

PREBLE COUNTY ENGINEER'S OFFICE

R. Kyle Cross, P.E., P.S.

1000 Preble Drive

Eaton, Ohio 45320



Jefferson T9N R1E	Monroe T9N R2E	Harrison T7N R3E
Jackson T8N R1E	Washington T8N R2E	Twin T6N R3E
Dixon T7N R1E	Gasper T7N R2E	Lanier T5N R3E
Israel T6N R1E	Somers T6N R2E	Gratis T4N R3E



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.
5. 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

