



WELCOME

Meeting For SH-9 From East of Stinking Creek Through SH-58 in Carnegie, Kiowa & Caddo Counties

December 18, 2014

TEAM INTRODUCTIONS

- Federal Highway Administration
 - John Hartley Environmental Program Manager

ODOT

- Bob Rose Division 7 Engineer
- Brent Almquist Division 5 Engineer
- Siv Sundaram Environmental Programs Division
- Greg Worrell Division 7 NEPA Project Manager
- Rhonda Fair Tribal Liaison for Cultural Resources
- Scott Sundermeyer Cultural Resources
- Jay Herbert Right-of-Way

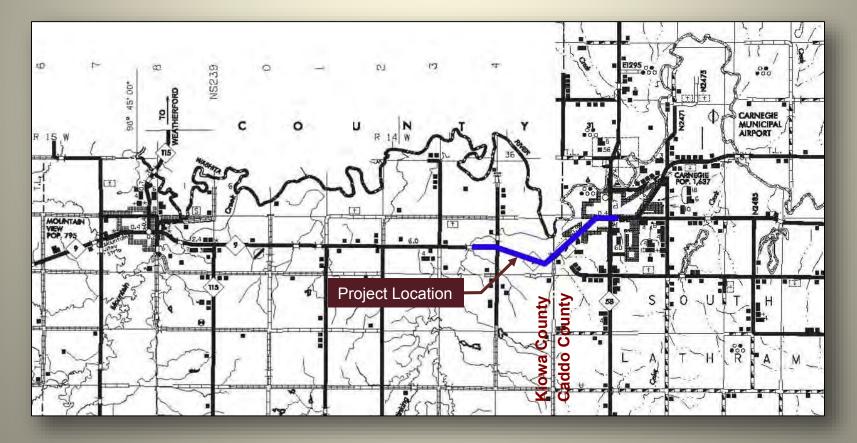
GARVER

- Jenny Sallee Roadway Support
- Kirsten McCullough Environmental Lead



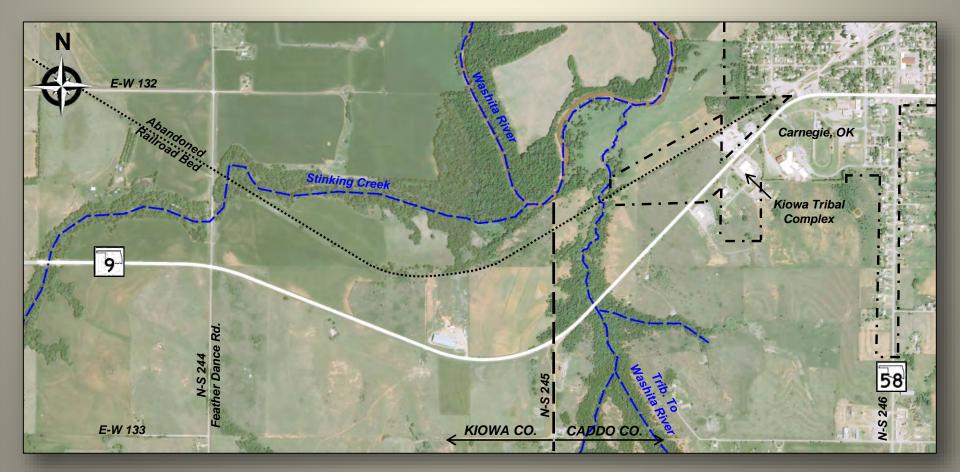
PURPOSE OF THIS MEETING

...is to Discuss the Proposed Improvements to SH-9 From Stinking Creek Through SH-58 in Carnegie Located in Kiowa & Caddo Counties



PURPOSE OF THE PROJECT

...is to Correct the Deficient Curves on SH-9 and Improve the Safety of the Roadway



PROJECT DEVELOPMENT PROCESS





PROJECT AREA INFORMATION

General Data

- 2-Lane Roadway With 3-ft Shoulders
- Speed Limit Posted 45, 55 and 65 mph
- 1 Bridge Structure (Trib. to Washita River)
- Existing (2014) Traffic: 1,700 Vehicles/Day
- Projected Traffic (2035): 2,400 Vehicles/Day (11% Trucks)







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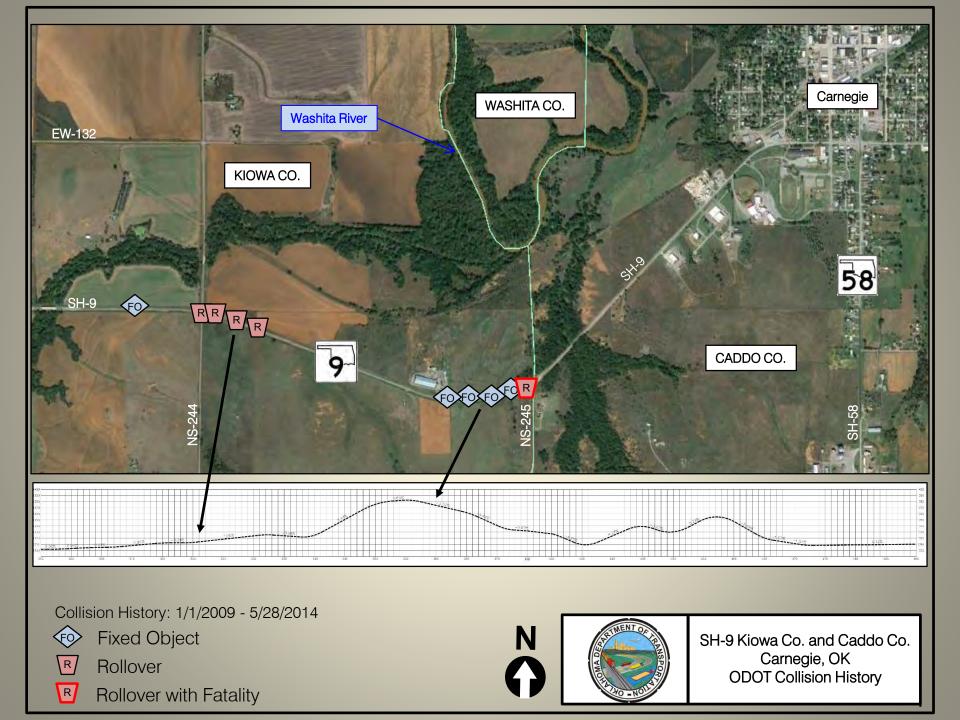
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Collision Data

- Total: 10 Documented Accidents (2009-2014)
 - 4 Personal Property Damage
 - 5 Injury
 - 1 Fatal
- Slightly Higher Than the State Average for Collisions







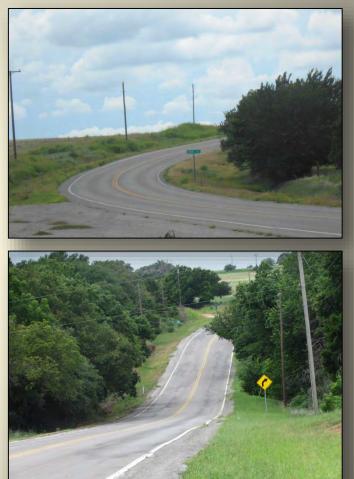
EXISTING CONDITIONS WARRANT IMPROVEMENT

Roadway Deficiencies

- Narrow Shoulders
- Horizontal Curves (Curvature and Superelevation)
- Vertical Curves 16 total, 1 Meets Current Standards
- Limited Sight Distance

Bridge Deficiencies

- Bridge Box Built in 1929
- Safety Slopes are Inadequate



IdentifyInitial DataProblemCollection

Preliminary Options Option Screening

EXISTING CONDITIONS WARRANT IMPROVEMENT cont'd....

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GATHER PROJECT INFORMATION

Option

Screening

Identified Project Constraints

- Kiowa Tribal Complex
- SH-58 Intersection
- Residences/Businesses
 - Driveways
 - Local Access
- Carnegie School & Ball Fields
- o Public Shelter
- Washita River & Tributary
- o Utilities

Identify

Problem

- Wichita Mountains State Scenic Byway
- Environmental Considerations

Initial Data

Collection

Preliminary

Options





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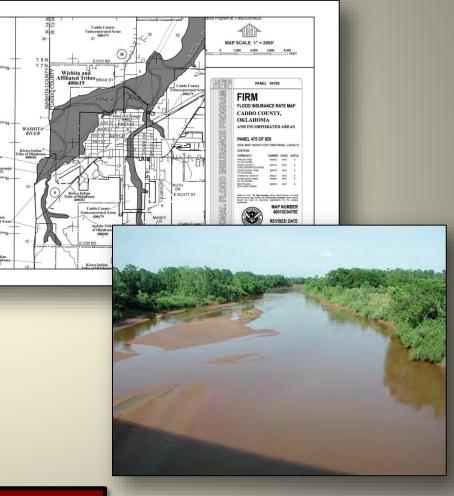
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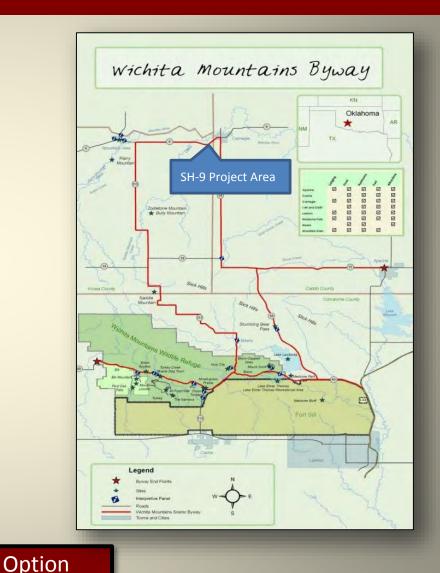
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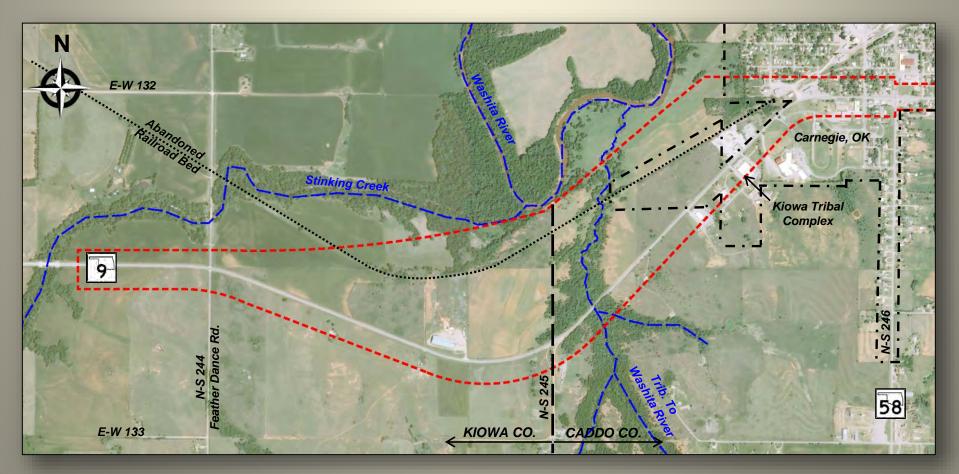


ENVIRONMENTAL

ENVIRONMENTAL CONDITIONS

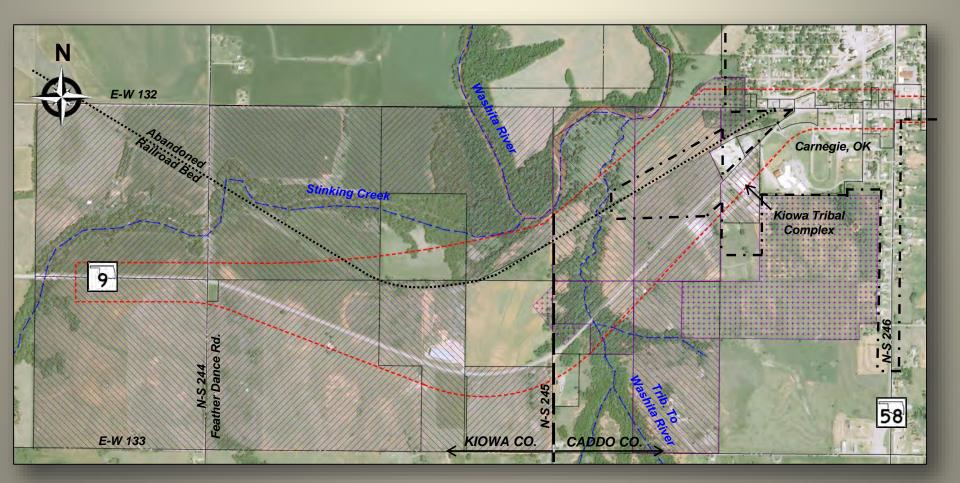
Study Area

- Area of Data Collection
- Encompassed all Options
- Database Research and Field Reconnaissance



Tribal Properties

- Tribal Trust Lands (Hatched)
- Additional Tribal Lands (Stippled)

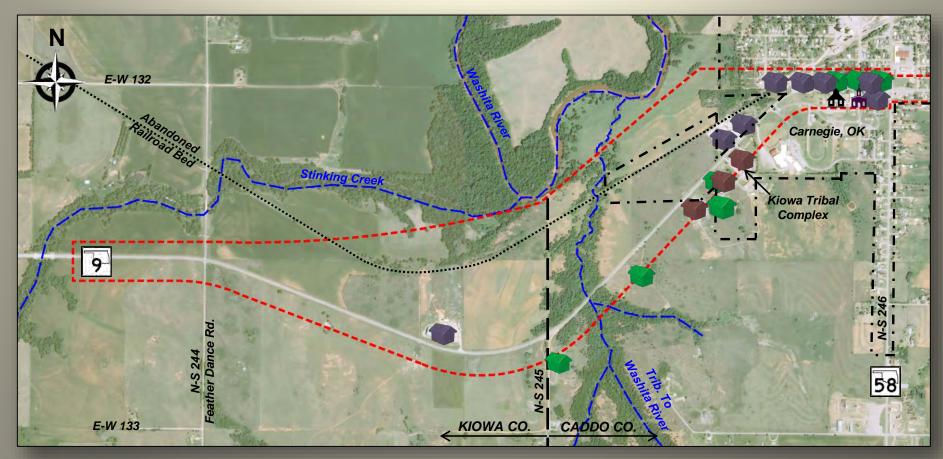


Homes and Businesses

- Primarily within Carnegie
- Also a Church and School
- Kiowa Tribal Complex

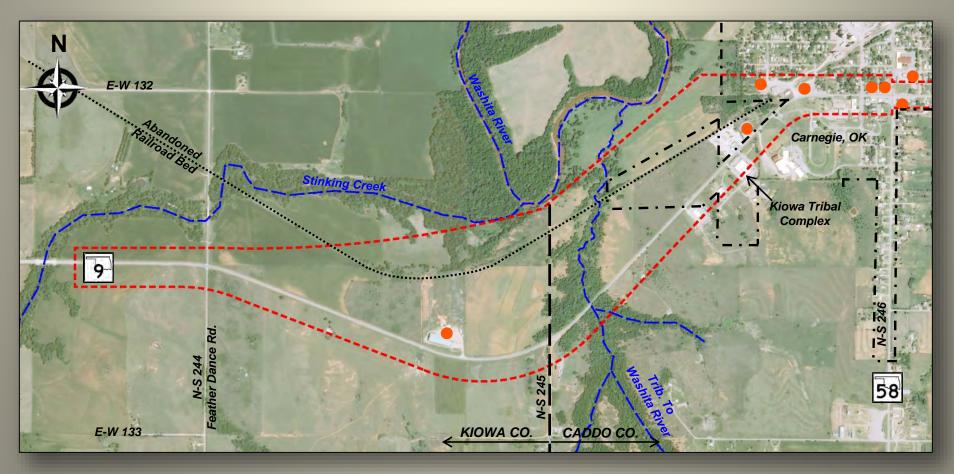


Kiowa Tribal Complex



Storage Tanks

- Petroleum & Propane
- Above Ground and Underground
- Some Have Been Reported as Leaking



Cultural Resources and Parks

- Carnegie School Ball Fields
- 1930s Underpass and Buildings

Carnegie School Ball Fields

1930s Underpass & Buildings



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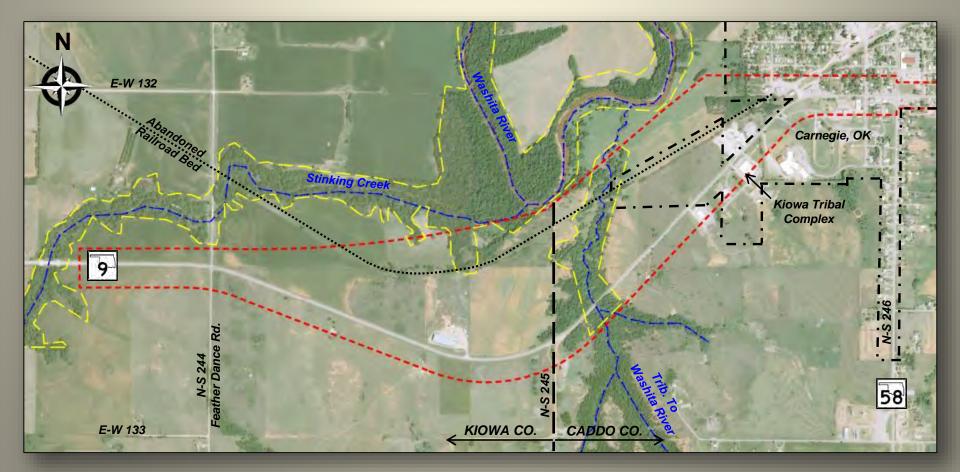
Carnegie School Ball Fields

1930s Underpass & Buildings



Wetlands and Streams

- Stream Tributary to Washita River
- Wetlands Associated With the Tributary and Stinking Creek



DEVELOPMENT OF OPTIONS

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Proposed Design Criteria

- Roadway Section for Rural Area
 - Two 12-ft Lanes
 - 8-ft Shoulders
- Roadway Section for Carnegie
 - Two Lanes
 - Curb & Gutter
 - Sidewalks
 - Variable Width to Minimize Impacts
 - Turn Lane at Access Points
- Design Speeds
 - 65 mph (Rural)
 - 45 mph (Carnegie)
- Improvements at SH-58 Intersection to be Determined

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Roadway Section for Carnegie

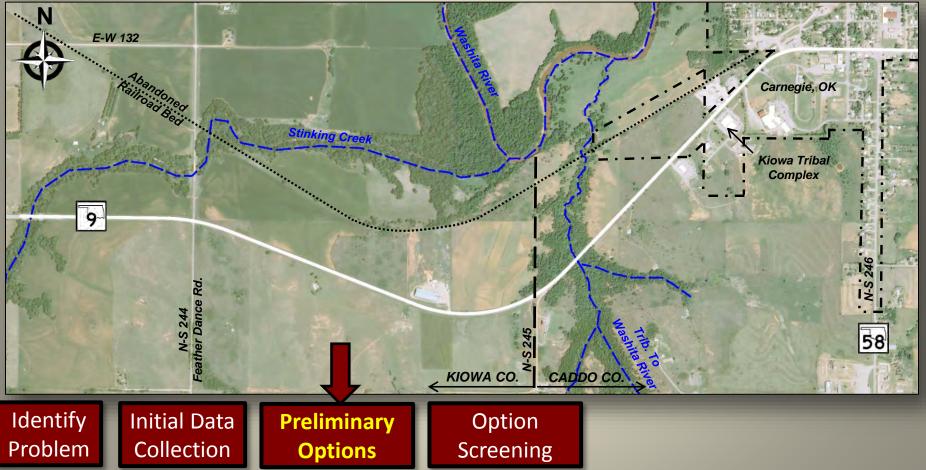
IdentifyInitial DataProblemCollection

Preliminary Options Option Screening

DEVELOPMENT OF OPTIONS cont'd....

Improve Existing

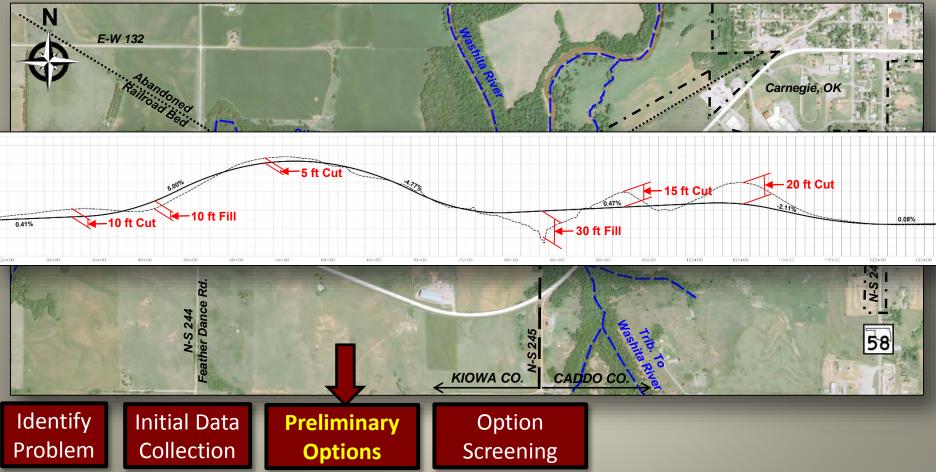
- Reconstruct Majority of Existing
- Not Feasible Without Significant Impacts and Road Closure or Extensive Temporary Pavement



DEVELOPMENT OF OPTIONS cont'd....

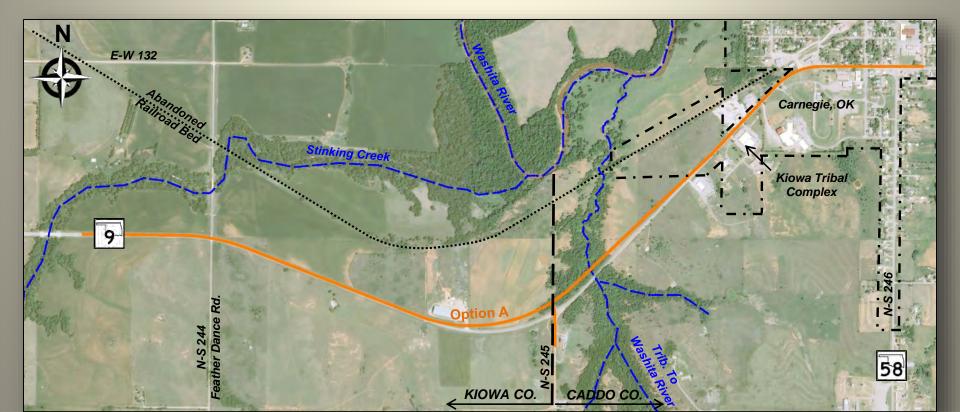
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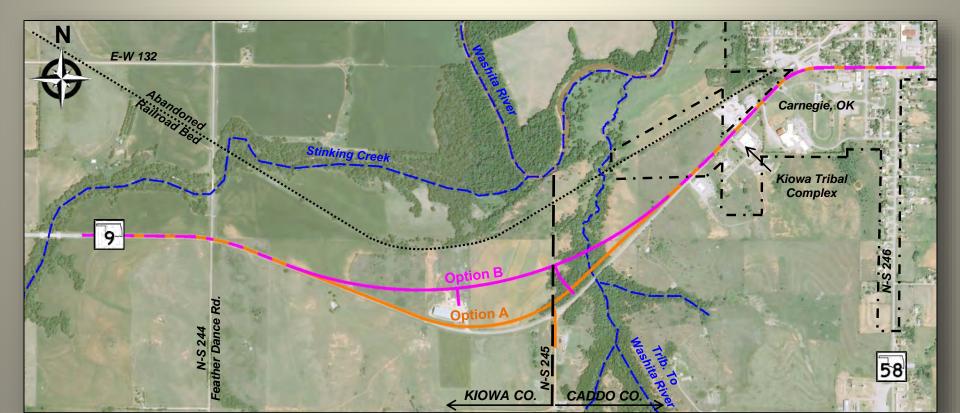
OPTION A

- Closest to Existing Alignment While Still Allowing SH-9 to Remain Open
- Impacts to Several Homes & Businesses
- Impacts to Kiowa Complex (Frontage, Parking)
- Impacts to Carnegie School Grounds and Ball Fields



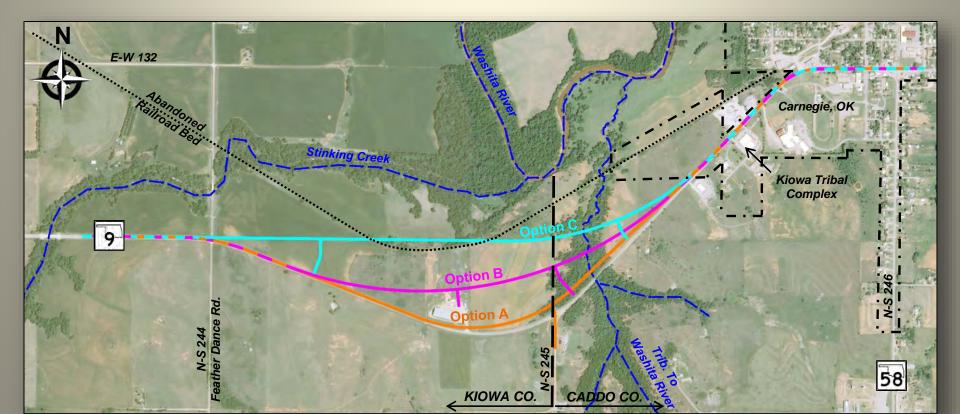
OPTION B

- Shifted North of Option A to Avoid Business Impacts
- Impacts to Other Homes & Businesses Remain
- Impacts to Kiowa Complex (Frontage, Parking)
- Impacts to Carnegie School Grounds and Ball Fields



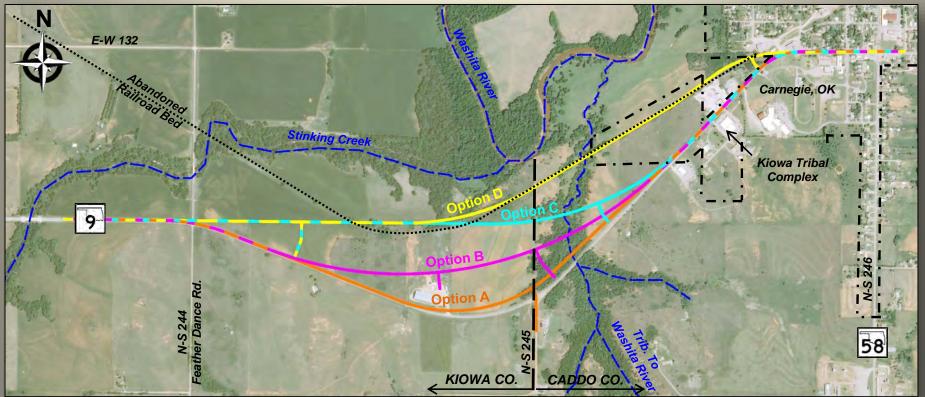
OPTION C

- Shifted North of Option B to Follow Section Line
- Impacts to Homes & Businesses Remain
- Impacts to Kiowa Complex (Frontage, Parking)
- Impacts to Carnegie School Grounds and Ball Fields



OPTION D

- Offset Alignment Following Old Railroad Bed (More Desirable Grades)
- Impacts to Homes & Businesses Minimized
- Avoids School Ball Fields
- Does not Impact Kiowa Complex Directly
- More Potential to Impact Wetlands
- Existing Road to Remain for Local Access

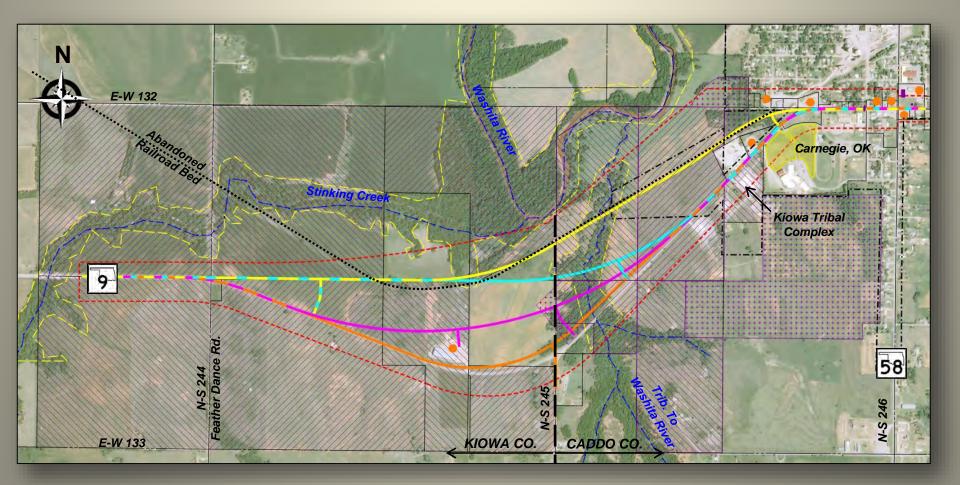


COMPARISON OF OPTIONS

ENVIRONMENTAL IMPACTS

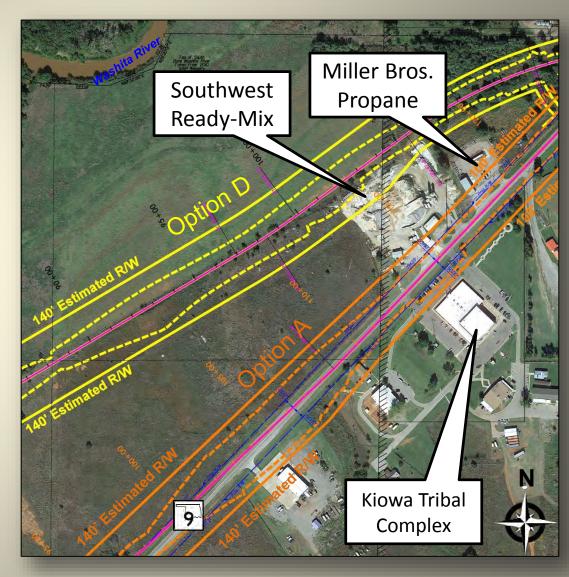
Compare the Impacts of the Various Options

- Overlay Each Option and Tabulate Impacts
- Develop a Relative Means of Comparison

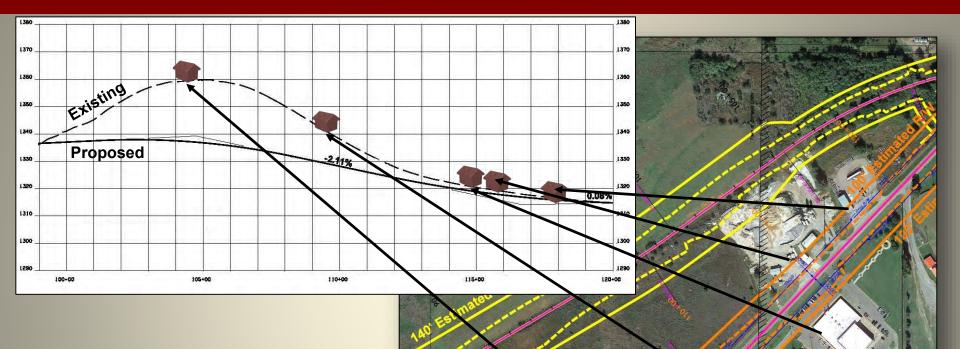


KIOWA TRIBAL COMPLEX & BUSINESSES

- Options A, B, and C Will Impact Property, Parking and a Residence at the Kiowa Complex
- Options A, B, & C Will Also Impact the Concrete Ready-Mix and Propane Businesses
- Option D Will Not Require Property from the Kiowa Complex or Propane Business
- Option D May Require Property from the Ready-Mix Concrete Plant
- Alignments are Preliminary and Impacts will be Minimized Wherever Possible



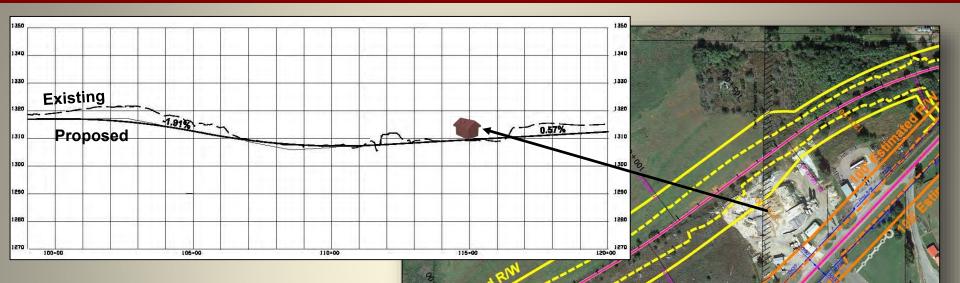
OPTIONS A, B, AND C PROFILE



9

 Options A, B, and C Require a Large Cut to Reduce the Hill

OPTION D PROFILE

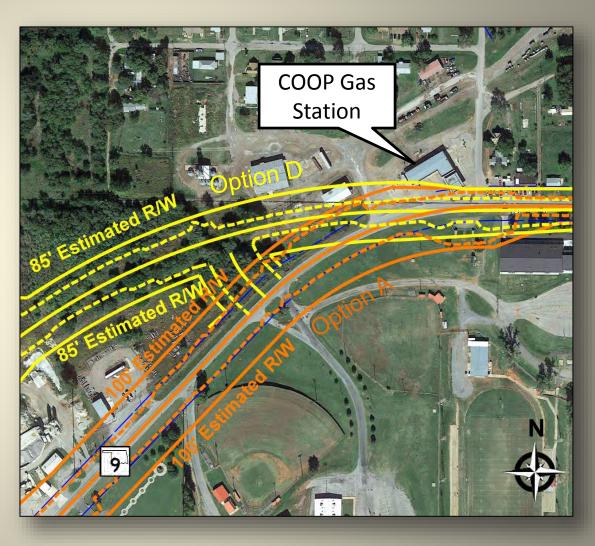


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 Option D is at More Gentle Grade Requiring Less Vertical Adjustment

COOP GAS STATION

- Currently All of the Proposed Options will Affect the COOP Gas Station
- Impacts will be Minimized Wherever Possible During Final Design



PEDESTRIAN UNDERPASS



- All of the Options Tie Back to the Existing SH-9 at This Location
- Built in the 1930s and May Have Historical Significance
- Is it Used? By Whom and How Often?
- It is Significant to the Community? For What Reasons?

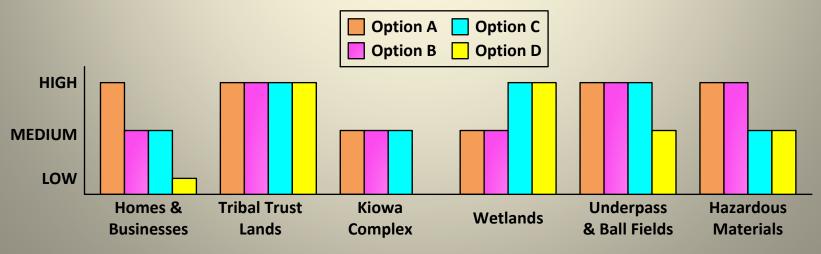
ENVIRONMENTAL IMPACTS

Impacts are Highest Under Options A and B

- Greatest Impacts to Homes & Businesses
- Greatest Impacts to School & Ball Fields
- Requires Property from Kiowa Tribal Complex
- Most Potential to Encounter Contaminated Properties

Impacts are Lowest Under Option D

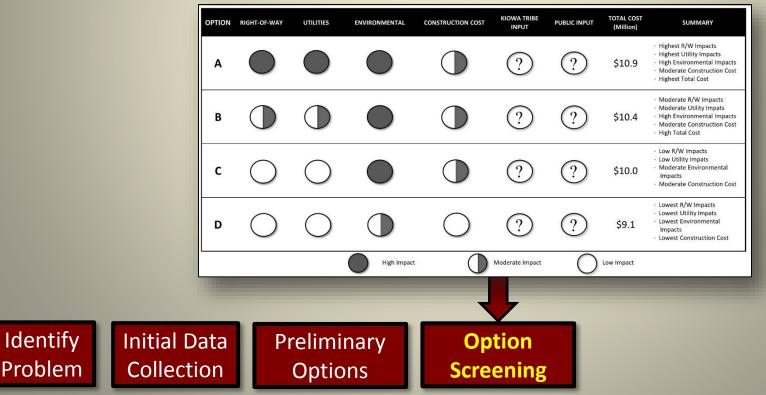
- Fewest Impacts to Homes and Businesses
- Avoids Impacts to Ball Fields
- Lowest Potential to Encounter Contaminated Properties
- More Potential to Impact Wetlands



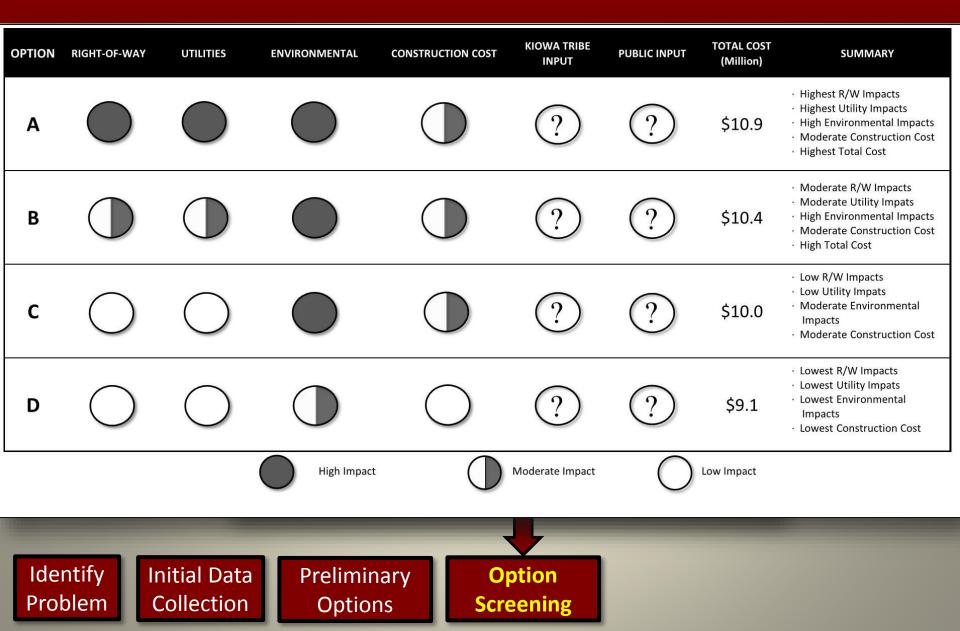
COMPARISON OF OPTIONS

Evaluation Criteria

- Impacts to Private & Tribal Property
- Impacts to Businesses & Kiowa Complex
- Impacts to Environmental Resources
- Constructability and Maintenance of Traffic During Construction
- Cost Construction, Right-of-Way, Utilities
- Tribal and Public Input

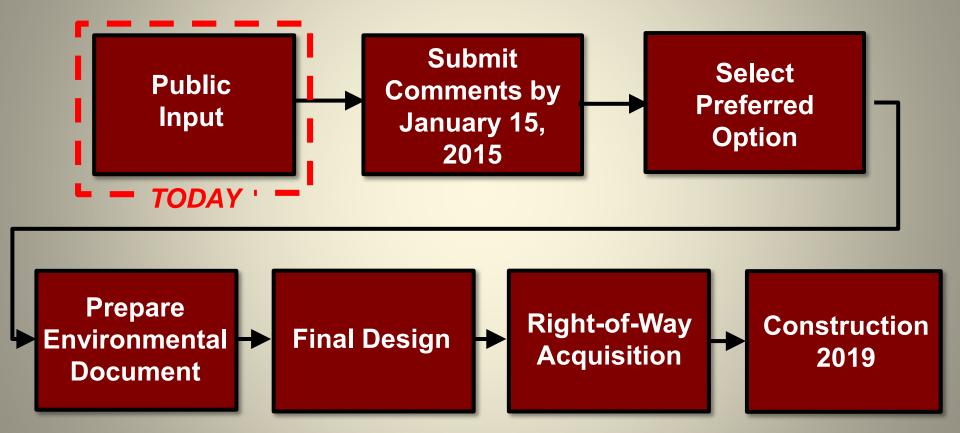


COMPARISON OF OPTIONS cont'd....



NEXT STEPS

NEXT PROJECT STEPS



THANK YOU!

Please Submit Your Comments by: January 15, 2015

Leave Your Comment Form Here Tonight

 Mail the Comment Form Back to ODOT: Environmental Programs Division 200 NE 21st Street Oklahoma City, OK 73105

Email Your Comments to: <u>ENVIRONMENT@ODOT.ORG</u>

 Information is Available at: <u>http://www.okladot.state.ok.us/meetings/other.php</u>