



WWW.ODOT.ORG/MEETINGS/OTHER.PHP

# WELCOME

**ODOT PUBLIC MEETING FOR  
US-270 IN WISTER, OK**

**06/26/2012 – 6:00pm**





## DIVISION 2 INFORMATION

- DIVISION ENGINEER: **Anthony Echelle**
- COUNTIES SERVICED: **9**
- TOTAL ROAD MILES: **1,656.88**
- BRIDGES: **860**



# MEETING INFORMATION

Purpose & Intent

[WWW.ODOT.ORG/MEETINGS/OTHER.PHP](http://WWW.ODOT.ORG/MEETINGS/OTHER.PHP)



## PURPOSE OF THIS MEETING

THE PURPOSE OF THIS MEETING IS TO INFORM THE PUBLIC AND SOLICIT COMMENTS ABOUT THE DEPARTMENT'S PROPOSED PROJECT TO CORRECT A FRACTURE CRITICAL TRUSS BRIDGE ON US-270 OVER CASTON CREEK IN THE TOWN OF WISTER.





## PURPOSE OF THIS PROJECT

THE PURPOSE OF THIS PROJECT IS TO CORRECT A FRACTURE CRITICAL TRUSS BRIDGE OVER CASTON CREEK LOCATED ON US-270 WITHIN THE TOWN OF WISTER.



## PROJECT TIMELINE

- **INFORMATION COLLECTION**
  - TRAFFIC COUNTS
  - NEPA SPECIALIST SURVEYS
    - BIOLOGY SURVEYS, WETLAND SURVEYS, NOISE ASSESSMENT, HISTORIC & ARCHEOLOGICAL SURVEYS, SOCIOECONOMIC STUDIES.
  - PUBLIC INPUT – *TODAY'S MEETING*
- **ANALYZE OPTIONS**
  - DESIGN REQUIREMENTS
  - RIGHT OF WAY NEEDS
  - COSTS
- **RECOMMEND OPTION FOR IMPROVEMENT**



## **ENVIRONMENTAL INFORMATION**

[WWW.ODOT.ORG/MEETINGS/OTHER.PHP](http://WWW.ODOT.ORG/MEETINGS/OTHER.PHP)



## ENVIRONMENTAL INFORMATION

### WHAT IS NEPA AND THE ODOT DECISION MAKING PROCESS?

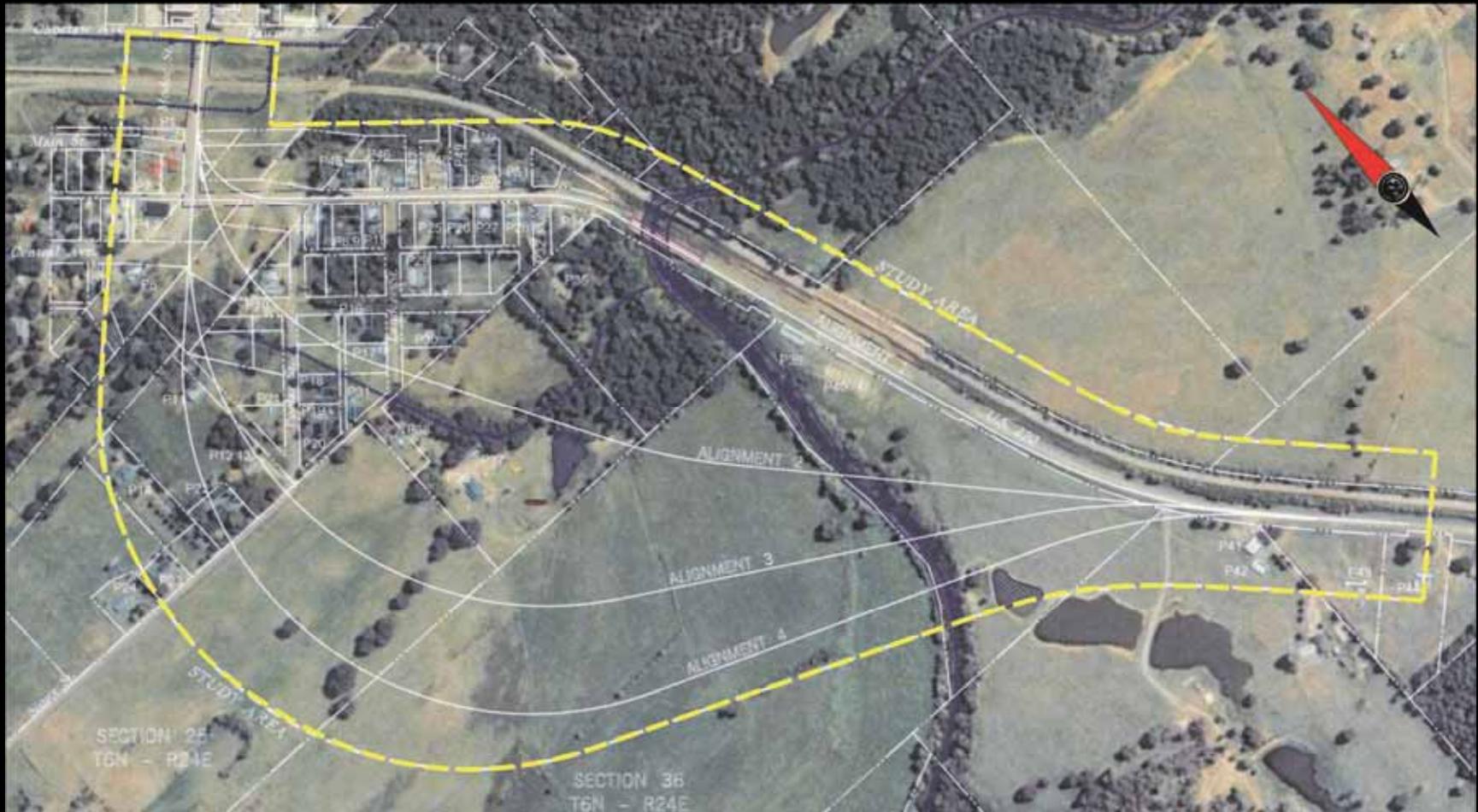
NEPA IS AN ACRONYM FOR THE FEDERAL LAW CALLED THE NATIONAL ENVIRONMENTAL POLICY ACT, ENACTED IN 1969. IN ORDER TO USE FEDERAL FUNDS, A DECISION-MAKING PROCESS THAT BALANCES THE SOCIAL, ECONOMIC, AND ENVIRONMENTAL CONCERNS MUST BE CONDUCTED. PUBLIC INVOLVEMENT AND COMMENTS ARE PART OF THE NEPA PROCESS. THE DEPARTMENT WILL SOLICIT COMMENTS FROM STATE, FEDERAL, TRIBAL, AND LOCAL AGENCIES, AND WILL CONTINUE TO COORDINATE WITH THEM AS NECESSARY. DATA WILL BE COLLECTED ON POTENTIAL ENVIRONMENTAL ISSUES SUCH AS NOISE, WETLANDS, CULTURAL RESOURCES, HISTORIC RESOURCES, PARKS, DISPLACEMENTS OF HOMES OR BUSINESSES, ETC., TO EVALUATE POTENTIAL IMPACTS OF THE PROPOSED IMPROVEMENTS. ECONOMIC IMPACTS SUCH AS CONSTRUCTION COSTS, ESTIMATED RIGHT-OF-WAY, AND UTILITY COST DATA WILL ALSO BE EVALUATED. THIS INFORMATION IS UTILIZED TO MAKE SOUND DECISIONS IN TRANSPORTATION IMPROVEMENTS.

### EXAMPLES OF ITEMS CONSIDERED DURING PROJECT DEVELOPMENT

- BIOLOGICAL & WATER RESOURCES
- ARCHEOLOGICAL & HISTORIC PROPERTIES
- HAZARDOUS WASTE/LEAKING UNDERGROUND STORAGE SITES
- NOISE ANALYSIS



# STUDY AREA





## **CURRENT FACILITY INFORMATION**

Information about the existing US-270 Facility



## **CURRENT FACILITY INFORMATION / US-270**

- **CURRENT FACILITY HAS THE FOLLOWING CONCERNS:**
  - 2-LANE HIGHWAY WITH NO SHOULDERS
  - OUTDATED ROADWAY GEOMETRY
  - US HIGHWAY RUNS THROUGH TOWN
  - INCLUDES 90-DEGREE TURN (IN TOWN)
  - POOR SITE DISTANCE AT RAILROAD CROSSING
  - POOR DRAINAGE
  - FRACTURE CRITICAL BRIDGE
  - PARALLEL CHANNEL
  - UNFAVORABLE CREEK ALIGNMENT
  - RAILROAD PROXIMITY
  
- **CURRENT ADT (AVERAGE DAILY TRAFFIC) COUNT:**
  - 1,700 VEHICLES A DAY, MEASURED 2012



## CURRENT FACILITY INFORMATION / US-270





## **PROJECT INFORMATION / US-270**

Information about the project and its design

[WWW.ODOT.ORG/MEETINGS/OTHER.PHP](http://WWW.ODOT.ORG/MEETINGS/OTHER.PHP)



## BRIDGE CORRECTION OPTIONS US-270

- **EXISTING BRIDGE NEEDS TO BE CORRECTED DUE TO:**
  - FRACTURE CRITICAL STATUS
  - HORIZONTAL & VERTICAL ALIGNMENT DEFICIENCIES
  - SAFETY CONCERNS
  - TRUSS BRIDGE
- **BRIDGE CORRECTION OPTIONS:**
  - REHABILITATION ON EXISTING ALIGNMENT
  - REPLACE ON EXISTING ALIGNMENT (CLOSE ROAD)
  - NEW ALIGNMENT



## OPTIONS / US-270

- **KEEP ROADWAY OPEN DURING CONSTRUCTION**
  - **US-270 SOUTH OF WISTER LAKE OVERTOPS WITH FLOODWATERS**
  - **THE WISTER DAM OVERFLOW**
  - **IF THE CASTON CREEK BRIDGE AND ROADWAY IS CLOSED THE RESIDENTS IN BETWEEN ARE TRAPPED**
    - **NO EMERGENCY VEHICLE ACCESS**
  - **PREFERRED TO KEEP THE ROAD OPEN DURING CONSTRUCTION**



# OPTIONS / US-270 KEEP ROADWAY OPEN



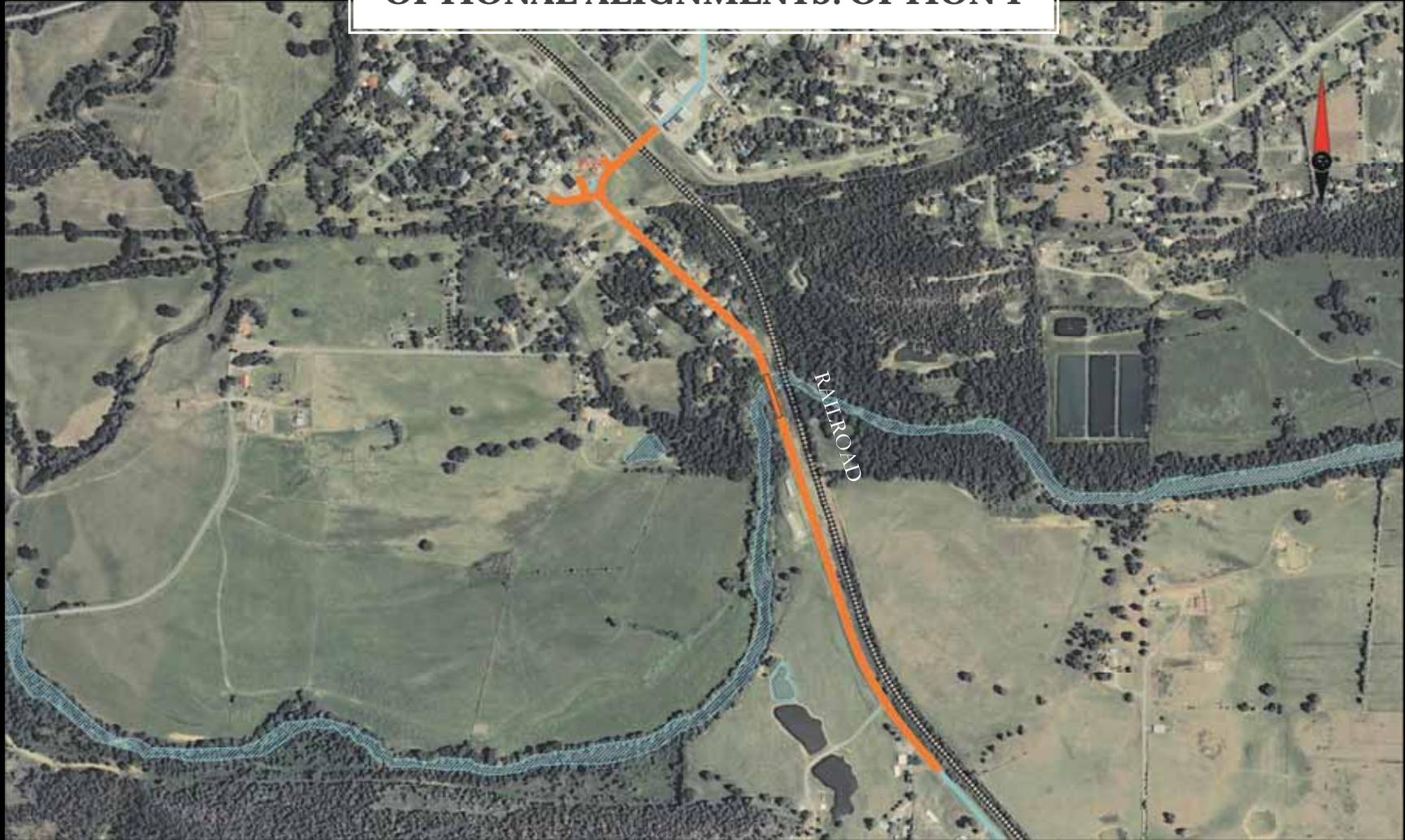


## OPTIONS / US-270

- KEEP ROADWAY OPEN DURING CONSTRUCTION
  
- OPTIONAL ALIGNMENTS
  - EXISTING ALIGNMENT
  - THREE (3) NEW ALIGNMENTS
  
- COMPARISON



**OPTIONS / US-270**  
**OPTIONAL ALIGNMENTS: OPTION 1**





**OPTIONS / US-270**  
**OPTIONAL ALIGNMENTS: OPTION 1**





**OPTIONS / US-270  
OPTIONAL ALIGNMENTS: NEW**

- **EXISTING ALIGNMENT**

- **PROS:**

- IMPROVED ROADWAY WIDTH
- IMPROVED SAFETY FEATURES
- IMPROVED 90-DEGREE CURVE

- **CONS:**

- WILL REQUIRE ROAD CLOSURE DURING CONSTRUCTION
- WILL HAVE GREATER RESIDENTIAL IMPACTS
- WILL REQUIRE AN INCREASED SEQUENCING PERIOD
- WILL RESULT IN LONG TERM EROSION ISSUES
- NEW BRIDGE WILL BE MORE COSTLY
- RAILROAD PROXIMITY

**ALIGNMENT 1  
(Existing)**

Length of Project	4,437 ft
Cost	\$4.6 million
No. of Parcels	31
Acres of R/W	9.6
No. of Structures Impacted	12
Commercial	1
Outbuilding	2
Utilities Impacted	6
No. wetlands Impacted	1
Acres of Wetlands Impacted	0.46



**OPTIONS / US-270**  
**OPTIONAL ALIGNMENTS: OPTION 2**





**OPTIONS / US-270  
OPTIONAL ALIGNMENTS: NEW**

■ **NEW ALIGNMENT**

**ALIGNMENT 2**

■ **PROS:**

- **KEEPS THE ROAD OPEN DURING CONSTRUCTION**
- **ELIMINATES 90-DEGREE TURN**
- **PROVIDES PROPER DRAINAGE**
- **REDUCES IMPACTS**
- **IMPROVED CREEK CROSSING**

Length of Project 4,687 ft

Cost \$4.9 million

No. of Parcels 33

Acres of R/W 19.6

No. of Structures Impacted 4

Commercial 0

Outbuilding 1

Utilities Impacted 6

No. wetlands Impacted 2

Acres of Wetlands Impacted 0.72

■ **CONS:**

- **COST**
- **WETLAND IMPACT**



**OPTIONS / US-270**  
**OPTIONAL ALIGNMENTS: OPTION 3**





**OPTIONS / US-270  
OPTIONAL ALIGNMENTS: NEW**

■ **NEW ALIGNMENT**

**ALIGNMENT 3**

■ **PROS:**

- **KEEPS THE ROAD OPEN DURING CONSTRUCTION**
- **ELIMINATES 90-DEGREE TURN**
- **PROVIDES PROPER DRAINAGE**
- **REDUCES IMPACTS**
- **IMPROVED CREEK CROSSING**

Length of Project	5,028 ft
Cost	\$4.7 million
No. of Parcels	31
Acres of R/W	18.6
No. of Structures Impacted	4
Commercial	1
Outbuilding	1
Utilities Impacted	6
No. wetlands Impacted	1
Acres of Wetlands Impacted	0.28

■ **CONS:**

- **COST**
- **WETLAND IMPACTS**



**OPTIONS / US-270**  
**OPTIONAL ALIGNMENTS: OPTION 4**





## OPTIONS / US-270 OPTIONAL ALIGNMENTS: NEW

### ■ NEW ALIGNMENT

#### ALIGNMENT 4

#### ■ PROS:

- KEEPS THE ROAD OPEN DURING CONSTRUCTION
- ELIMINATES 90-DEGREE TURN
- PROVIDES PROPER DRAINAGE
- REDUCES IMPACTS
- IMPROVED CREEK CROSSING

Length of Project 5,712 ft

Cost \$4.5 million

No. of Parcels 28

Acres of R/W 19.8

No. of Structures Impacted 3

Commercial 1

Outbuilding 1

Utilities Impacted 6

No. wetlands Impacted 2

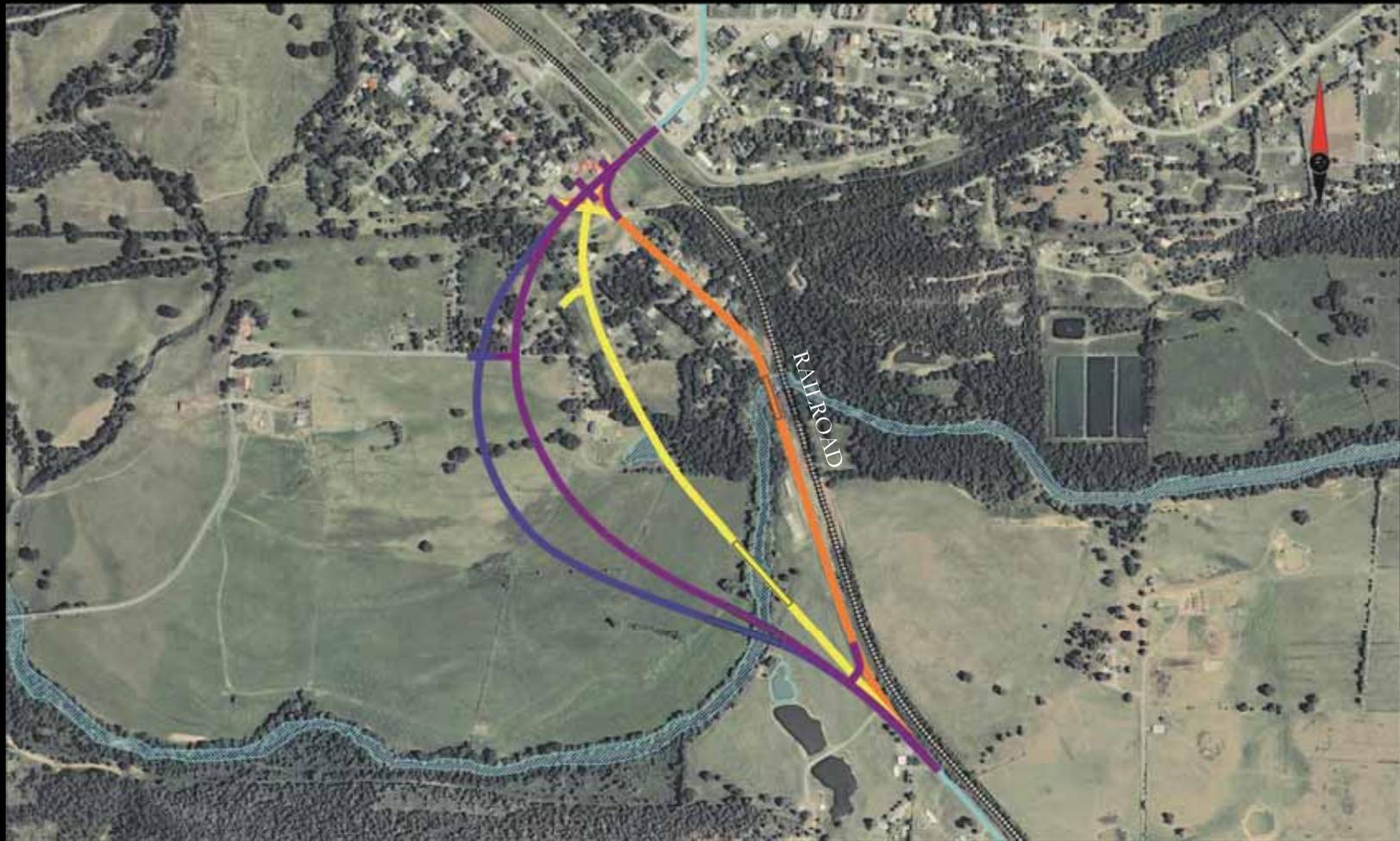
Acres of Wetlands Impacted 0.32

#### ■ CONS:

- COST
- WETLAND IMPACTS



**OPTIONS / US-270  
OPTIONAL ALIGNMENTS**



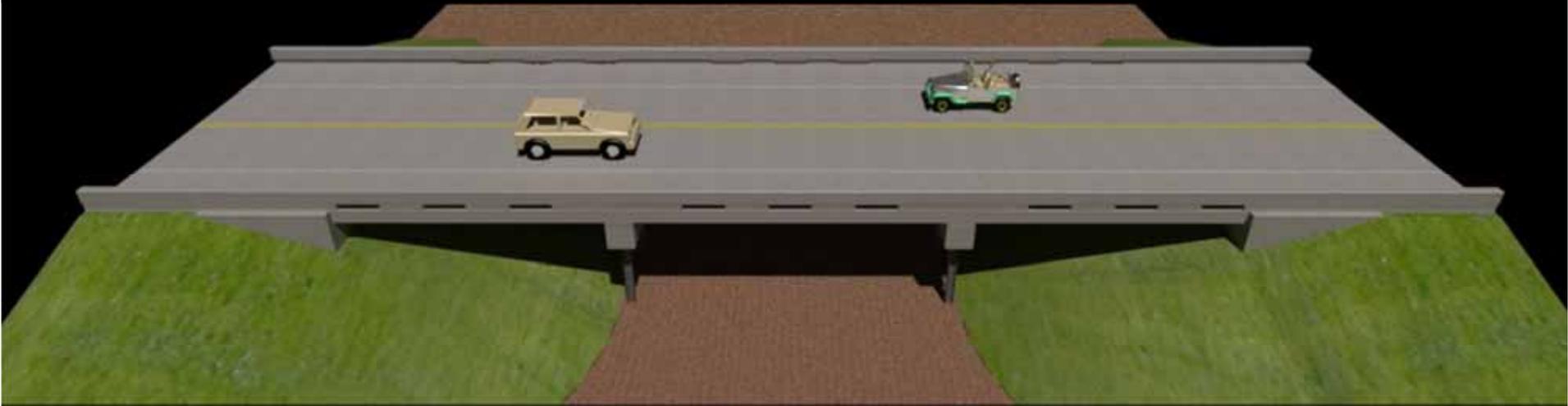


## OPTIONS / US-270 COMPARISON

	<b>ALIGNMENT 1 (Existing)</b>	<b>ALIGNMENT 2</b>	<b>ALIGNMENT 3</b>	<b>ALIGNMENT 4</b>
<b>Length of Project</b>	4,437 ft	4,687 ft	5,028 ft	5,712 ft
<b>Cost</b>	\$4.6 million	\$4.9 million	\$4.7 million	\$4.5 million
<b>No. of Parcels</b>	31	33	31	28
<b>Acres of R/W</b>	9.6	19.6	18.6	19.8
<b>No. of Structures Impacted</b>	12	4	4	3
<b>Commercial</b>	1	0	1	1
<b>Outbuilding</b>	2	1	1	1
<b>Utilities Impacted</b>	6	6	6	6
<b>No. wetlands Impacted</b>	1	2	1	2
<b>Acres of Wetlands Impacted</b>	0.46	0.72	0.28	0.32



**EXAMPLE OF A TYPICAL  
BRIDGE REPLACEMENT**





**EXAMPLE OF A TYPICAL 2 LANE  
ROADWAY SECTION**





**EXAMPLE OF A TYPICAL 2 LANE  
ROADWAY SECTION**





# **SUMMARY**

## **Proposed Project Information**

[WWW.ODOT.ORG/MEETINGS/OTHER.PHP](http://WWW.ODOT.ORG/MEETINGS/OTHER.PHP)



## SUMMARY

- **RECONSTRUCTION**
  - HIGHWAY RECONSTRUCTION TO INCLUDE TWO 12' LANES WITH 8' PAVED SHOULDERS AND A PORTION IN TOWN WITH CURB & GUTTER
  - IMPROVED SAFETY FEATURES
  - REPLACEMENT OF BRIDGE STRUCTURE WITH NEW STATE OF THE ART BRIDGE STRUCTURE AT CASTON CREEK
  - PROJECT TO BE CONSTRUCTED UNDER TRAFFIC WITH OPTIONS 2 THROUGH 4 (*NO ROAD CLOSURE*)
  
- **TOTAL ESTIMATED PROJECT COST:**
  - \$5.0 MILLION



## SUMMARY

- **RIGHT OF WAY & UTILITY RELOCATION:**
  - PROJECTED TO START BY 2016
  
- **CONSTRUCTION:**
  - PROJECTED TO START BY 2019
  
- **FUTURE ADT (AVERAGE DAILY TRAFFIC) COUNT:**
  - ESTIMATED AT 2,300 VEHICLES A DAY BY 2032



**QUESTIONS?**

**COMMENTS?**

[WWW.ODOT.ORG/MEETINGS/OTHER.PHP](http://WWW.ODOT.ORG/MEETINGS/OTHER.PHP)

# THANK YOU FOR COMING

**ODOT PUBLIC MEETING  
US-270 IN WISTER, OK**

<http://www.odot.org/meetings/other.php>

