NORTH STUDY

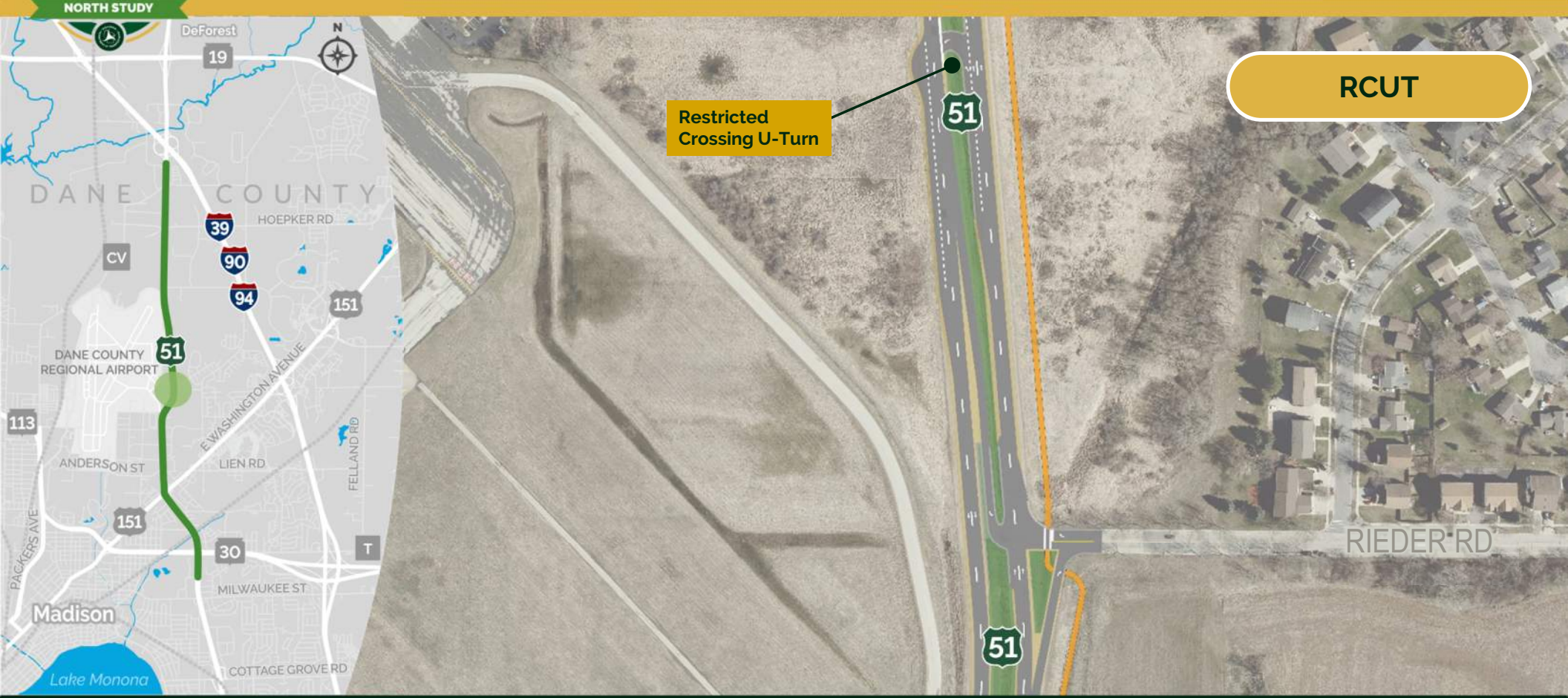


Existing



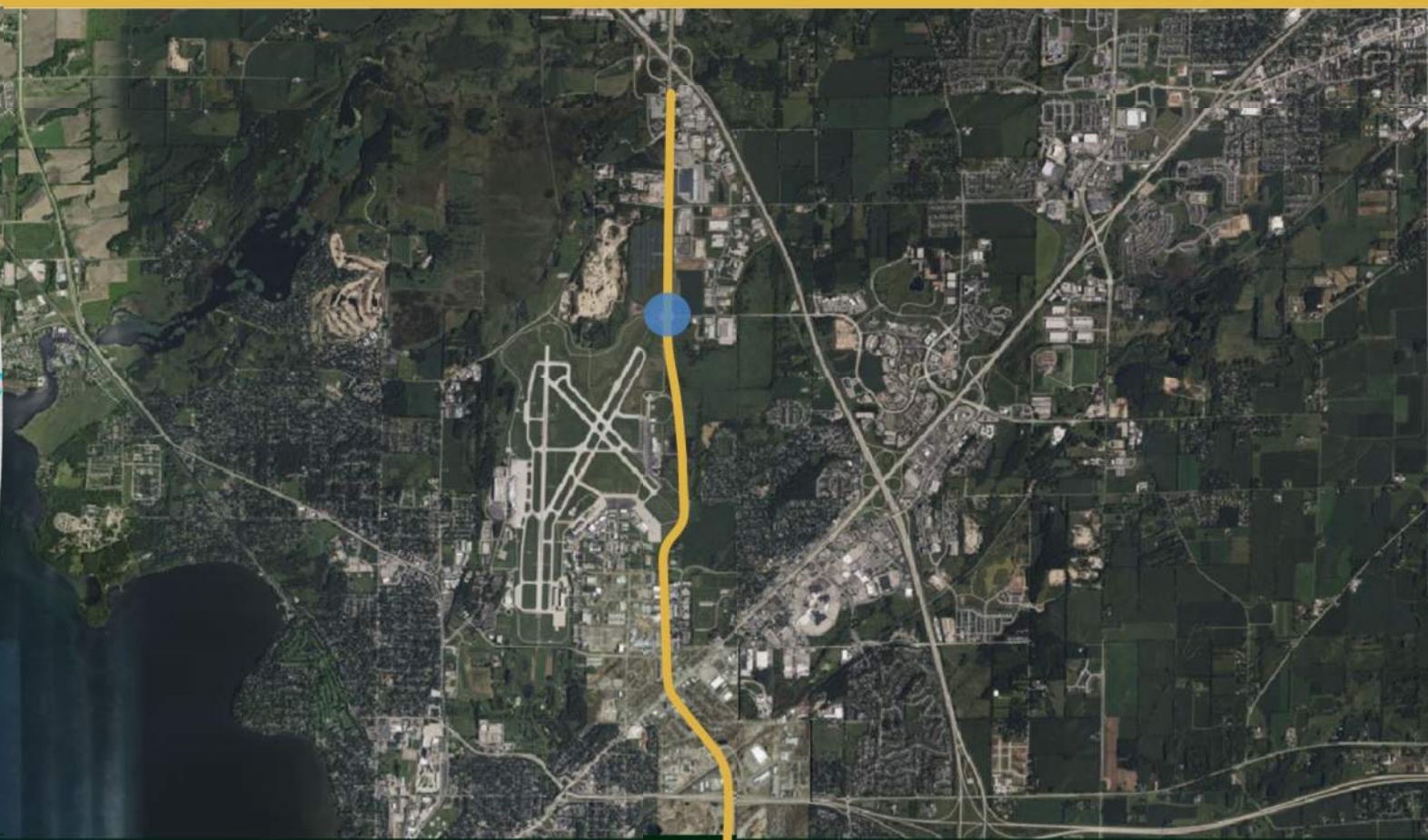


Rieder Road Alternative Concepts



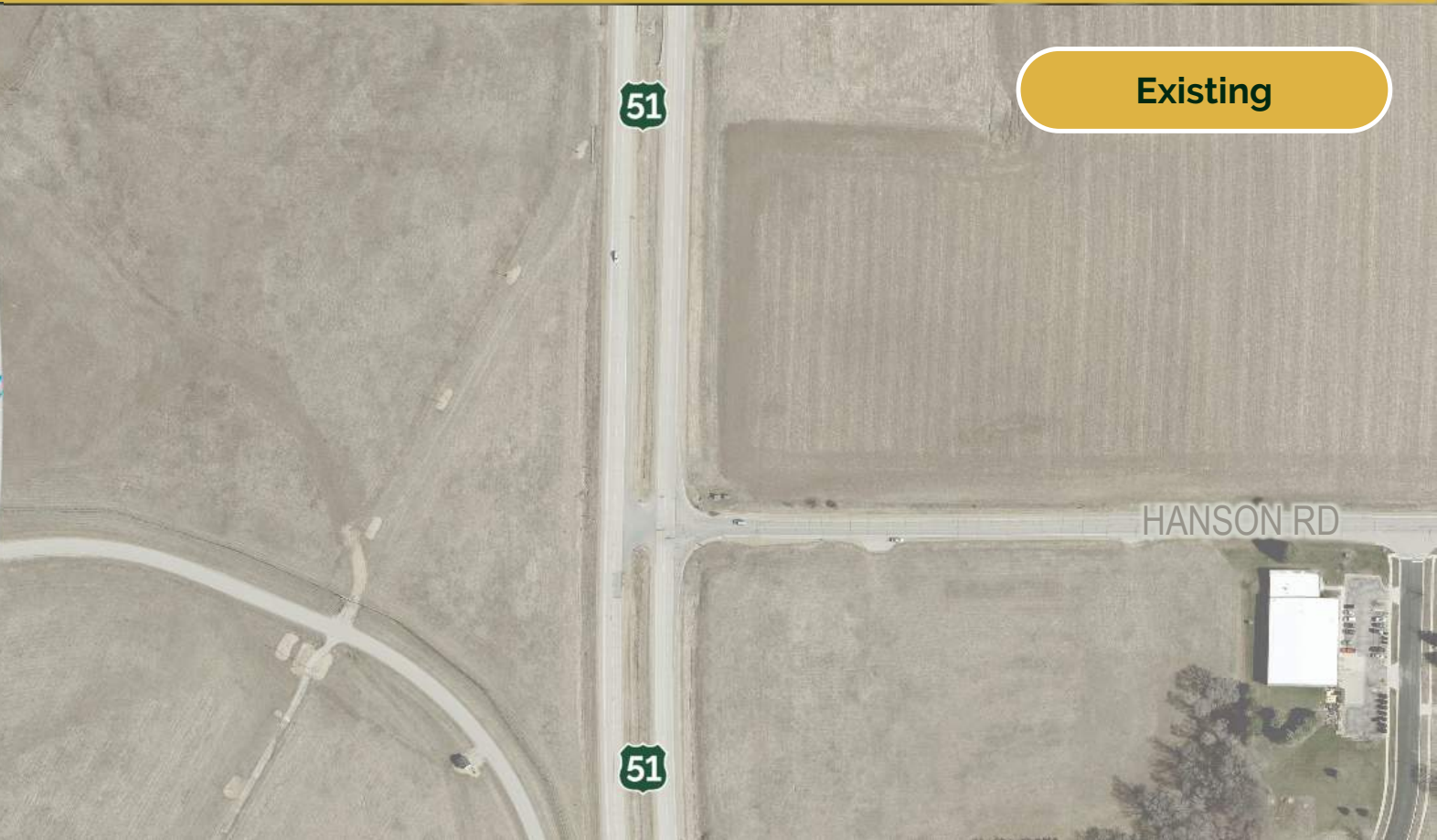
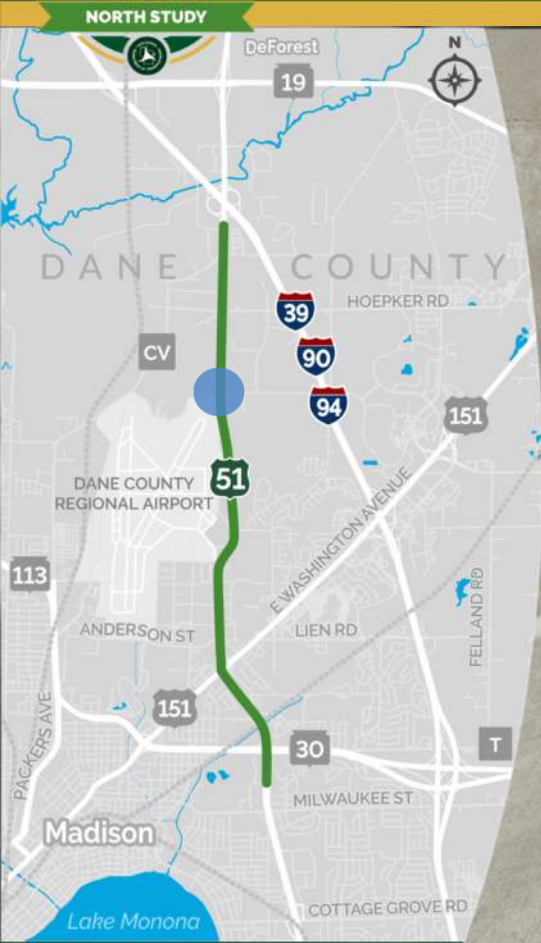


Hanson Road Alternative Concepts





Hanson Road Alternative Concepts



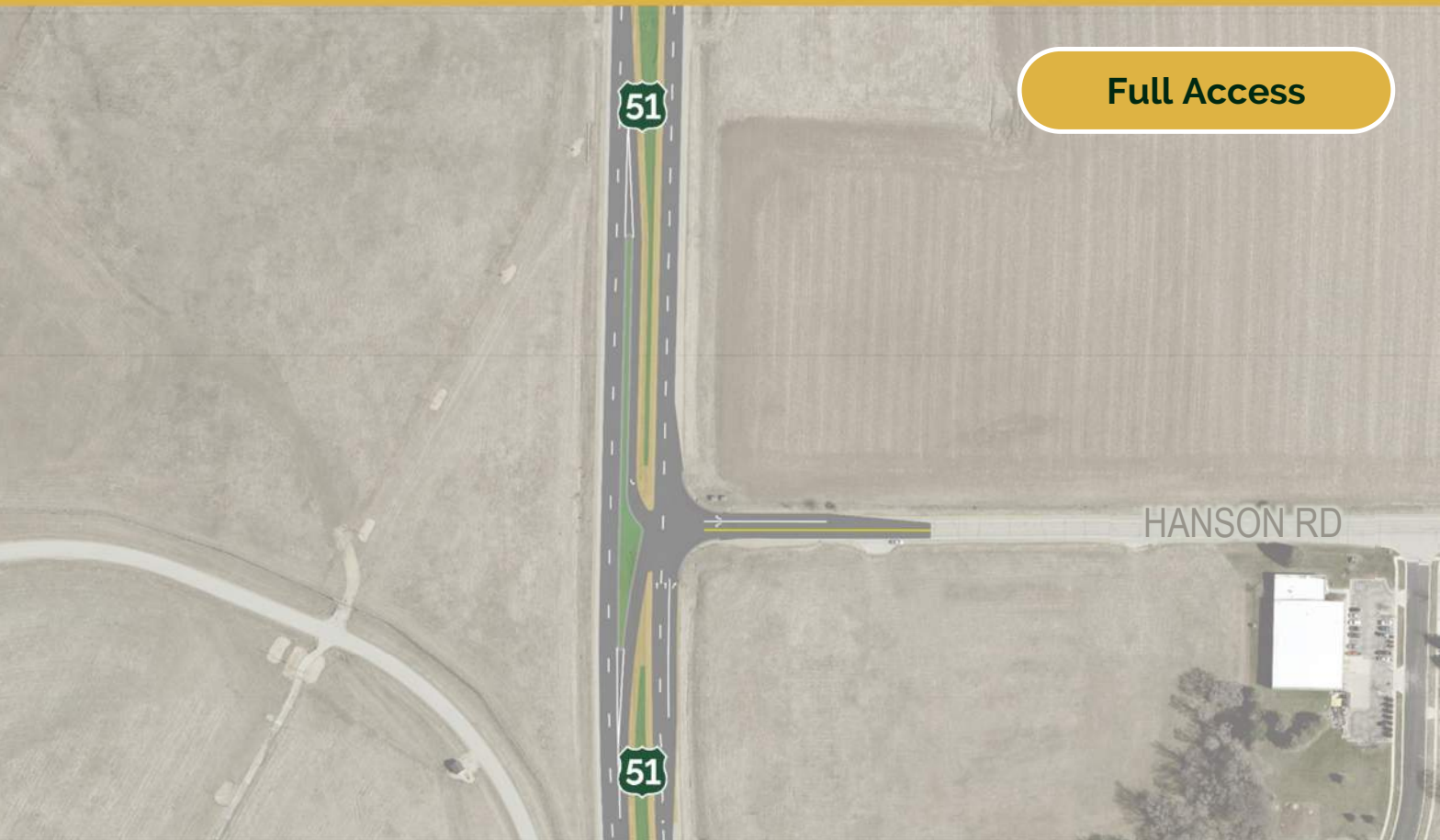
Existing





NORTH STUDY

Hanson Road Alternative Concepts



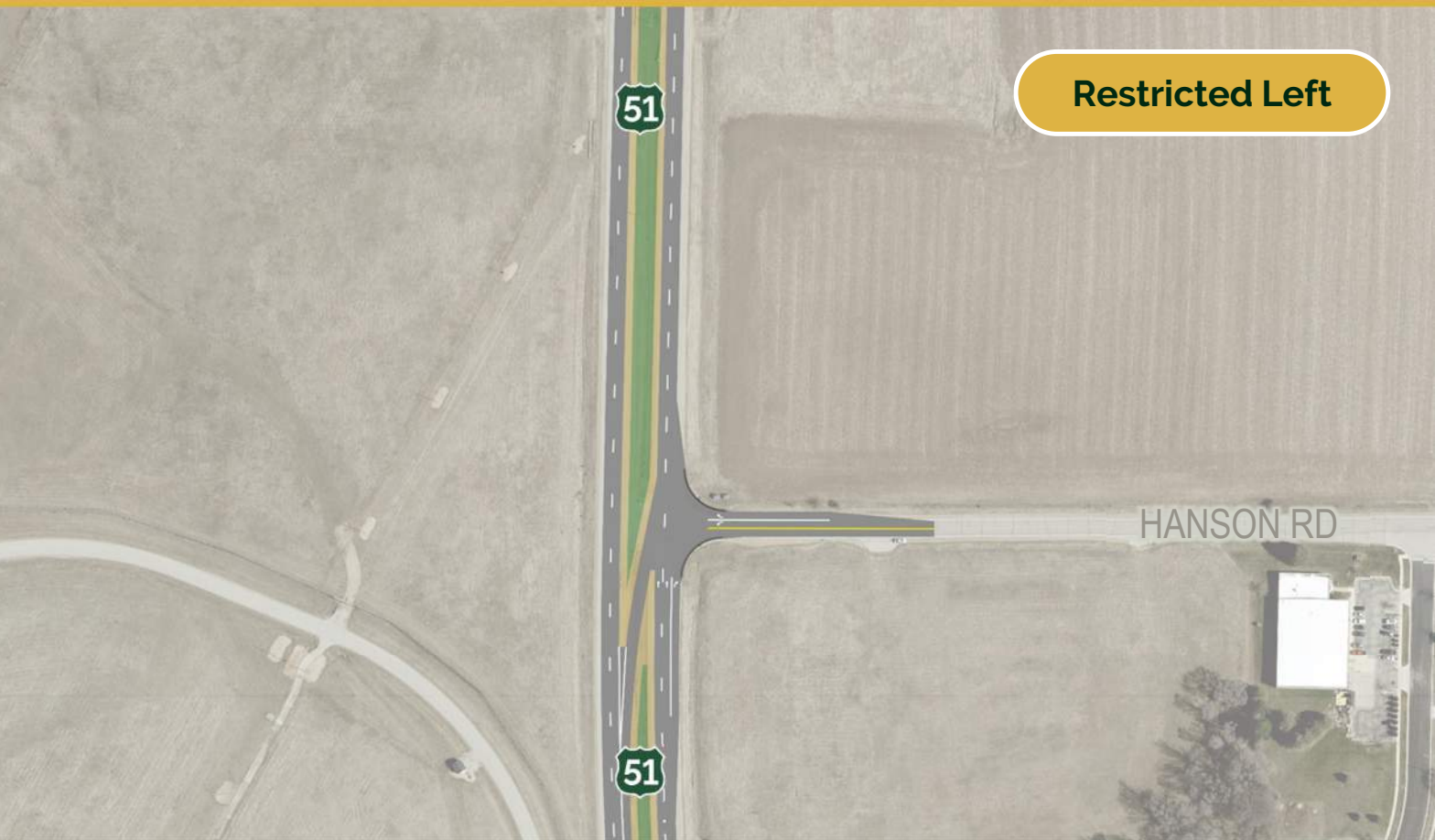
Full Access

HANSON RD





Hanson Road Alternative Concepts

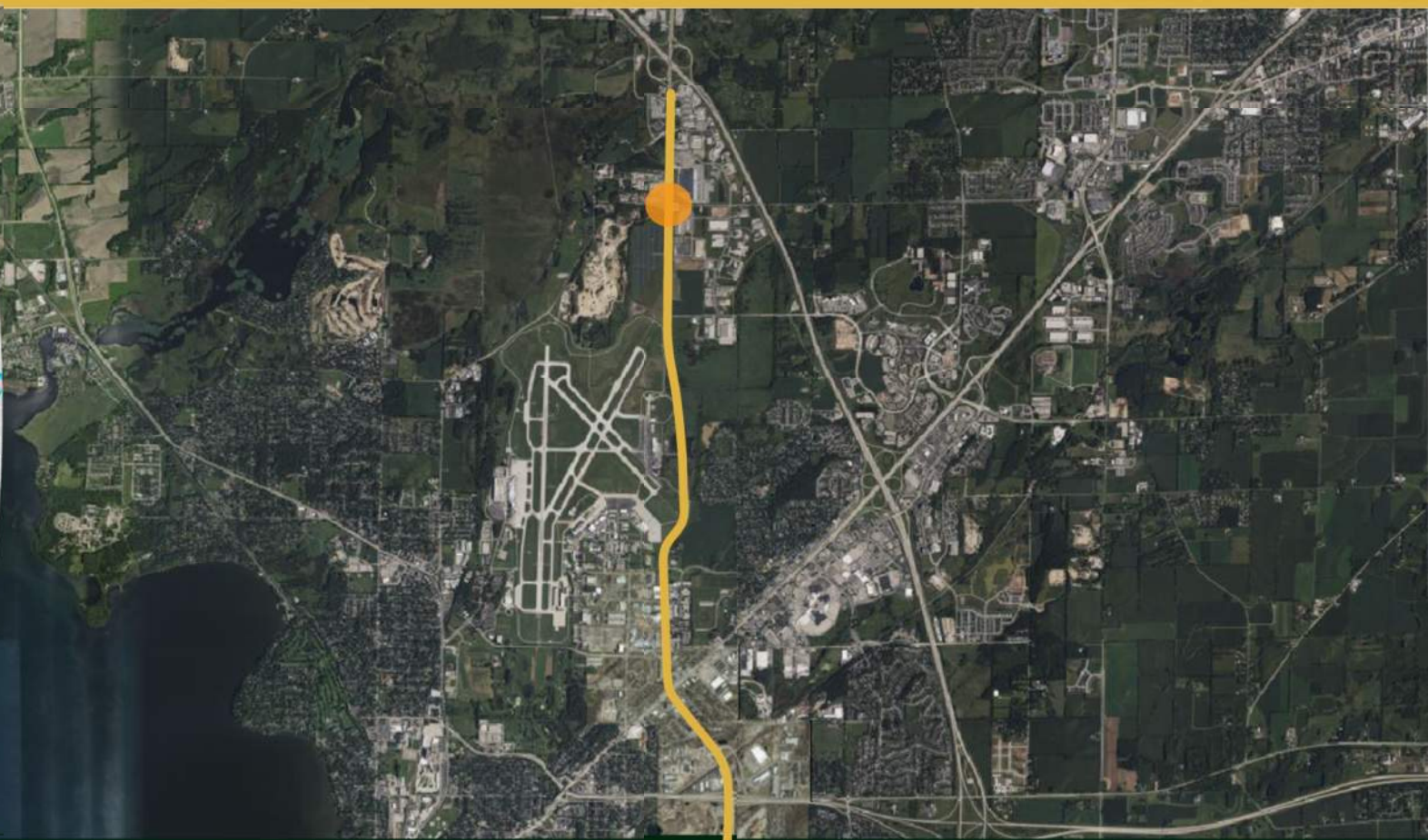
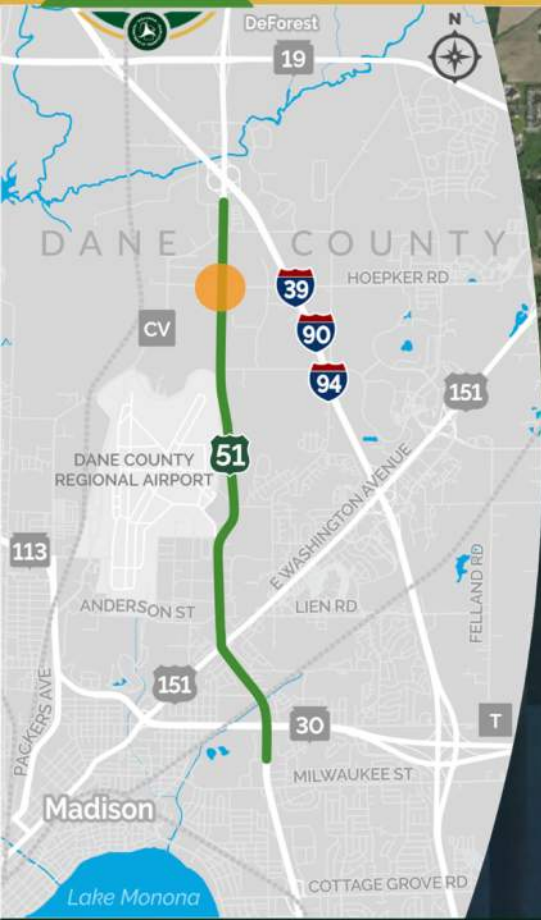


Restricted Left





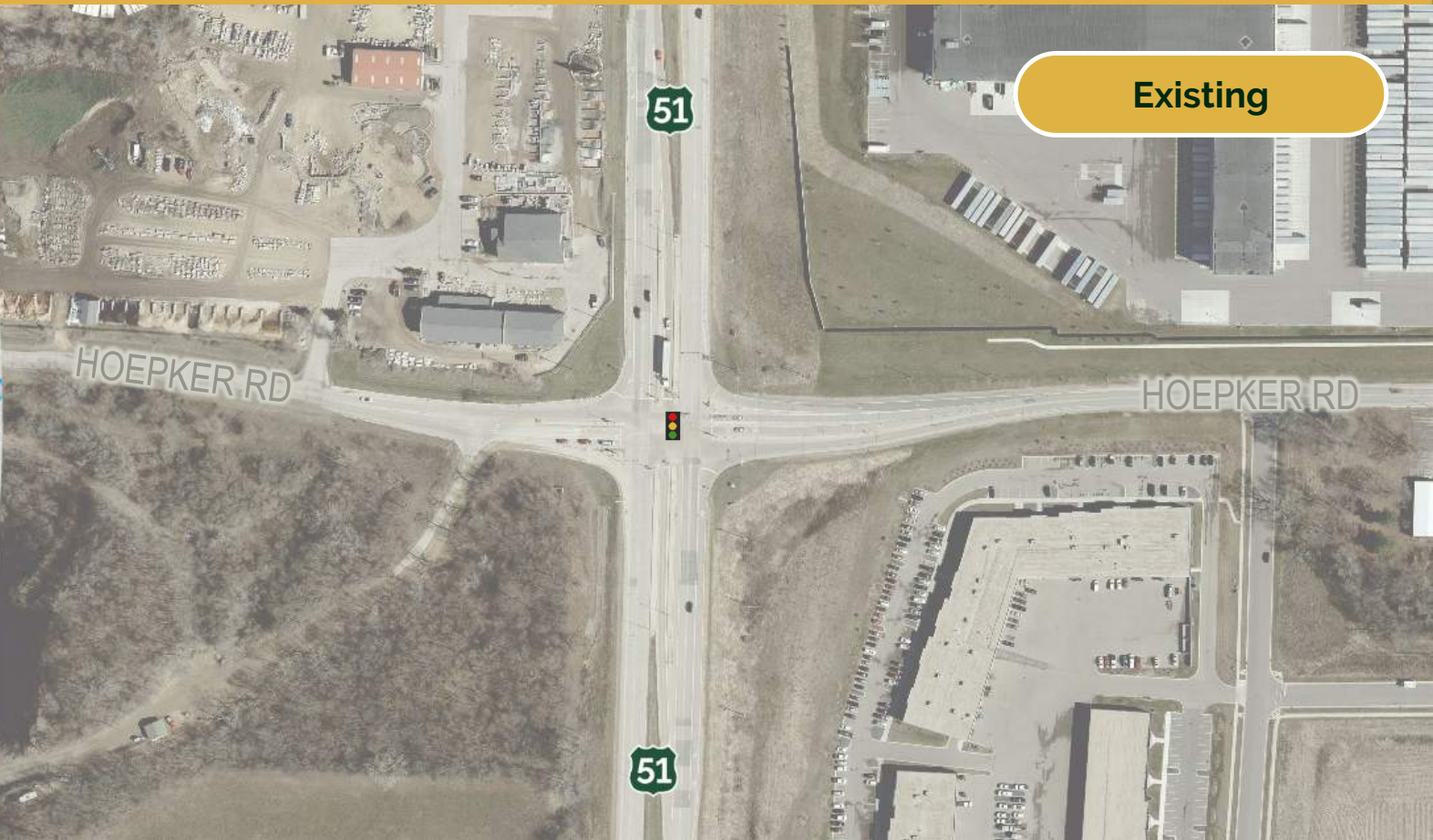
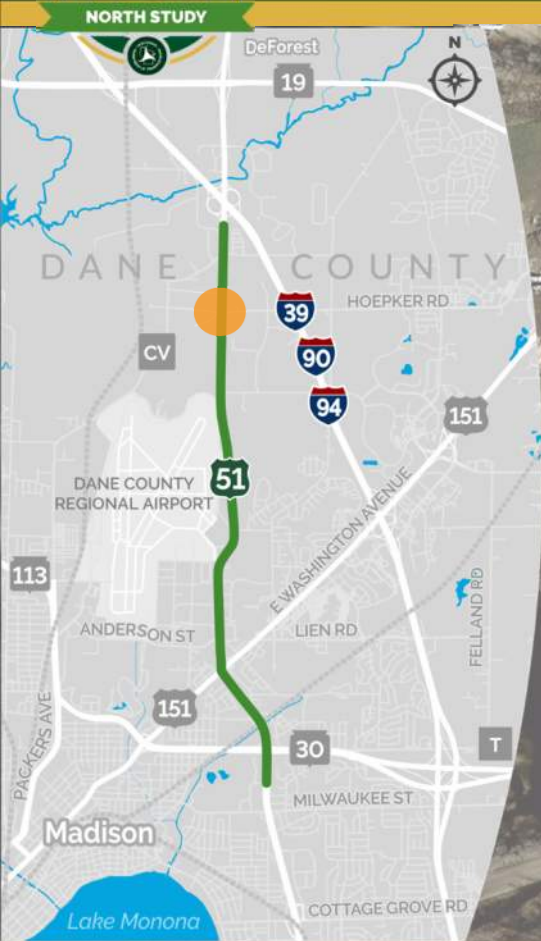
Hoepker Road Alternative Concepts





Hoepker Road Alternative Concepts

10



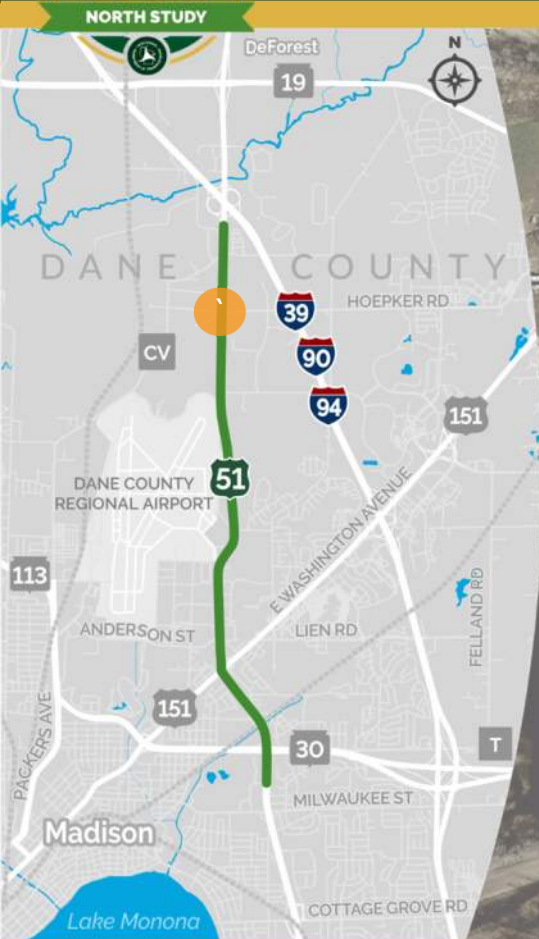
Existing





Hoepker Road Alternative Concepts

10



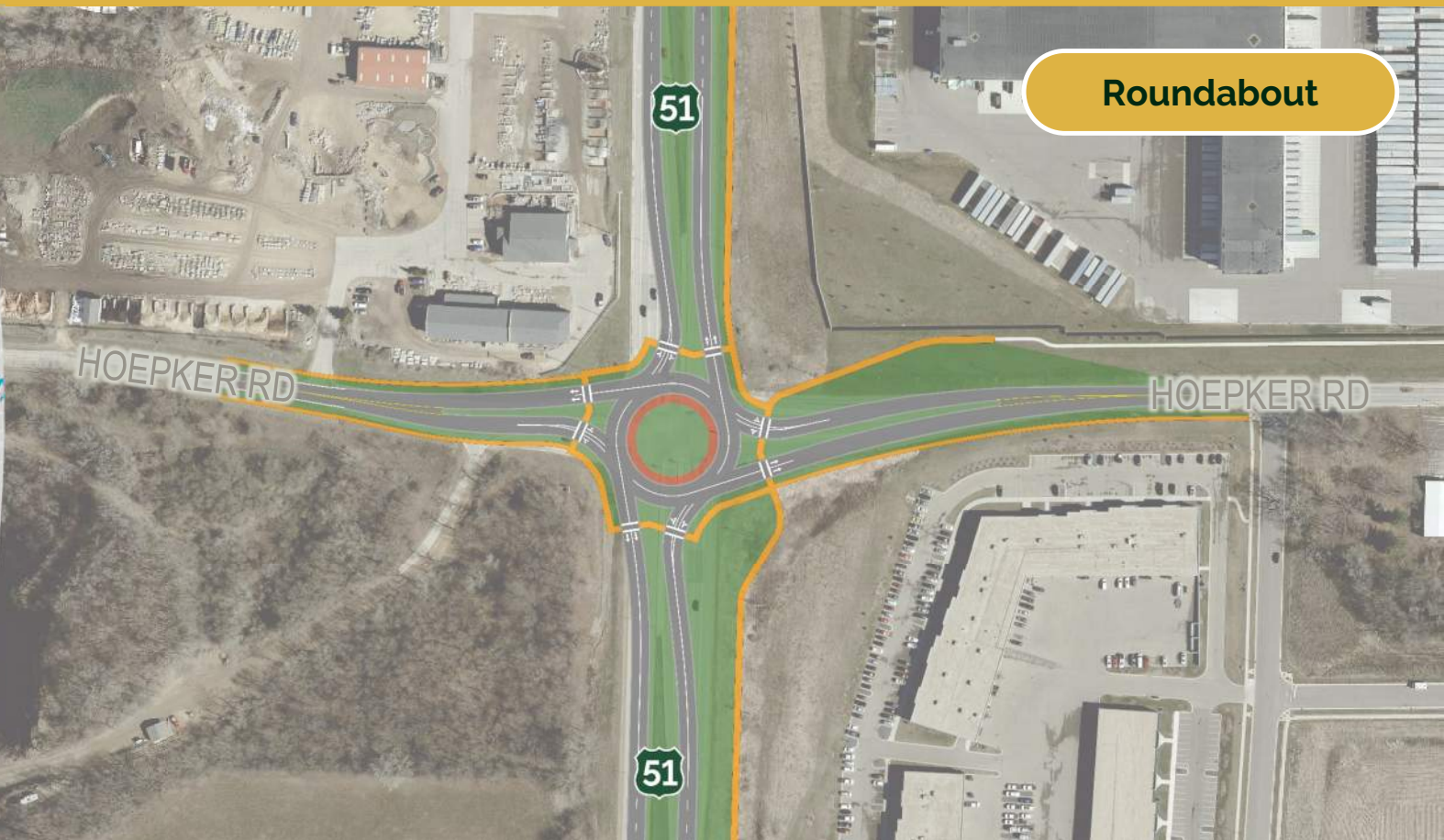
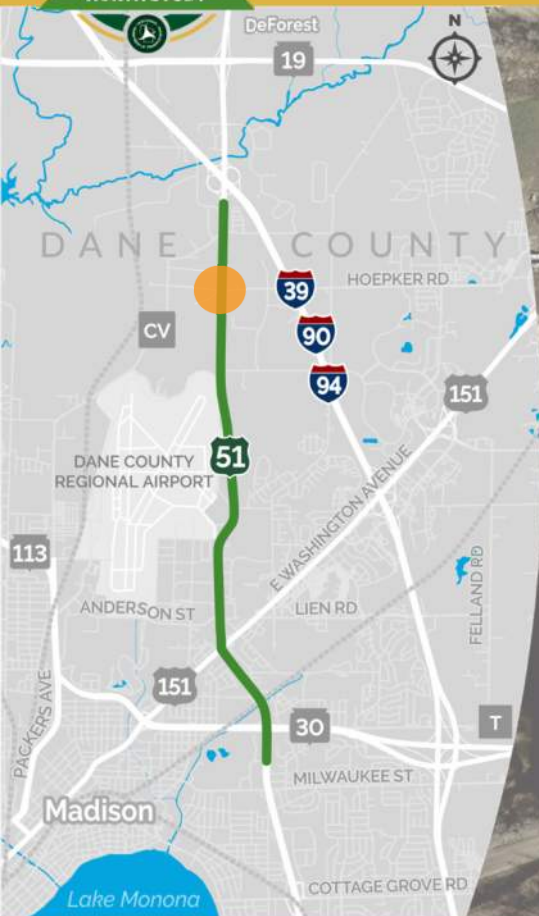
Signal





Hoepker Road Alternative Concepts

10

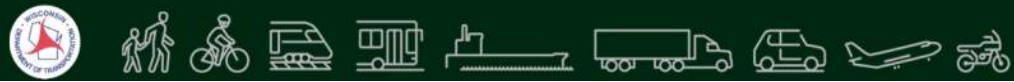
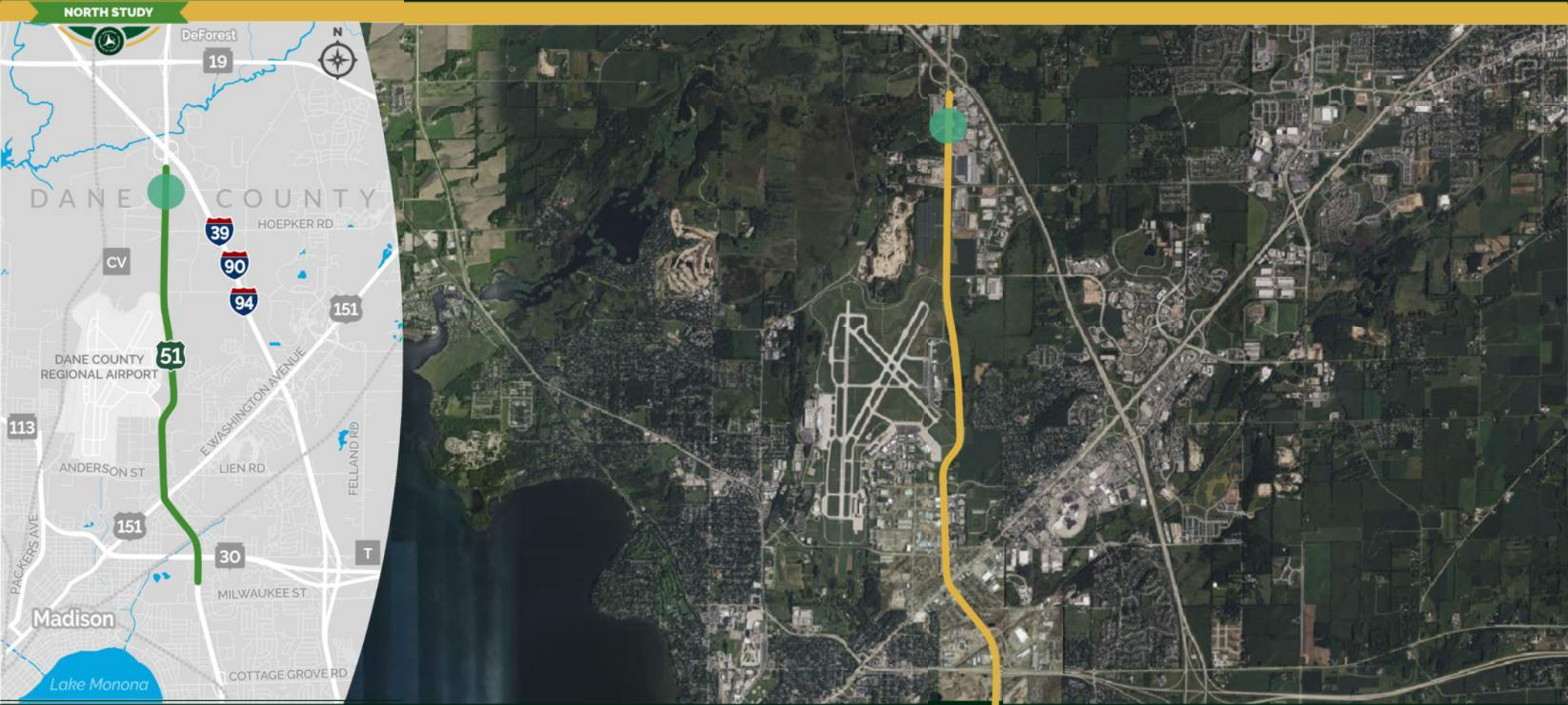


Roundabout





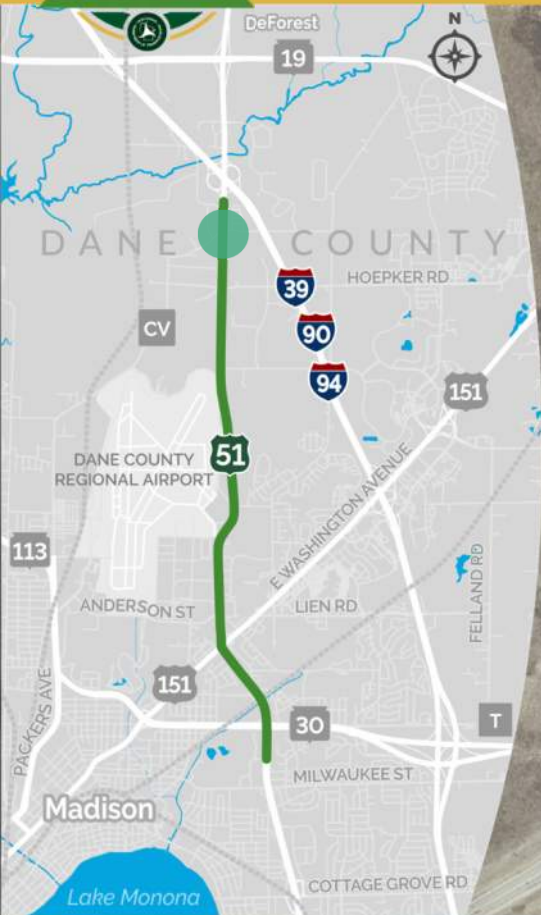
CTH CV Alternative Concept





CTH CV Alternative Concept

NORTH STUDY



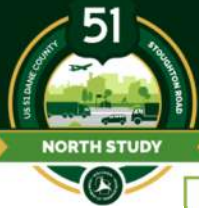
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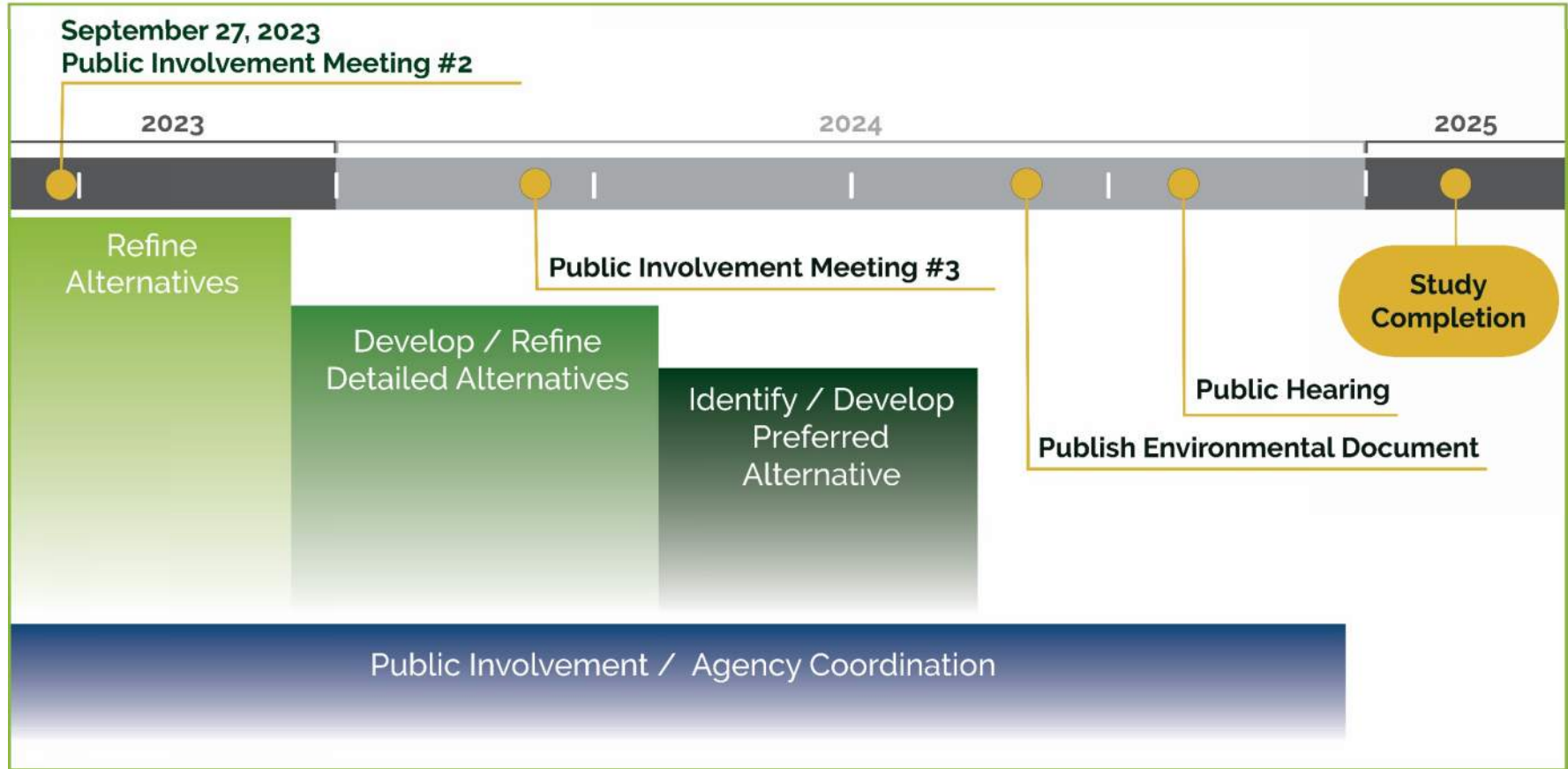


CTH CV Alternative Concept





Study Schedule / Next Steps





Public Feedback

Please provide feedback by October 27, 2023

Write comments on a sticky note and attach to comment boards.

Take the corridor survey.
Tonight: Paper copy or scan QR code
Available soon: Study website link

Fill out a comment form and submit in person tonight, by email, or by mail.





Study Contact Information

WisDOT Project Manager

Jeff Berens, P.E.

Email: Jeff.Berens@dot.wi.gov

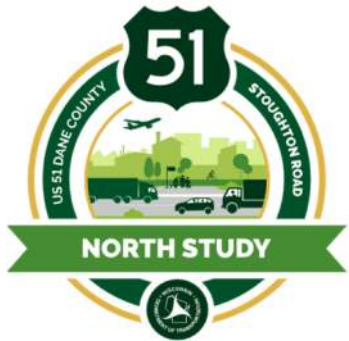
Phone: (608) 245-2656



Study website

wisconsindot.gov and search
"US 51 North Study" to select the first link





U.S. Department
of Transportation
**Federal Highway
Administration**

Thank You!

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