Oklahoma Department of Transportation

Public Meeting

SH-99 over the Arkansas River

Proposed Bridge Replacement

02/18/2016 @ 6:00pm

Cleveland Community Center

Before we get started…

…Please turn off or mute any electronic devices, and make sure you have a Handout and Comment Form available. Please hold your questions until after the presentation has ended.

Division 8

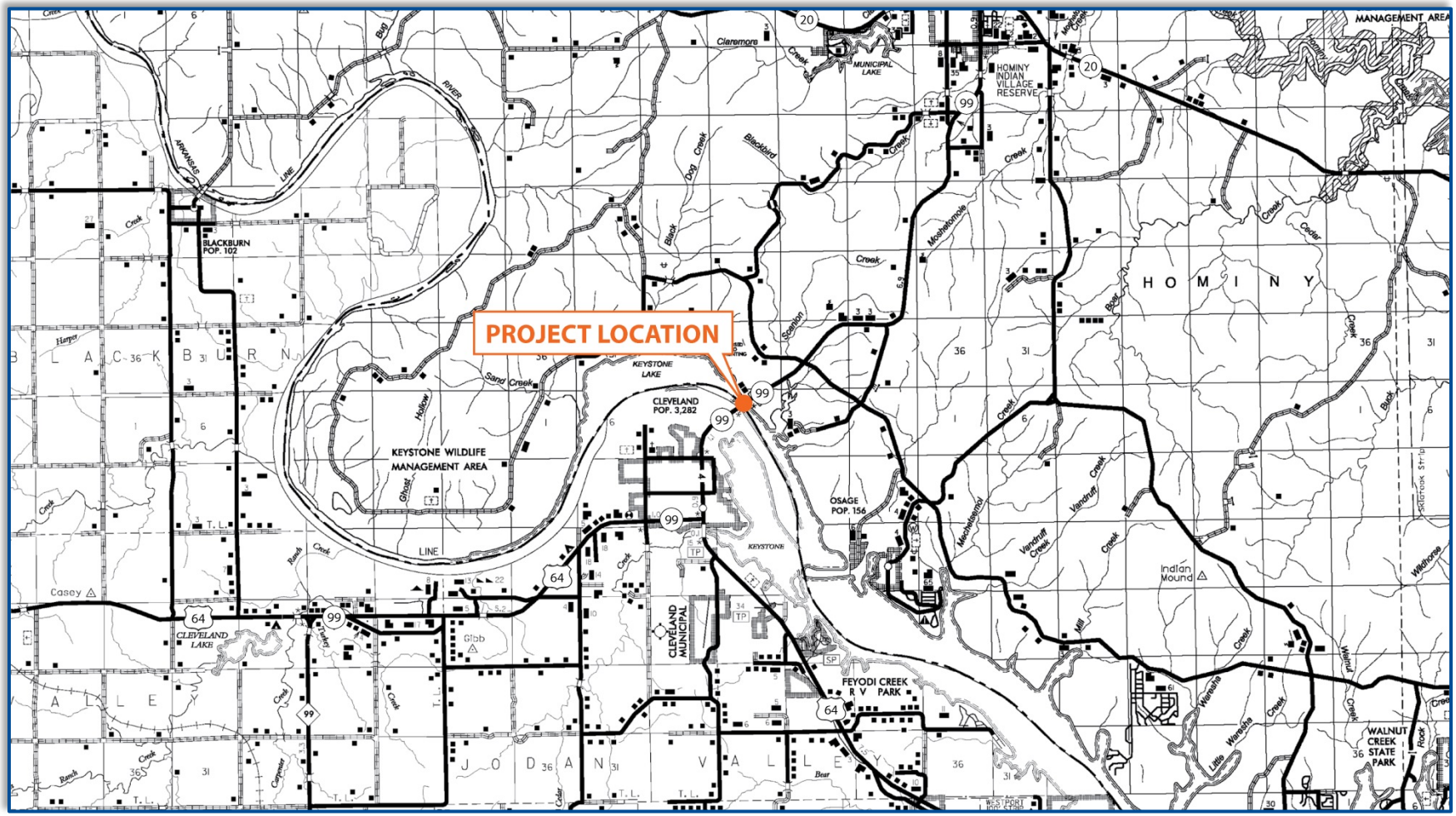
Counties Serviced	11 Counties
Total Road Miles*	1,664 Miles
Total Interstate Miles*	40 Miles
Total Bridges	1,118 Bridges

* Does not include Turnpike Mileage

Presentation Outline…

- Meeting and Project Purpose
- Existing Conditions
- Highway Traffic Volumes
- Project Scope
- Project Constraints
- Bridge Replacement Options
- Project Timeline
- General Questions & Comments

Project Location…



Purpose of this Meeting…

…is to inform the public & solicit comments about the Department's proposed plan to replace the SH-99 bridge over the Arkansas River and the consideration to close the bridge during construction.

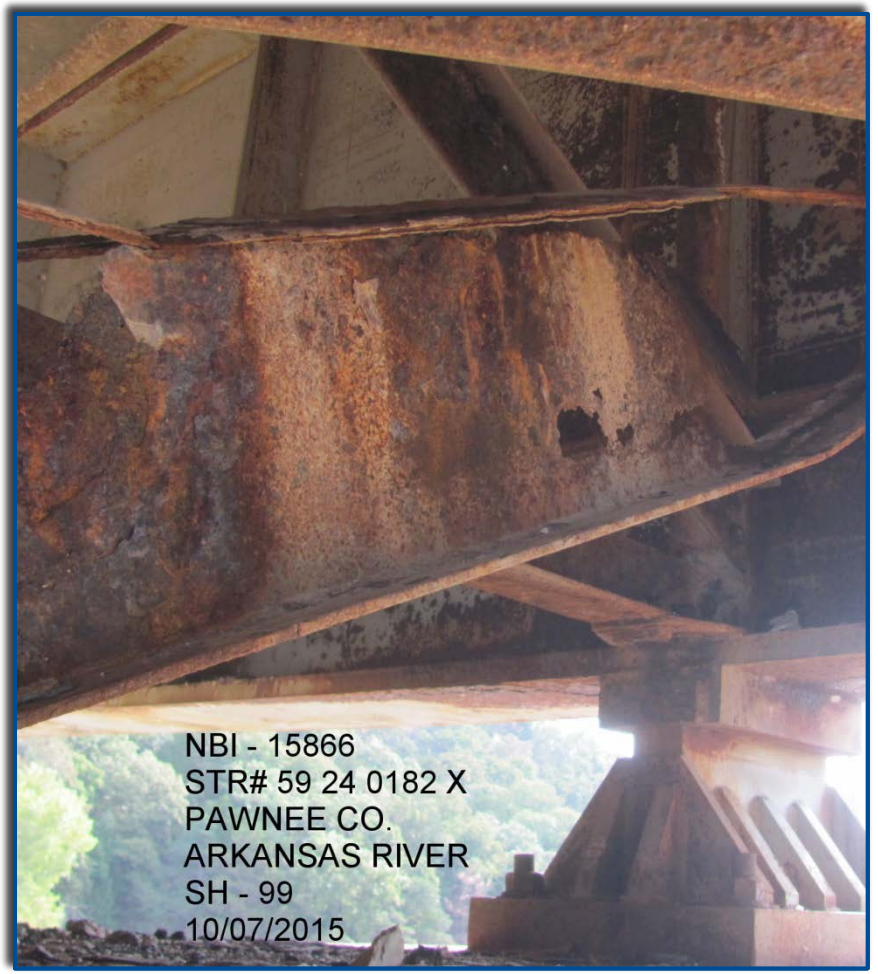
Purpose of this Project…

…is to improve the safety and functionality of the SH-99 crossing over the Arkansas River.

Existing Conditions…

- Built in 1963
- Two (2) lane bridge
  - 28 foot wide clear roadway
  - 12 foot wide driving lanes
  - 2 foot wide shoulder width
- Substandard Bridge Rail
- 1,019 foot long structure
  - 6 spans total
- Bridge is currently rated as Structurally Deficient.
- Approach Roadway Width
  - 44 foot wide

Existing Conditions *(cont.)* . . .



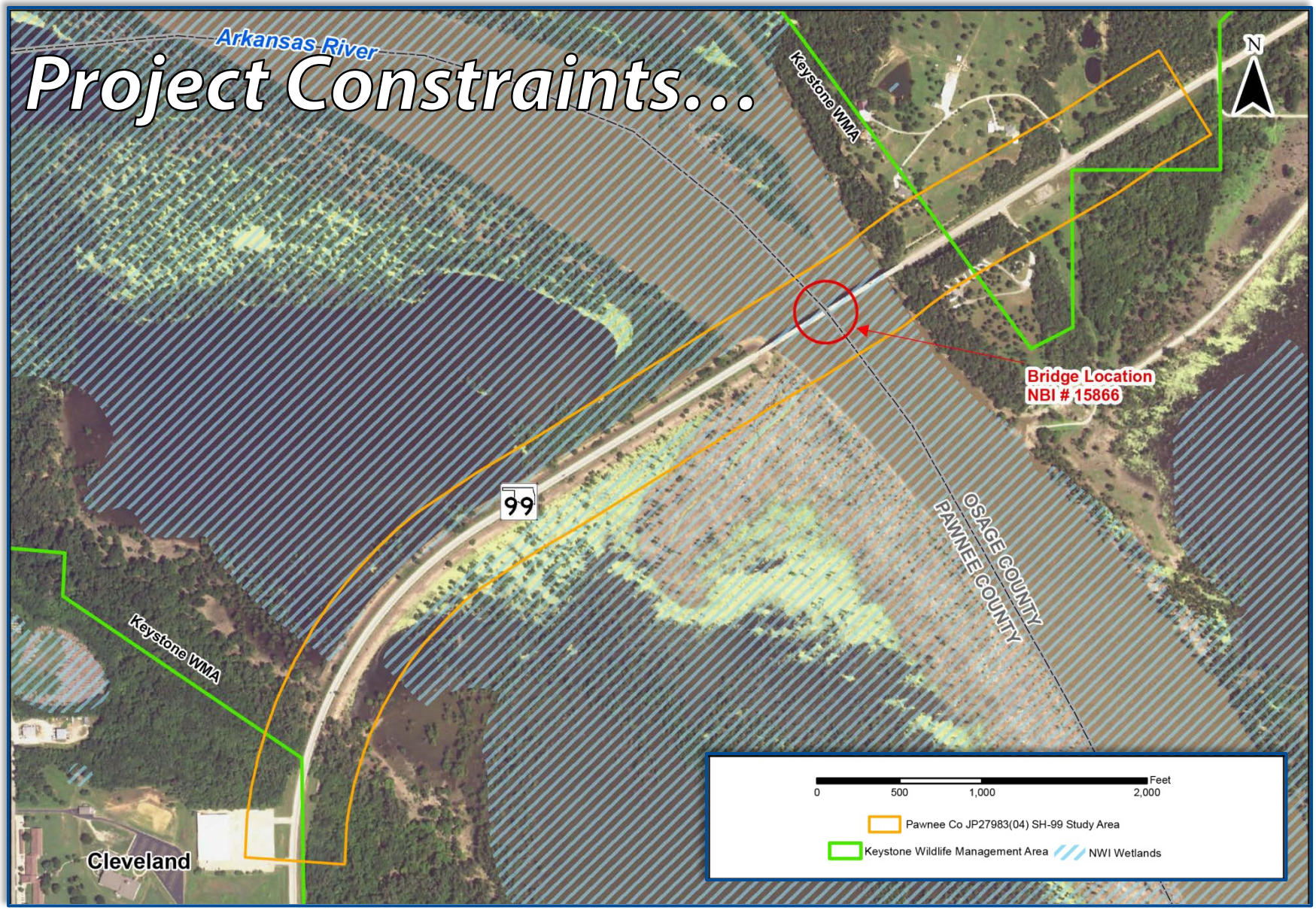
Highway Traffic Volume…

- Current Traffic Volume (2015)
  - 4,100 Vehicles Per Day
  - 11% Truck Traffic

- Future Traffic Volume (2035)
  - 5,800 Vehicles Per Day
  - 11% Truck Traffic

Project Scope…

Project Constraints...



Project Constraints…

- Potential Threatened & Endangered Species Habitat Impact:
  - Interior Least Tern (May to August)
  - Migratory Species
    - *Swallows (April to August)*
- Flood Storage Area
- Wetlands
- Section 4(f) property (Wildlife Management Area)
- Compensatory Storage within river

SH-99 over Arkansas River Matrix	Existing Alignment Road closed during construction	Offset Alignment Road open during construction
Road User Cost (Citizens)	Most	Least
Wetlands Impact (Acres)	0.5	19.52
New Right-of-Way Required Keystone WMA (Acres)	0	6.75
Compensatory Flood Storage for Keystone Lake (Cubic Yards)	None	Impacted
Threatened and Endangered Species - Interior Least Tern (seasonal restrictions May to August)	Minimized	Most Impact
Swallows (April to August)	Similar	Similar
Section 4(f) Resource - Keystone Wildlife Management Area (USACE)	Avoided	Impacted
Historic Properties (National Register Historic Places) - Mullendore Mansion	Not Impacted	Not Impacted
Archeological Sites	Not Impacted	Not Impacted
Relocations	None	None
FEMA Flood Plain	Least Impact	Most Impact
Construction Cost	$8,550,000.00	$12,400,000.00
Mitigation Cost	None	$500,000 to $1 million
Right-of Way Acquisition Cost	None	$500,000 to $1 million
Utility Cost	Similar	Similar

Bridge Replacement Options…

Option Considered

- ***Reconstruct on offset alignment:***
  - Shift centerline of roadway approximately 40 feet
- Increased impact and mitigation to environmentally sensitive areas
- Increased construction cost:
  - Right of way needed to tie existing roadway to new bridge
  - Embankment construction on South end is needed to tie existing roadway to new bridge
  - Rock excavation on north side of river
- Undesirable "Reverse Curves" to connect to existing roadway

Bridge Replacement Options…

Option Considered

- ***Reconstruct on a partial offset alignment (Phased Construction):***
  - Shift centerline of roadway approximately 10 feet
- Increased impact and mitigation to environmentally sensitive areas
- Increased construction cost:
  - Right of way needed to tie existing roadway to new bridge
  - Embankment construction on South end is needed to tie existing roadway to new bridge
  - Rock excavation on north side of river
- Increased construction time of approximately 15 months
- Undesirable "Reverse Curves" to connect to existing roadway
- Concerns about the life of the bridge due to phased construction

Bridge Replacement Options…

Option Considered

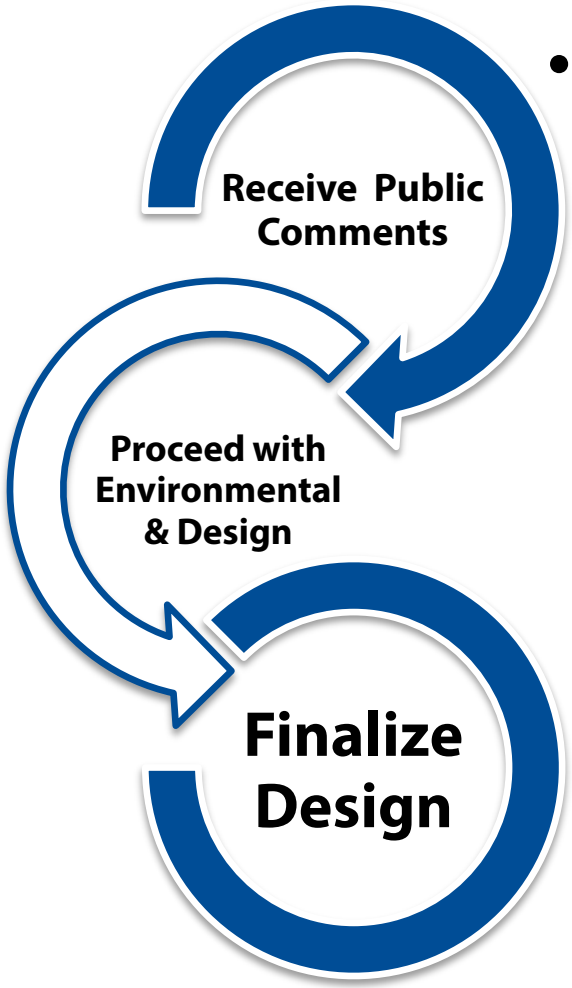
- ***Reconstruct on existing alignment (Temporary Bridge):***
  - Build temporary one-lane bridge offset to the existing bridge
- Increased impact and mitigation to environmentally sensitive areas
- Increased construction cost:
  - Temporary bridge would require construction and removal of piers and other substructure items.
- Increased construction time of approximately 10 months

Bridge Replacement Options…

Recommended Option

- ***Reconstruct on existing alignment (Construction Road Closure)***
- Close road during construction:
  - Approx. 240 calendar days
  - Provide alternate route during construction
  - Signed highway detour = 67 miles
- Utilize bridge design that would allow minimal road closure to approximately 90 days
- Least impact to environmentally sensitive areas
- Least construction cost
- Most impact to road users
- Utilize a performance incentive / disincentive to reduce closure time
- Improved workzone safety for both users and workers

Project Timeline…



- 8-Year Construction Work Program:
  - Construction:
    - *Programmed Federal Fiscal Year 2020*
    - *Programmed cost: $9.8 Million*

General Questions & Comments

Do you have any general questions or comments about the information presented?

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 *March 3rd, 2016*.**