



# US 380 FEASIBILITY STUDY

Collin County

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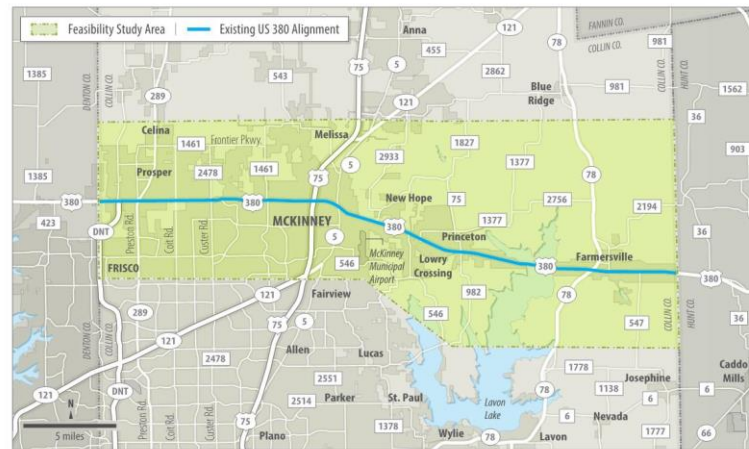
April 26, 2018

# WELCOME

## US 380 Collin County Feasibility Study

**DALLAS DISTRICT  
PUBLIC MEETING**

**APRIL 26 – MAY 1 –  
MAY 3, 2018  
6:00 P.M - 8:00 P.M.**



*The environmental review, consultation, and other actions required by applicable Federal environmental laws for this project is being, or has been, carried out by TxDOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated December 16, 2014, and executed by FHWA and TxDOT.*



***Collin County  
Is Growing  
And Thriving***



**24%**

**INCREASE IN  
COLLIN COUNTY  
POPULATION FROM  
2010 – 2017**

"QuickFacts Collin County, Texas" US Census Bureau,  
1 July 2017. Web. 23 April 2018.

**166%**

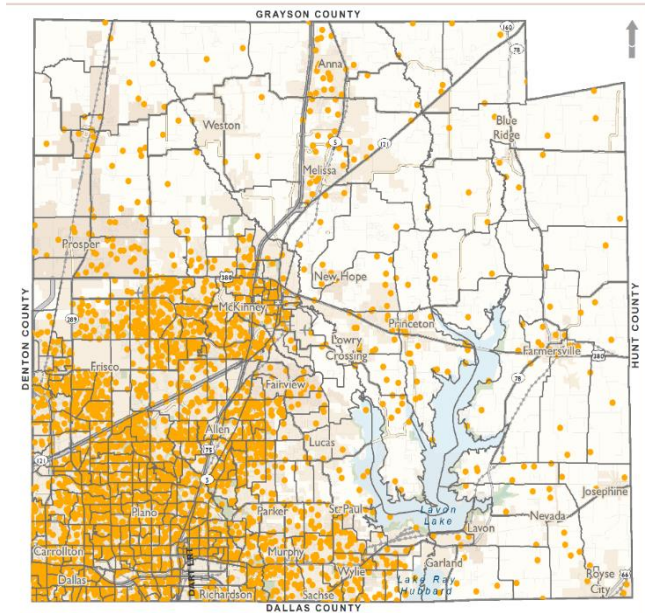
**PROJECTED INCREASE  
IN COLLIN COUNTY  
POPULATION GROWTH FROM  
2018 – 2040\***

"2014 Texas Population Projections by Migration Scenario Data" Texas  
State Demographer, WEB. 23 April 2018.  
\*Aggressive scenario based on observed Collin County growth from 2000-  
2010.

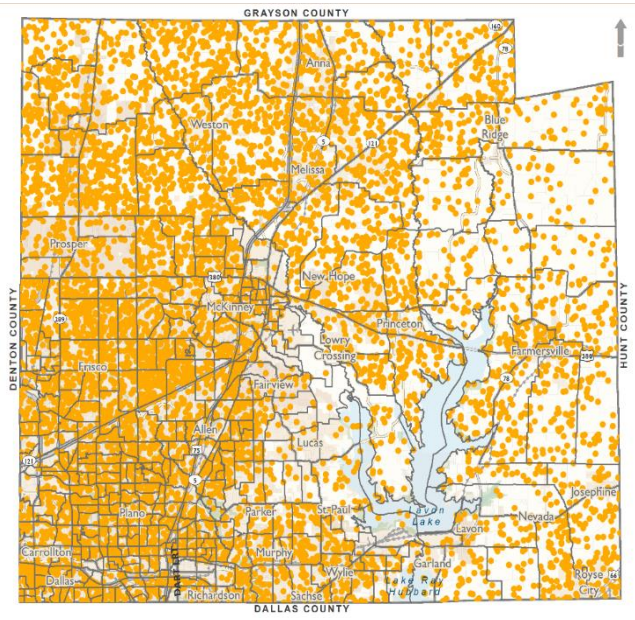
***"The Dallas-Fort Worth-Arlington metro area added more people between 2015 and 2016 than any other metro in the country." - Texas State Demographer***

# Population Growth

2012



PROJECTED  
BUILD OUT



● 1 Dot = 250 Persons

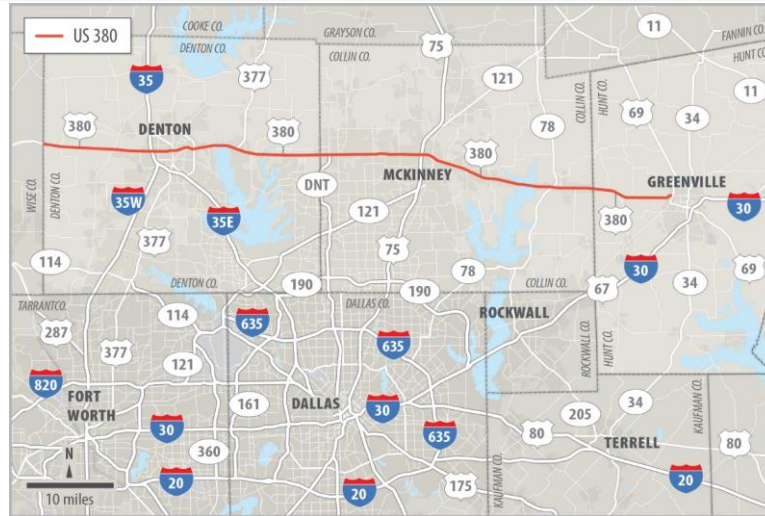
"Mobility Plan Update", Collin County, 2016



PLANNING FOR THE FUTURE

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# US 380 TODAY



## Existing Conditions

4 to 6 lane arterial

Rated in engineering terms as an F level of service (the worst)

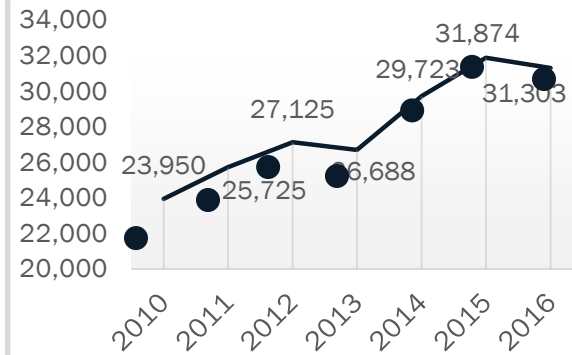
Traffic over capacity during rush hours

Right of way between 130' wide and 180' wide

# Traffic Increases on US 380

Location	Percent Increase (2010-2016)
Princeton	50%
West McKinney	45%
East McKinney	34%
Frisco/Prosper	14%
Farmersville	14%

## Average Daily Traffic Count



**Traffic volumes across US 380 in Collin County grew by 30% between 2010 and 2016.**

Source: TxDOT Historical AADT Counts, 2017

# Few Planned Improvements for US 380

## Prosper - Frisco

- Widen from 4 to 6 lanes and add access roads
  - Denton County line to east of SH 289
  - Year Open: 2018
- New interchanges along US 380 at DNT & SH 289
  - Year Open: 2028

## McKinney - Princeton

- Widen from 4 to 6 lanes with a raised median
  - Airport Road to 4<sup>th</sup> Street
  - Completion Date TBD

## Princeton

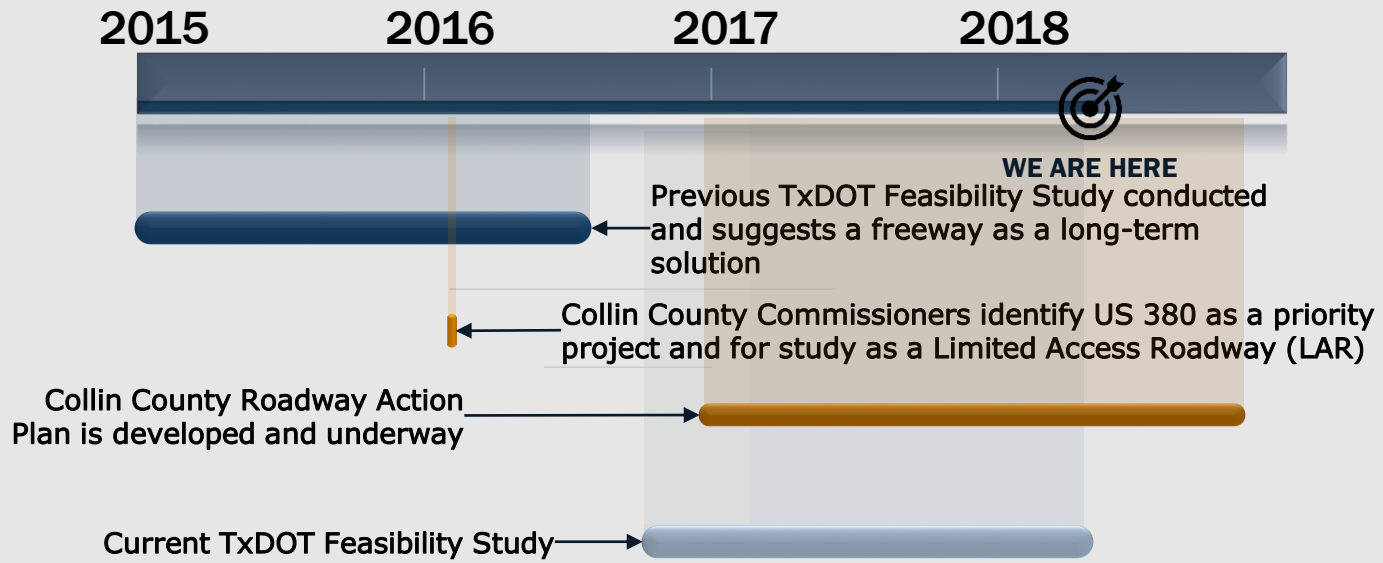
- Add raised median
  - 4<sup>th</sup> Street to CR 985
  - Undergoing Planning Studies
  - Completion Date TBD

Few additional improvements are planned for US 380 in Collin County between now and 2045.



***Working  
Together to  
Understand  
Future Needs***

# US 380 History



## 2016 TxDOT Feasibility Study

*Studied a wide range of potential solutions for US 380 ranging from:*

- **Minor improvements**
  - Adding turn lanes
- **Moderate Improvements**
  - Constructing overpasses or underpasses at select intersections
- **Major Improvements**
  - Existing US 380 as a freeway

### Final Recommendation:

*A freeway “provides the best mobility and safety, and addresses the long term needs of the communities” but “an additional detailed study covering Denton, Collin, and Hunt Counties is likely necessary”.*

## Current US 380 Feasibility Study

### Purpose

*Analyzed potential roadway options, including improving the existing alignment or utilizing new alignments.*

- Helps determine if the project should move on to more advanced phases of project development
- Identifies high level or critical elements of engineering, impacts to stakeholders and the public, and economic feasibility of potential new roadways or improvements to existing roadways
- Not intended to result in detailed design, environmental analysis, or cost estimates

### GOAL

*Develop an alignment to initiate corridor preservation*



**US Army Corps  
of Engineers®**



- PROSPER
- FRISCO
- MCKINNEY
- FAIRVIEW
- NEW HOPE
- LOWRY CROSSING
- PRINCETON
- FARMERSVILLE



***Weighing  
Future  
Options***

# Evaluate Modes of Transportation to Relieve Congestion

## BIKE/PEDESTRIAN

- Cannot relieve congestion alone
- Bike/Pedestrian facilities will be included in future plans

## TRANSIT

- Cannot solely relieve congestion as it only serves a small portion of the trips

## ROADWAY

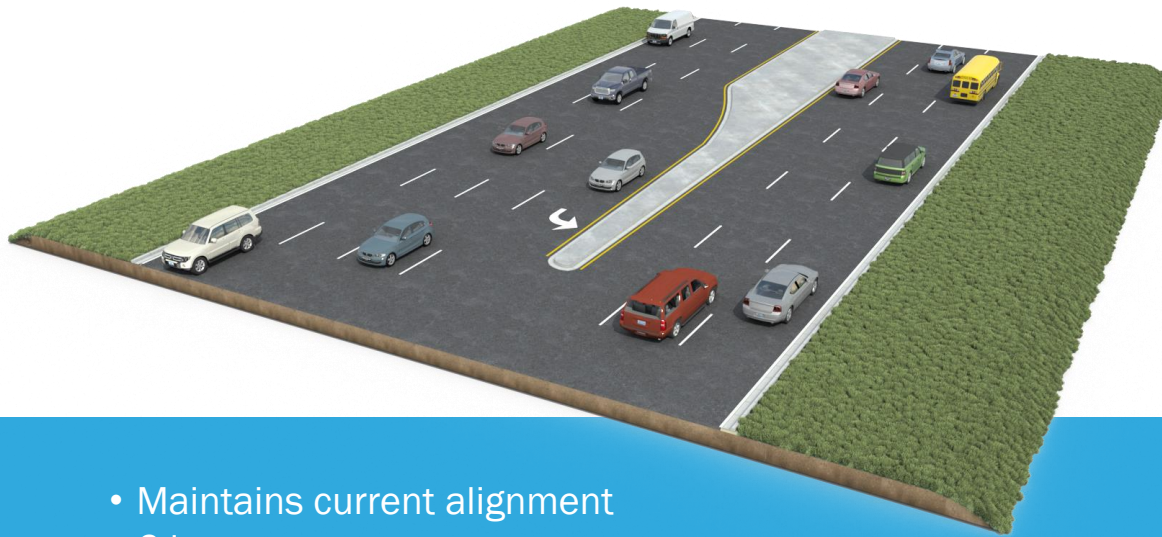
- Variety of options previously studied range from no new improvements to grade separations to freeway alignments

These modes work together to move goods, improve mobility, and provide access to, from, and throughout the area

16



## NO NEW IMPROVEMENTS ON US 380



- Maintains current alignment
- 6 lanes
- Rated in engineering terms as an “F” level of service (the worst)



## GRADE SEPARATED INTERSECTIONS



- Maintains current alignment but allows drivers to bypass select major intersections
- 6 lanes – frontage road lanes at some intersections
- Restrict access to improve safety
- Rated in engineering terms as a “F” level of service
- \$\$
























## FREEWAY



- Multiple alignment options
- 6 lanes – 2 frontage road lanes
- Improvements in safety. No signalized intersections
- Rated in engineering terms as a “B” level of service depending on alignment
- \$\$\$\$\$

# Draft Comparison of Options

EVALUATION CRITERIA:	 NO NEW IMPROVEMENTS ON US 380	 GRADE SEPARATED INTERSECTIONS	 FREEWAY
Enhances Safety			
Reduces Existing Congestion			
Regional Mobility			
Minimizes Future Congestion Expected from Growth			
Cost	\$\$\$\$\$	\$\$\$\$\$	\$\$\$\$\$
Supports Future Economic Growth			
<b>TOTAL SCORE</b>			

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

## Feasibility Study Key Factors

### KEY FACTORS WE'VE EXAMINED

WE HAVE DONE EXTENSIVE ANALYSIS OF THE NEEDS OF THE COMMUNITY AND POTENTIAL SOLUTIONS.



ENGINEERING  
ANALYSIS



TRAFFIC  
ANALYSIS



SAFETY AND  
CRASH DATA



RIGHT-OF- WAY  
REQUIREMENTS



EXISTING AND  
PLANNED RESIDENTIAL  
AND COMMERCIAL  
DEVELOPMENTS



EXISTING AND  
PLANNED UTILITIES



COST AND  
ECONOMIC IMPACT



OTHER PLANNING  
EFFORTS



NATURAL AND  
CULTURAL  
RESOURCES



ENDANGERED  
SPECIES



LAND USE AND  
PARKLAND



WATER RESOURCES  
AND FLOOD PLAINS



HAZARDOUS  
MATERIALS

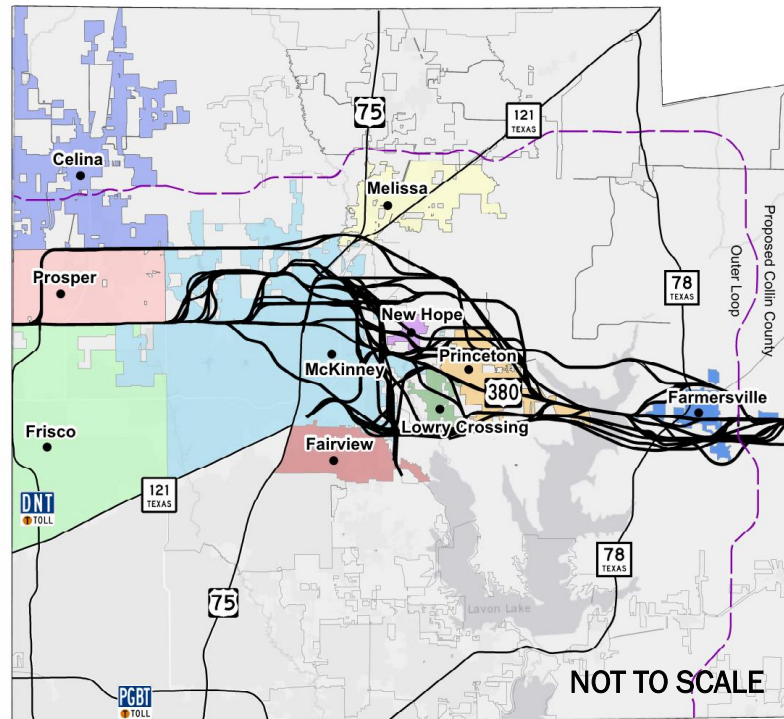


SOCIAL AND  
COMMUNITY  
IMPACTS



STAKEHOLDER AND  
PUBLIC INPUT

Many alignments have been developed and studied.

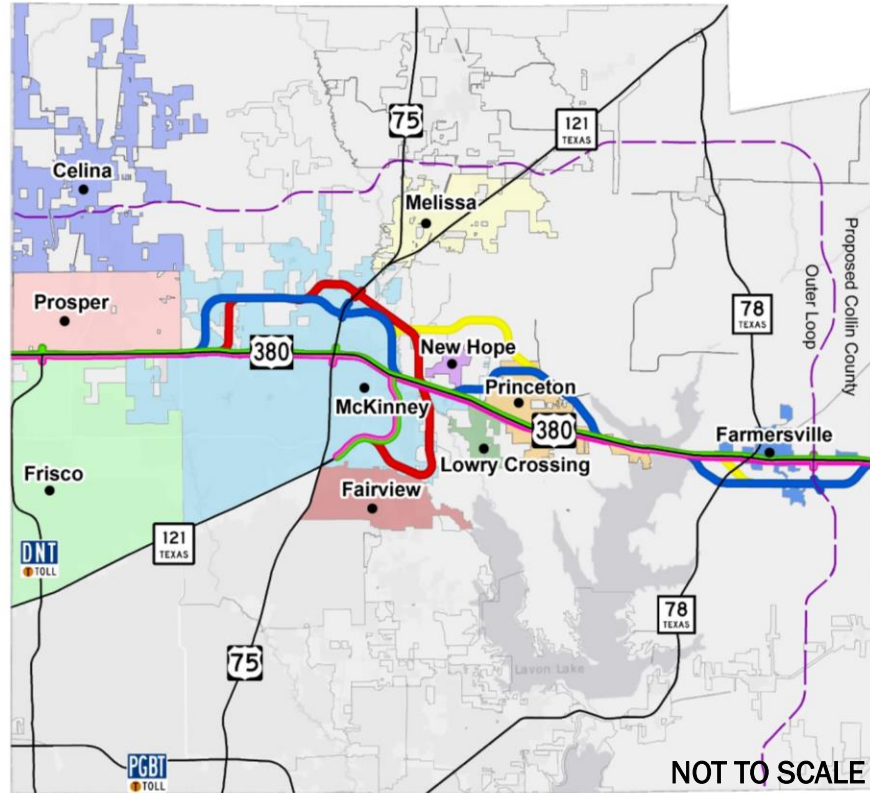


## NOT ALL OF THESE ALIGNMENTS ARE VIABLE. SOME WOULD:

- impact a significant number of homes and business
- conflict with major future development plans
- impact a floodplains or floodway, parks, and/or federally protected lands
- not provide significant congestion relief
- conflict with regional goals

**Alignments presented are those that our study team found to be the most viable transportation options and corridor alignments.**

# Draft Freeway Alignment Options





We need your input on draft alignments that are available for your review and comment.

## **PLEASE CONSIDER:**

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**A final alignment has not been chosen. These are conceptual alignments.**

**It is possible a combination of draft alignment segments could be merged for preferred alignments for comment at our next Public Meeting.**

**Each concept is being shown today with 350 to 400 foot right of way width.**

## TxDOT NEEDS YOUR HELP AND INPUT TO SHAPE THE NEXT STEPS OF THE STUDY.

- What solutions would you suggest?
- Would you like to see a freeway constructed?
- What is your opinion of the alignments shown?



TxDOT WANTS TO HEAR FROM YOU.

# How to Provide Input



**FILL OUT A  
COMMENT FORM**



**PROVIDE VERBAL  
COMMENT TO COURT  
REPORTER**



**SURVEY: ONLINE OR PAPER COPY**  
Go online to [survey.Drive380.com](https://survey.Drive380.com)

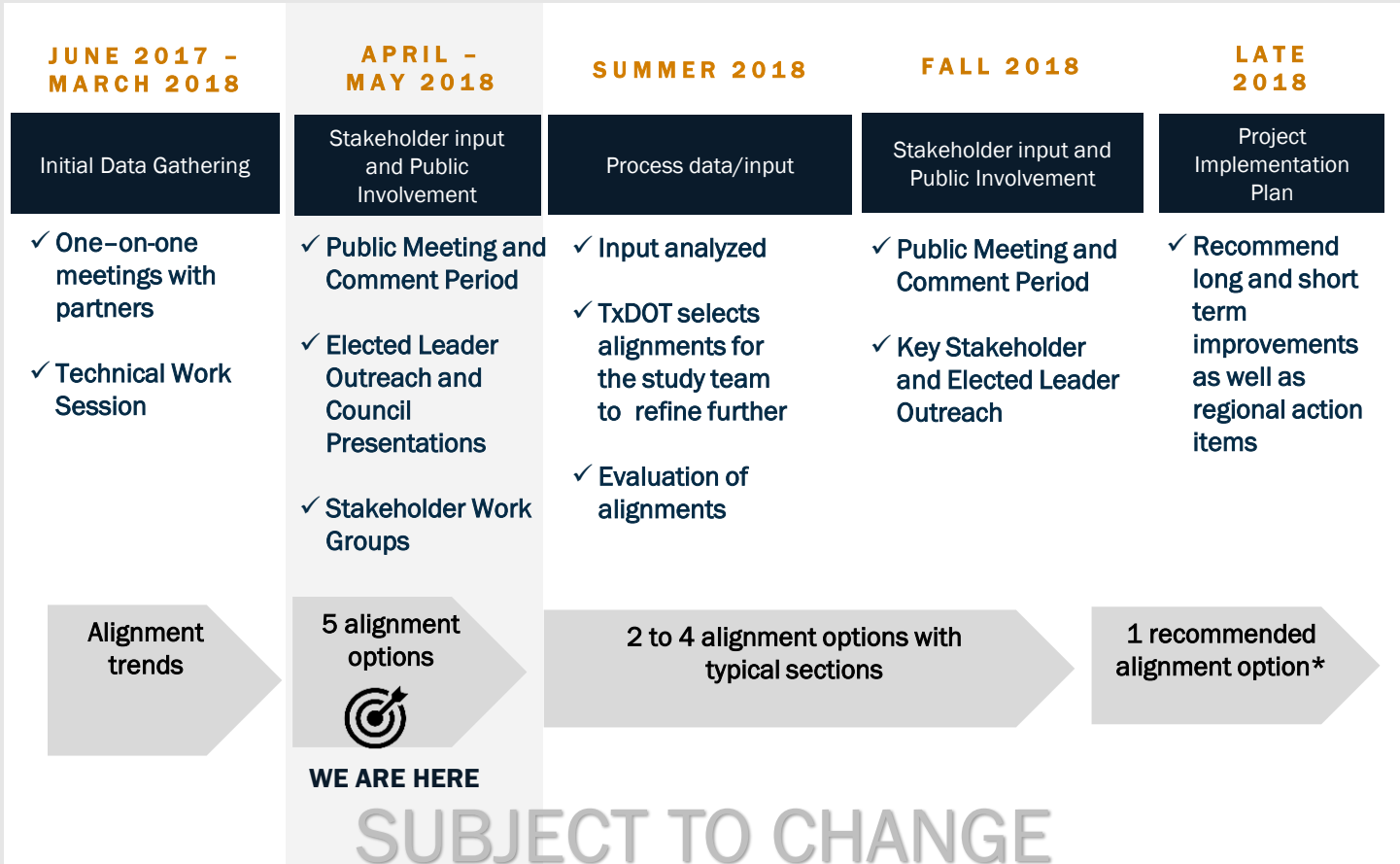


Surveys and comment forms must be submitted by

**May 18, 2018**

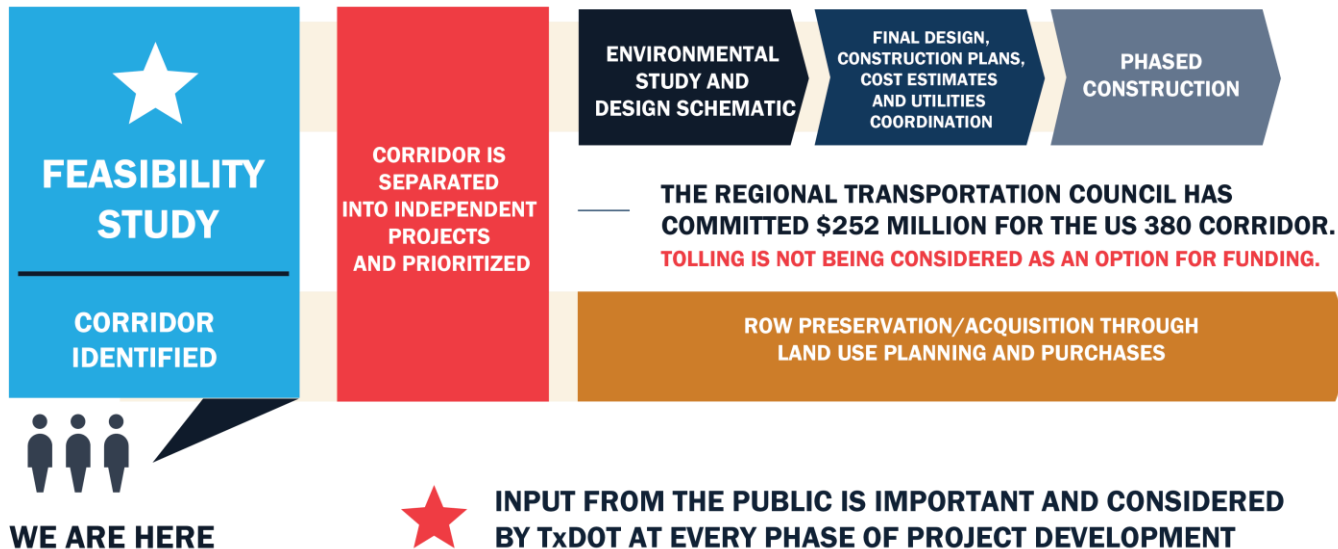
to be included in study documentation

# Feasibility Study Process



## TXDOT HAS DONE ANALYSIS OF THE NEED AND POTENTIAL SOLUTIONS.

Planning the next steps for the US 380 corridor will take time  
-that is why it is so important work begins NOW to plan for the future.





PLANNING FOR THE FUTURE

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**(214) 320-4480**

**Thank you!**



## **THANK YOU**

**for taking time to provide input and  
help shape the future of US 380 and  
Collin County.**

**Visit [Drive380.com](http://Drive380.com) for  
study information and updates.**