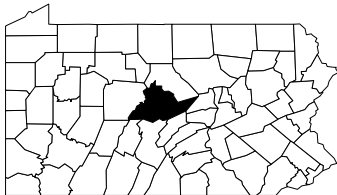
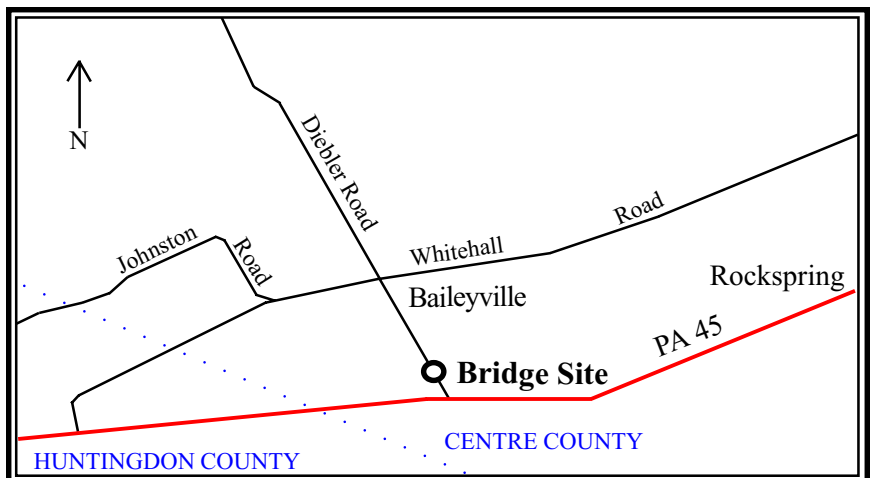


# BAILEYVILLE BRIDGE, Centre County, Pennsylvania



**Type:** Transverse glulam deck over glulam beams  
**County:** Centre  
**Owner:** Ferguson Township  
**Built in:** 1991  
**Engineer:** Gwin, Dobson & Foreman, Inc.  
**Spans over:** Spruce Creek  
**Bridge length:** 37'-10 1/2"  
**Roadway width:** 26'-0"

**Directions:** From Boalsburg (just south of State College on US 322) west on PA 45 to Rockspring. From Rockspring .8 miles west to a right turn onto Diebler Road. Bridge site is .1 miles from PA 45.



**GEOMETRY**

Number of Spans: 1  
 Out-to-out length: 37' - 10 1/2"  
 Center-of-bearing length: 35'-0 1/2"  
 Skew: 45 degrees  
 Number of lanes: 2  
 Out-to-out width: 28'-0"  
 Curb-to-curb width: 26'-0"  
 Number of beams and spacing: 9 @ 38"  
 Superstructure square footage: 1060.50

Design load: AASHTO HS-20,  
 modified military  
 Averaged daily traffic: 200 (1991)  
 Design by: Gwin, Dobson, & Forman, Inc.  
 Abutment material: Stone/concrete

Total wood quantity: 14,488 bf

**MATERIALS****DECK**

Material: Wood  
 Grade: NDS Grade A  
 Species: Northern red oak  
 Sizes used: Panels-6" x 4'-0" x by various  
 lengths  
 Quantity: 6,363 bf  
 Drying method: Kiln  
 Preservative treatment: Creosote  
 Specification: AWPA C1-89

**BEAMS/STRINGERS**

Material: Wood  
 Grade: NDS Grade A  
 Species: Northern red oak  
 Sizes used: 8" x 30"  
 Quantity: 6,562 bf  
 Drying method: Kiln  
 Preservative treatment: Creosote  
 Specification: AWPA C1-89

**GUIDERAIL POSTS**

Material: Wood  
 Species: Northern red oak  
 Sizes used: 10" x 12" x 40"  
 Quantity: 400 bf  
 Preservative treatment: Creosote  
 Specification: AWPA C1-89

**GUIDERAIL CURB**

Material: Wood  
 Species: Northern red oak  
 Size: 5" x 12"  
 Quantity: 558 bf  
 Preservative treatment: Creosote

**GUIDERAIL**

Material: Wood  
 Species: Northern red oak  
 Size: Double 6" x 8"  
 Quantity: 605 bf  
 Preservative treatment: Creosote

**STRESSING STEEL (none)**

**FUNDING SOURCES:** USDA Forest Service, \$10,600; Balance of funding from Pennsylvania Department of Transportation and local funds.

**LOCAL CONTACT:** Mark A. Kunkle, Township Manager  
 Ferguson Township  
 3147 Research Drive  
 State College, PA 16801  
 Phone: 814-238-4651

The information provided by The Pennsylvania Department of Transportation, Gwin Dobson & Foreman, Inc., and derived from plans for Baileyville Bridge on T-330 over Spruce Creek.

WIT Program Proposal Number: NA-21-89

Federal Grant Identifier: NA-89-0224

December 1999



Northeastern Area  
 State and Private Forestry

The National Wood In  
 Transportation Program

