



I-94 INTERCHANGE (EXIT 152) SUNSET DRIVE

NORTH
Dakota | Transportation
Be Legendary.



AGENDA

- Project Overview
 - Project Background
 - Project limits
 - Current Project Schedule
 - Project Funding
- Existing Project Conditions
 - Key Issues of Existing Interchange
- Project Alternatives
 - No Build
 - Alternatives not selected
 - Interchange Build Alternative
 - Old Red Trail Options
- Work Zone Traffic Control
- Next Steps

PROJECT OVERVIEW

I-94 INTERCHANGE (EXIT 152) SUNSET DRIVE

BACKGROUND

FINAL REPORT
194 Corridor Study
Bismarck-Mandan Metropolitan Planning Organization

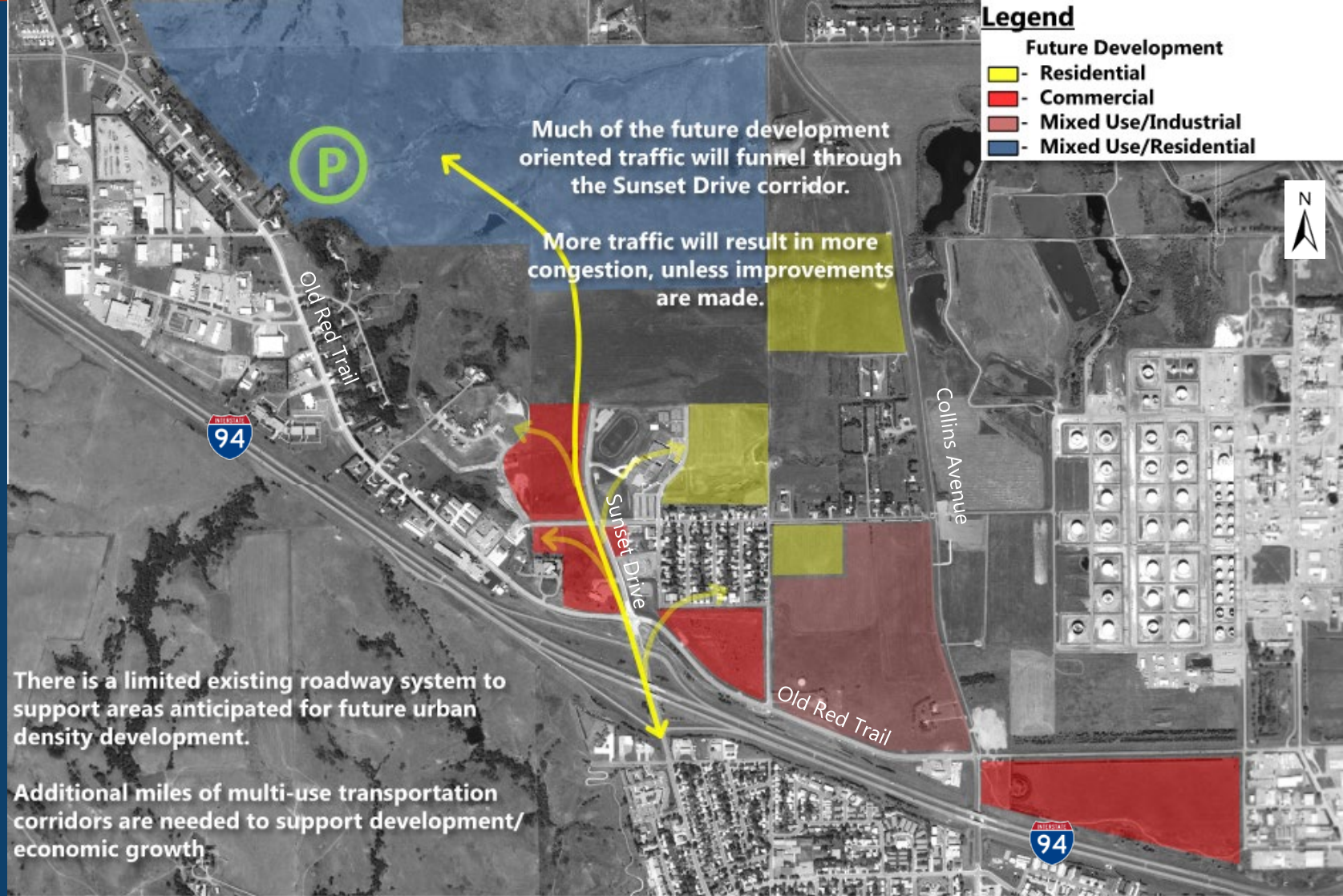
North Mandan
Subarea Transportation Study

August 2013



North Mandan Subarea Study

Bismarck-Mandan Metropolitan Planning Organization



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NEW DEVELOPMENTS

New developments have begun north of the project area with direct impact to the Sunset Drive Interchange.

These include:

- The recently opened High School.
- New developments (shown on map), north of I-94, include residential and commercial properties.





WHAT ARE THE PROJECT LIMITS?

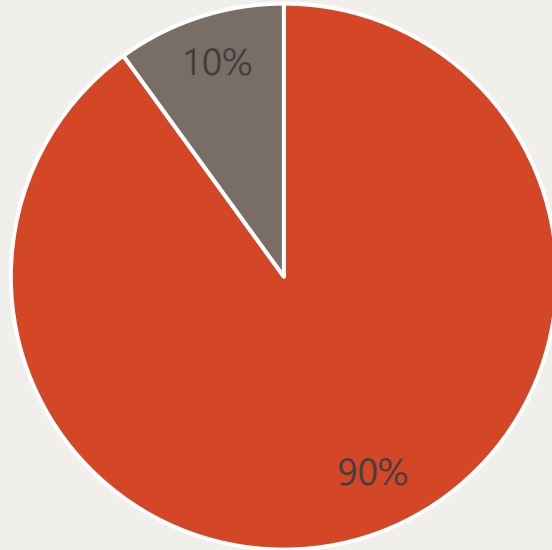
Project Limit Map



WHAT IS THE PROJECT TIMELINE?

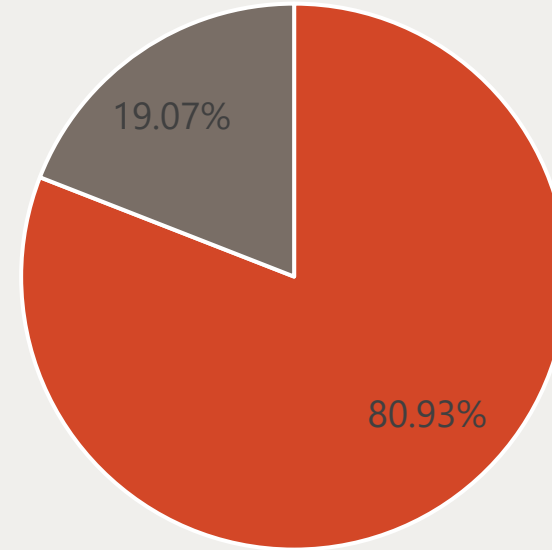
Current Project Schedule

(IM) State & Federal Right-of-Way



■ Federal ■ State

(NHU) Federal & Local Right-of-Way



■ Federal ■ Local

HOW IS THE PROJECT FUNDED?

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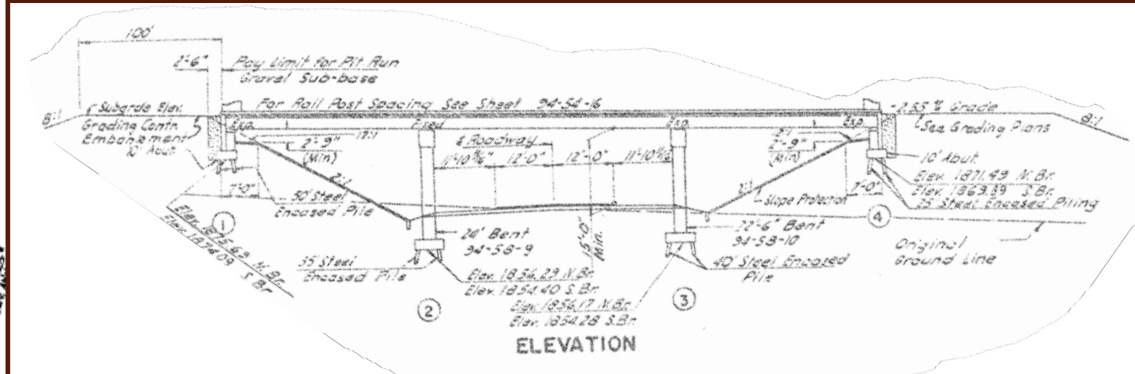
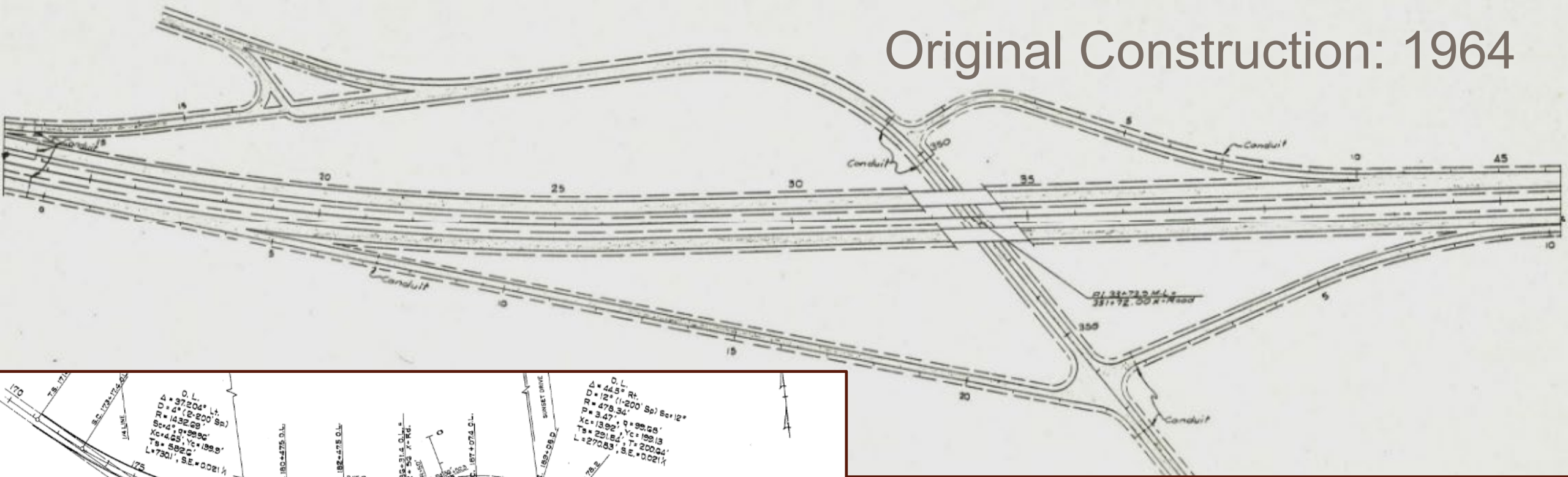
Be Legendary.

Consultant: **Mead
& Hunt**

EXISTING CONDITIONS

I-94 INTERCHANGE (EXIT 152) SUNSET DRIVE

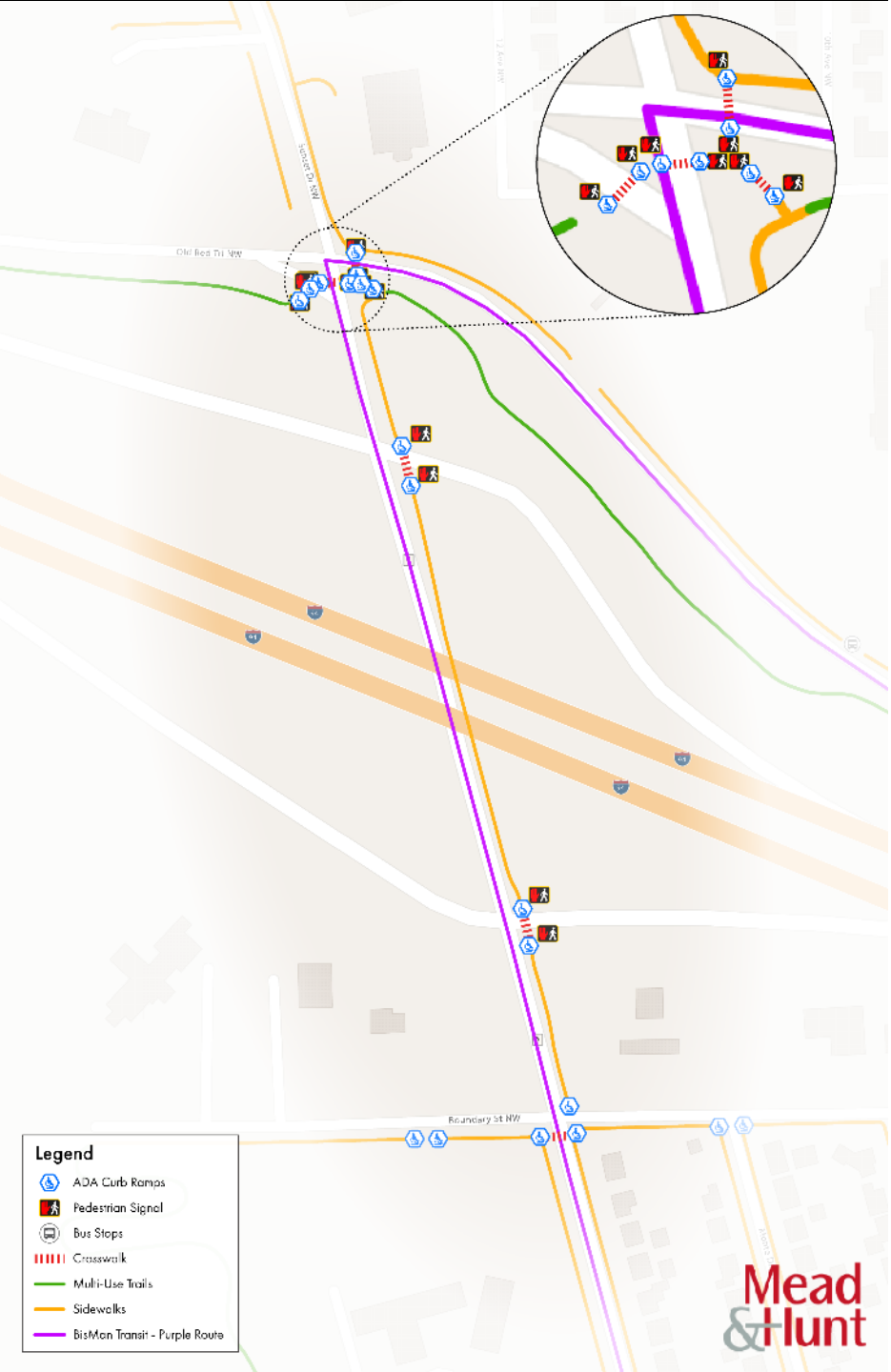
Original Construction: 1964



I-94 Bridge: 1964

EXISTING INTERCHANGE

MULTI-MODAL OPTIONS



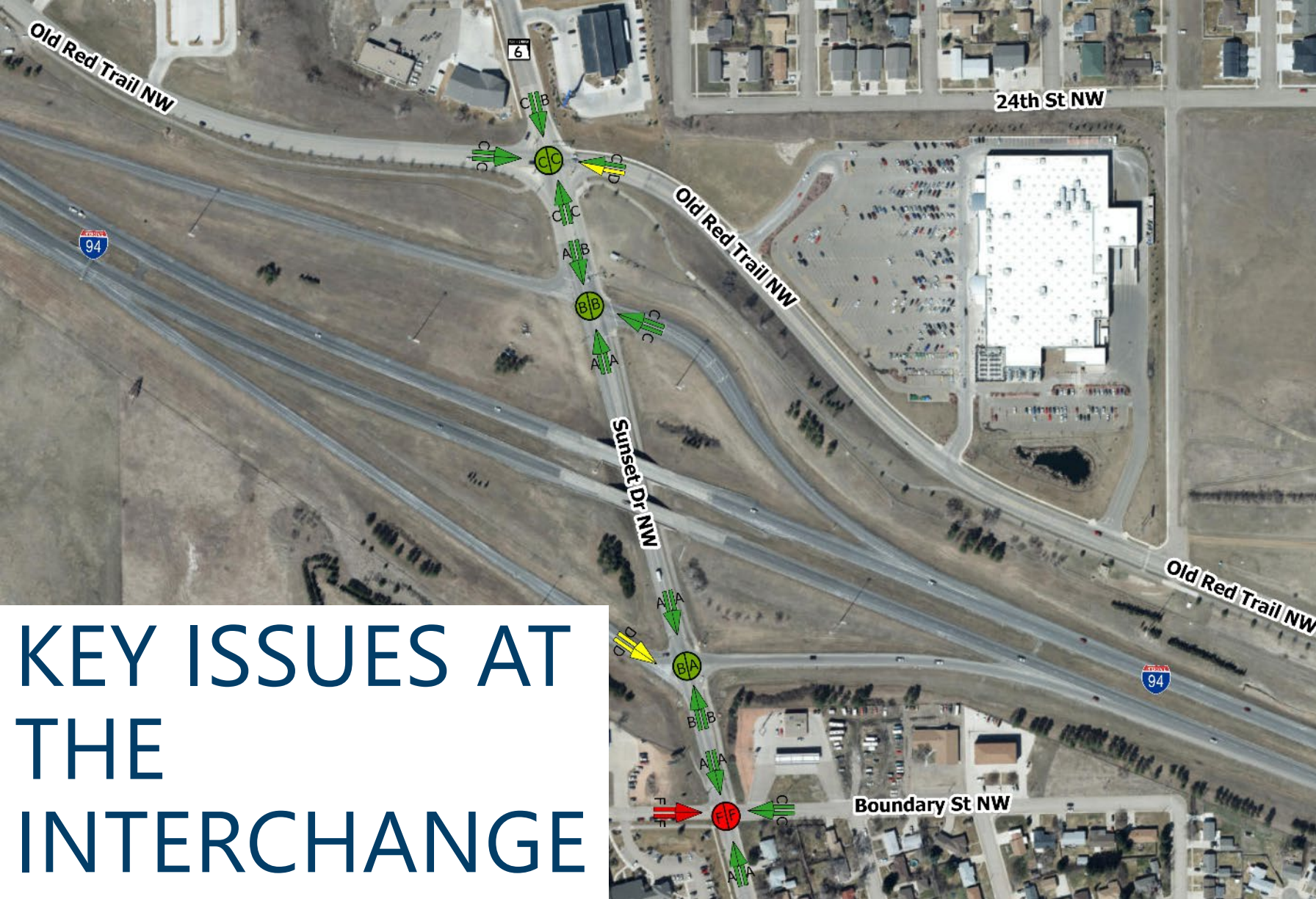
Bis-Man Transit provides bus service along Sunset Drive. The purple route provides service daily with stops at Walmart and the Mandan High School.



City of Mandan Parks and Recreation has a shared use path along the east side of Sunset Drive and along the south side of Old Red Trail.



City of Mandan also has sidewalk facilities north and south of the interchange to serve pedestrians in the area.



Legend

Level of Service

- A, B
- C
- D
- E, F

KEY ISSUES AT THE INTERCHANGE

Level of Service (Signalized Intersections)	Average Vehicle Delay at Intersection (seconds)
A	≤10
B	>10 and <20
C	>20 and <35
D	>35 and <55
E	>55 and <80
F	>80



Level of Service
● A, B, C ● D ● E ● F

Overall LOS:

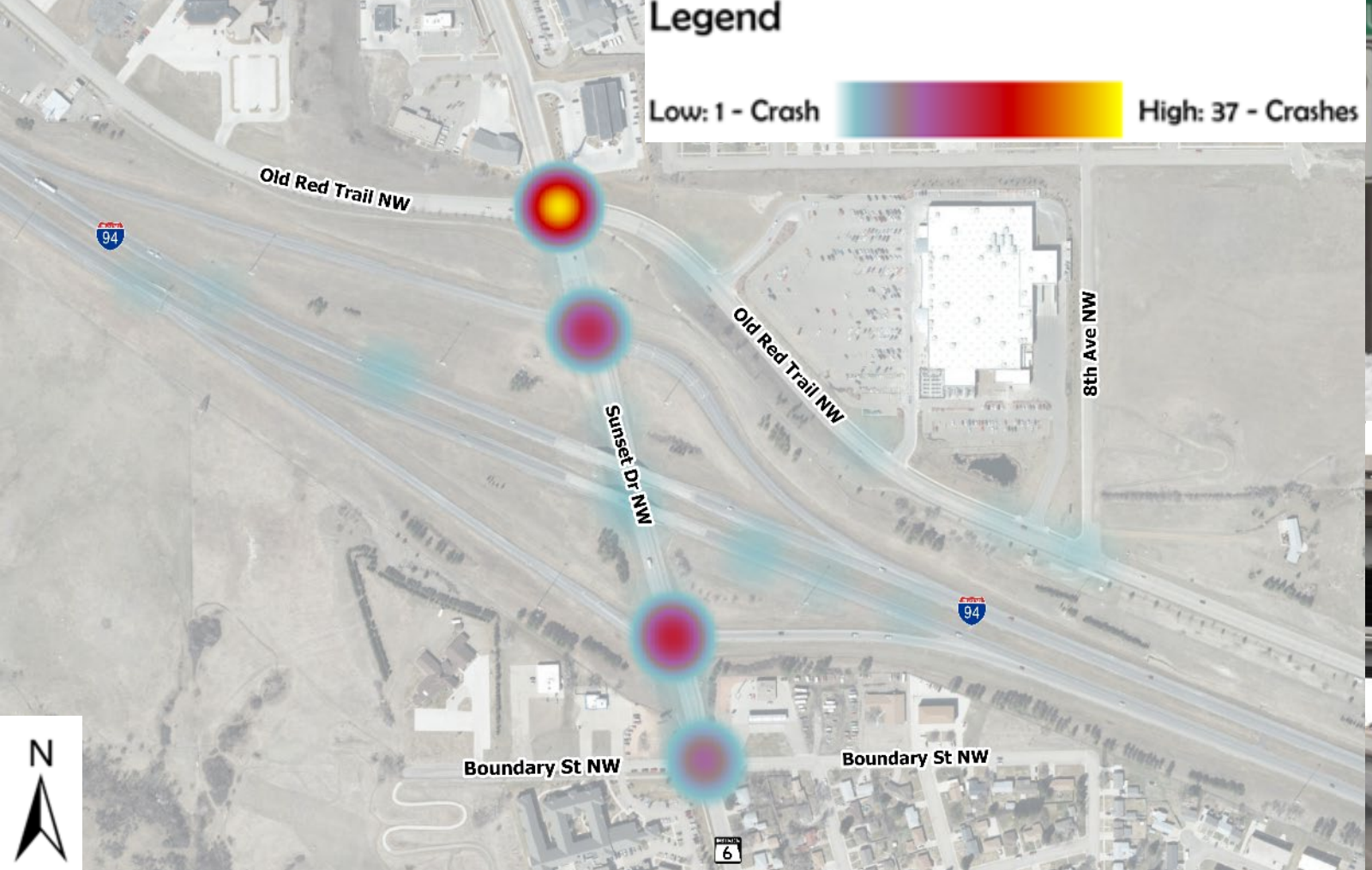
Study Area

Approach LOS:

Level of Service -Existing

Source: Level of Service Synchro 02/2023





KEY ISSUES AT THE INTERCHANGE

Between Old Red Trail and Boundary Street



ALTERNATIVES

I-94 INTERCHANGE (EXIT 152) SUNSET DRIVE

NO BUILD ALTERNATIVE



ARCO

Overlook Ln

Prairie
Rose
Dental

CHI St. Alexis
Health

Walmart

Old Red Trail

Subaru of
Mandan

Messiah
Lutheran
Church

Frieds

Hide
Away

Mobil

Boundary Street Northwest

Vibra Hospital



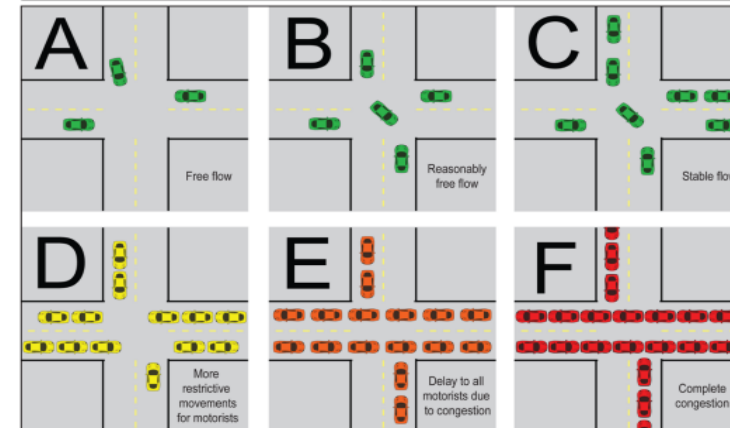


Legend

Level of Service

- A, B
- C
- D
- E, F

Level of Service (Signalized Intersections)	Average Vehicle Delay at Intersection (seconds)
A	≤10
B	>10 and <20
C	>20 and <35
D	>35 and <55
E	>55 and <80
F	>80



Level of Service
● A, B, C ● D ● E ● F

Overall LOS:
 AM PM

Study Area

Approach LOS:
 AM PM Northbound
 AM PM Southbound
 AM PM Eastbound
 AM PM Westbound

Level of Service - 2030 No Build

Source: Level of Service Synchro 02/2023



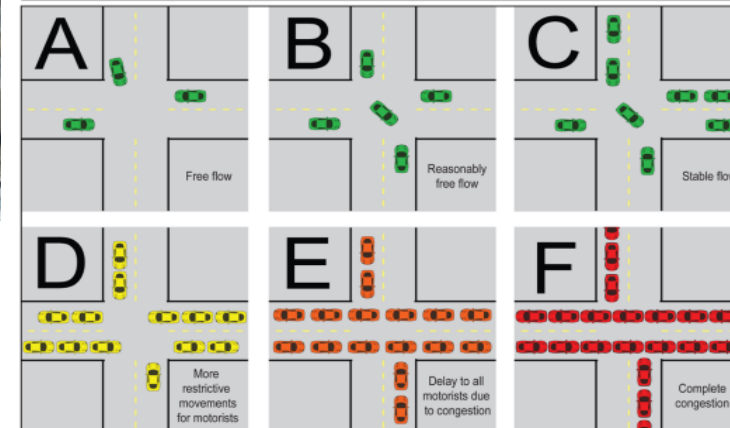


Legend

Level of Service

- A, B
- C
- D
- E, F

Level of Service (Signalized Intersections)	Average Vehicle Delay at Intersection (seconds)
A	≤10
B	>10 and <20
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E	>55 and <80
F	>80

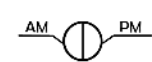


- Level of Service
- A, B, C
 - D
 - E
 - F

Approach LOS:

- Northbound
- Southbound
- Eastbound
- Westbound

Overall LOS:



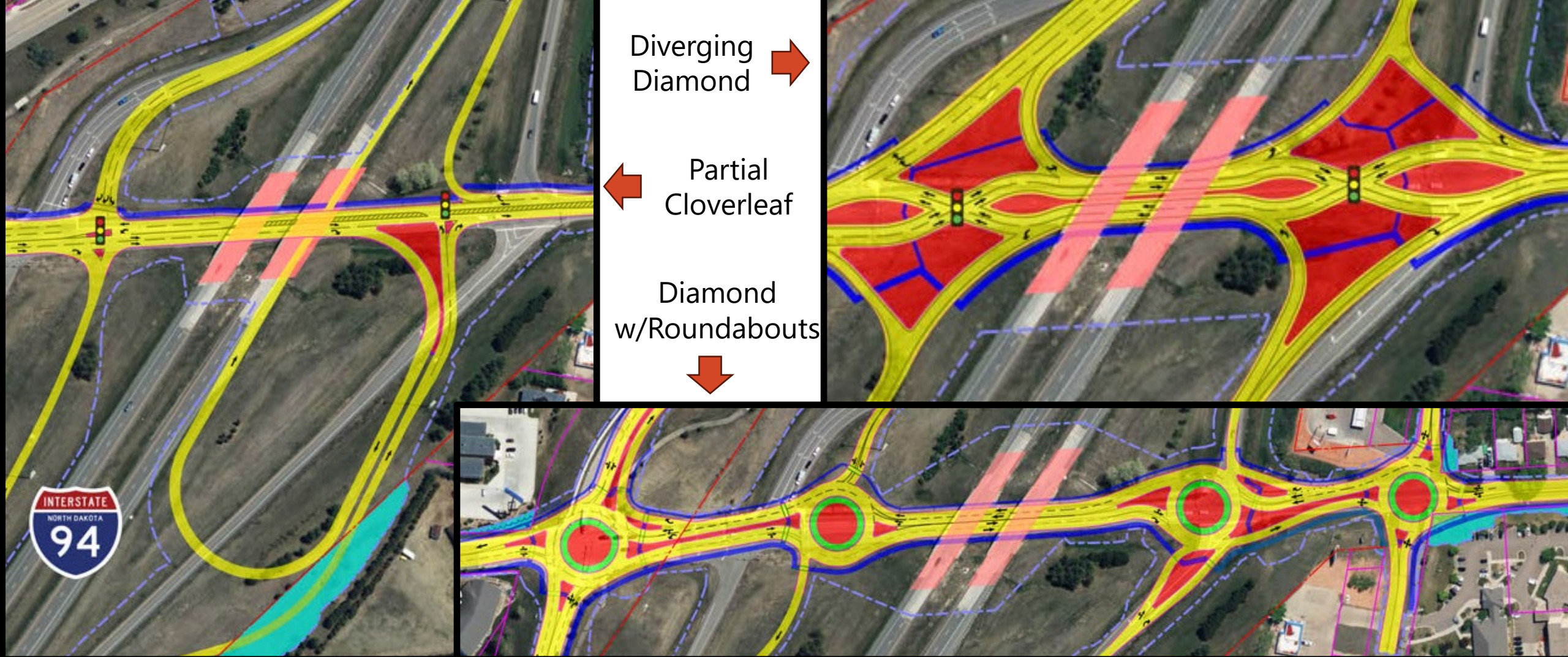
Study Area



Level of Service - 2045 No Build

Source: Level of Service Synchro02/2023

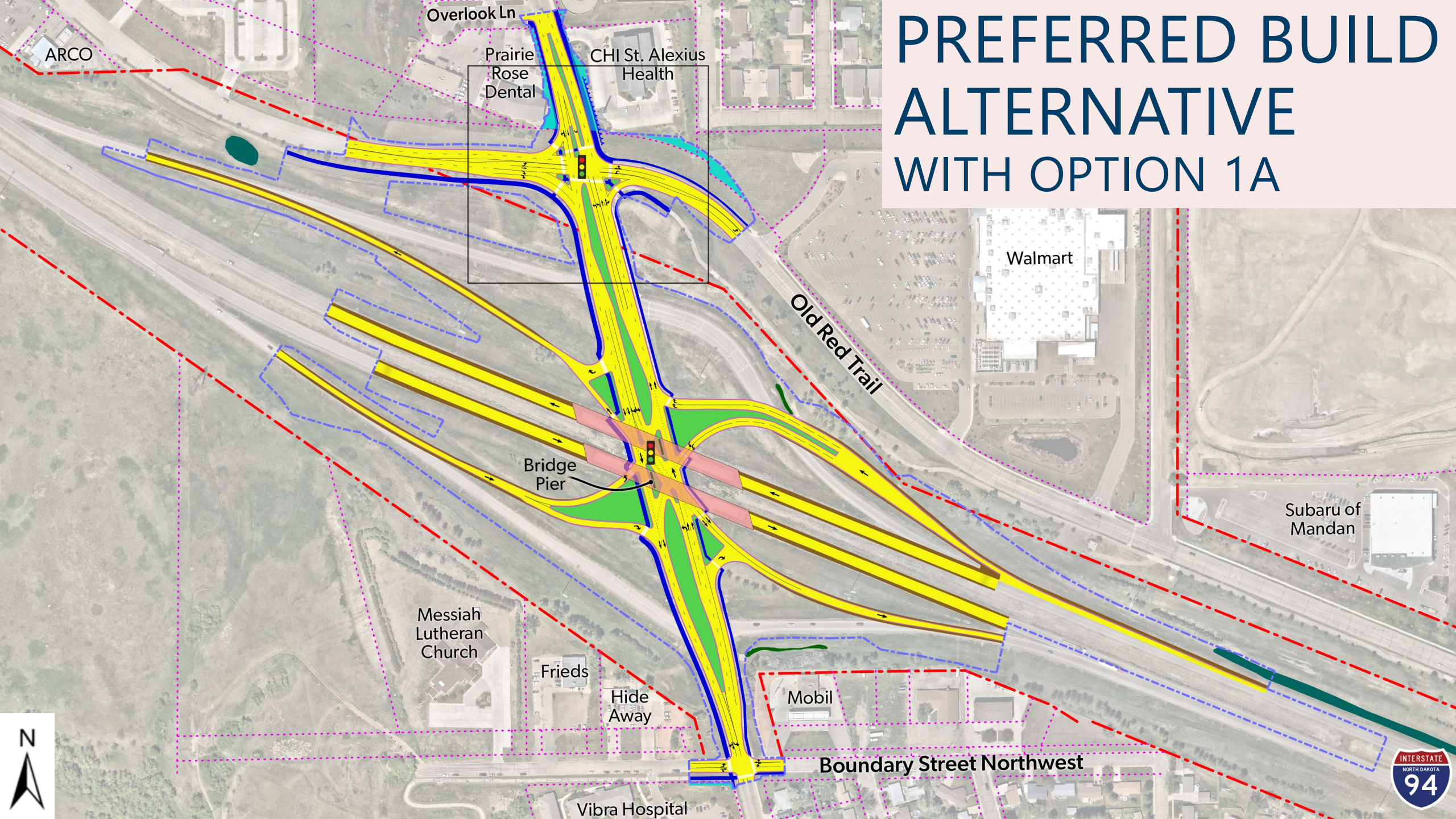




INTERCHANGE ALTERNATIVES

Evaluated – Not Selected

PREFERRED BUILD ALTERNATIVE WITH OPTION 1A



ARCO

Overlook Ln

Prairie
Rose
Dental

CHI St. Alexius
Health

Walmart

Old Red Trail

Subaru of
Mandan

Messiah
Lutheran
Church

Frieds

Hide
Away

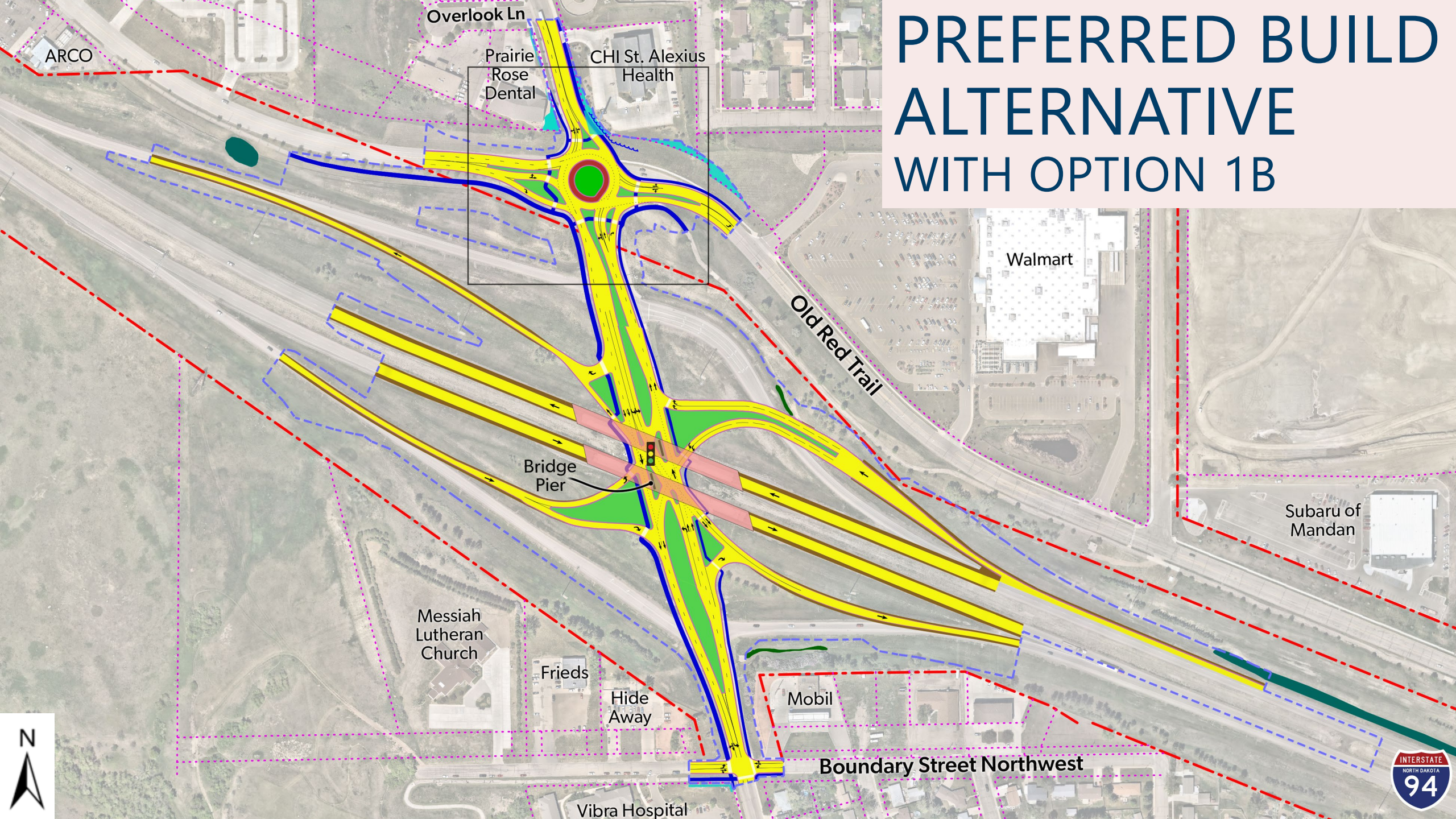
Mobil

Boundary Street Northwest

Vibra Hospital



PREFERRED BUILD ALTERNATIVE WITH OPTION 1B



ARCO

Overlook Ln

Prairie
Rose
Dental

CHI St. Alexius
Health

Walmart

Old Red Trail

Bridge
Pier

Subaru of
Mandan

Messiah
Lutheran
Church

Frieds

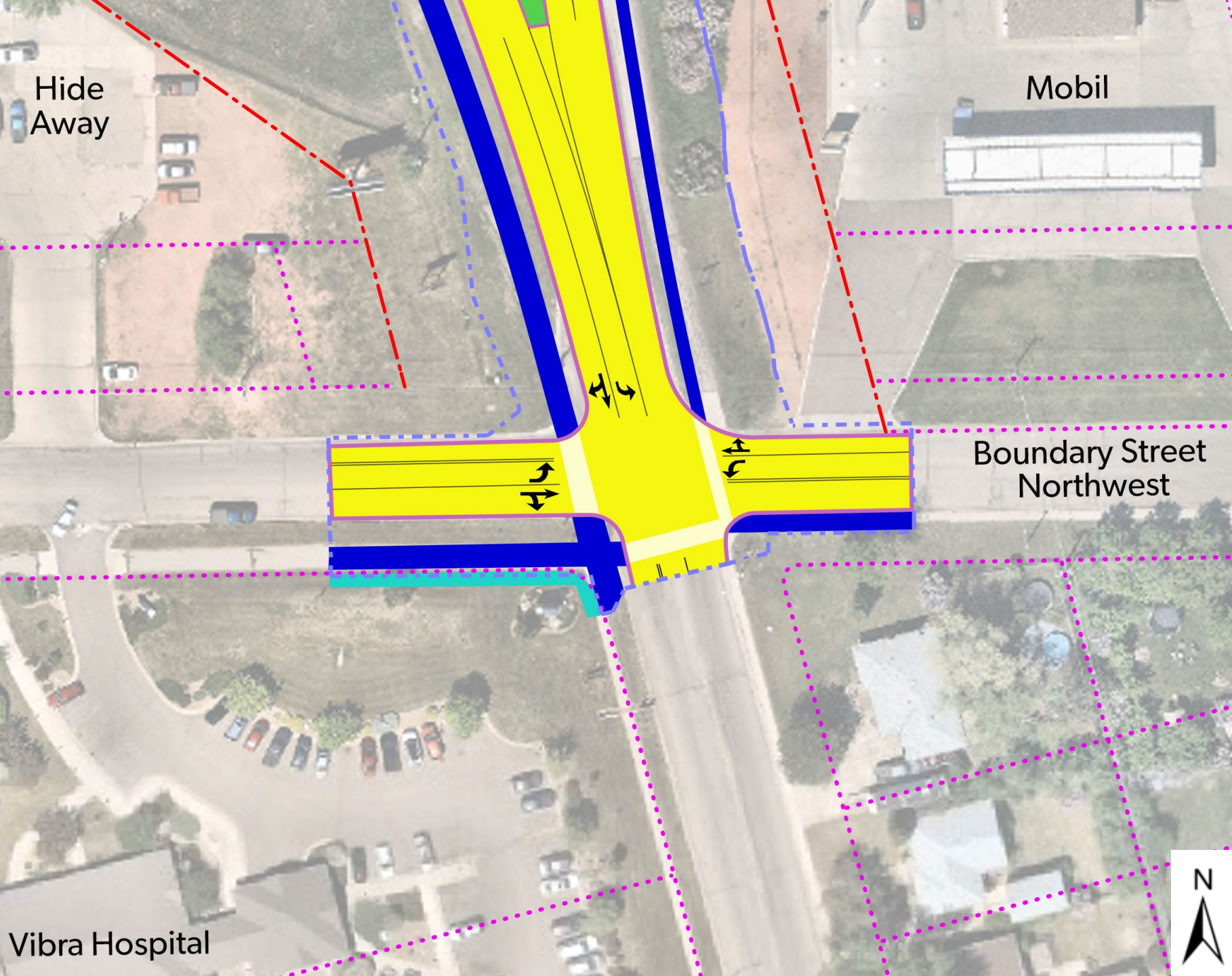
Hide
Away

Mobil

Boundary Street Northwest

Vibra Hospital





BOUNDARY STREET

Signalized Intersection

Boundary Street Northwest

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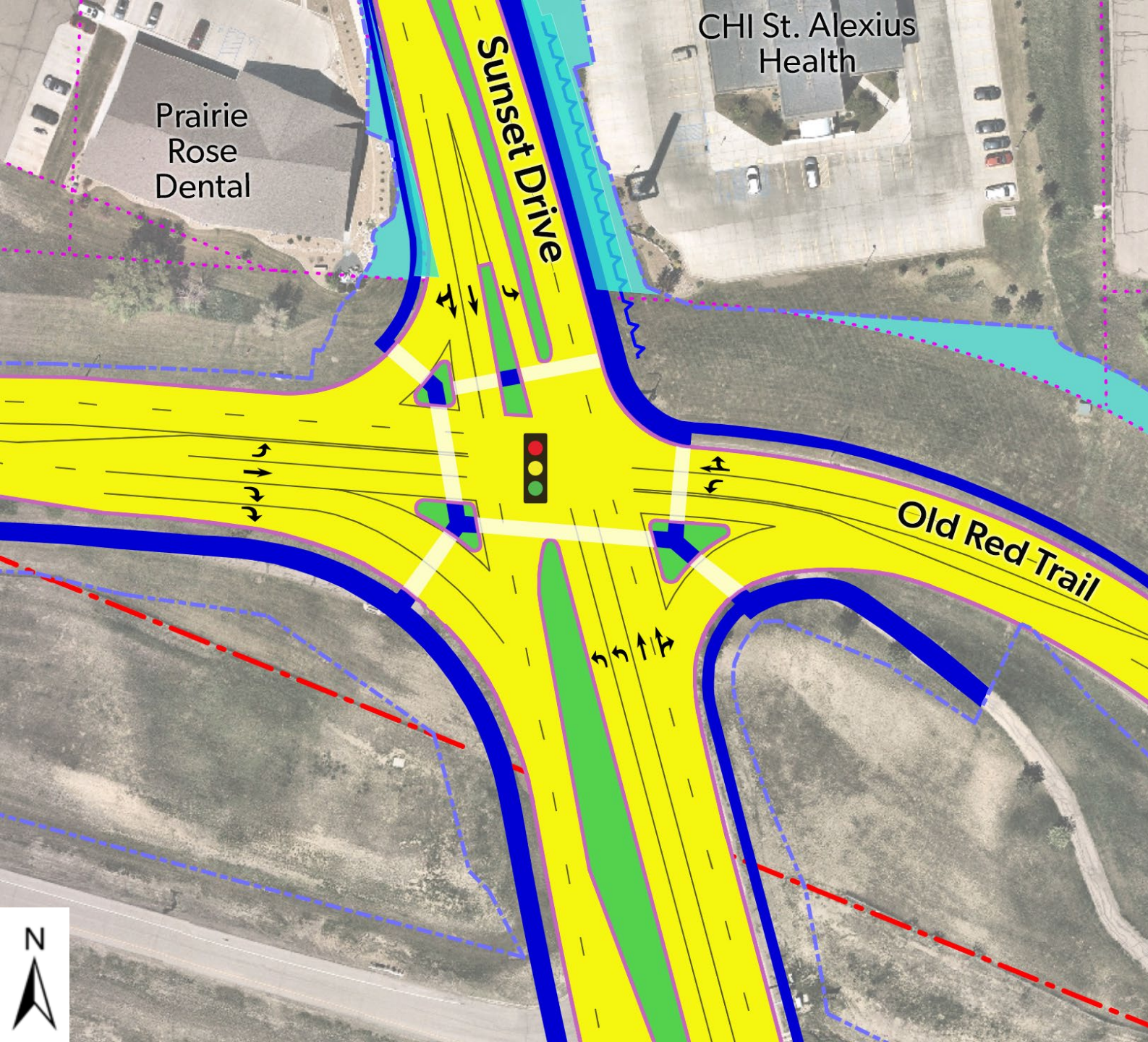
Be Legendary.™

Hide Away

Mobil

Vibra Hospital



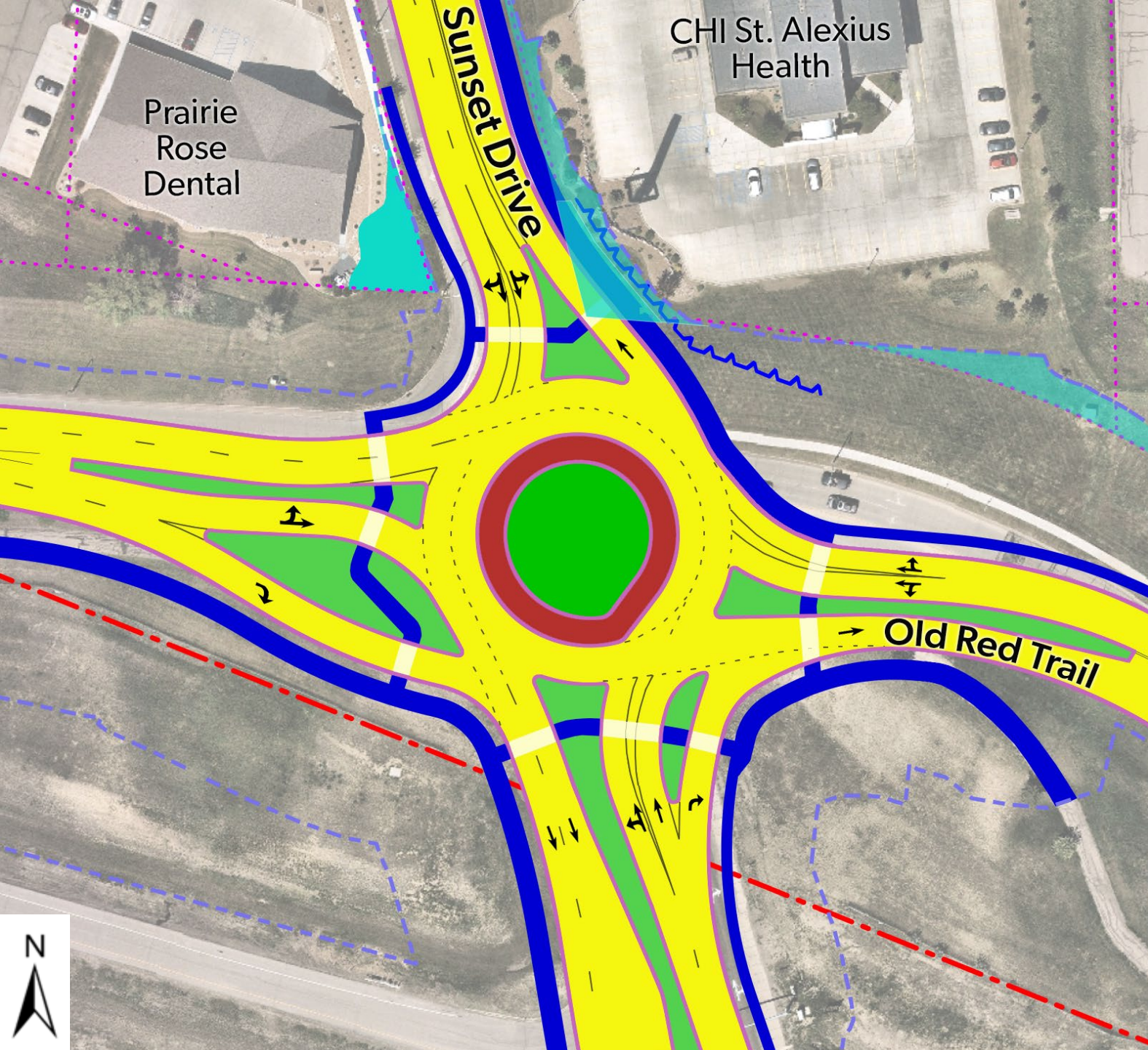


OLD RED TRAIL OPTION 1A

Signalized Intersection

Right-of-Way:	
Permanent	0.106 Acres
Temporary	0.088 Acres
Estimated Cost:	\$46.8 Million





OLD RED TRAIL OPTION 1B

Roundabout

Right-of-Way:

Permanent	0.042 Acres
Temporary	0.150 Acres

Estimated Cost: \$47.1Million
Additional \$300K for roundabout option.



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Consultant:

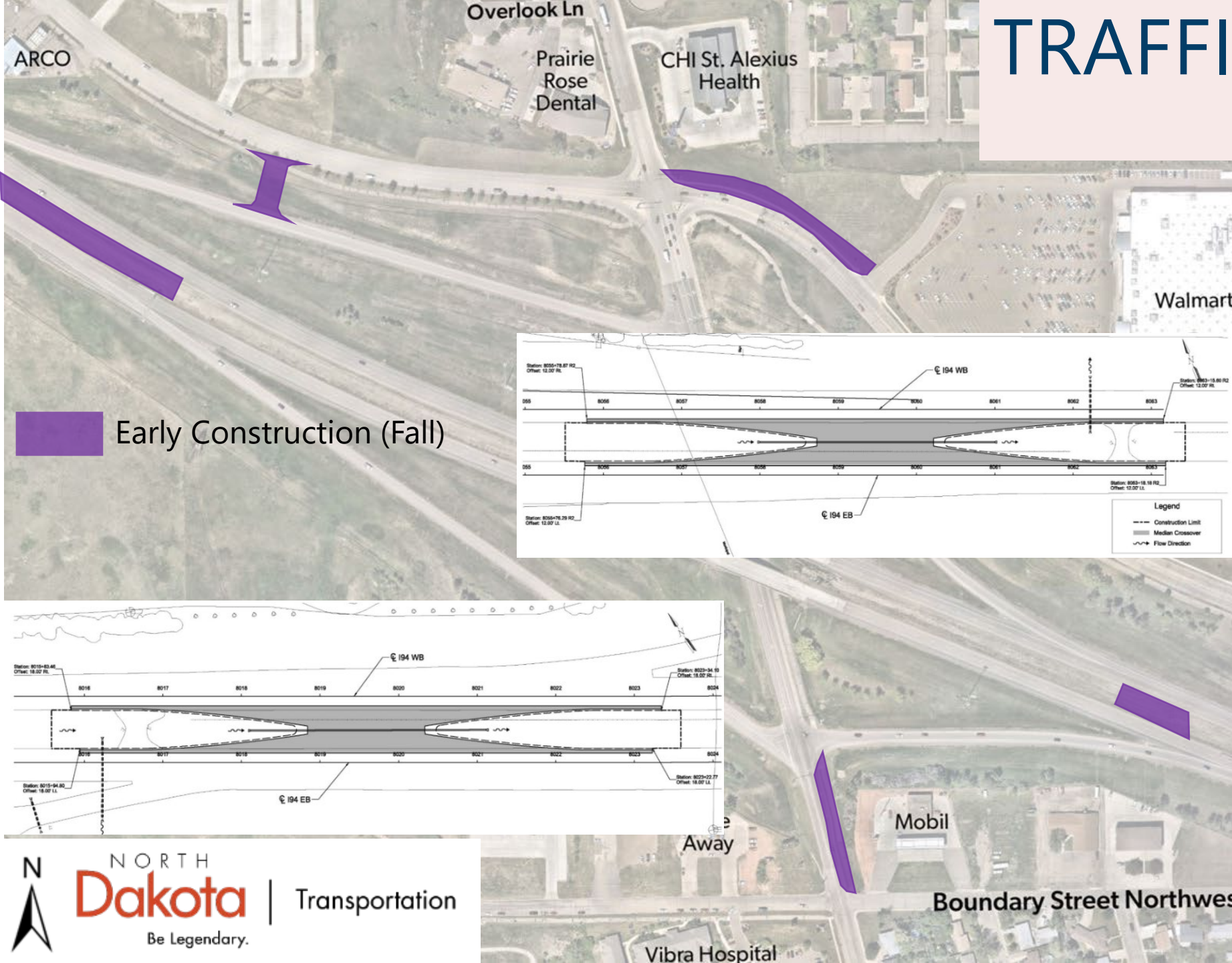
**Mead
& Hunt**



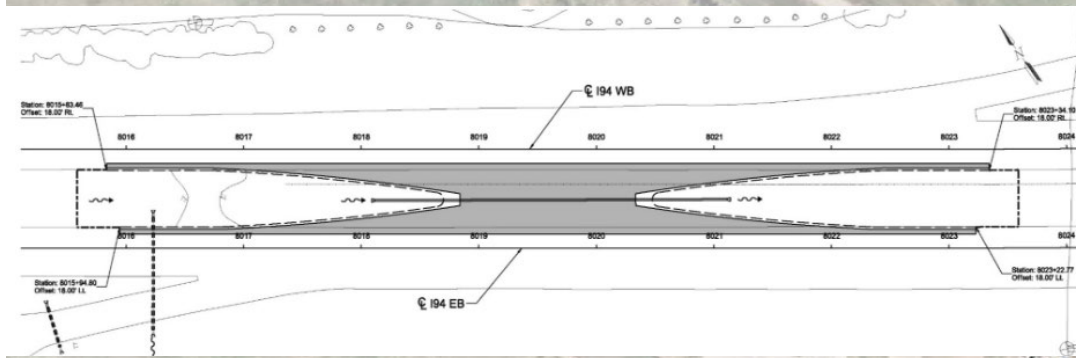
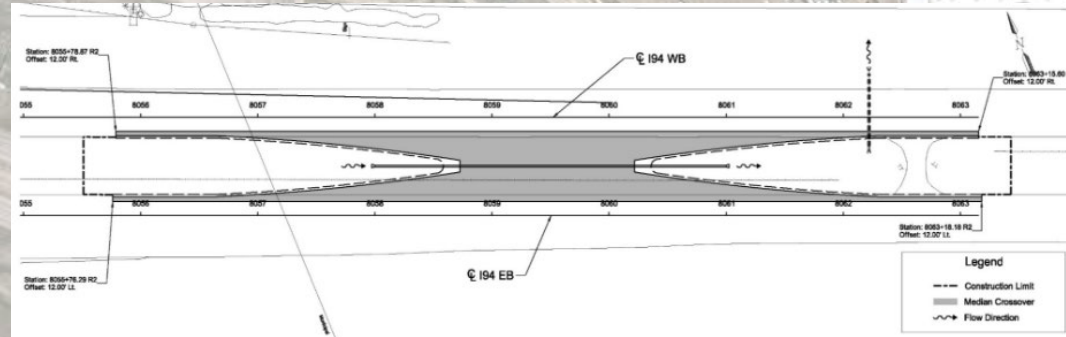
WORK ZONE SAFETY & MOBILITY

I-94 INTERCHANGE (EXIT 152) SUNSET DRIVE

TRAFFIC STAGING

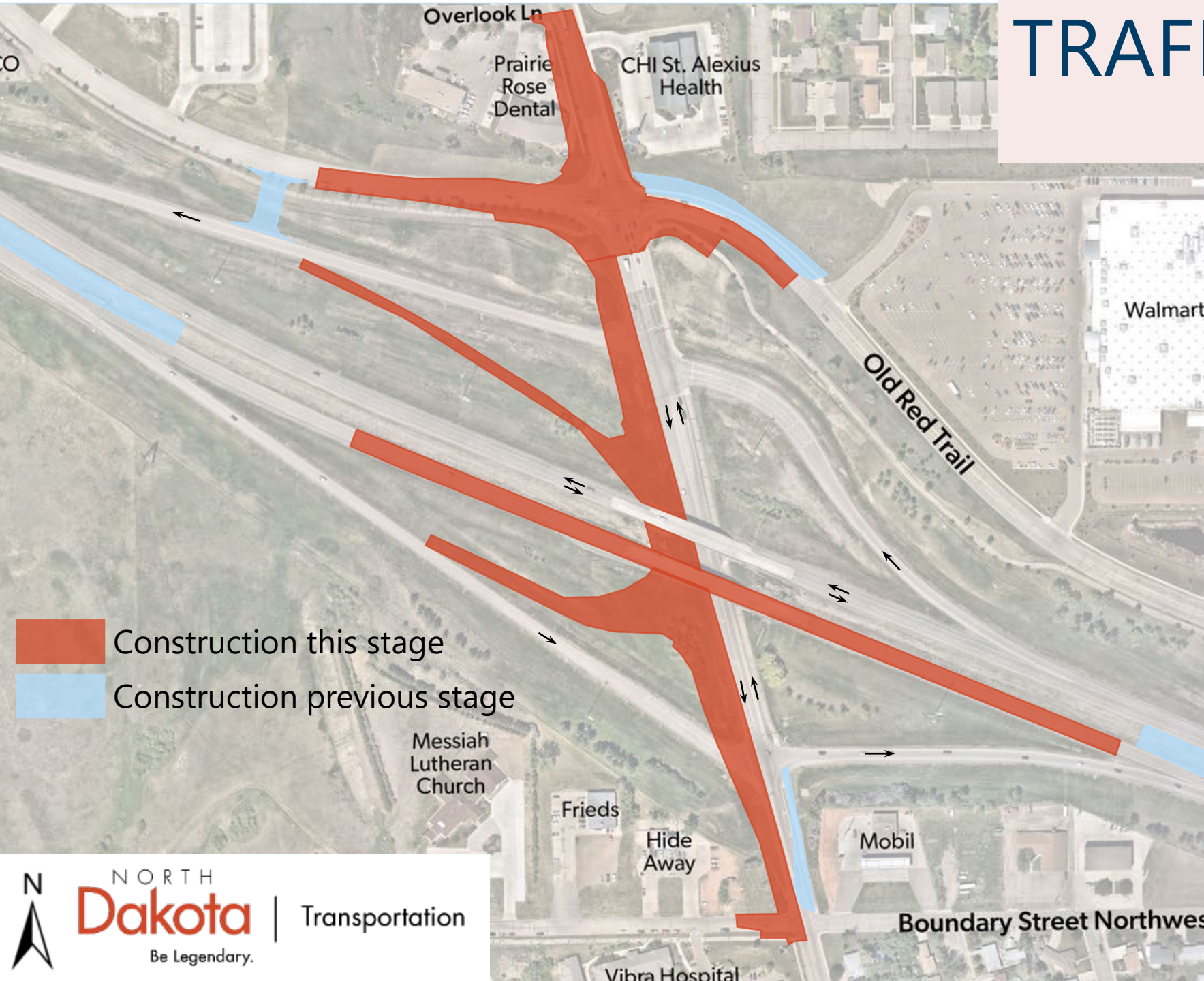


Early Construction (Fall)



- ### ANTICIPATED TRAFFIC
- All roadways remain open to traffic in current pattern.
 - I-94 (one lane each direction) to build crossovers.
 - Pedestrian access to be maintained during construction.
- ### ANTICIPATED IMPACTS
- Short term impacts to vehicular and pedestrian traffic during work hours.
 - Temporary widenings and bypass to will be constructed using lane shifts and short-term closures.

TRAFFIC STAGING



ANTICIPATED TRAFFIC

- I-94 (one lane each direction).
- Sunset Drive maintained on existing roadway.
- Temporary widenings and bypass to maintain traffic.
- Pedestrian access to be maintained during construction when possible.

ANTICIPATED IMPACTS

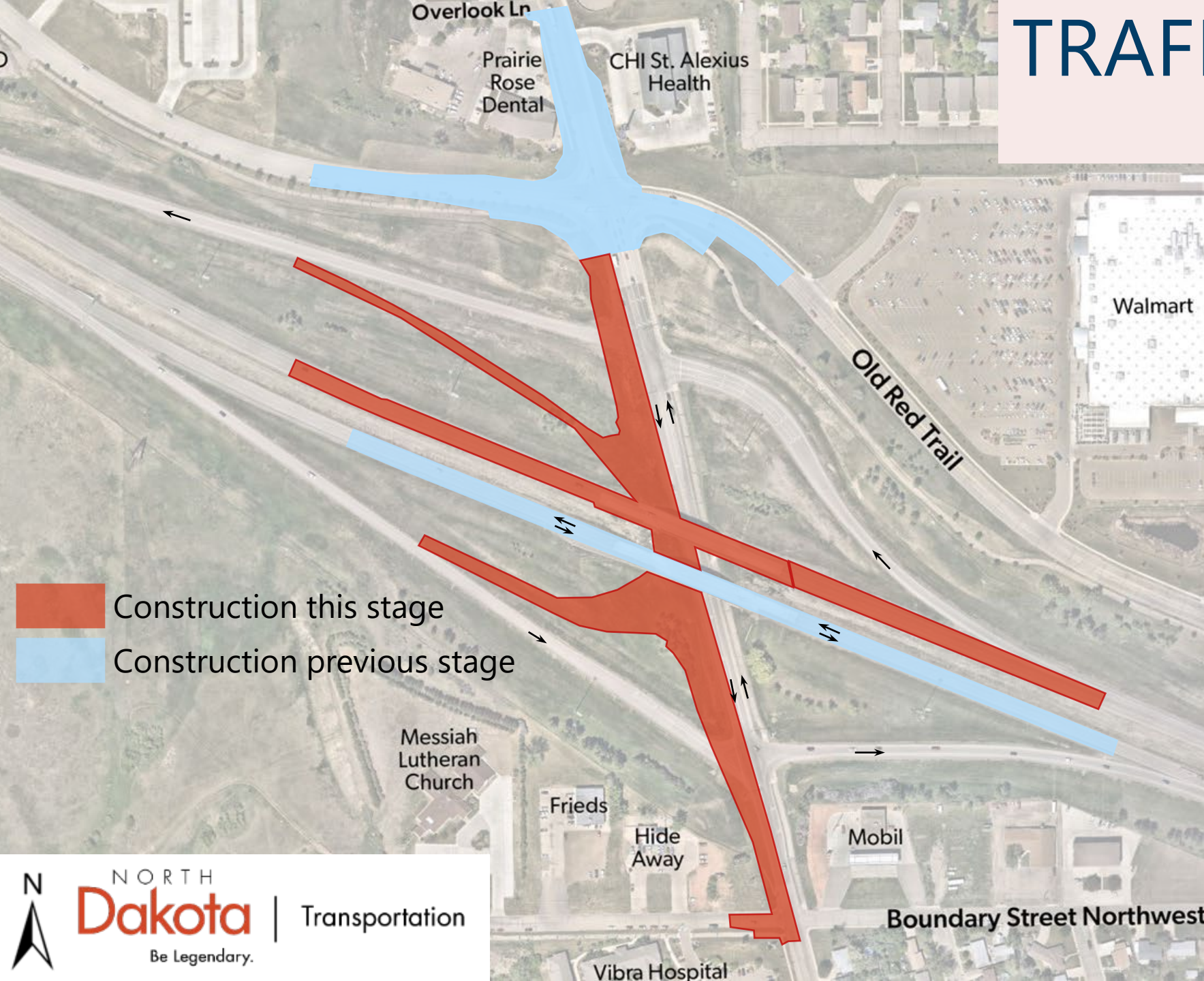
- Temporary night-time closures on Sunset Drive for bridge demolition and construction (Roadway and Trail)
- Closure of Trail between Old Red Trail and 27th Street for wall construction.
- Reroute of Old Red Trail eastbound traffic and the WB 94 On-Ramp.

Construction this stage

Construction previous stage



TRAFFIC STAGING

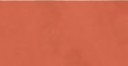
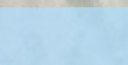


ANTICIPATED TRAFFIC

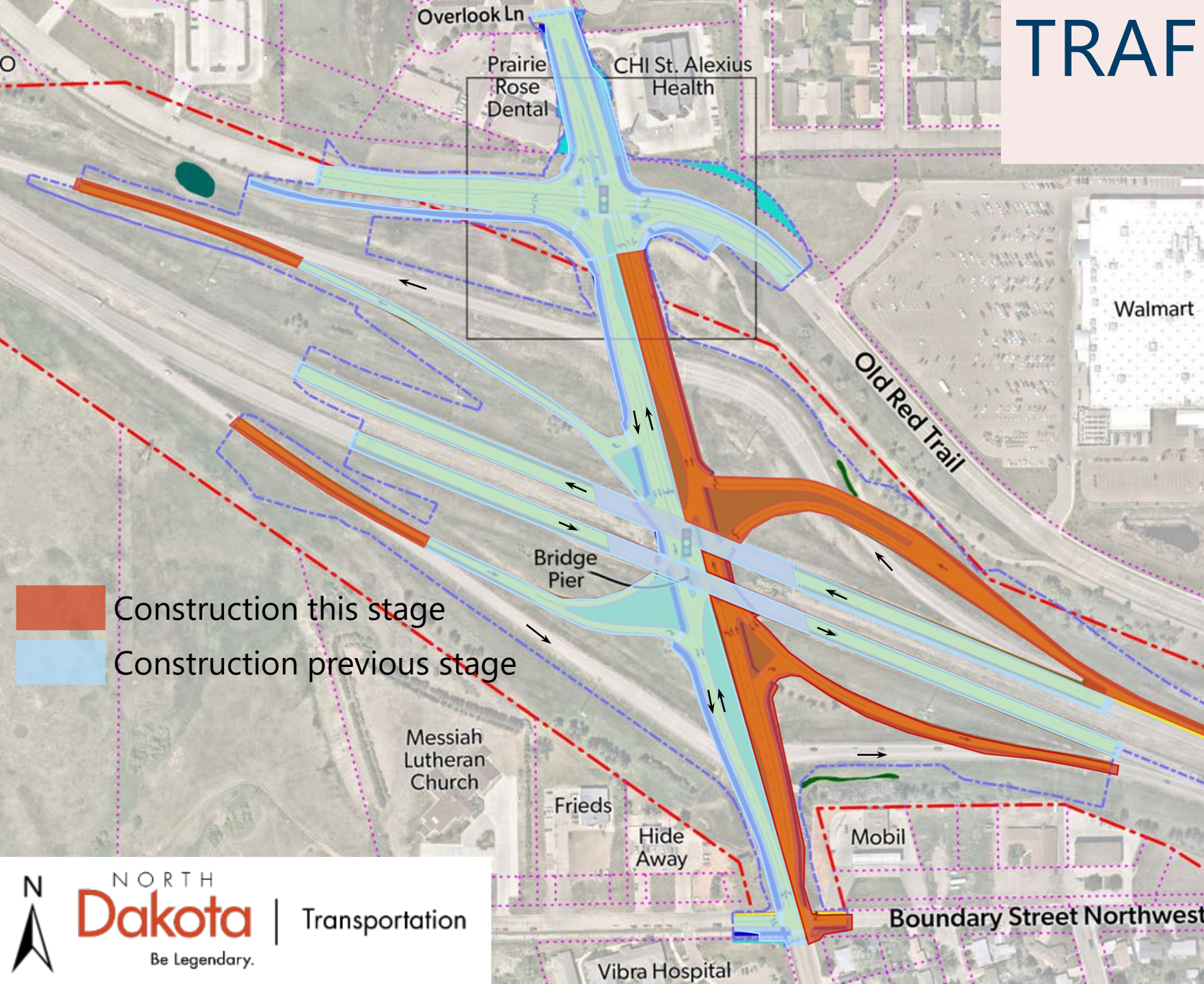
- I-94 (one lane each direction).
- Sunset Drive maintained on existing roadway, then shifted to proposed southbound roadway.
- Old Red Trail Intersection fully open to traffic
- Pedestrian access to be maintained during construction when possible.

ANTICIPATED IMPACTS

- Temporary night-time closures for Bridge demolition and construction on Sunset Drive (Roadway and Trail)

 Construction this stage
 Construction previous stage

TRAFFIC STAGING



ANTICIPATED TRAFFIC

- I-94 Ramps to be constructed.
- Sunset Drive maintained on proposed southbound roadway.
- Old Red Trail Intersection fully open to traffic
- Pedestrian access to be maintained during construction when possible.

ANTICIPATED IMPACTS

- Ramps maintained on temporary bypasses



NEXT STEPS

- Review of public input, finalize environmental document.
 - Please provide comments by November 22nd.
- Selection of alternative at Old Red Trail intersection
- Completion of project design and preparation of final plans for construction.

QUESTIONS / COMMENTS

Written Statements or Comments about this project may be submitted by **November 22nd** to:

Chris Rossmiller, Project Manager
Mead & Hunt, Inc.
600 South Second Street, Suite 120
Bismarck, ND 58504

Email: c.rossmiller@meadhunt.com

Note: ***“Public Input Meeting”*** in the email subject line

Pre-recorded Presentation:

Go to NDDOT website at www.dot.nd.gov
Click “Public Meetings” under Quick Links
Date November 7, 2024

[Sign in Sheet](#)

[NDDOT Title VI Public Participation Survey](#)

Thank you for attending the public information meeting regarding the proposed improvements to the Sunset Drive Interchange.