Project Purpose and Need
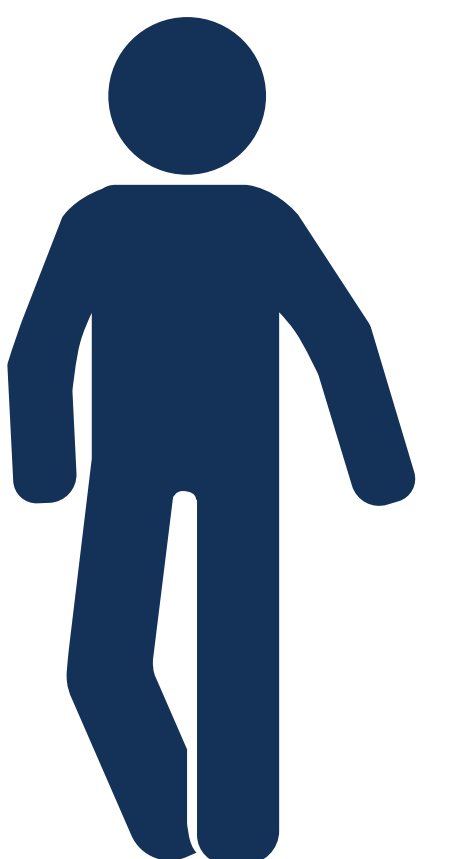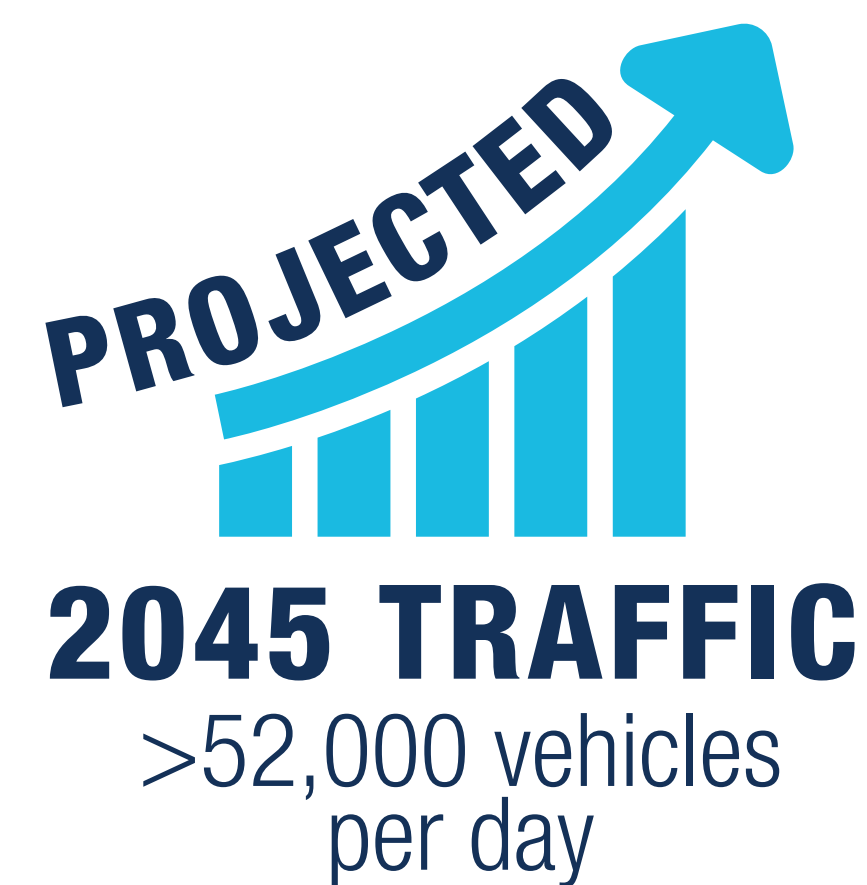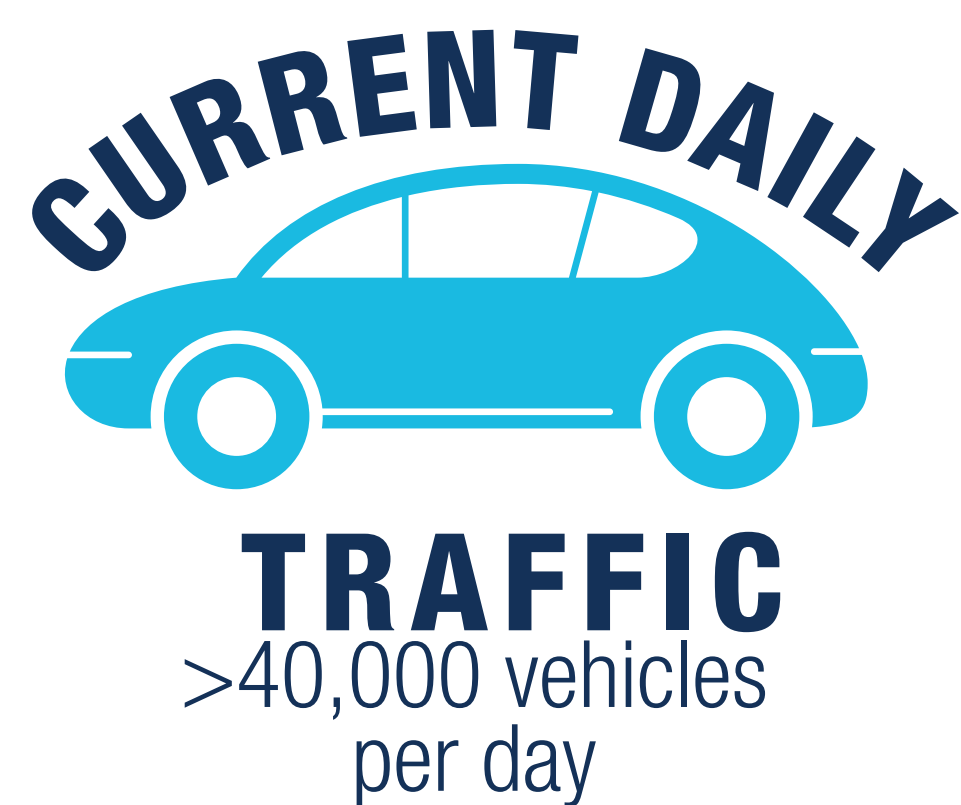
INTERSECTION IMPROVEMENTS ARE NECESSARY TO

- Improve safety and capacity

- Streamline traffic flow to meet current and future growth needs in this area

- Meet updated stormwater and drainage requirements

An additional goal of the project is provide an improved and expanded sidewalk and trail network that serves the community now and into the future.

SAFETY

CURRENT DAILY TRAFFIC
>40,000 vehicles per day

PROJECTED 2045 TRAFFIC
>52,000 vehicles per day

South 14th Street, Old Cheney Road, AND Warlick Boulevard Intersection Improvements

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ACCREDITED AGENCY APWA

FELSBURG HOLT & ULLEVIG

Design Overview

LEGEND

- ⬛ = Roadway
- ⬜ = Sidewalk/Trail
- 🟩 = Landscaping
- ▦ = Truck Apron
- 🟦 = Box Culvert

Not to Scale

NORTH

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE

South 14th Street,
Old Cheney Road,
AND Warlick Boulevard
Intersection Improvements

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Connector Road Design

NORTH

Old Cheney Road

STOP STOP STOP

Old Cheney Road

STOP

STOP

STOP

Warlick Boulevard

LEGEND

▬	= Roadway
▬	= Sidewalk/Trail
▬	= Landscaping
▦	= Truck Apron
▬	= Box Culvert

Not to Scale

PRELIMINARY PLAN
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Combined Intersection Design
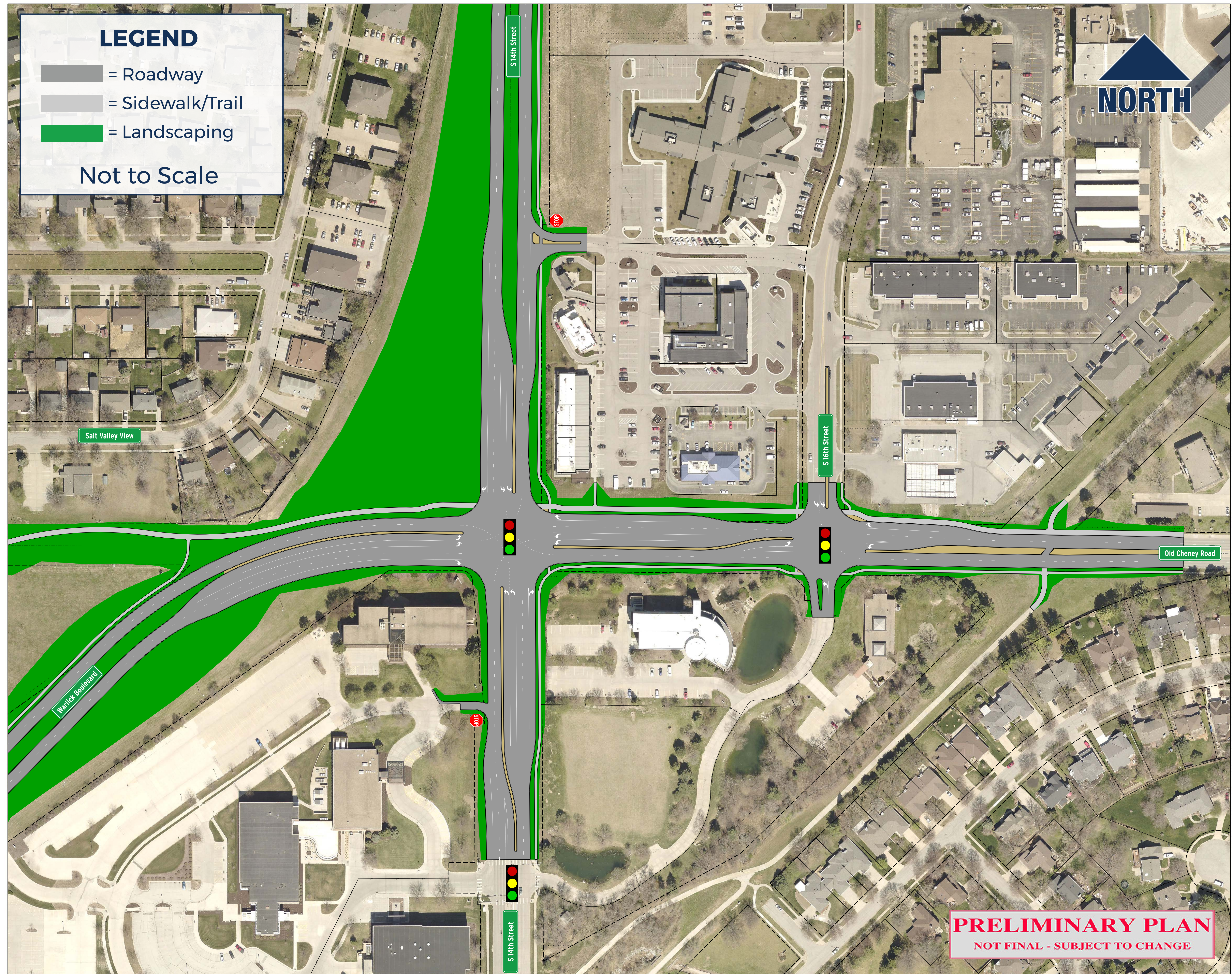
LEGEND

= Roadway

= Sidewalk/Trail

= Landscaping

Not to Scale

NORTH

S 14th Street

S 16th Street

Salt Valley View

Old Cheney Road

Warlick Boulevard

S 14th Street

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE

Project Timeline

CONNECTOR ROAD

WE ARE HERE
JUNE 30

Public Information Meeting

Utility Relocation

Right-of-Way Process

Final Design

Construction

Construction Complete

2022 2023 2024 2025

COMBINED INTERSECTION

Alternatives Analysis

Preliminary Design

Final Design

Public Information Meeting

Right-of-Way Process

Construction

Construction Complete

WE ARE HERE
JUNE 30

PRELIMINARY PLAN
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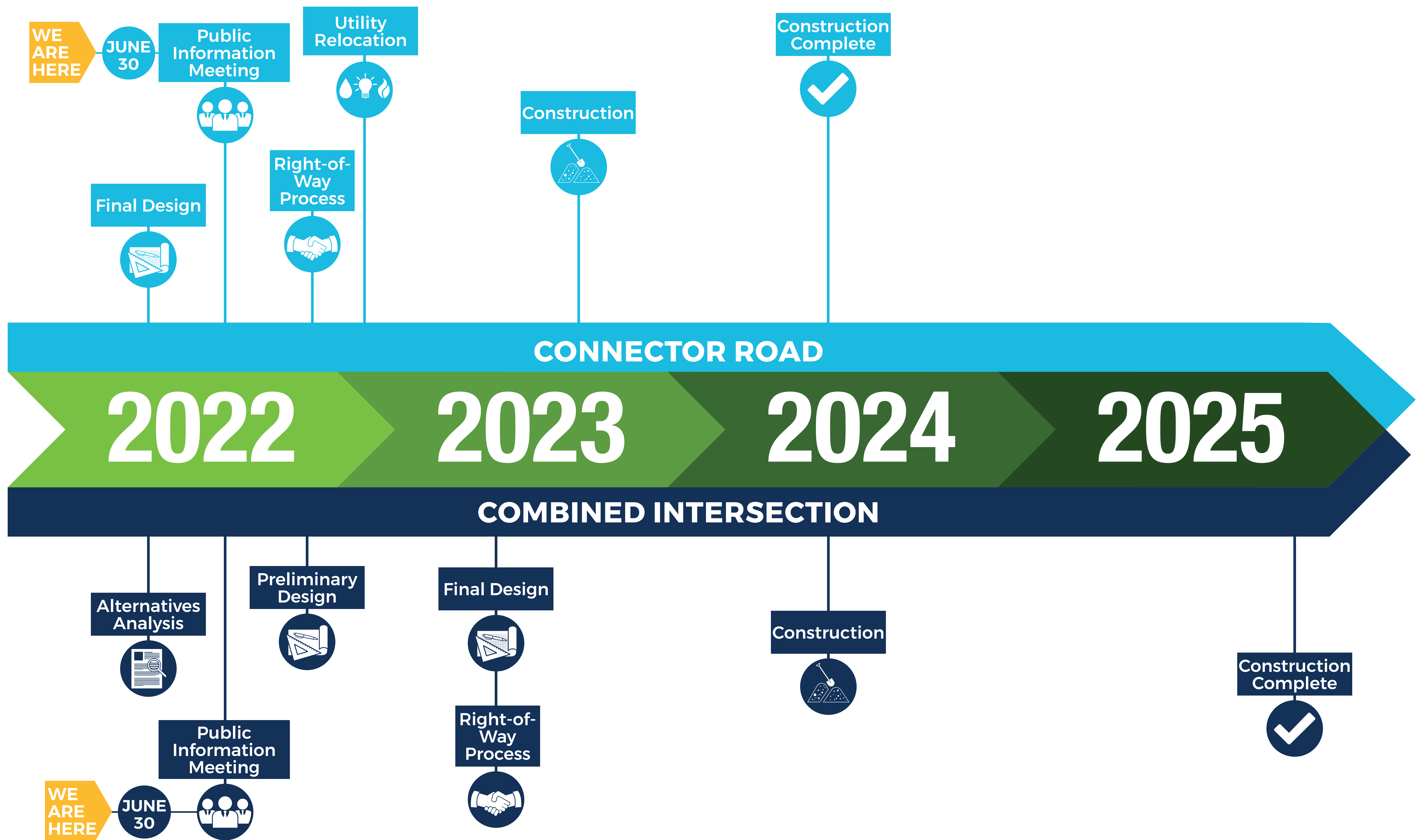
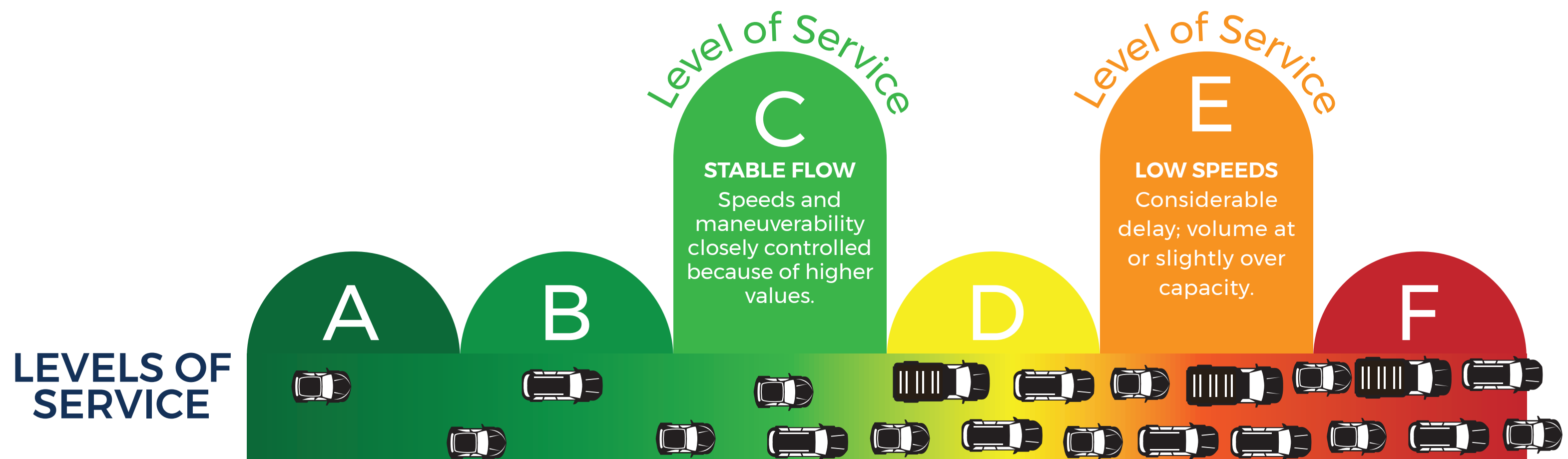# Existing Traffic Operations

S. 14th Street and Old Cheney Road
serves over 40,000 vehicles per day.

S. 14th Street and Old Cheney Road
currently operates at Level of Service E
during the AM and PM peak hours.

Warlick Boulevard and Old Cheney Road
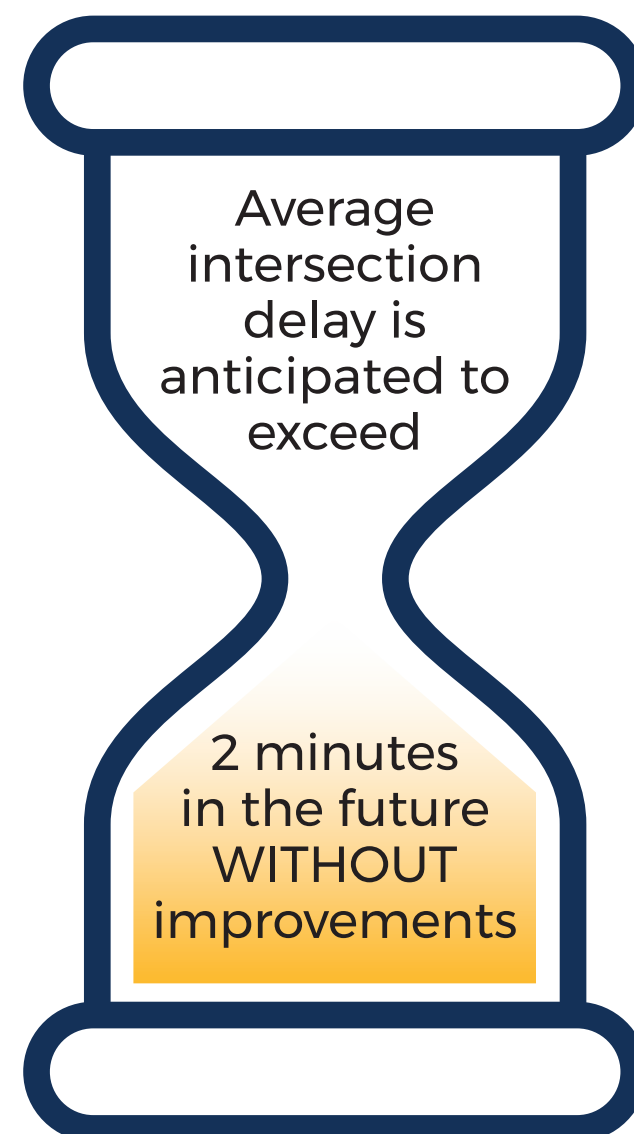currently operates at Level of Service C
during the AM and PM peak hours.

Level of Service

C

STABLE FLOW
Speeds and maneuverability closely controlled because of higher values.

Level of Service

E

LOW SPEEDS
Considerable delay; volume at or slightly over capacity.

LEVELS OF SERVICE

A B C D E F

South 14th Street, Old Cheney Road, AND Warlick Boulevard Intersection Improvements

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Future Traffic Conditions

Traffic volumes anticipated to increase by **30%**

Average intersection delay is anticipated to exceed

2 minutes in the future WITHOUT improvements

With proposed improvements, delay is expected to decrease by **56%**
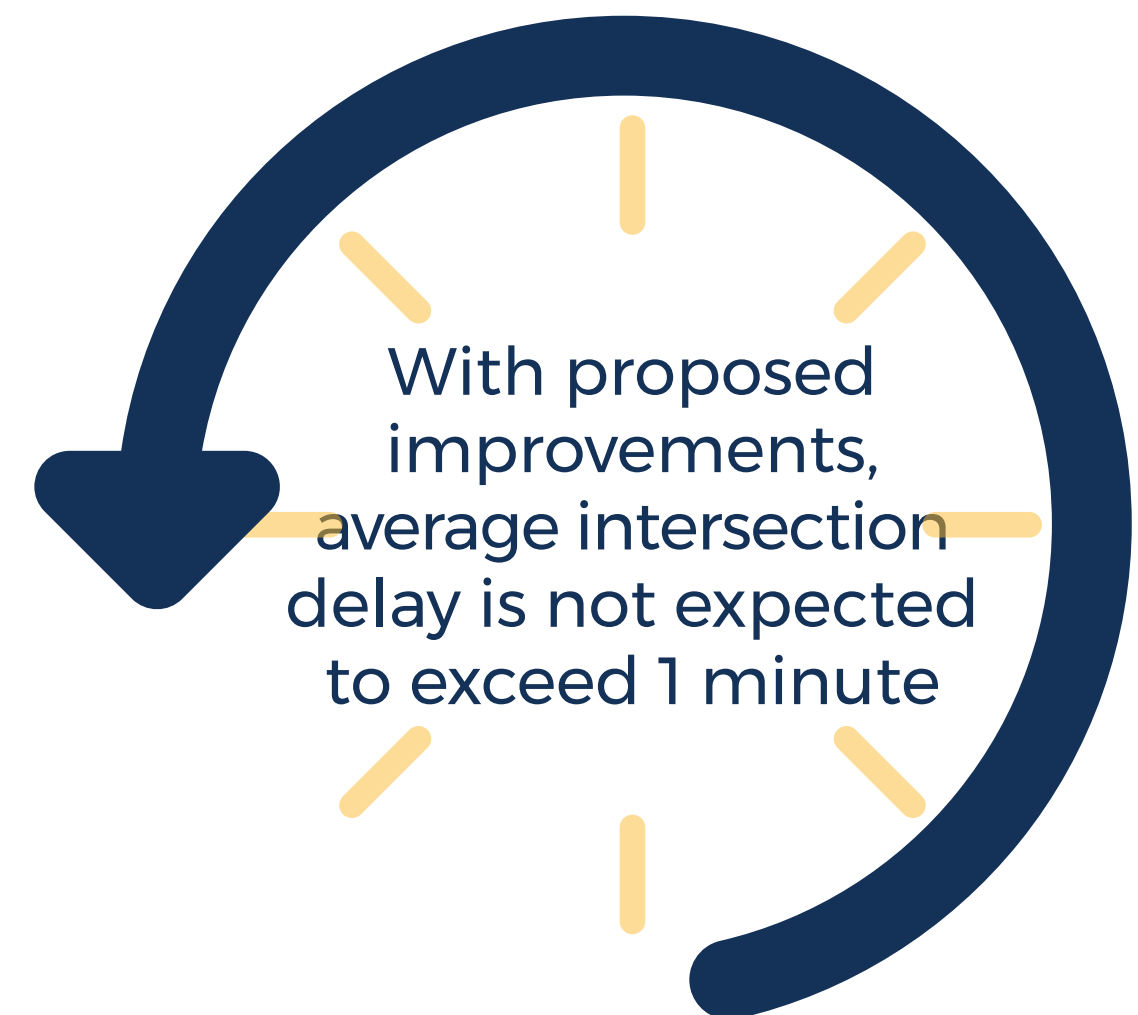
With proposed improvements, average intersection delay is not expected to exceed 1 minute

Environmental & Water Resources

The previous environmental analysis of the project area will be reviewed and additional evaluations may be conducted to help avoid or minimize potential environmental impacts.

COMPLETED STUDIES

- ✓ Cultural Resources Investigation
- ✓ Floodplain Study
- ✓ Habitat & Endangered Species Review
- ✓ Parks & Public Land Review
- ✓ Socioeconomic Review
- ✓ Traffic Noise Study
- ✓ Water Resources Analysis
- ✓ Wetland Delineation & Permitting

NORTH

LEGEND

- ---- = Wetland
- —— = Stream
- ▬ = Storm Water Feature
- ▭ = Study Area

Not to Scale

PRELIMINARY PLAN
NOT FINAL - SUBJECT TO CHANGE

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