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

GUIDERAL 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
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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.

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