



OKLAHOMA
T U R N P I K E
A U T H O R I T Y

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Director of Engineering

Outline of Presentation

- Status Oklahoma Turnpike Authority
- Age of the Turnpike System
- New Mission Statement
- Interoperability
- Level of Service Upgrades
- 80 MPH Concerns



History of Oklahoma Turnpike Authority

- The State Legislature created the Oklahoma Turnpike Authority in 1947. (To become Free)
- In 1954, Oklahomans voted to change the business model of Oklahoma Turnpike Authority (Cross-Pledge).



History of Oklahoma Turnpike Authority

- Oklahoma Turnpike Authority does not receive any state or federal appropriations.
- “User-based Transportation”



History of Oklahoma Turnpike Authority

- Includes 10 turnpikes (606 centerline miles) across the state of Oklahoma.
- Complement state needs that Oklahoma DOT is unable to fund.
- Close to 40% of revenue comes from out-of-state motorists.

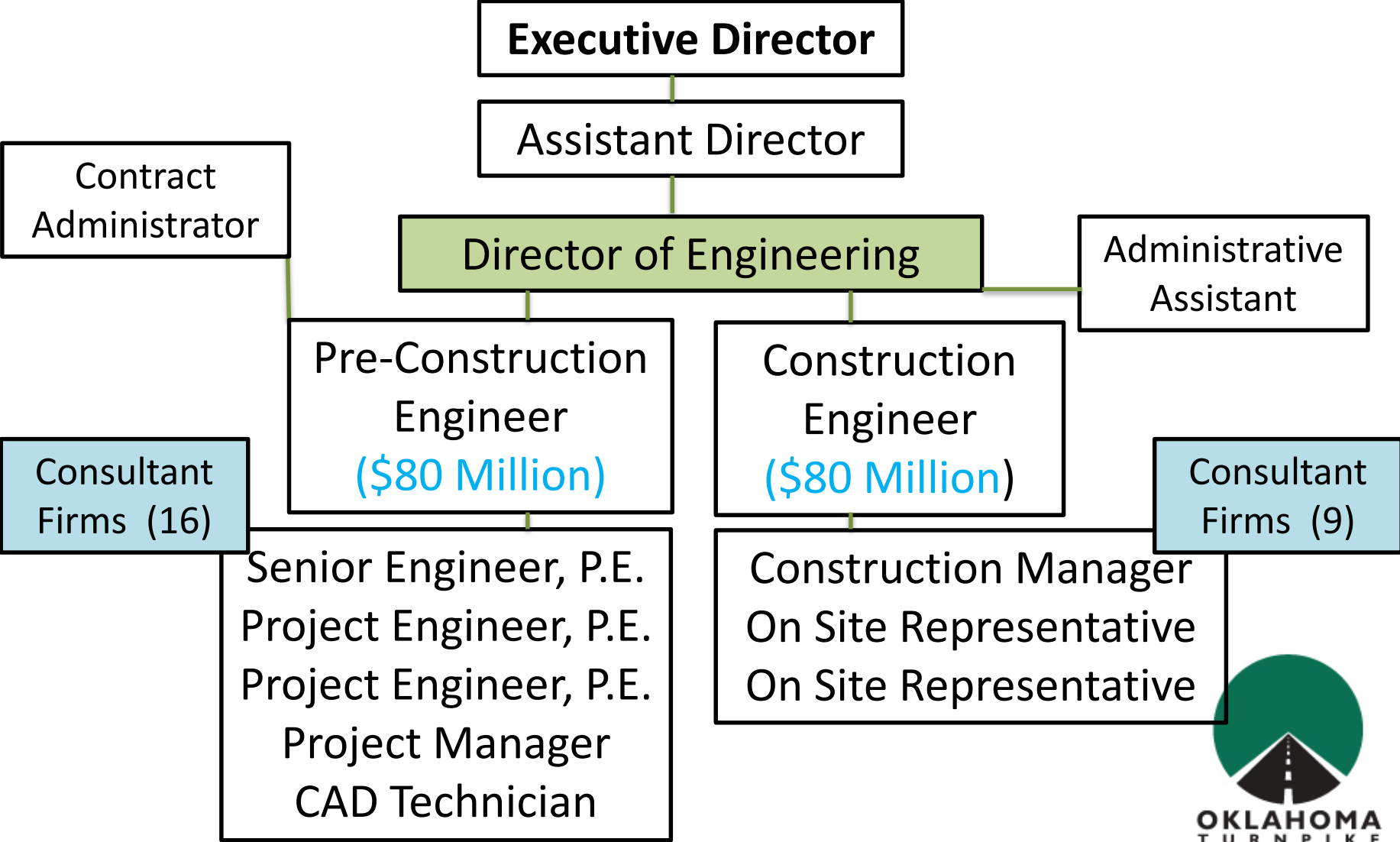


5-Year Capital Plan

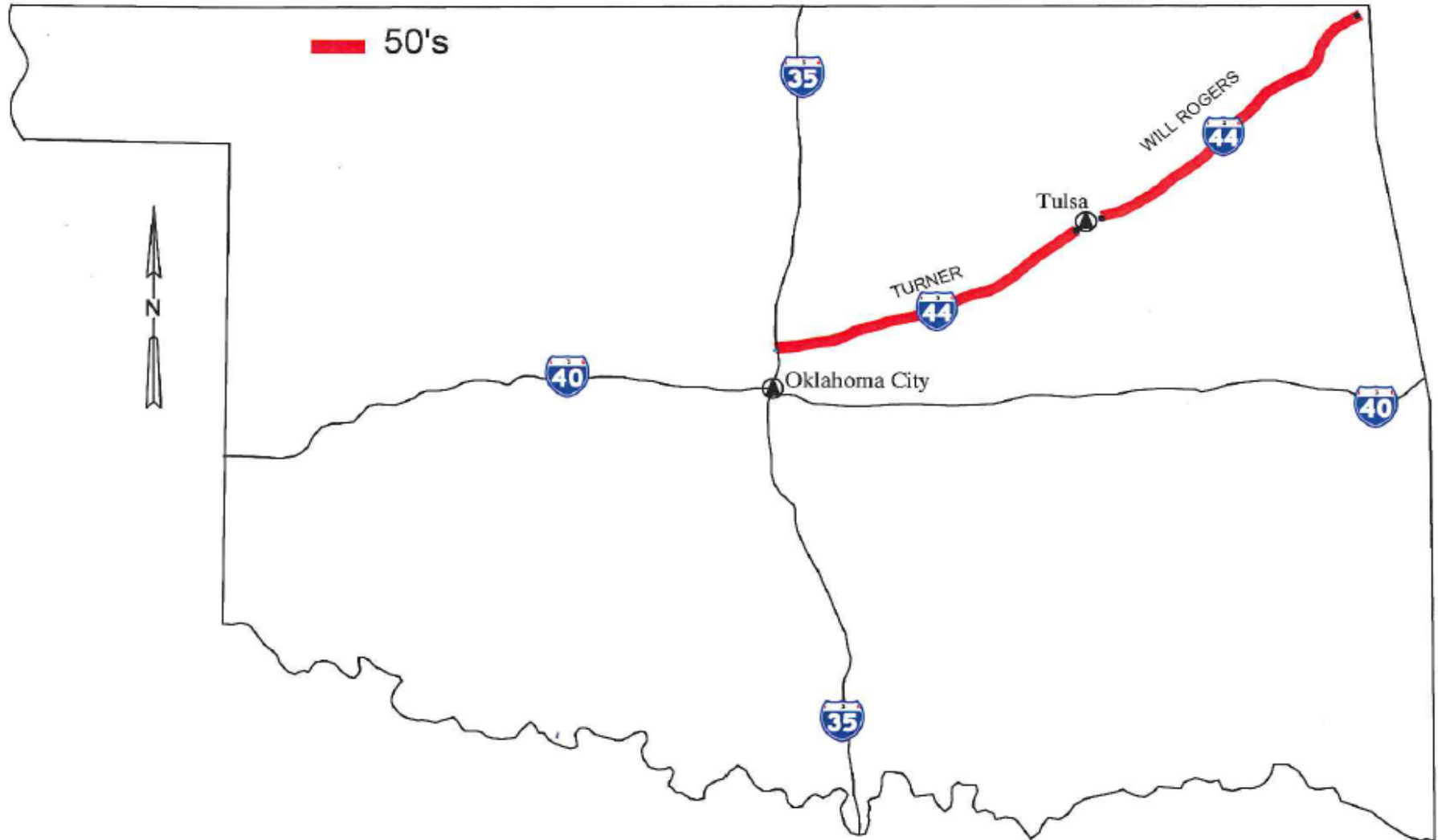
• 2015	\$83,553,394
• 2016	\$84,880,764
• 2017	\$83,683,111
• 2018	\$68,422,182
• <u>2019</u>	<u>\$58,781,244</u>
• Total	\$379,320,695



Table of Organization

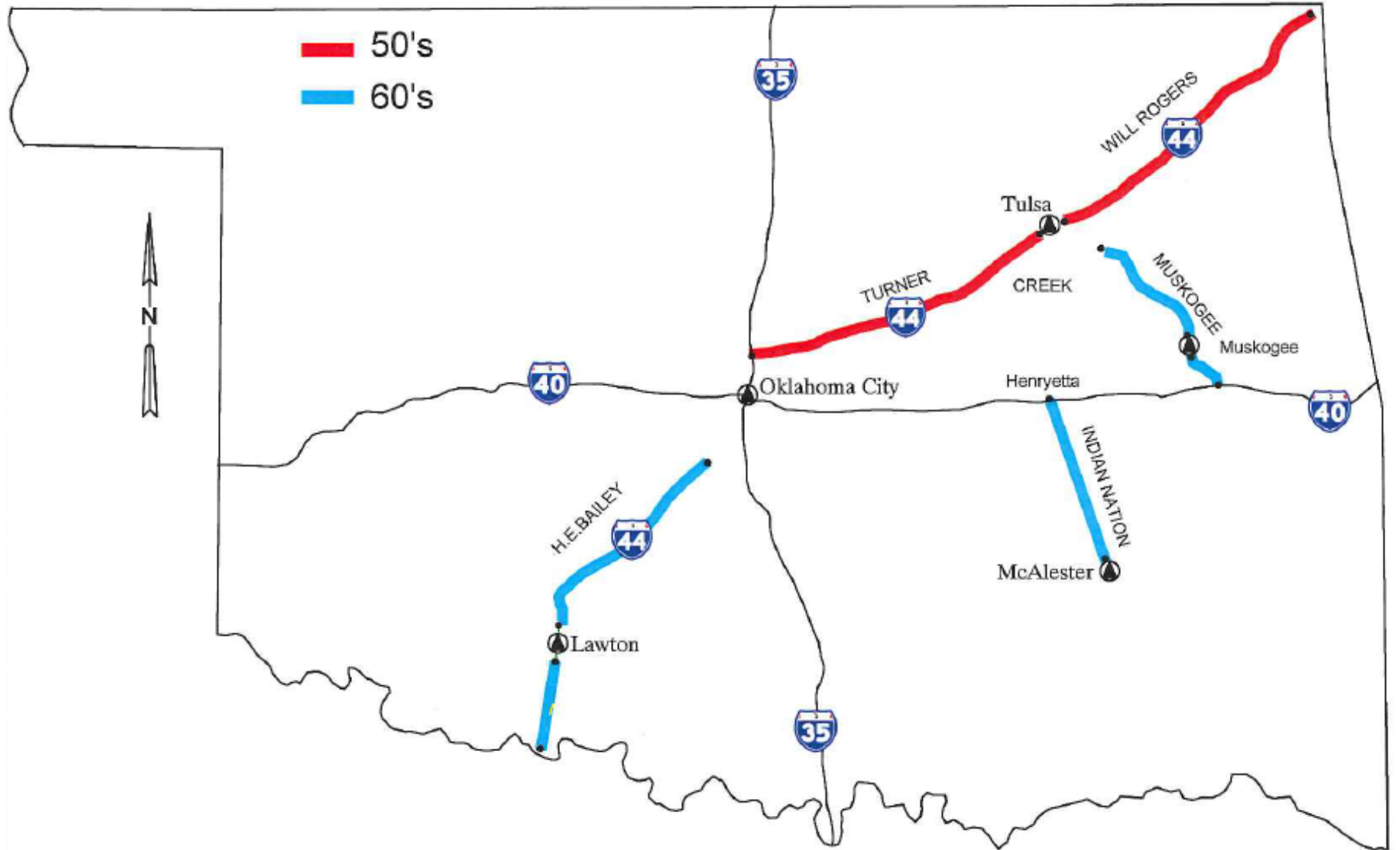
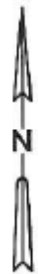


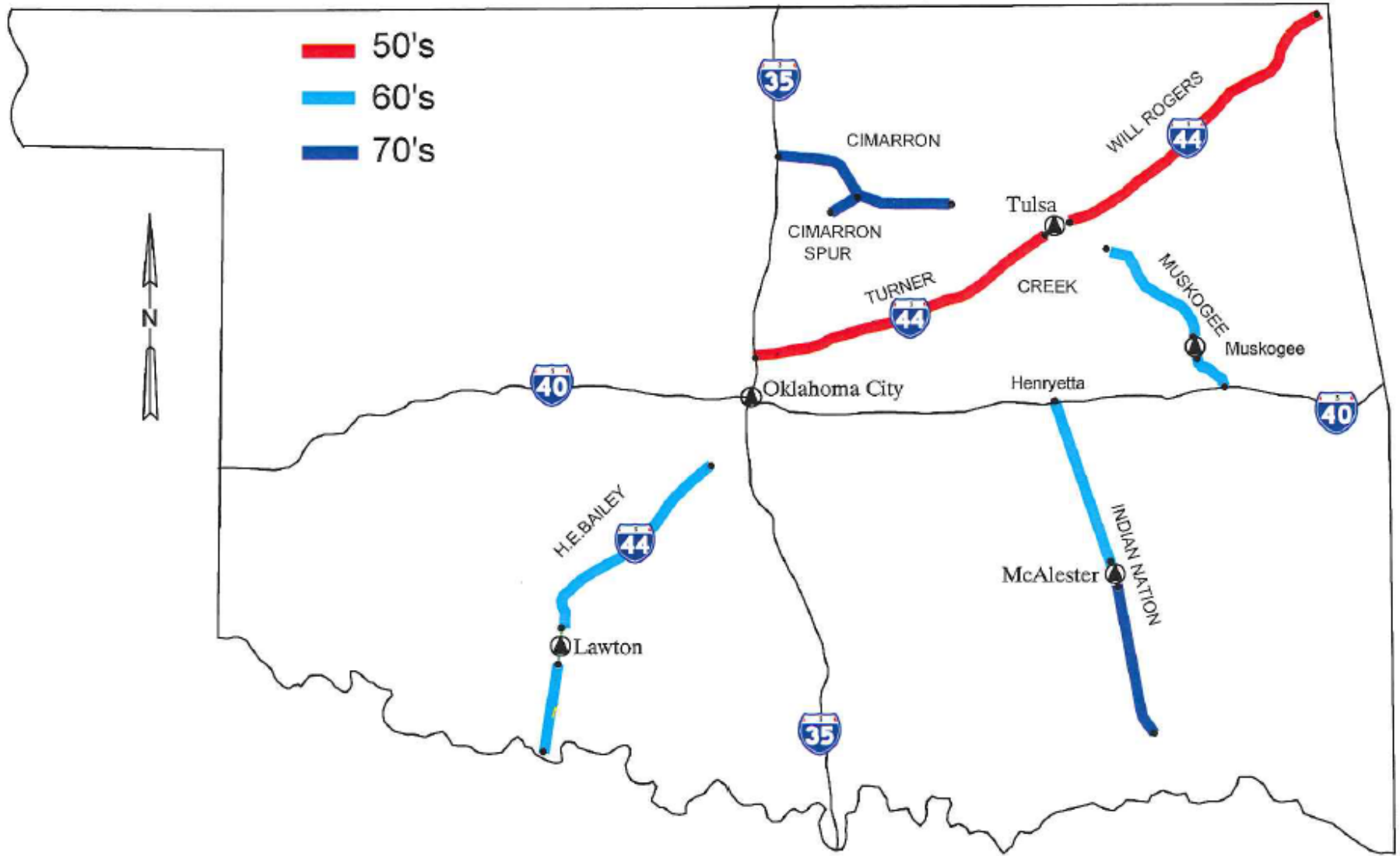
General Age of System



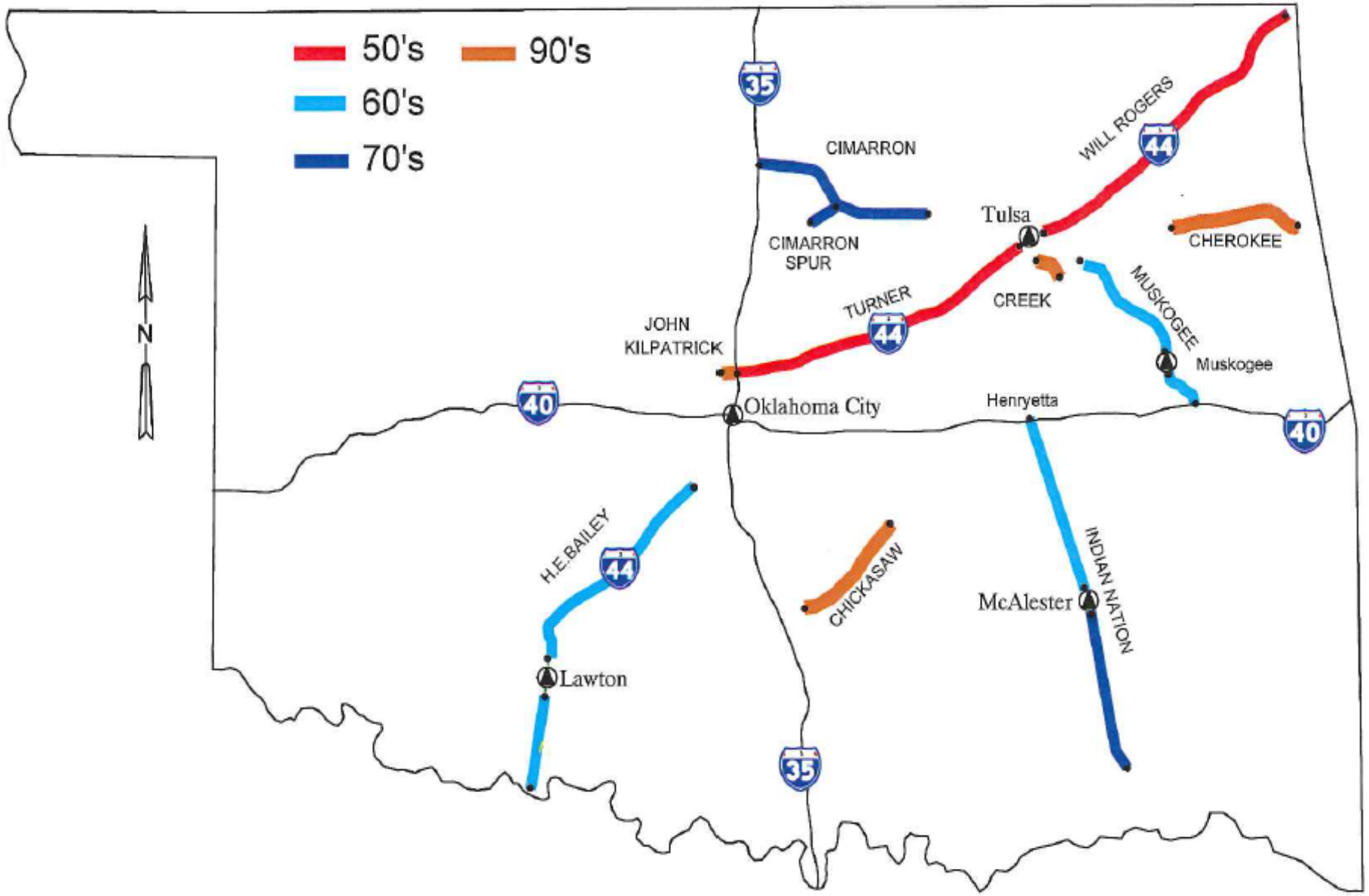
50's

60's

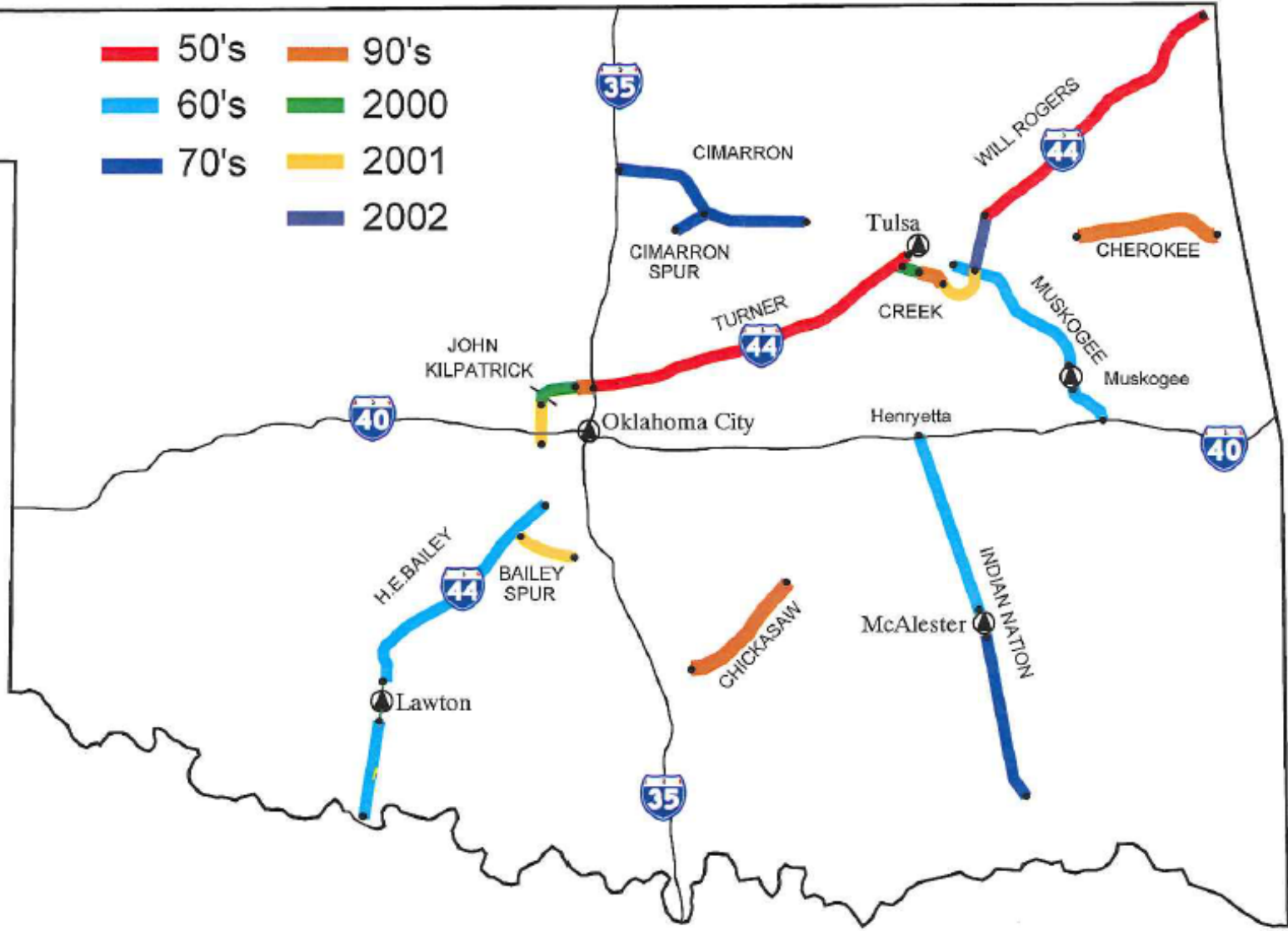




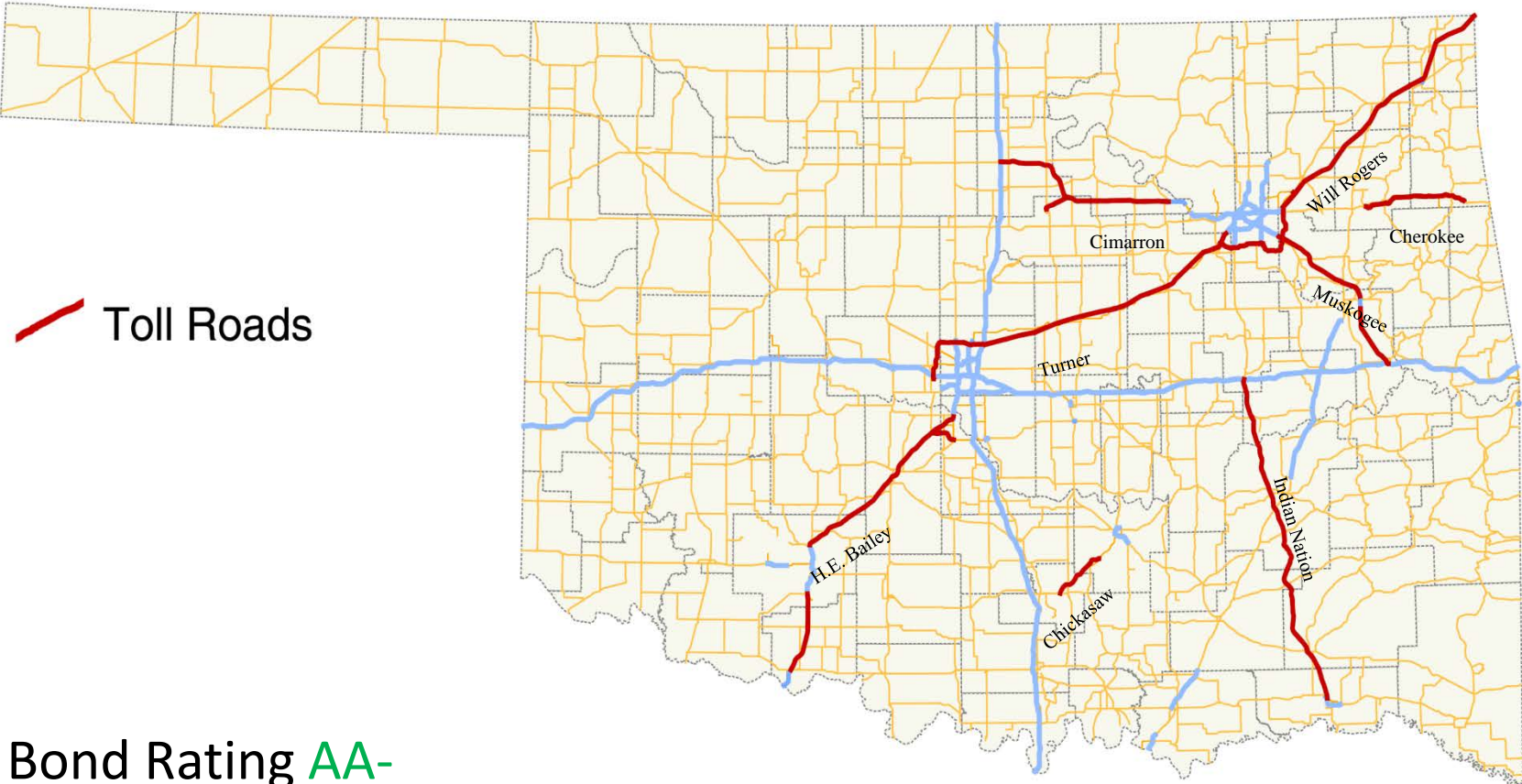
- 50's — 90's
- 60's
- 70's



- | | |
|--|--|
| — 50's | — 90's |
| — 60's | — 2000 |
| — 70's | — 2001 |
| | — 2002 |



Oklahoma Turnpikes



Bond Rating **AA-**

\$1.2 billion, current payoff 2031



OTA Mission Statement

Partnering with others, we provide our customers with a choice of a safe, convenient, efficient, user-funded transportation network focusing on fiscal responsibility and promoting economic development.



Partnering

- Consultants
- (AOGC) Association of General Contractors
- ODOT (numerous agreements)



OKLAHOMA
TURNPIKE
AUTHORITY

Partnering

- **Bureau of Indian Affairs** (Pow Wow Ground Rd.)
- **City of Muskogee/Port of Muskogee** (Harris Rd. Interchange)
- **City of Broken Arrow** (Oneta Rd.) & (Aspen Interchange)



Partnering

- Oklahoma County (Luther Interchange)
- City of Jenks (Peoria Ave./Elm St. Interchange)
- Craig County/Cherokee Nation
(7th St. – Medical Center @ Vinita)
- Next?



OKLAHOMA
TURNPIKE
AUTHORITY

Interoperable Transponders



Tulsa International Airport Parking

North Texas Tollway Auth. - 8/10/2014

Kansas Turnpike Authority - 11/1/2014

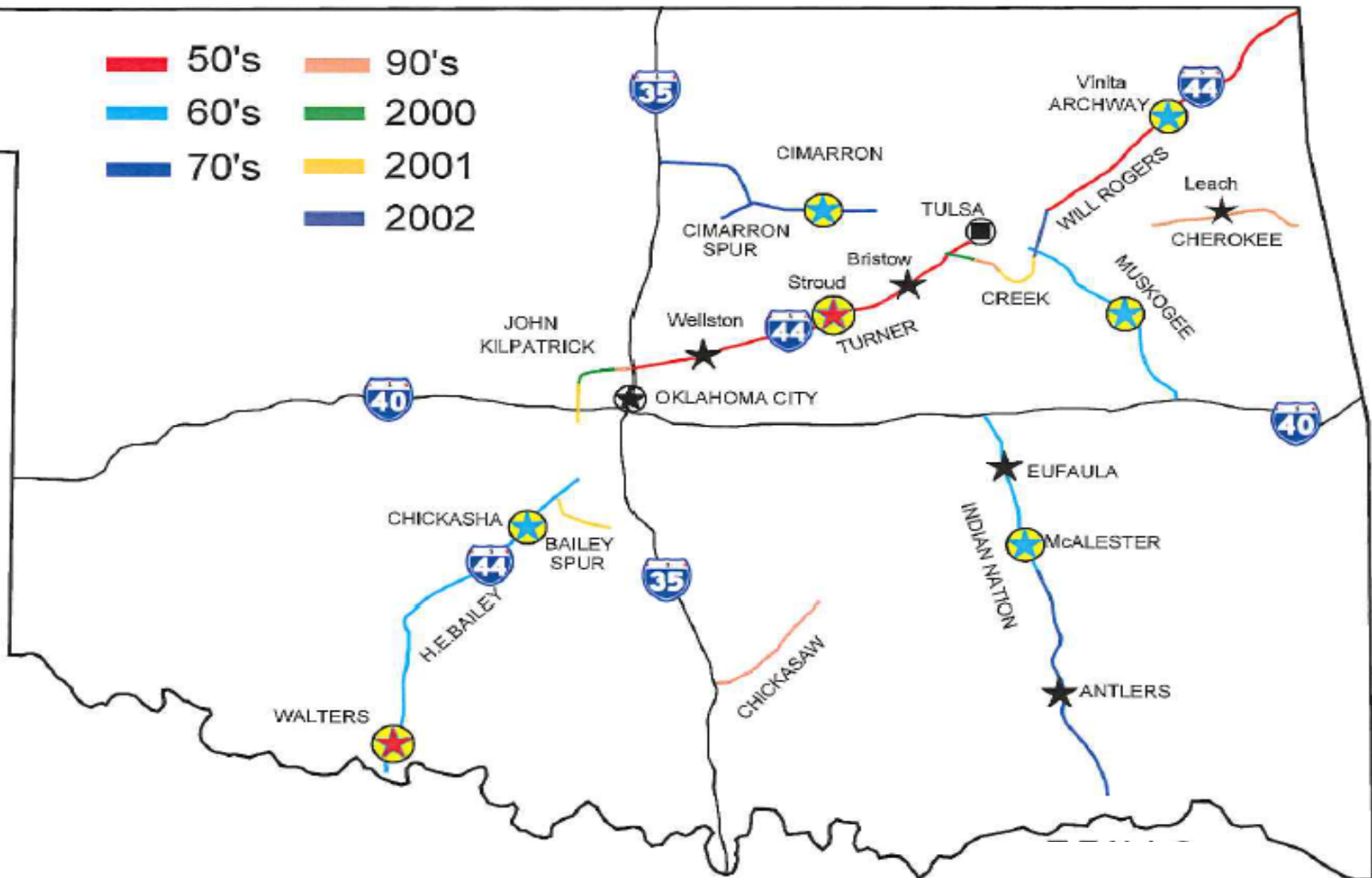
Next ?????






Typical Service Plaza





- ★ REMOVED SERVICE AREA
-  NEW SERVICE AREA
-  FUTURE SERVICE AREA

Replaced 4
 Added 1
 Removed 5
 2 Future

8 Years before the Gateway Arch, 1965



1957 (57 years old)-First Gateway Arch to the West



Conoco / Howard Johnsons > OTA > Largest McDonalds



Will Rogers Archway



- H.E. Bailey (Chickasha Service Plaza) McDonalds / EZ GO
- Muskogee (Muskogee Service Plaza) McDonalds / EZ GO
- Cimarron (Lone Chimney Service Plaza) McDonalds / Kum & Go
- Will Rogers (Vinita Service Plaza) McDonalds / Kum & Go / Subway
- Indian Nation (McAlester Service Plaza) McDonalds / EZ GO
- H.E. Bailey (Walters Service Plaza) EZ GO
- Turner (Stroud Service Plaza)

83% Fleet – CNG Enabled



A dark blue rectangular sign with a white diamond-shaped logo on the left containing the letters 'CNG'. To the right of the logo, the words 'Compressed Natural Gas' are written in a white, serif font.

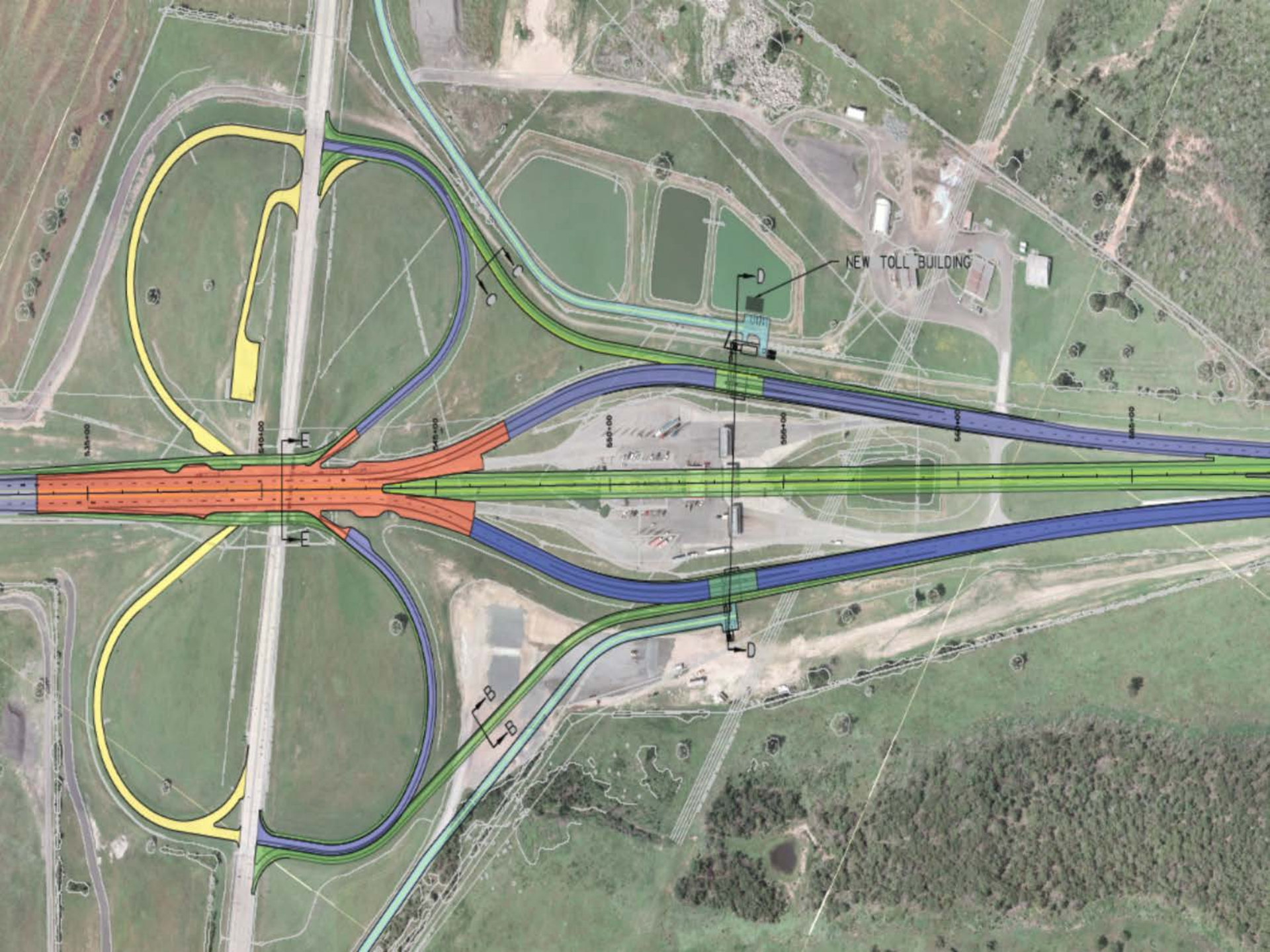


Improving the 1st of 5 toll plaza



Points of Conflict





NEW TOLL BUILDING

63+00

64+00

64+50

65+00

65+50

66+00

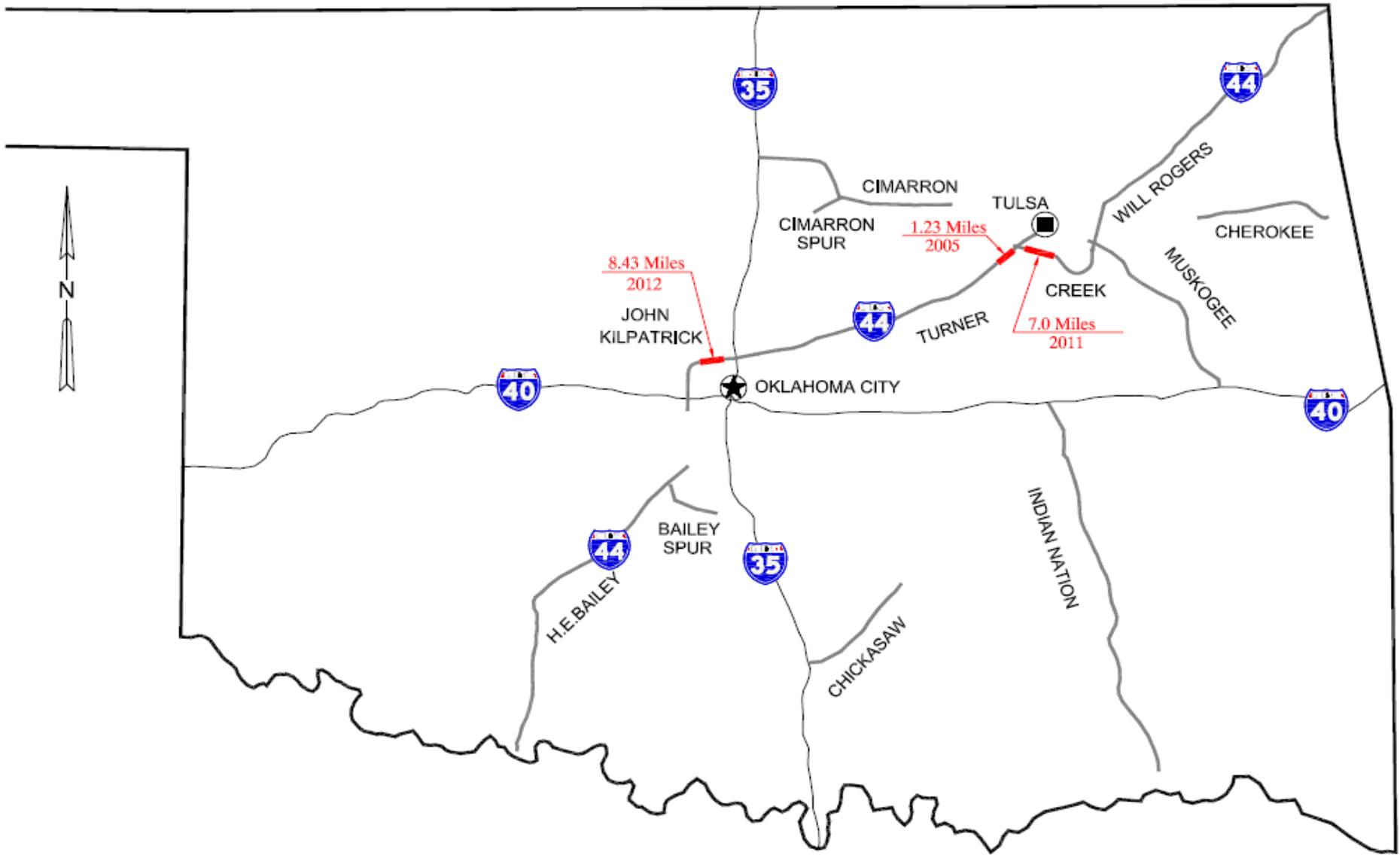
66+50

600

B

B

D



OKLAHOMA

NEW SIX LANES

R/R Junction
No Variance













OTA Concerns

- Texas, Utah, and Wyoming
 - 80 mph plus
- Oklahoma Turnpikes
 - not designed for 80 mph



Turner Vertical Curves

Curve Design Speed (mph)	Number of Non-passing Curves	Percentage of Curves Non-passing
60	0	0%
65	6	2.5%
70	37	15.4%
75	50	20.8%
80	131	54.6%

Minimal Clear Zones






Limited Ramp Geometry
Short Accel / Decel Ramps

- Roads have been and can be designed for vehicles to travel at speeds above 75mph.
- At this time, the Oklahoma Turnpikes are not those roads.



The Future of Oklahoma Turnpike Authority

- New ways to use  for customers' safety & convenience
- Partnerships with others to enhance turnpike services





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- OTA's FTP Site

Westbound use exits at Big Cabin / Claremore
 Eastbound use exits at Vinita / Afton / Miami

Account Log

User Name

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Password

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First time use

Alerts



TURNER Tpk: all lanes open at mm 201 wb after semi crash.

Posted 3 Hours Ago



Questions?

