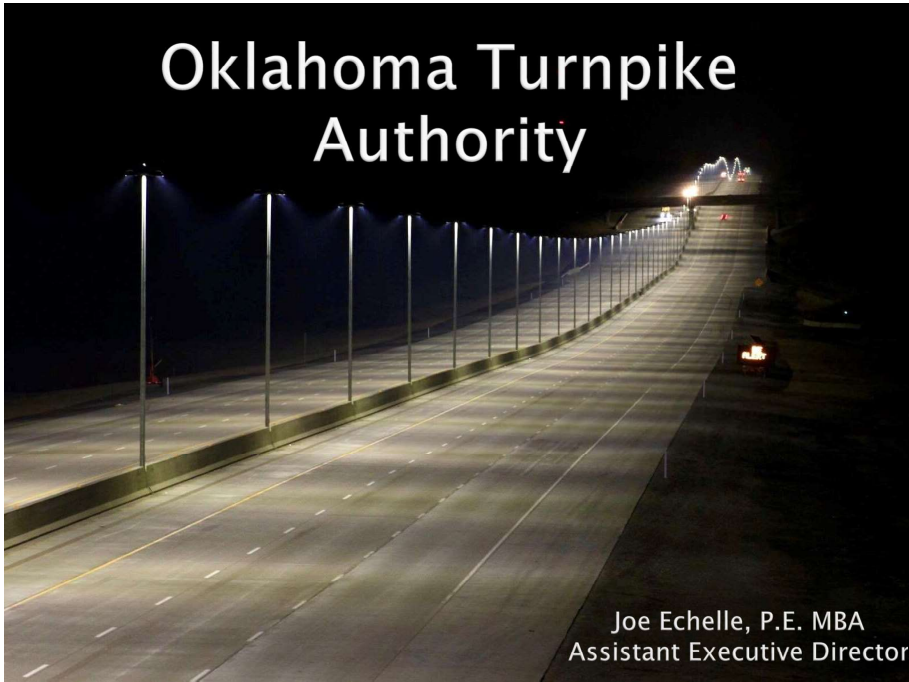


Oklahoma Turnpike Authority



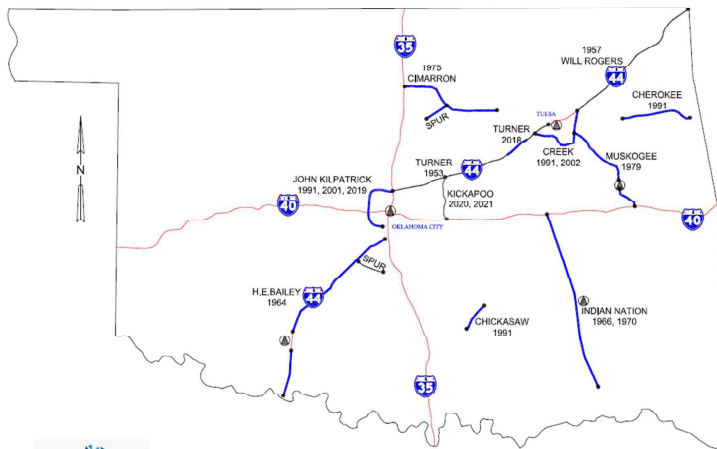
Joe Echelle, P.E. MBA
Assistant Executive Director

Milestones in Oklahoma Turnpikes

1947	OTA Authorized to build Turner Turnpike Between OKC and Tulsa
1953	Turner Turnpike (Asphalt Surface) Opened future alignments Authorized
1957	Will Rogers Turnpike Opened (Asphalt Surface)
1964 / 1965	Bailey Turnpike Opened (Concrete Surface)
1966/1970	Indian Nation Turnpike Opened (Concrete Surface)
1969	Muskogee Turnpike Opened (Concrete Surface)
1975	Cimarron Turnpike Opened (Concrete Surface)
1990–2018	Panel Replacement and Short Reconstruction Projects
2020	DBR Projects

Concrete Turnpikes Map

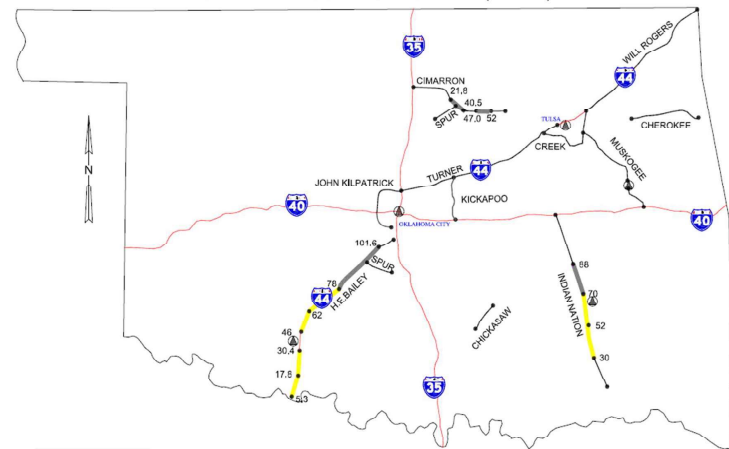
CONCRETE TURNPIKES



Legend
Interstate Turnpikes —
Turnpikes —
Concrete —

DBR Diamond Grind Plan

OKLAHOMA TURNPIKE AUTHORITY DBR PROGRAM (12-30-2020)



Legend
Interstate Turnpikes —
Turnpikes —
Future Completed —

Cimarron DBR 2020

- \$14M – 19 Miles
- Panel Replacements



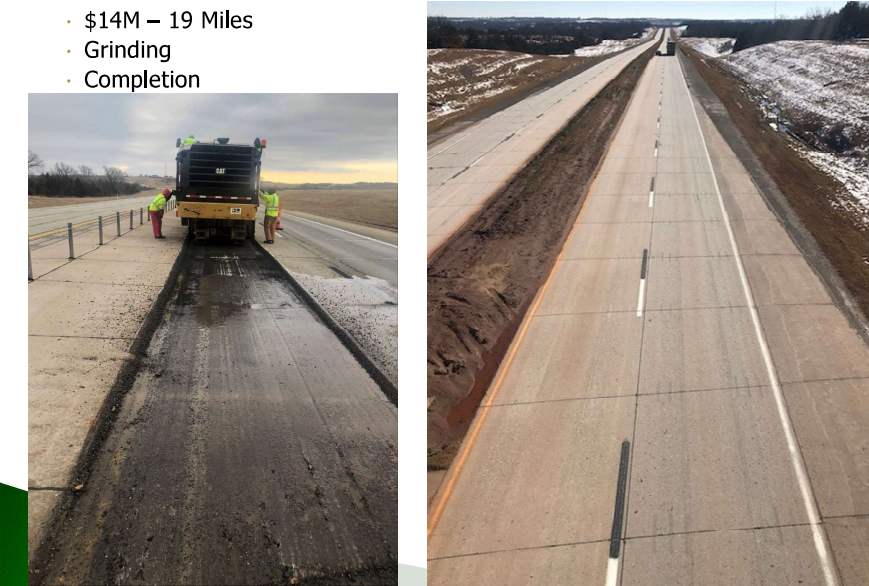
Cimarron DBR 2020

- \$14M – 19 Miles
- Dowel Bar Placement



Cimarron DBR 2020

- \$14M – 19 Miles
- Grinding
- Completion



Bailey DBR 2020

- \$13.7M – 18 Miles



Indian Nation DBR 2020

• \$12M – 18 Miles



Why DBR?

- Pavement is 45–55 Years old.
 - Traffic volumes are 6,000 to 25,000 vpd and 10% trucks
 - Reconstruction
 - Costs are \$3.9 Million/Mile 4-lane
 - Construction Duration multiple years
 - DBR
 - Costs are under \$600K/Mile 4-lane
 - Construction in one season, 7 months
 - Approximately 15% of the cost of reconstruction
 - Cover nearly 7 times the length per dollar
-
- Total centerline miles 163 miles 2020–2025
 - Total \$95 Million in construction estimates and very cheap to design and administer. (Engineering Cost)
 - DBR \$95M vs \$634M Reconstruction

Video



Thank You !

