

I-44/SH-36 Interchange Improvements and I-44 Pavement Reconstruction

***(From the Red River Bridge at the Texas State line,
extending north 1.24 miles through
the SH-36 Interchange, Cotton County)***

Public Meeting

May 3, 2016

I-44/SH-36 Interchange

Meeting Purpose

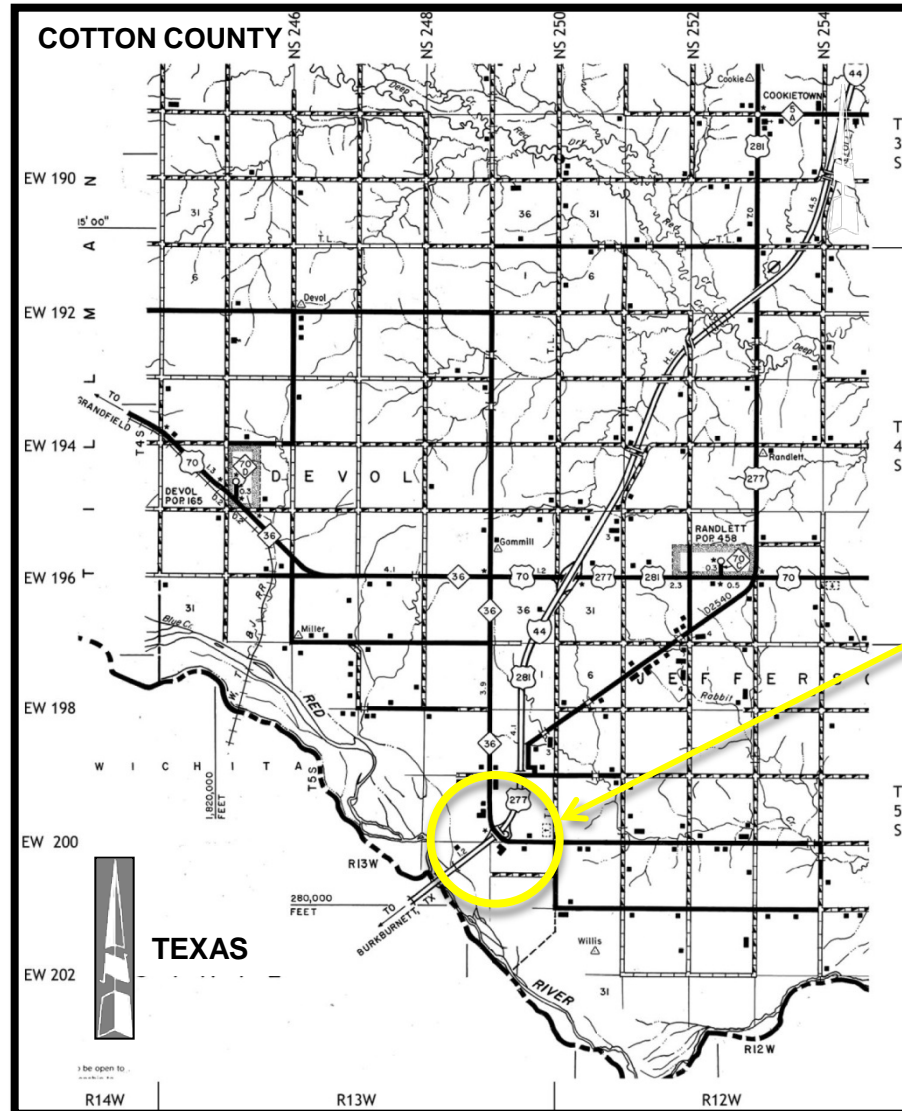


- Purpose and Need for Project
- 3 Interchange Alternatives Considered
- Preferred Alternative
- Public Input/Feedback



I-44/SH-36 Interchange

Project Location



Project Location



I-44/SH-36 Interchange

Area Features

Comanche Red River Casino



US-70

I-44



Kiowa Casino



Existing Bridge



SH-36

**Comanche Casino
Travel Plaza**



Project Location



E 2000 ROAD (EW 200)

I-44/SH-36 Interchange

Recently-Completed Projects



SH-36 Reconstruction (2012)

- New Asphalt Pavement North of SH-36 Interchange to US-70
- Two and Three Lanes
- 12-ft Wide Lanes
- 10-ft Wide Shoulders

I-44 Pavement Reconstruction (2013)

- New Concrete Pavement North of SH-36 Interchange to US-70
- Asphalt Pavement Overlay through SH-36 Interchange
- Four Lane Interstate
- 12-ft Wide Lanes
- 4-ft Wide Inside Shoulders
- 10-ft Wide Outside Shoulders
- Cable Barrier

Project Location



I-44/SH-36 Interchange

Existing I-44

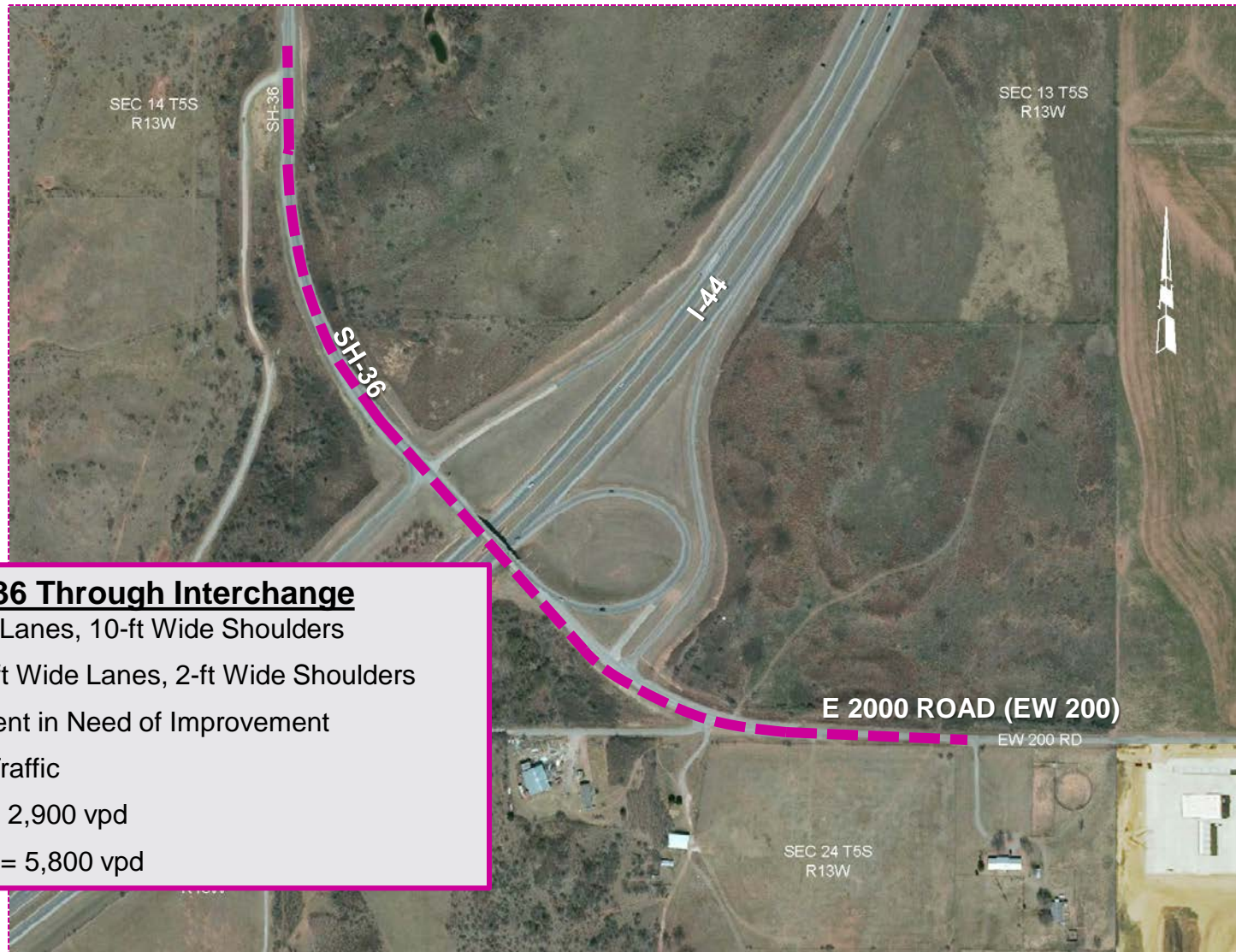
Existing I-44 Through the Interchange

- Four 12-ft Wide Lanes
- 4-ft Wide Inside Shoulders, 10-ft Wide Outside Shoulders
- 44-ft Wide Median with Cable Barrier
- Asphalt Pavement from Red River Bridge through SH-36 Interchange (Recent Overlay)
- Annual Average Daily Traffic, Vehicles per Day (vpd)
 - Current (2016) = 13,200 vpd
 - Projected (2036) = 21,500 vpd



I-44/SH-36 Interchange

Existing SH-36 and Bridge



Existing SH-36 Through Interchange

- SH-36: Two 12-ft Wide Lanes, 10-ft Wide Shoulders
- SH-36 Bridge: Two 12-ft Wide Lanes, 2-ft Wide Shoulders
- SH-36: Asphalt Pavement in Need of Improvement
- Annual Average Daily Traffic
 - Current (2016) = 2,900 vpd
 - Projected(2036) = 5,800 vpd

I-44/SH-36 Interchange

Existing Interchange

Existing Interchange

- Diamond/Loop Ramp Configuration
- Traffic on Exit Ramps must Stop at Stop Sign Before Turning onto SH-36
- Single Lane Ramps
- 15-ft Wide Lanes
- 2-ft Wide Inside Shoulders
- 8-ft Wide Outside Shoulders



I-44/SH-36 Interchange

Purpose and Need



Improve Safety and Traffic Operations



I-44/SH-36 Interchange

Existing Conditions in Need of Improvement

Narrow Shoulders on Bridge



Merge Lane on I-44 too Short



- Inadequate Bridge Clearances
- I-44 Exit Ramp at Loop too Short



Loop Ramp Curve too Tight



Pavement Condition in Need of Upgrade



No Merge Lane on SH-36 from Loop Ramp



I-44/SH-36 Interchange

Collisions, 2010 - 2015



I-44/SH-36 Interchange

Proposed Project



- Reconstruct I-44 Pavement
- Expand SH-36 Bridge to Four 12-Ft. Wide Lanes and 10-Ft. Wide Shoulders
- Shift SH-36 Bridge Alignment South
 - Improve I-44 Vertical Clearance Under Bridge
 - Allow for Phased Construction
 - Keep Bridge Open to Traffic during Construction
 - Ramps Will Remain Open Most of the Time
- Improve Interchange Ramp Geometry
- Lengthen On/Off Ramps



I-44/SH-36 Interchange

Alternative 1: Diamond Interchange



I-44/SH-36 Interchange



Alternative 2: Loop/Diamond Interchange, with Loop Ramp & Stub Ramp



I-44/SH-36 Interchange



Alternative 2A: Loop/Diamond Interchange, with Loop Ramp & Free-Flow Ramp



I-44/SH-36 Interchange

Constraints Mapping



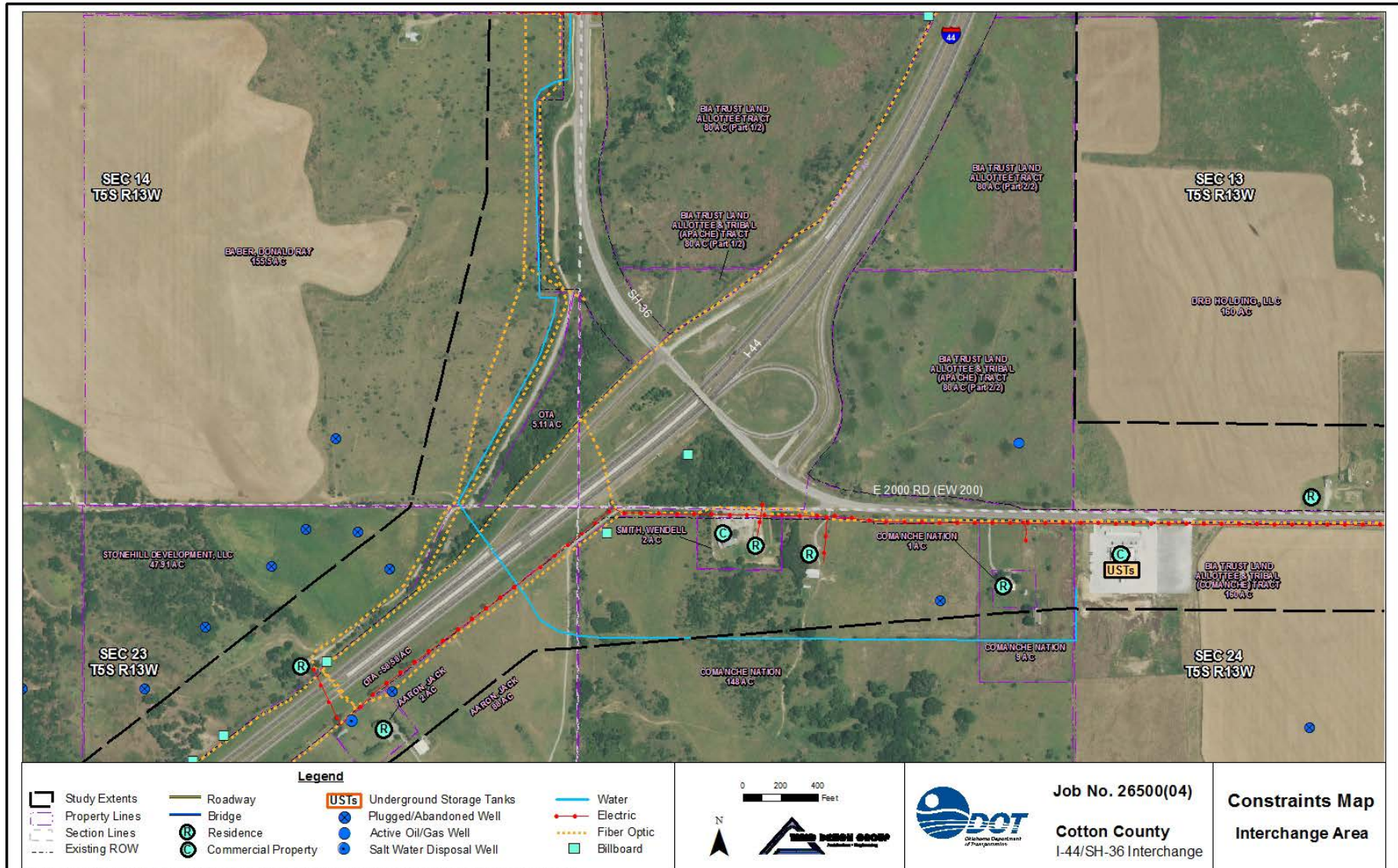
Reconnaissance Performed to Identify Constraints

- Wetlands and Waters
- Threatened & Endangered Species Critical Habitat
- Archeological Sites and Historic Properties
- Aboveground or Underground Storage Tanks
- Oil/Gas Wells
- Residences
- Commercial Facilities
- Tribal Properties
- Utilities



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Composite Constraints Map



Constraints information from April 2015 Reconnaissance Report, subsequent field survey, and review of current aerial photography. 2015 Orthomosaic

I-44/SH-36 Interchange

Tribal Stakeholder Coordination



- Apache Tribe, Comanche Nation, and Kiowa Tribe
- Stakeholder Meeting Held May 20, 2015
- 3 Interchange Alternatives Presented
- Possible Future Development on E 2000 Road (EW 200) Discussed



I-44/SH-36 Interchange

Comparison of Alternatives



Comparison Parameter	Alternative 1: Diamond Interchange	Alternative 2: Loop/Diamond Interchange, with Loop Ramp & Stub Ramp	Alternative 2A: Loop/Diamond Interchange, with Loop Ramp & Free-Flow Ramp
Traffic Operations	Good	Good	Better
Interchange Geometry	Better	Good	Good
Flexibility to Accommodate Traffic Growth	Not Applicable	Can be modified to Alternative 2A, if future traffic dictates	Not Applicable
Environmental Impacts*	3 Acres Tribal Property	2 Acres Tribal Property	5 Acres Tribal Property 1 Residential Relocation 1 Commercial Property Impacted
Utility Impacts	6 Utilities Impacted	5 Utilities Impacted	6 Utilities Impacted
Right-of-Way Impacts	8 Acres	2 Acres	12 Acres
Total Project Cost	\$21 million	\$19 million	\$23 million

*: No other environmental constraints identified.



I-44/SH-36 Interchange

Preferred Alternative



Alternative 2: Loop/Diamond Interchange, with Improved Loop Ramp (NB I-44 to NB SH-36) and Stub Ramp (NB I-44 to EB E 2000 Road)

- Advantages:
 - Least Environmental Impacts
 - Least Utility Impacts
 - Least Right-of-Way Impacts
 - Least Total Project Cost
 - Adequately Accommodates Projected Future Traffic Volumes
 - Can Be Modified to Alternative 2A, if Necessary to Accommodate Future Traffic



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What Happens Next?



- Consider Comments from Public Meeting
- Complete Preliminary Design Report
- Begin Detailed Environmental Studies and Design Plans



I-44/SH-36 Interchange

Roadway Improvement Process



- Complete Environmental Studies and Plans
- 8-Year Construction Work Plan:
 - Right-of-Way (Year 2018)
 - Utilities (Year 2018)
 - Construction (Year 2021)



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Submit Your Comments



- Leave your written comments with us tonight.
- Download and submit a comment form at:
www.odot.org/publicmeetings
- Submit your written comments by mail to:
Oklahoma Department of Transportation
Environmental Programs Division
200 N. E. 21st Street
Oklahoma City, OK 73105
- Fax your written comments to:
(405) 522-5193
- Email your comments to:
Odot-environment@odot.org
- **Please submit your comments by May 17, 2016.**



I-44/SH-36 Interchange



Thank you!

