WELCOME

Public Meeting For
SH-20 Keetonville
(209 E. Ave to Franklin Rd.)
In Rogers County

May 12, 2015
TEAM INTRODUCTIONS

- **ODOT**
  - Randle White - Division 8 Engineer
  - Mark Zishka - Division 8 Construction Engineer
  - Jennifer Tyler - Claremore Residency
  - Siv Sundaram - Environmental Programs
  - Ben Mazloompour - Roadway
  - Mohammed Elyazgi - Bridge
  - Diana Barlow - Right-of-Way & Utilities
  - Frank Roesler III - Public Involvement Officer

- **GARVER**
  - Brent Schniers - Project Manager
  - Kirsten McCullough - Environmental Lead
  - Kevin Moore - Roadway Lead
  - Matthew Youngblood - Bridge Lead
  - Nick Braddy - Roadway Engineer
  - Lacee Stanley - Environmental Specialist
PURPOSE OF THIS MEETING

...is to Present Information and Obtain Public Input on the Reevaluation of SH-20 From NS-408 (209 E. Ave.) to NS-411 (Franklin Rd.) in Rogers County
PURPOSE OF THE PROJECT

...is to Improve Safety and Traffic Mobility on SH-20
A Corridor Study and Environmental Assessment (EA) for SH-20 from US-75 to Claremore was Completed in 2000 With a Finding of No Significant Impact (FONSI) Issued by the Federal Highway Administration (FHWA).
PROJECT HISTORY

- EA Approved a 4-Lane Section
  - On Existing Alignment From US-75 to 209th E. Ave.
  - New Alignment at Keetonville Hill and Across Verdigris River

Source: 2000 Environmental Assessment
PROJECT HISTORY

- The EA Approved a 4-Lane Divided Roadway With Shoulders
- SH-20 is on a New Alignment Southwest of Existing SH-20 for the Keetonville Hill Project

Source: 2000 Environmental Assessment
PROJECT HISTORY

- **Modifications to the Realignment and Typical Section are Incorporated into the Project Because of New Developments**
  - Change to a 5-Lane Curb and Gutter Roadway With Center Turn Lane
  - Slight Modification to the Horizontal Alignment to Avoid New Homes
  - More Investigation Into Vertical Profile
These Steps Were all Followed as Part of Development of the EA
ODOT is Revisiting These Steps in More Detail for the Reevaluation of this Segment of SH-20
What are the Issues With Existing SH-20?
### PROJECT CORRIDOR INFORMATION

**General Data**
- Two-Lane Roadway - Minor Arterial
- Local Intersecting Roads
  - NS-408 (209th E. Ave.)
  - NS-410 (Keetonville Rd.)
  - NS-411 (Franklin Rd.)

**Two Existing Bridge Structures**
- Verdigris River Overflow
- Verdigris River

**Traffic**
- Current (2014) 12,500 Vehicles/Day
- Future (2037) 18,600 Vehicles/Day

**Existing Speed**
- Posted at 55 mph
- Several Areas With Speed Warnings
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EXISTING CONDITIONS WARRANT IMPROVEMENT

- Hill Slides
- Roadway Deficiencies
  - Sharp Horizontal Curves
  - Limited Sight Distance
  - Narrow Shoulders
  - Restricted Traffic Flow/Capacity
EXISTING CONDITIONS
WARRANT IMPROVEMENT cont’d....

Existing Bridge Conditions

- Age of Structures vs. Design Life
- SH-20 Over Tributary to Verdigris River
  - Narrow Width (31’-0” Clear Roadway)
- SH-20 Over Verdigris River
  - Narrow Width (31’-0” Clear Roadway)
  - Considered “At-Risk” – Near Structurally Deficient
EXISTING DEFICIENCIES LEAD TO HIGH ACCIDENT RATE

Accident Data
- 138 Total Over Previous 7 Years (2009-2015)
  - 59 Property Damage
  - 76 Injury
  - 3 Fatal

More Injury Collisions Compared to Statewide Rate

Identify Problem
Initial Data Collection
Preliminary Alternates
Alternate Screening
What are the Project Area Constraints?
PROJECT AREA CONSTRAINTS

- Identified Key Project Features/Constraints and Collected Data
  - Developments
    - Homes
    - Businesses
  - Traffic Data
  - Right-of-Way
  - Utilities
  - Geological
  - Environmental
### Study Area
- Area of Data Collection
- Investigate Changed Conditions Since 2000 EA
- Compare the Impacts of the Different Vertical Options
- Database Research and Field Reconnaissance
Homes and Businesses
- Numerous Homes and Businesses
- Primary Avoidance Constraint
- Noise Also a Consideration
### Community Facilities
- Limestone Fire Department
- Hilldale Baptist Church
- Lone Elm Cemetery
- All Will Be Avoided

#### Map
- Limestone Fire Department
- Hilldale Baptist Church
- Lone Elm Cemetery

#### Process
- Identify Problem
- Initial Data Collection
- Preliminary Alternates
- Alternate Screening

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To Owasso

To Claremore
Streams and Wetlands
  - Numerous Streams and Wetlands
  - Verdigris River
    - Critical Habitat for Rabbitsfoot (Mussel)
Streams and Wetlands
- Numerous Streams and Wetlands
- Verdigris River
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PROJECT AREA CONSTRAINTS

- **Oil/Gas Wells**
  - Locations From OK Corporation Commission Info
  - Some Were Field Identified

Source: Oklahoma Corporation Commission
What Alternates Did We Consider?
DEVELOPMENT OF ALTERNATES

- Consistent With Approved Alignment From EA
- Proposed Improvements for all Alternates
  - 5-Lane Roadway Section
    - Four 12-Foot Driving Lanes (Two Each Direction)
    - 14-Foot Center Turn Lane
    - Curb and Gutter With 2-Foot Shoulder
    - 45 mph Design Speed
  - Reconstruct Bridges
- Improvements Lead to Increased Capacity and Safety

[Diagram of existing and proposed sections]
DEVELOPMENT OF ALTERNATES cont’d....

- Improvements to Existing Facility not Feasible
  - Difficult to Keep Existing Roadway Open During Construction
  - Existing Sharp Horizontal Curves
  - Hill Slides
DEVELOPMENT OF ALTERNATES cont’d....

- **SH-20 Horizontal Alignment**
  - Same for all Alternatives Considered
  - Follows 2000 EA Alignment

- **Vertical Alignment**
  - 3 Alternatives Considered
  - Elevation Change at Keetonville
    - Cut/Fill/Bridge
    - County Roads

Identify Problem
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**Preliminary Alternates**
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DEVELOPMENT OF ALTERNATES cont’d.

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Identify Problem  
Initial Data Collection  
**Preliminary Alternates**  
Alternate Screening
ALTERNATE EVALUATION/SCREENING

- 3 Vertical Alternatives Considered
- Evaluation Criteria
  - Impacts to Property
  - Construction Methods
  - Impacts to Environmental Features
  - Costs – Construction, Right-of-Way, Utilities
- Comparison Matrix
- Design Report
- Review Meetings
## ALTERNATE EVALUATION/SCREENING

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<th>ALTERNATE</th>
<th>COST</th>
<th>GRADING</th>
<th>BRIDGE</th>
<th>RELOCATIONS</th>
<th>ENVIRONMENTAL</th>
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### Identifying Problem
- Initial Data Collection
- Preliminary Alternates
- **Alternate Screening**
- Resulted in the Proposed Alternate
  - Balanced Excavation Profile
  - Lower Fill Heights at Intersections
  - Lower Cost

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What Are the Features of the Proposed Alternate?
**PROPOSED ALTERNATE**

- **Proposed Alternate**
  - 5-Lane Section (Curb/Gutter)
  - New Horizontal and Vertical Alignment
  - Removes Portions Existing SH-20
  - Realigned County Rd. Connections
  - Reconstructs Bridges
  - Total Project Cost $53.8M
PROPOSED ALTERNATE cont’d....
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What Are the Impacts of the Proposed Alternate?
POTENTIAL IMPACTS

- Potential Impacts – Based on Reconnaissance Data:
  - Acquisition of Private Property and Relocation of Residents
  - No Impacts to Community Facilities
  - Some Noise Impacts – Subject to Further Study
  - Changes to Local Road Access and Driveways
  - Channelization of Streams and Filling of Wetlands
  - Bridge Designed to Minimize Impacts to Verdigris River and Rabbitsfoot Critical Habitat
  - Impacts to Oil and Gas Wells
  - Visual Changes – Large Cuts and Fills on Keetonville Hill

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- Impacts Will be Minimized as Much as Possible During Design
What Are the Next Steps?
ENVIRONMENTAL PROCESS

- Detailed Environmental Studies Will be Performed
  - Archaeological and Historic Survey
  - Wetland Delineations
  - Biological Assessment – USFWS Consultation
  - Hazardous Waste Investigation
  - Noise Study

- Re-Solicit Input from Resource Agencies and Local Officials

- Proposed Design and Environmental Impacts Will be Compared With the Original Environmental Assessment

- An Environmental Reevaluation Will Determine if the Findings of the Original EA Still Apply
NEXT PROJECT STEPS

Public Input

Submit Comments by May 26, 2015

Complete Environmental Reevaluation

Final Design

Right-of-Way Acquisition

Construction 2017

TODAY
THANK YOU!

Please Submit Your Comments by May 26, 2015

✓ Leave Your Comment Form Here Tonight

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

✓ Email Your Comments to ENVIRONMENT@ODOT.ORG

QUESTIONS?