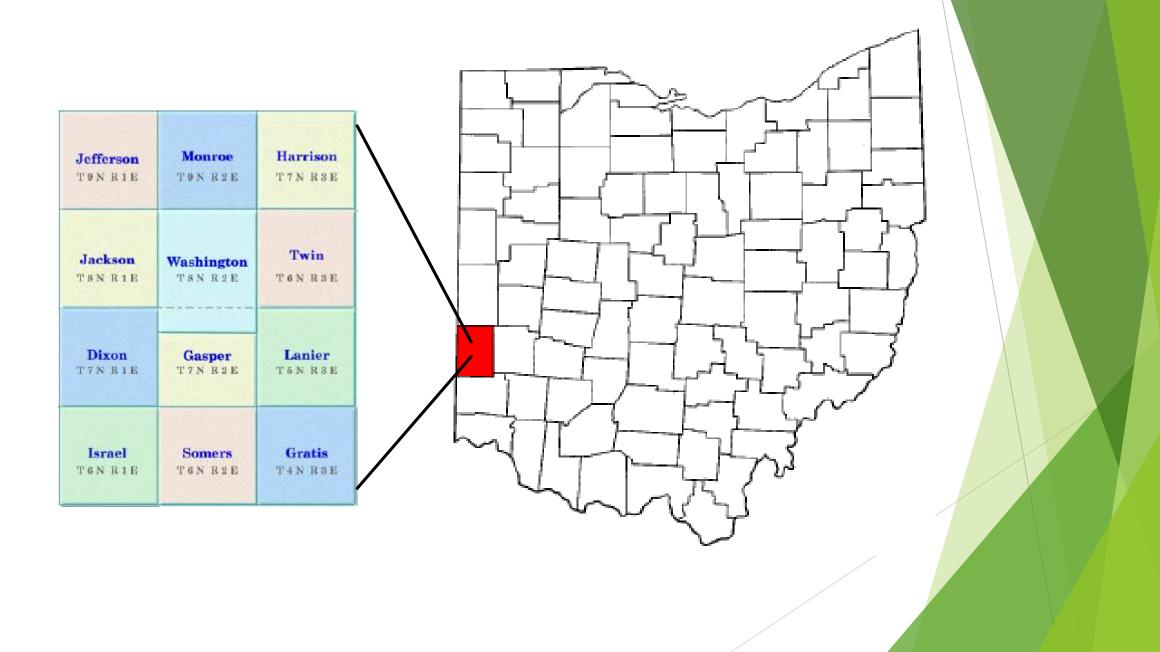
PREBLE COUNTY ENGINEER'S OFFICE

R. Kyle Cross, P.E., P.S. 1000 Preble Drive Eaton, Ohio 45320





PREBLE COUNTY, OHIO

- Area: 426 square miles
- Population: 42,270 (as of 2010)
- 255.34 miles of County Roads
- 423.07 miles of Township Roads
- Total number of Culverts: 3,491
- Total number of Bridges: 406
- Total number of Signs: 2,713
- Total number of Maintenance Ditches: 141

EMPLOYEES

- Bridge Crew: 4
- Mechanics: 2
- Traffic Department: 2
- Fabrication: 3
- Roads Department: 6
- Office Staff: 4
- Engineering: 4
- Drainage Department: 2
- Tax Map: 1
- Highway Superintendent: 1

PREBLE COUNTY COVERED BRIDGES

- Roberts Covered Bridge 1829
- Brubaker Covered Bridge 1887
- Dixon Branch Covered Bridge 1887
- Geeting Covered Bridge 1894
- Harshman Covered Bridge 1894
- Christman Covered Bridge 1895
- Warnke Covered Bridge 1896
- Hueston Woods Covered Bridge 2012

HUESTON WOODS COVERED BRIDGE

- Built in 2012
- First new wooden covered bridge in Preble County in over 100 years
- Span of 108 feet









Preble County began building precast bridges in 2002. Since then, a total of 72 precast bridges that are greater than 10 feet have been built. This method has also been used for numerous structures less than 10 feet.

Why Precast?

- 1. Needed a quick and efficient method to construct bridges quickly and economically.
- 2. Standardized drawings improve output by simplifying the production and the amount of changes required from one structure to the next.
- 3. Standard drawings include beam lengths from 15 feet to 40 feet.
- 4. 15 to 35 feet beams are two feet wide and have a depth of 18 inches.40 foot beams are two feet wide and two feet thick and contain a 12" sonovoid.
- Beams can be built year round in a controlled environment reducing the likelihood of substandard concrete due to poor curing conditions.

Bending Rebar









Cage set in form









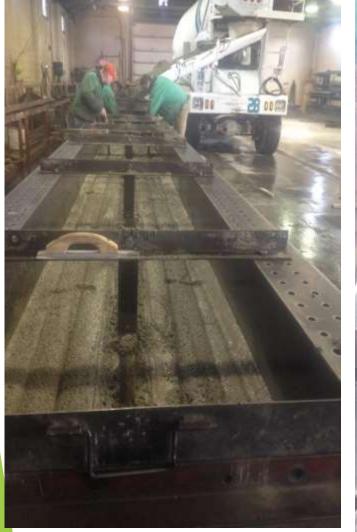
Pouring







Curing







REMOVAL OF EXISTING STRUCTURE









POURING FOOTER, SETTING LEVEL PAD AND PART OF CONCRETE FLOW LINE







SETTING WALL BLOCKS & POURING REMAINDER OF CONCRETE FLOW LINE











SETTING DECK & BACK FILLING



COMPLETED DECK









Grouting and Pouring wall caps











Launch Ramp















TRONE ROAD



TRONE ROAD

