

Public Meeting

US 380 Denton County Feasibility Study

US 380 from I-35 to the Collin County Line

November 30, 2021

Denton County, Texas





Websites

www.keepitmovingdallas.com/US380DentonPM3

Public Meeting Website

www.380dentonstudy.com

Direct site link to the posted materials

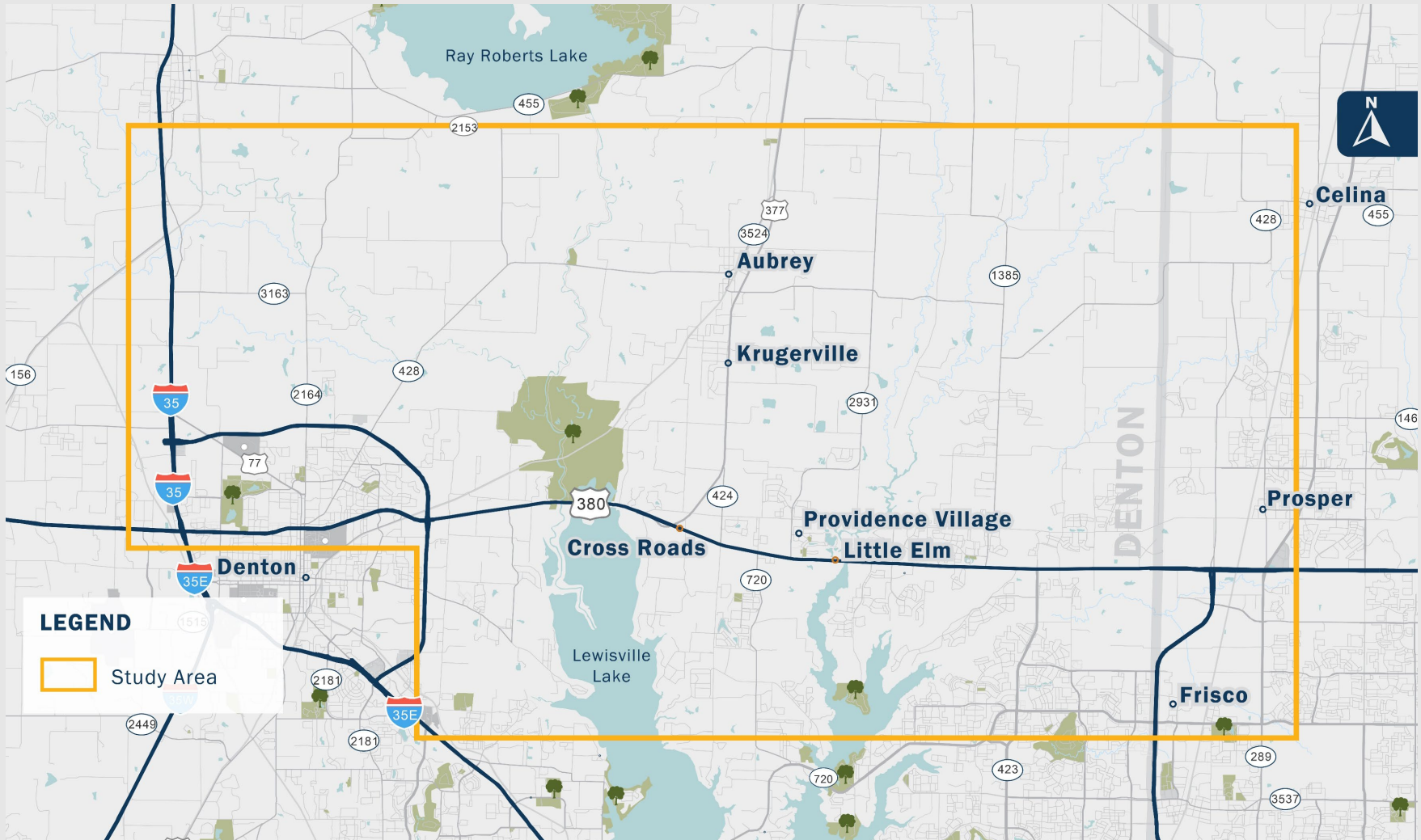
www.Drive380.com

Feasibility Study Website



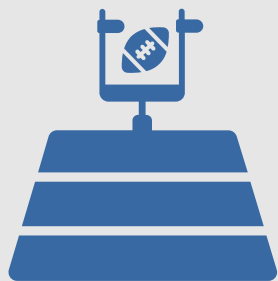
US 380 Denton County Feasibility Study

PROJECT LIMITS: From I-35 to the Collin County Line **COUNTY:** Denton



20,000+

Over 20,000 acres of farmland, ranch land, timberland, and vacant land has been converted to single family or commercial use in the study area between 2015 and 2021.



Equivalent to
15,000
football fields

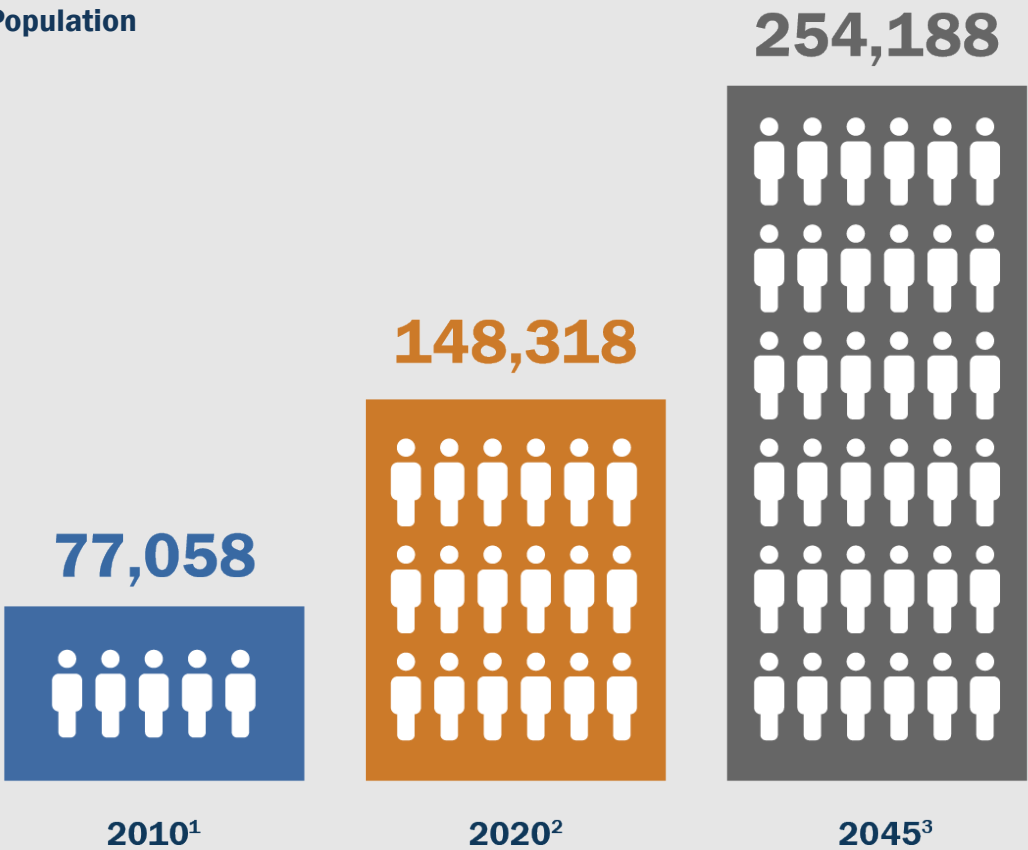
Study Area City Sizes for Comparison

Denton	63,000 acres
Little Elm	14,000 acres
Frisco	44,000 acres
Prosper	16,000 acres
Celina	20,000 acres

Change in Study Area Population



Study Area Population

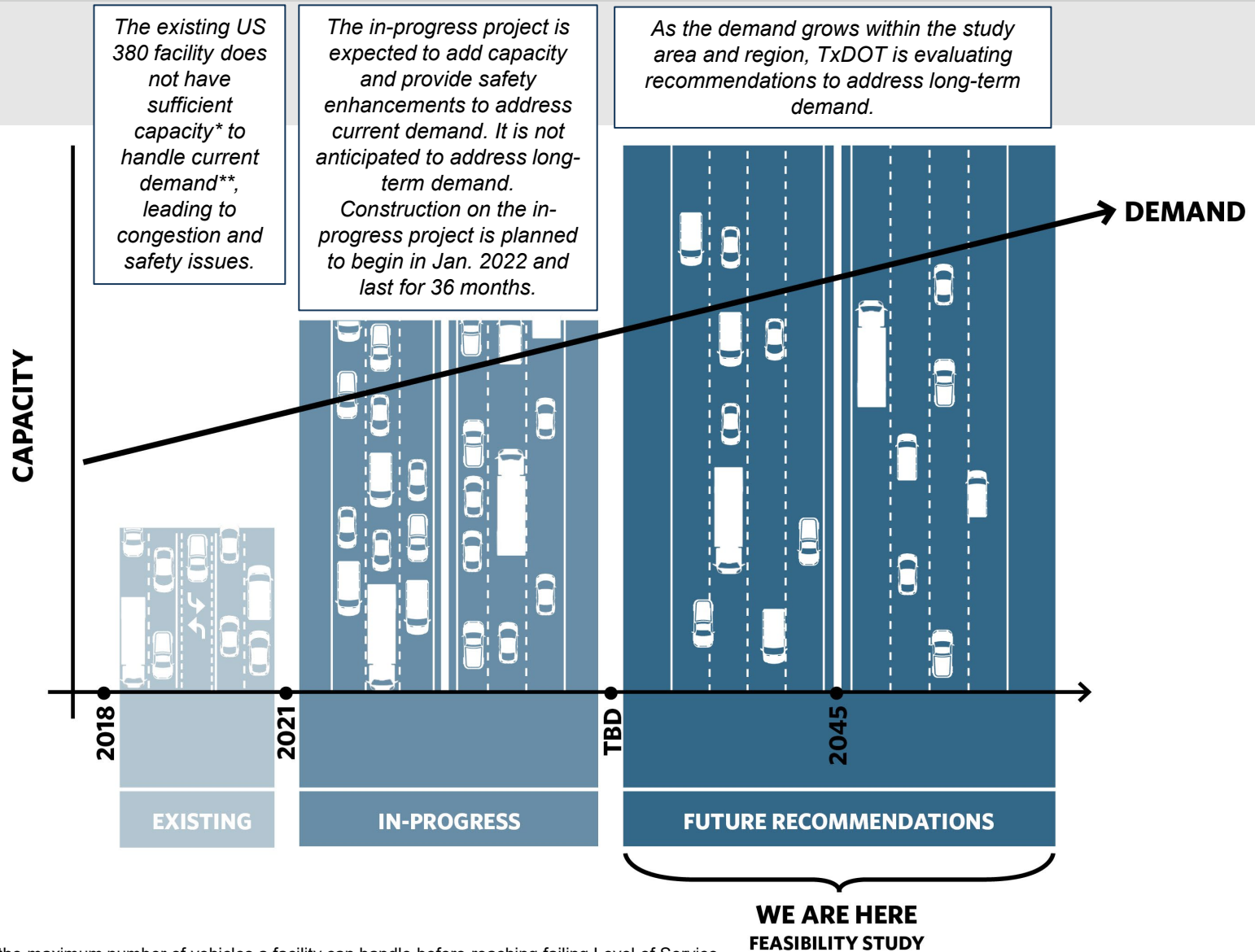


¹ Source: 2010 Census ² Source: 2020 Census ³Source: North Central Texas Council of Governments



92%

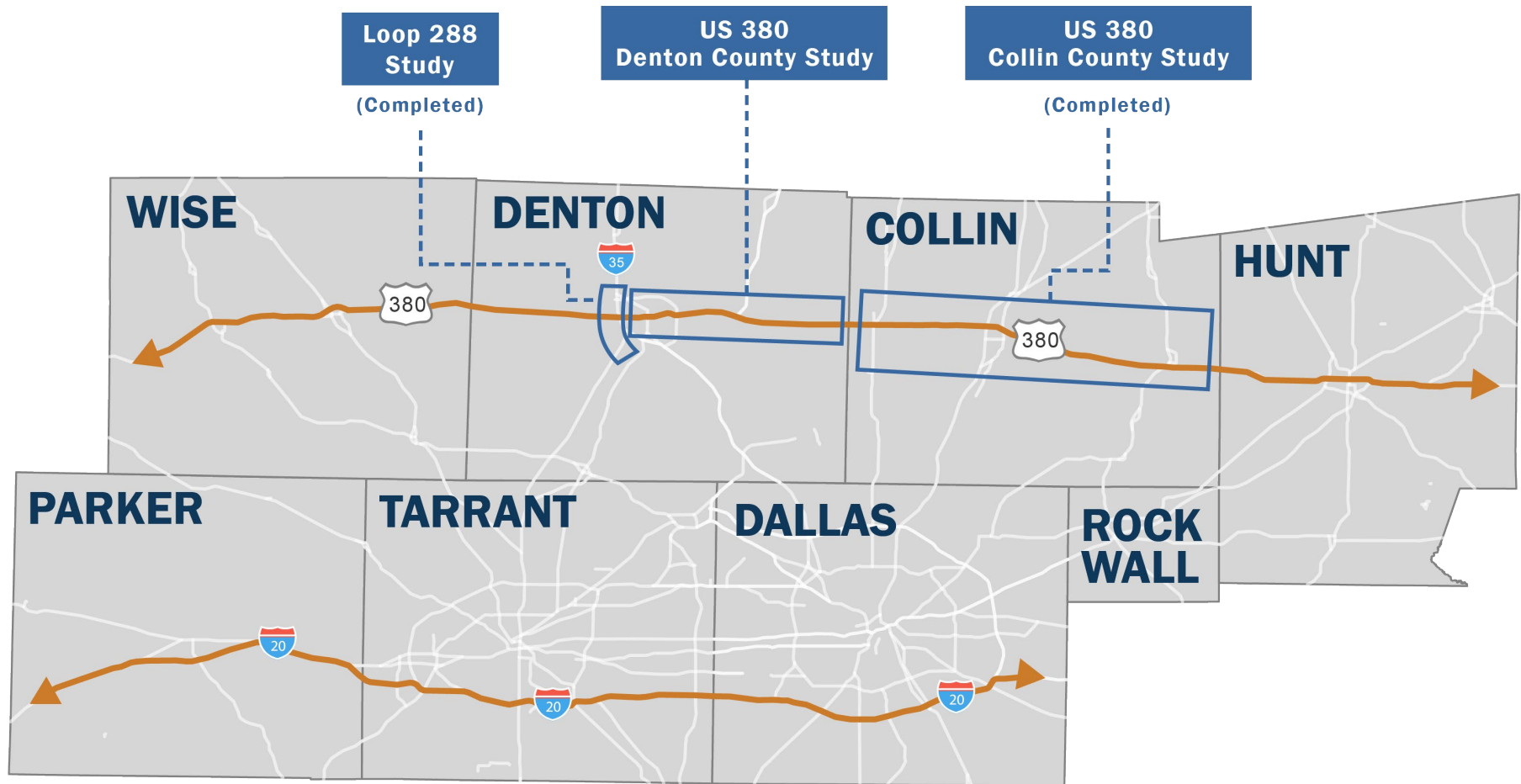
Population increase between 2010 - 2020



*Capacity is defined as the maximum number of vehicles a facility can handle before reaching failing Level of Service

**Demand is defined as the number of users that want to travel from one point to another

- US 380 provides vital connectivity between Collin and Denton counties, similar to I-20 for Dallas and Tarrant counties. Currently, three major studies are working together to improve this connectivity. US 380 Denton County Feasibility Study and two recently completed studies: the Loop 288 Study in Denton County and the US 380 Collin County Feasibility Study.



This study is anticipated to recommend a solution that has both regional and local benefits.

Regional



Provide regional connectivity by providing an East-West connection serving Collin and Denton Counties

Further enhance safety as the region grows

Local



Provide reliable travel time and minimize congestion

Enhance driver expectations for travel on US 380

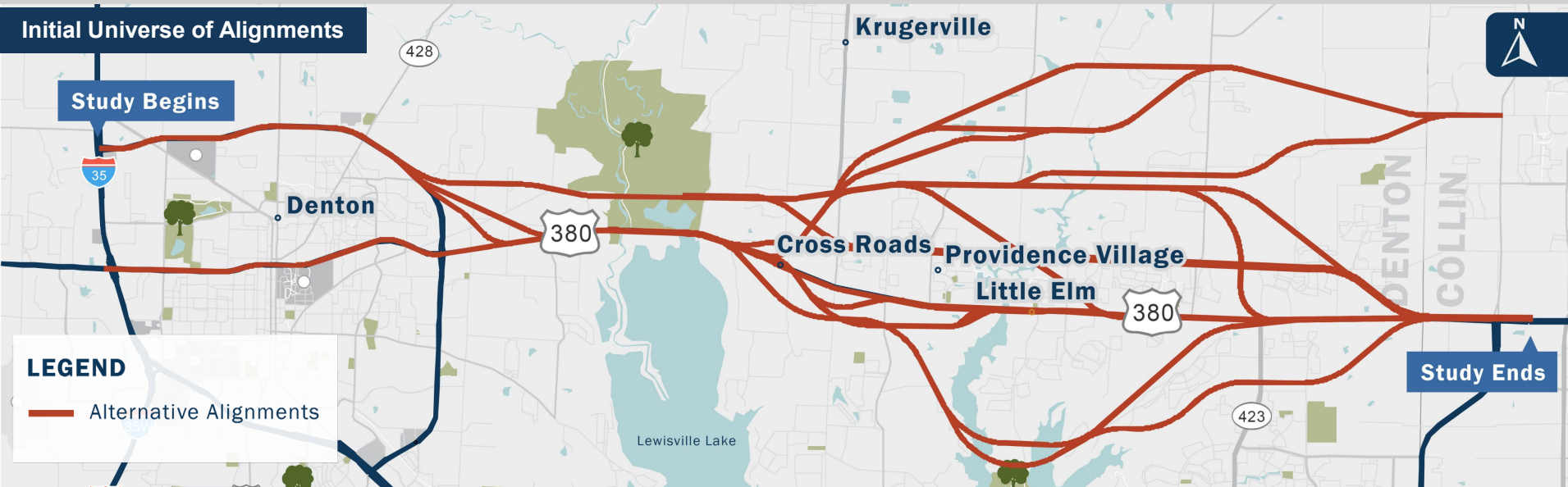
Minimize human and environmental impacts

Provide roadway network reliability

October 2018 to Present: Input and Outreach Overview



Public Meeting #1: Initial Universe of Alignments and Feedback



Public Meeting #1 Feedback

Public Meeting #1 was held in January 2019 and the public provided input on their concerns about the existing US 380 alignments as well as potential improvements. Over 1,000 comments were received, including 901 surveys completed.

Biggest concern?



43%
Congestion



41%
Safety

Solution?



51%
Improve Existing



21%
Controlled Access Facility

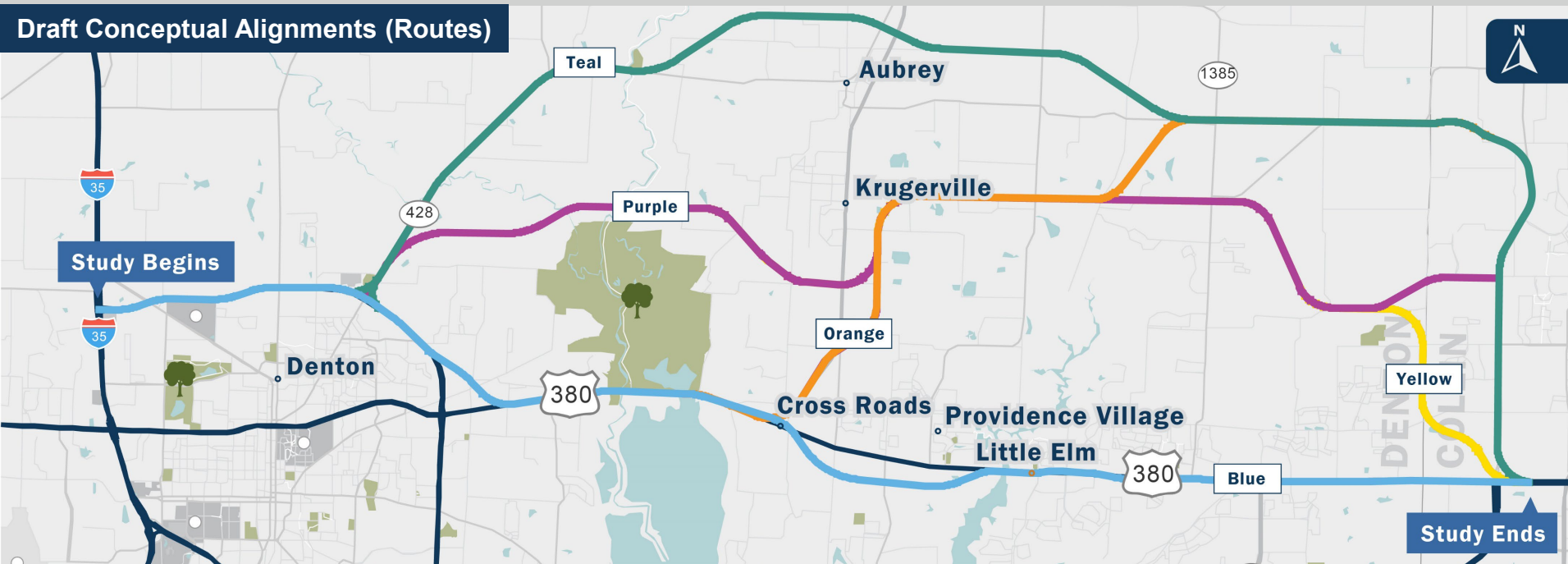
Proposed Alignment?

30%
Existing

14%
North of Existing

28%
Solution Not Defined

Public Meeting #2: Draft Conceptual Alignments and Feedback



Public Meeting #2 Feedback

Public Meeting #2 was held in December 2020 and the public provided input on the draft conceptual alignments that were presented in the virtual public meeting. Over 400 surveys were completed and over 300 comments were received during the public comment period.

TOP 3 CONCERNS:

Environmental
Impacts

Congestion

























Safety






72% of survey responses prefer the Blue alignment

68% of survey responses prefer two freeways for the study area and consider the Blue and Teal conceptual alignments the most necessary.

SUMMARY OF EVALUATION CRITERIA AND RECOMMENDATION(S)



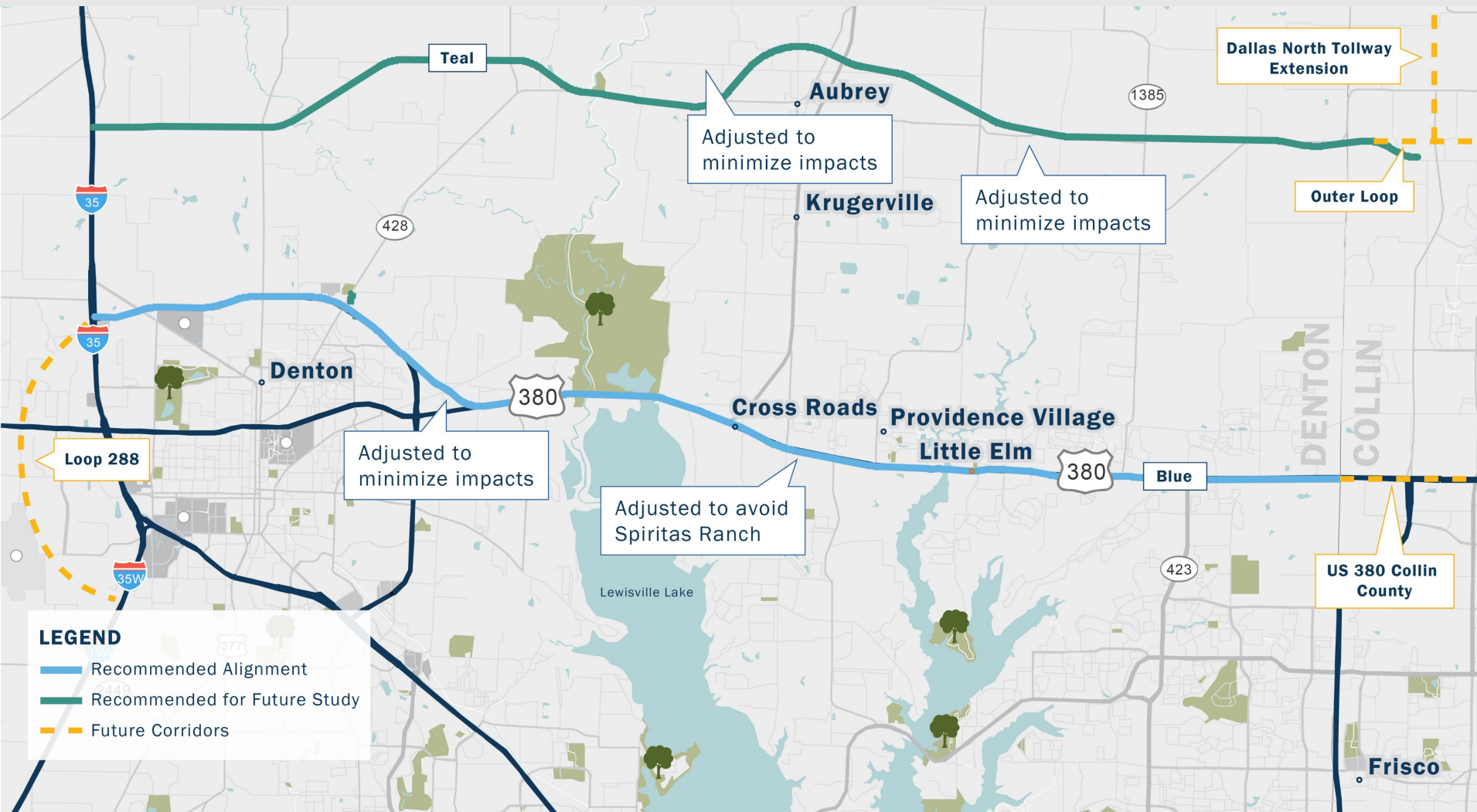
		Recommended Alignment				Recommended for Further Study	
Alternative Criteria	No Build	Blue	Yellow	Purple	Orange	Teal	
 Addresses Engineering/Mobility	N/A						
 Minimize Environmental Impacts	N/A						
 Minimize Economics Impacts	N/A						
 Overall	N/A						

Criteria Rating Scale				
Does not achieve criteria	Sometimes meets criteria	Partially meets criteria	Mostly meets criteria	Highly meets criteria
				

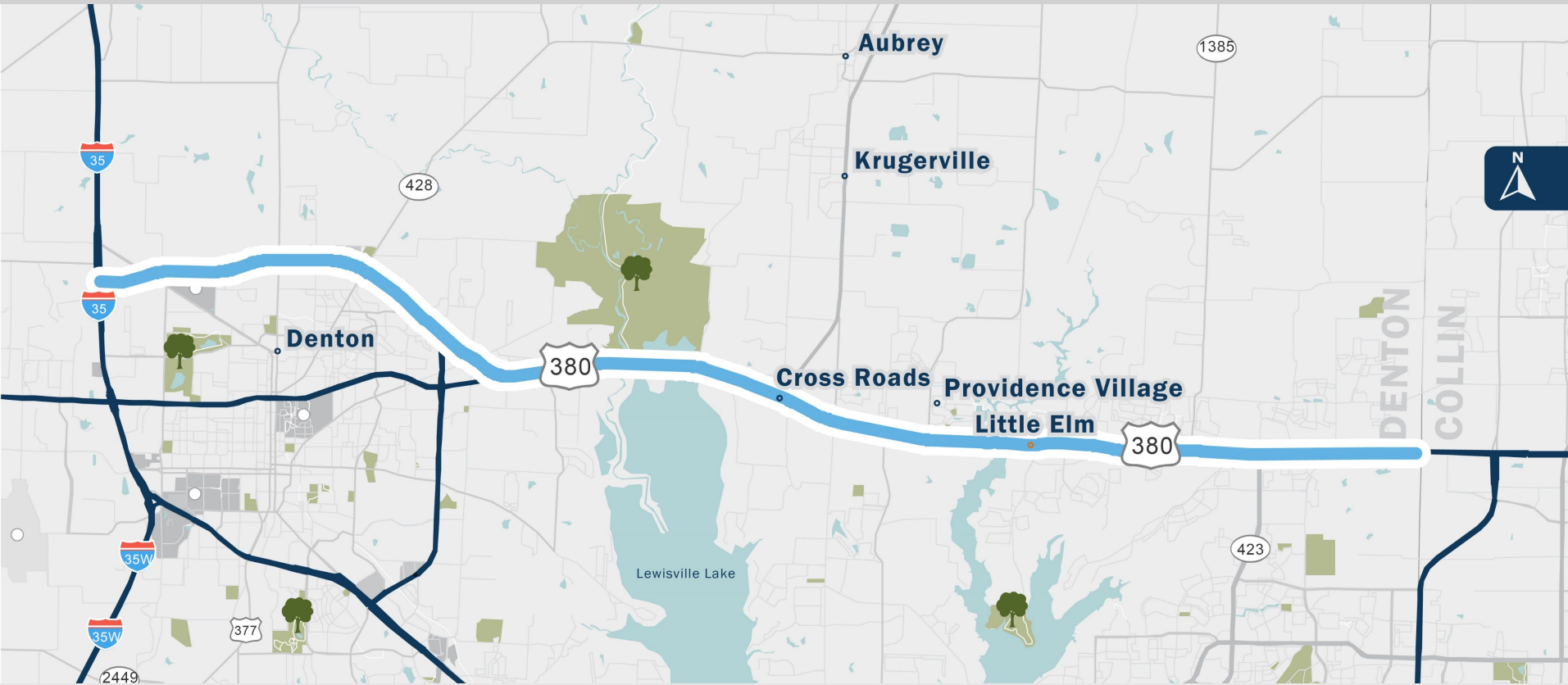
Study Recommendation – Further Evaluation



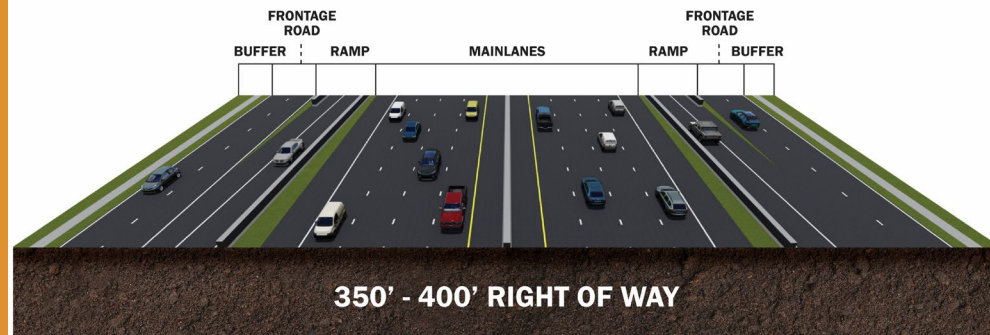
The Blue alignment is TxDOT's recommended alignment. The Teal alignment is being recommended for future study as both the Blue and Teal alignments are important to development in Denton and Collin counties.



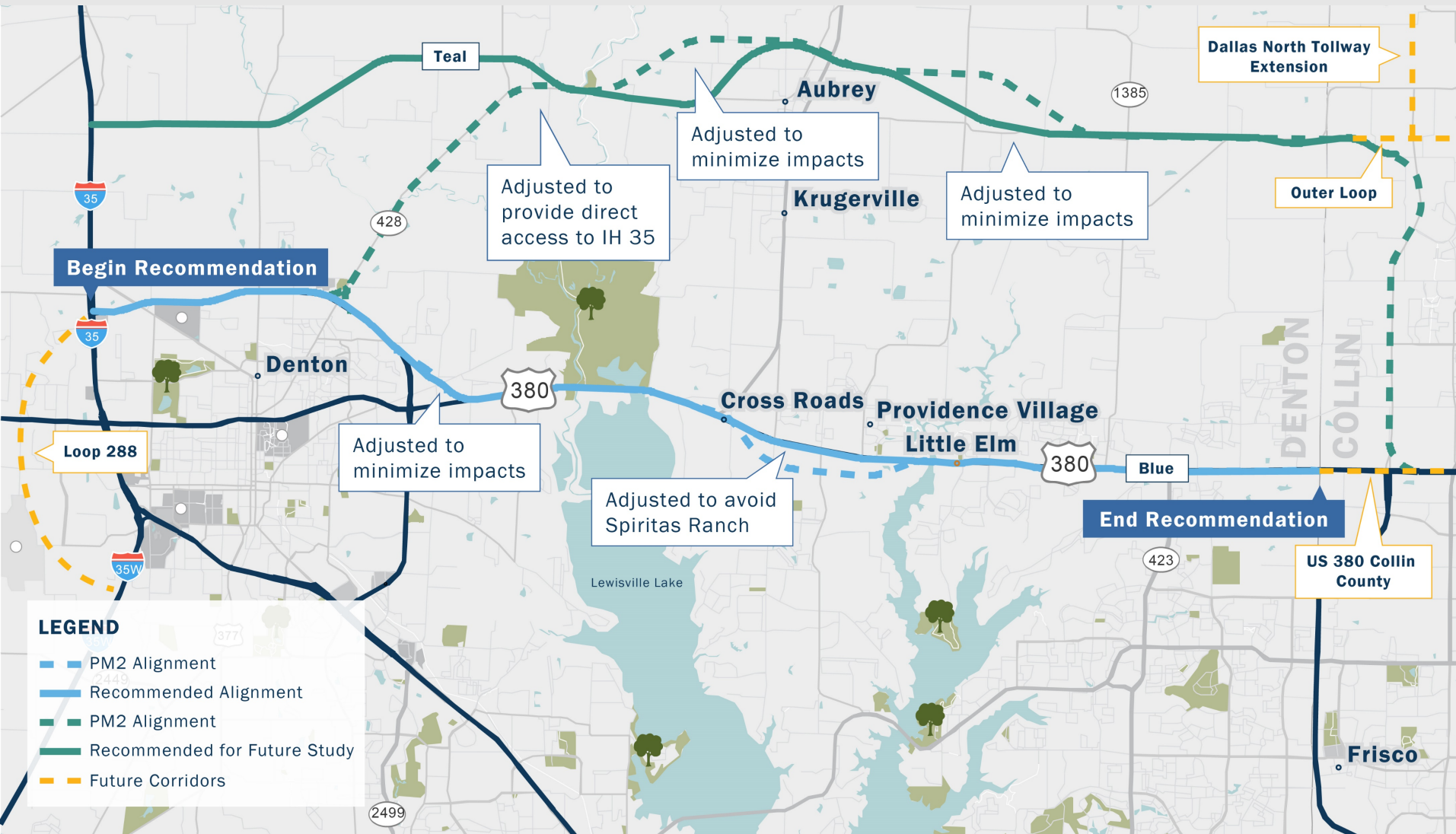
Study Recommendation



- 6-8 mainlanes and 4-6 frontage road lanes
- Accommodates 2045 travel demand volume forecast with acceptable level of service for the mainlanes
- Enhanced safety and limited access
- 350'-400' right-of-way footprint



Study Recommendations



SUMMARY OF REGIONAL (STUDY AREA) ANNUAL DELAY COMPARISON

ALTERNATIVES	ESTIMATED ANNUAL DELAY (HOURS)	DECREASE IN ANNUAL DELAY
2045 (IN-PROGRESS)	106,098,500	N/A
2045 (BLUE)	92,626,500	13%
2045 (PURPLE/YELLOW)	96,244,400	9%
2045 (ORANGE)*	96,244,400	10%
2045 (TEAL)	95,578,300	10%

**ALL BUILD ALTERNATIVES SIGNIFICANTLY REDUCE
REGIONAL DELAY**

Note: 2045 Delay hours were derived from alternative Travel Demand Model scenarios produced by NCTCOG. These models did not alter the demographics or trip tables from the approved Mobility 2045 Travel Demand Model.

* Orange alternative delay hours were assumed to be similar to Teal alternative

SUMMARY OF US 380 CORRIDOR FUTURE (2045) DELAY COMPARISON

ALTERNATIVES	ANNUAL HOURS OF DELAY	PERCENT INCREASE IN CONGESTION
2020 (EXISTING)*	1,346,500	-
2045 (IN-PROGRESS)	4,073,000	202%
2045 (BLUE)	1,513,700	12%
2045 (PURPLE/YELLOW)	3,142,600	133%
2045 (ORANGE)**	2,899,500	115%
2045 (TEAL)	2,899,500	115%

Note: 2045 Delay hours were derived from alternative Travel Demand Model scenarios produced by NCTCOG. These models did not alter the demographics or trip tables from the approved Mobility 2045 Travel Demand Model.

*Existing is based on TTI's 100 Most Congested Corridors

** Orange alternative delay hours were assumed to be similar to Teal alternative

Next Steps (subject to change)



2 types of studies that would be considered for this project include:

Environmental Assessment (EA)

- Along existing US 380
- No significant impacts expected
- Typically 1 to 2 years

OR

Environmental Impact Statement (EIS)

- New location
- Significant impacts expected
- Typically 2 to 4 years

Other viable alignments or changes to alignments can still be considered during environmental studies

*Environmental studies must be compliant with the National Environmental Policy Act.

Loop 288/US 380 Connection

US 380 Freeway

Please submit your comments regarding the design modifications presented in this Public Meeting by using any of the four methods below by our deadline,
December 17, 2021.



Online Comment

Click the
provided link
on the website



Email Us

Stephen.Endres@txdot.gov



Mail-in Comments

TxDOT Dallas District Office
Attn: Stephen Endres, P.E.
4777 E. Highway 80
Mesquite, TX 75150



Leave a Voicemail

(833) 933-0439

For general questions about the presentation or the project, please contact
TxDOT Project Manager, Stephen Endres, P.E. at Stephen.Endres@txdot.gov.

Thank you!

