



PUBLIC MEETING

US 81 / US 287 FRONTAGE ROADS: AVONDALE TO I-35W

From Avondale-Haslet Road to I-35W
Tarrant County, Texas



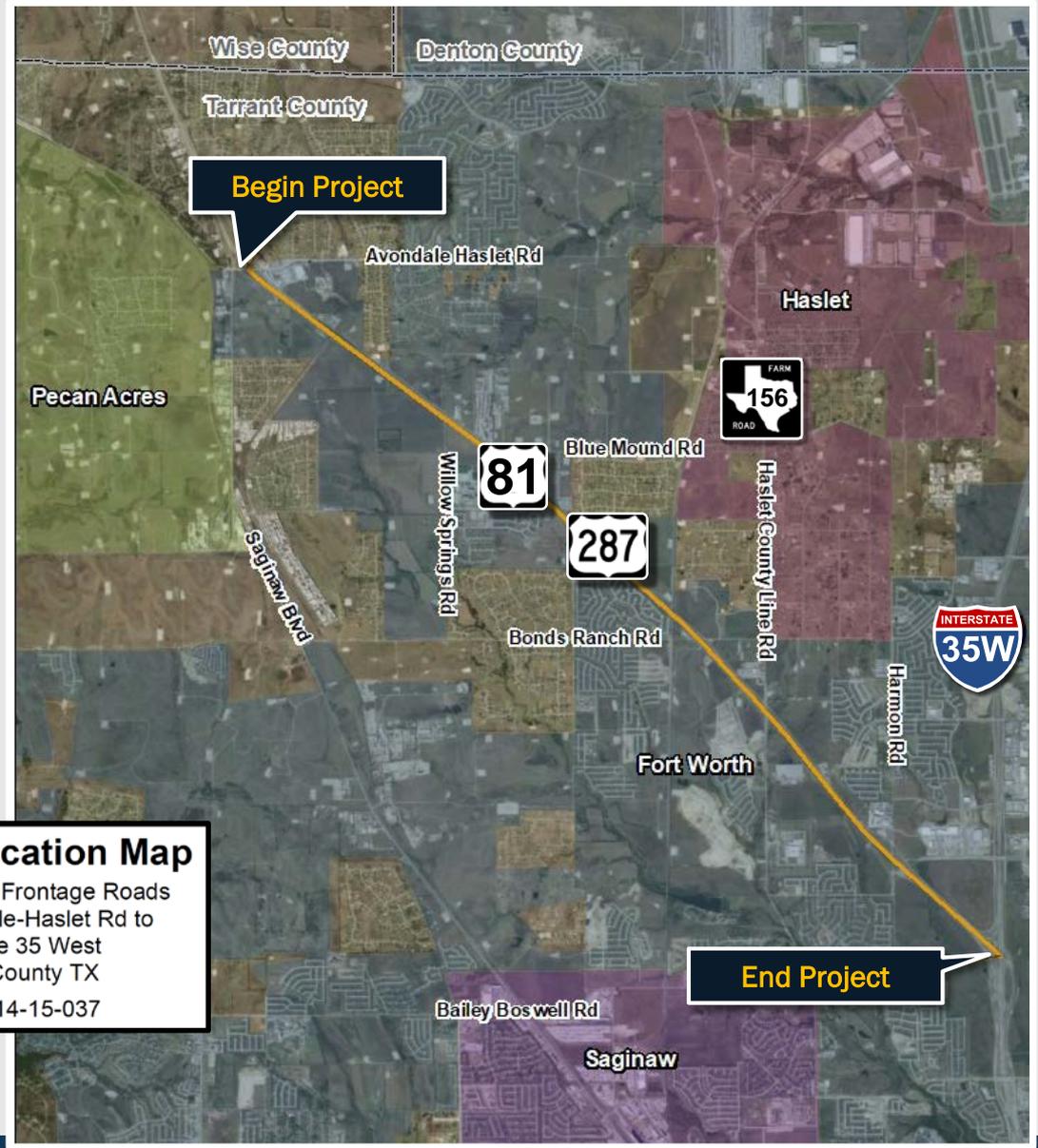


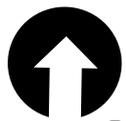
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US 287 Project Location



 US 81 / US 287
Project Limits




0 5,000
Feet

Project Location Map
US 81 / US 287 Frontage Roads
From Avondale-Haslet Rd to
Interstate 35 West
Tarrant County TX
CSJ: 0014-15-037

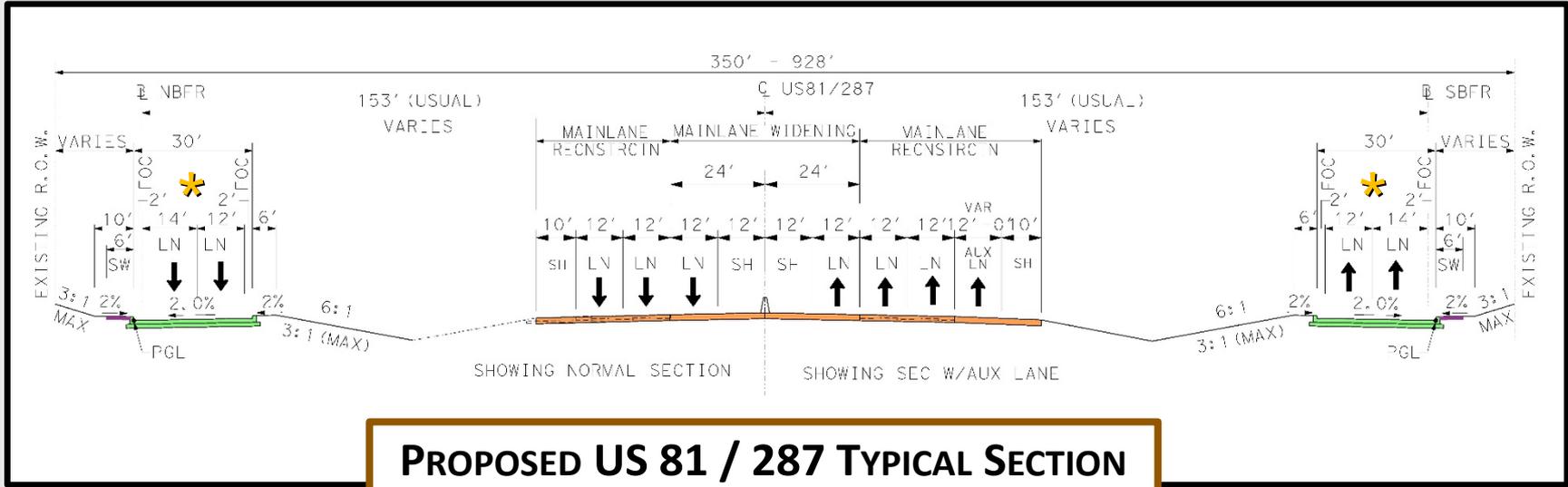


Purpose

- Improve mobility
- Enhance access
- Reduce congestion by designing for **year 2040** projected traffic volumes
- Improve safety

Objectives

- Continuous **one-way** frontage roads
- **Access ramp** adjustments
- **One additional US 81 / 287 travel lane** in each direction
- Adjust main lane profiles for **Willow Springs Road** and **Heritage Trace Parkway** bridge insertions
- **Intersection layout** upgrades and **U-turn** installations
- **Bike & pedestrian** integration
- Increase **bridge clearances**



* Bike accommodation to be determined (see [Bicycle & Pedestrian Accommodation](#) slide)

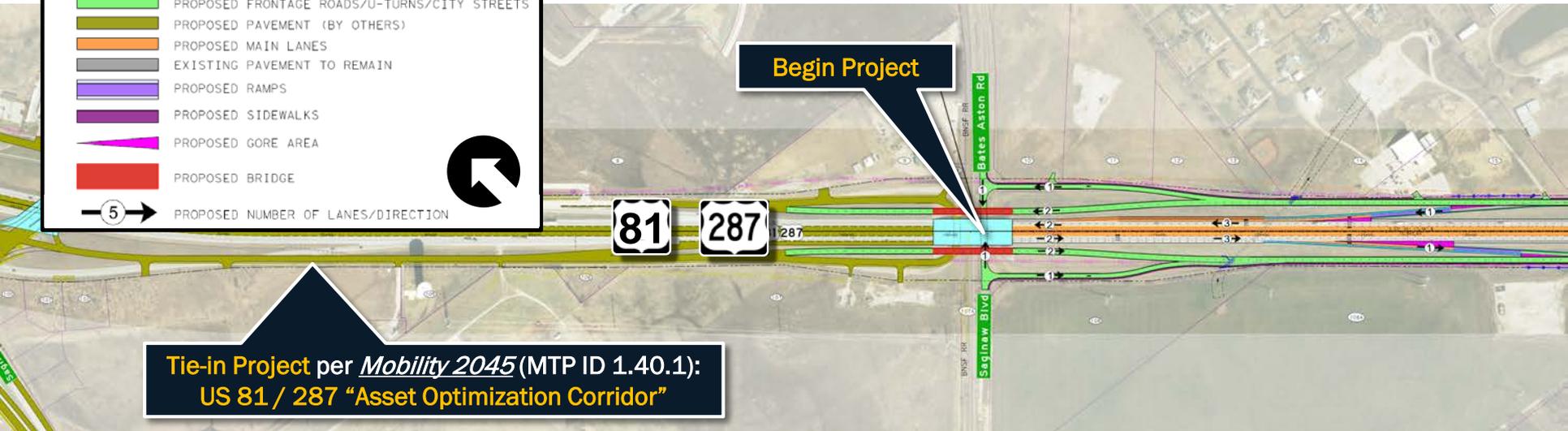
Recommended Design | Schematic Roll 1 of 3



	PROPOSED FRONTAGE ROADS/U-TURNS/CITY STREETS
	PROPOSED PAVEMENT (BY OTHERS)
	PROPOSED MAIN LANES
	EXISTING PAVEMENT TO REMAIN
	PROPOSED RAMPS
	PROPOSED SIDEWALKS
	PROPOSED GORE AREA
	PROPOSED BRIDGE
	PROPOSED NUMBER OF LANES/DIRECTION

Begin Project

**Tie-in Project per *Mobility 2045* (MTP ID 1.40.1):
US 81 / 287 "Asset Optimization Corridor"**



Recommended Design | Schematic Roll 2 of 3



- PROPOSED FRONTAGE ROADS/U-TURNS/CITY STREETS
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Proposed ROW

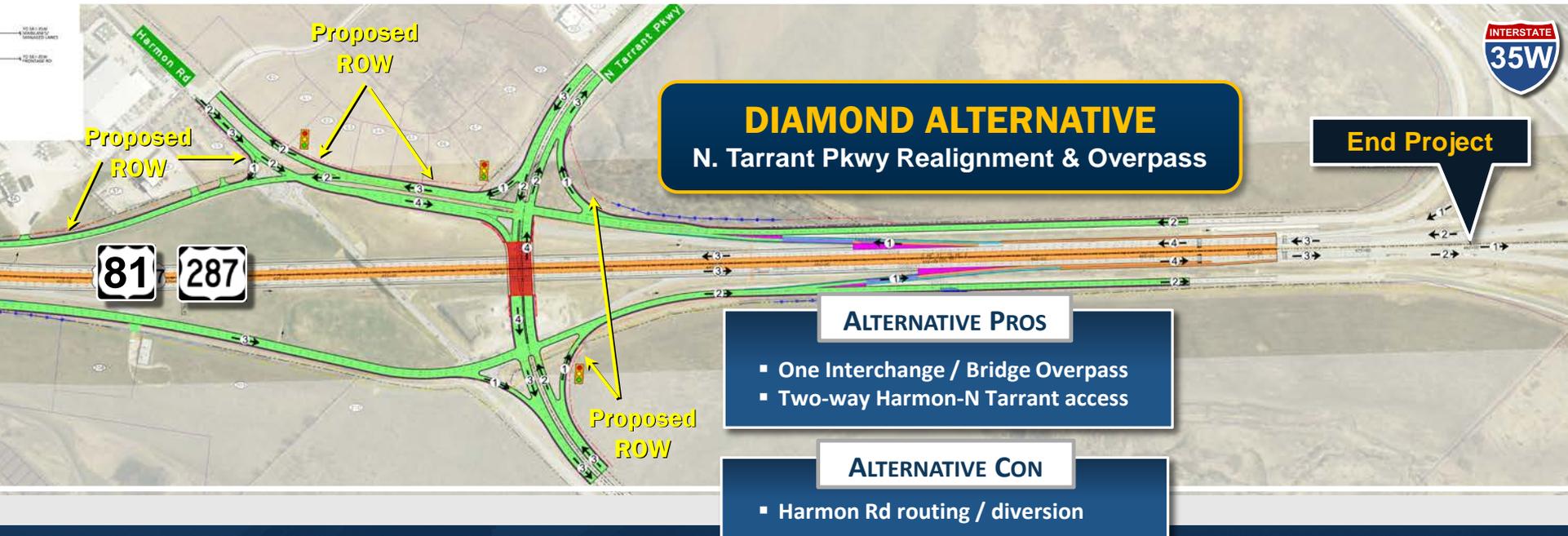
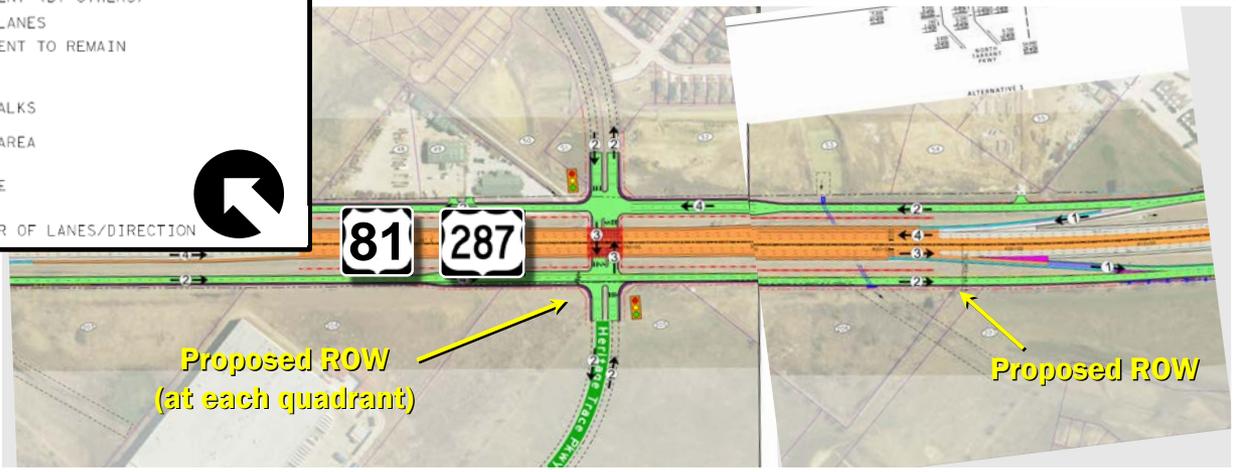


Lower the Bonds Ranch Rd profile to achieve a 16'-6" vertical bridge clearance

Lower the FM 156 profile to achieve a 16'-6" bridge clearance

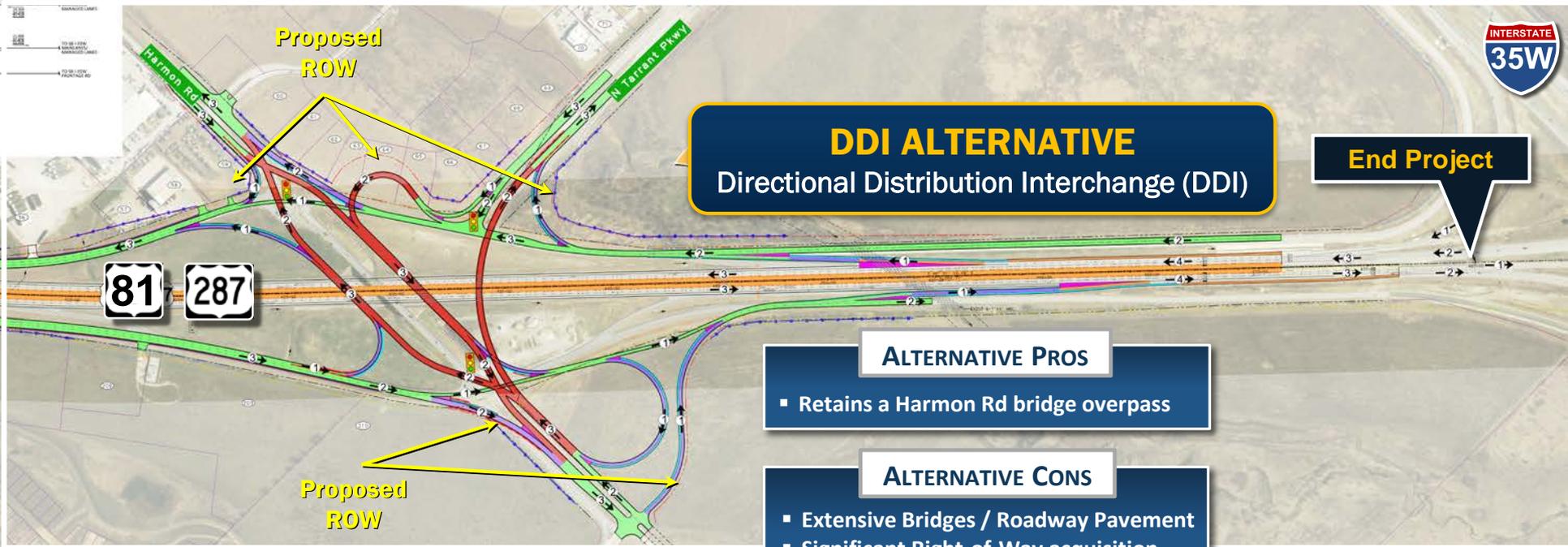


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DDI ALTERNATIVE Directional Distribution Interchange (DDI)

End Project

ALTERNATIVE PROS

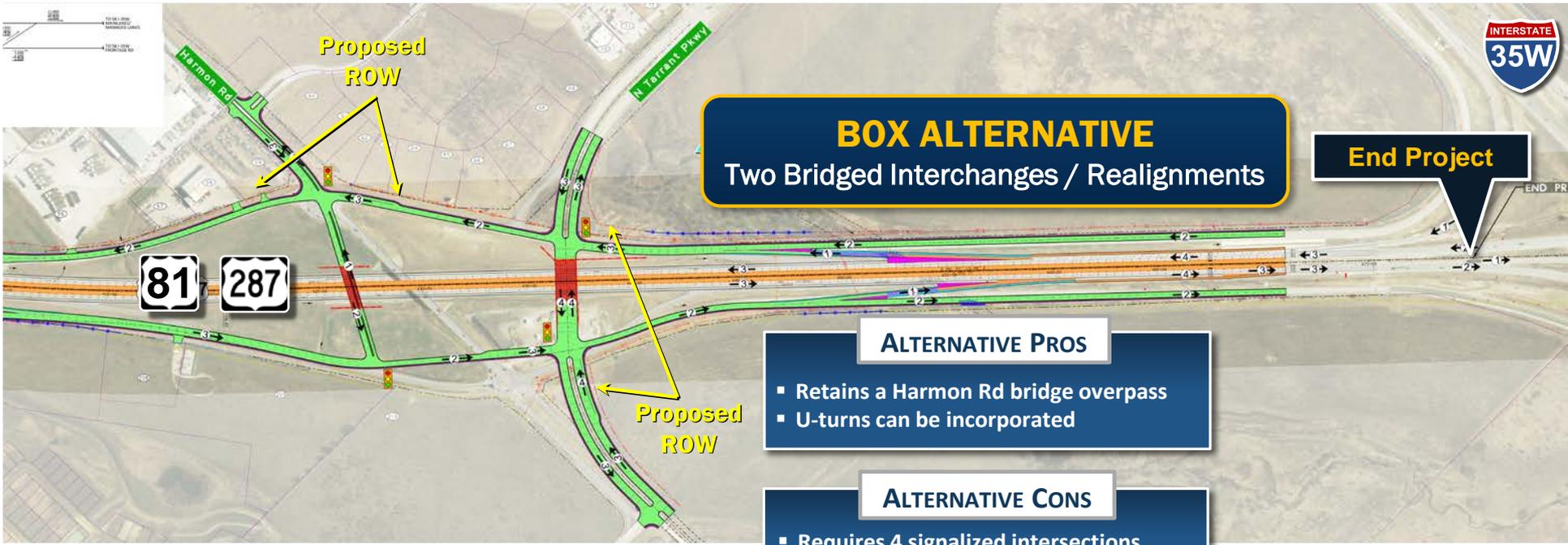
- Retains a Harmon Rd bridge overpass

ALTERNATIVE CONS

- Extensive Bridges / Roadway Pavement
- Significant Right-of-Way acquisition
- Driver Familiarity



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	PROPOSED NUMBER OF LANES/DIRECTION

BOX ALTERNATIVE
Two Bridged Interchanges / Realignments

End Project

ALTERNATIVE PROS

- Retains a Harmon Rd bridge overpass
- U-turns can be incorporated

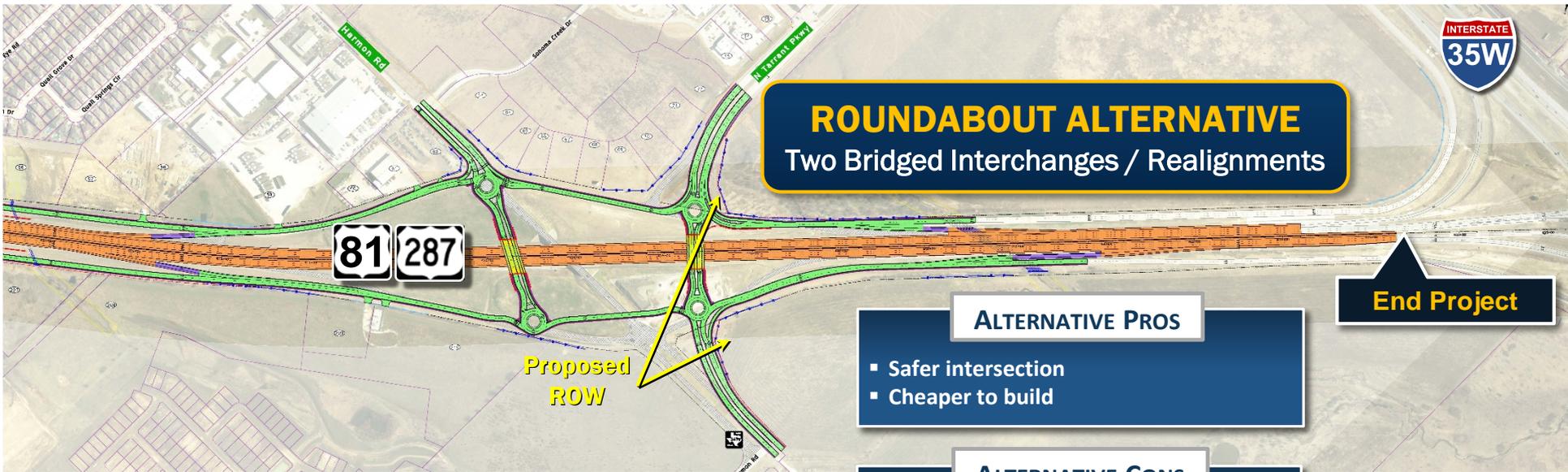
ALTERNATIVE CONS

- Requires 4 signalized intersections

Recommended Design | ROUNDABOUT ALTERNATIVE



	PROPOSED FRONTAGE ROADS/U-TURNS/CITY STREETS
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ROUNDABOUT ALTERNATIVE Two Bridged Interchanges / Realignment

End Project

ALTERNATIVE PROS

- Safer intersection
- Cheaper to build

ALTERNATIVE CONS

- Capacities



The TxDOT Design Division and the FHWA are opting away from bike / vehicle **Shared Use Lanes** on TxDOT projects and encouraging the following alternatives, pending the establishment of conclusive **FHWA design guidelines**:

**5-6 Lane Roadway
(Buffered Bike Lane Option)**



Bicyclists: The 6-foot bike lane with a 3-foot buffer improves motorist awareness of bicyclists operating in the lanes.

Motorists: Motorists can easily overtake cyclists on the roadway and have decreased stress operating around bicyclists.

Pedestrians: Comfort and safety remains unchanged.

Transit Operators and Riders: Buses can stop within the shoulder, which can create conflicts with bicyclists.

**5-6 Lane Roadway
(Separated Bike Lane Option)**



Bicyclists: The shoulders and travel lanes can be reduced in width to create a bi-directional separated bike lane.

Motorists: Motorists can easily overtake cyclists on the roadway and have decreased stress operating around bicyclists.

Pedestrians: Comfort and safety remains unchanged.

Transit Operators and Riders: Buses will be required to stop within the travel lane. At transit stops, it will be required that waiting pedestrians are not standing on the shared use path.

**5-6 Lane Roadway
(Shared Use Path Option)**



Related Resources

1. FHWA Workbook on Incorporating On-Road Bicycle Networks into Resurfacing Projects
2. FHWA Proven Safety Countermeasures
3. Transportation Research Board (TRB) Highway Capacity Manual
4. USDOT Memorandum on Level of Service
5. ITE Trip Generation Manual

Bicyclists: The existing sidewalk can be widened to create a shared use path. Pedestrian use will likely result in some cyclists to operate in the roadway.

Motorists: Minimal impact on motorist safety given the slower speed nature of the roadway.

Pedestrians: The path creates a comfortable and safe place for people to walk continuously on one side of the roadway.

Transit Operators and Riders: Buses will be required to stop within the travel lane. At transit stops, it will be required to make sure waiting pedestrians are not standing on the shared use path. Rider access is improved with safer street crossings.

Source: FHWA, *Bikeway Selection Guide*, Feb., 2019



- Estimated construction cost range (final cost depends on alternative):
- W/Alternative DIAMOND, \$197M
- W/Alternative DDI, \$227M
- W/Alternative BOX, \$198M
- W/Alternative ROUNDABOUT, \$174M
- Current Funding Status:
 - 2019-2022 Statewide Transportation Improvement Program (STIP) 2022 TIP Year.
 - Construction estimate: \$142 million.
 - Preliminary engineering estimate: \$6.9 million.
 - **Construction is not fully funded. TxDOT will continue to work with NCTCOG and regional partners to secure full funding.**

***Subject to Change**



Timeline	Activity
November 2019	Open House Public Meeting
End of 2019	60% Complete Design Schematic submitted to TxDOT Design Division
Spring 2020	Value Engineering Study
Fall 2020	Public Hearing
End of 2020	Noise Workshop (addressing noise mitigation with adjacent owners)
End of 2020	Environmental Approval

***Subject to Change**



- Study Team Representatives are available to interpret exhibits and answer questions.
- To submit comments or questions as part of the Official Record of today's meeting, please fill out a Comment Card and submit by November 29, 2019.

Mailing Address:

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Thank You!

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Project Manager

TxDOT – Fort Worth District

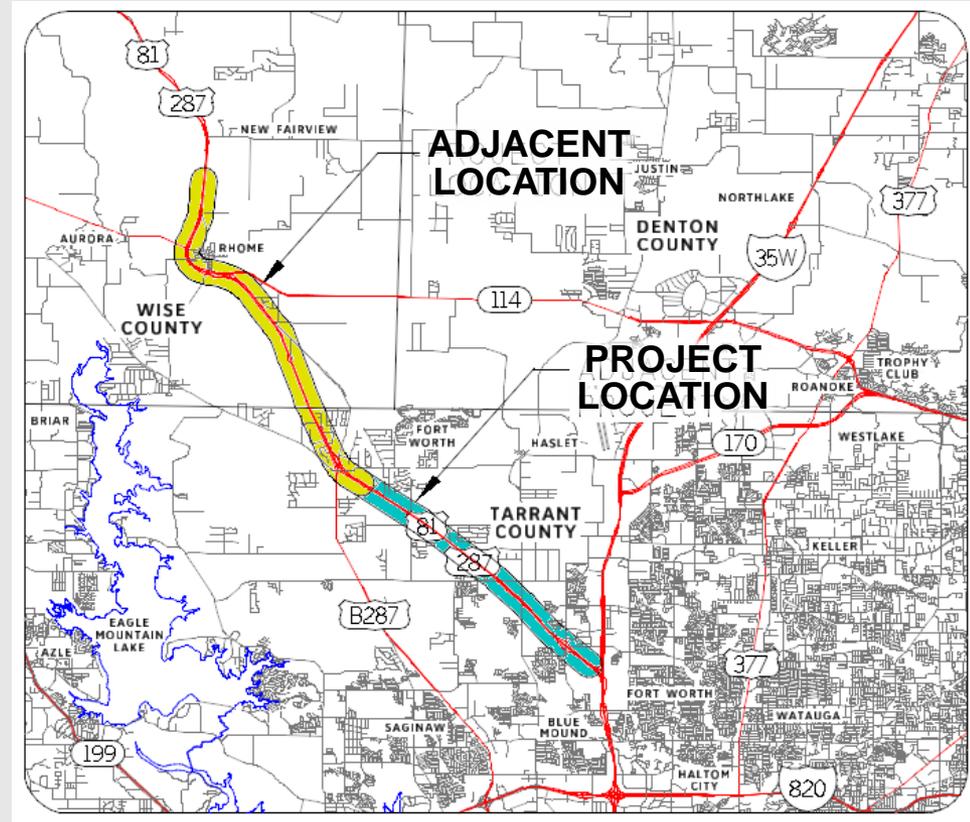
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US 81/US 287 from Rhome to Avondale

- Adjacent TxDOT project to the north
- Proposed Improvements:
 - Add one mainlane in each direction
 - New interchanges with proposed roadways
 - Add frontage roads and convert to continuous system of one-way frontage roads
- Project is in schematic development





US 81 / US 287 Frontage Roads: Rhome to Avondale

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