BROOKSTON ROAD BRIDGE, Forest County, Pennsylvania

Type: Stress-laminated deck, steel/wood composite
County: Forest
Owner: Howe Township
Built in: 1992
Engineer: Northwest Engineering, Inc.
Spans over: Tionesta Creek
Bridge length: 36’-2 1/2”
Roadway width: 18’-0”

Directions: From the intersection of PA 948 and T-372 east to the Village of Brookston. Turn onto T-372. The bridge site is .3 miles from the intersection of PA 948 and T-372.
**GEOMETRY**

- Number of Spans: 1
- Design load: AASHTO HS-25, ML-80
- Total wood quantity: 11,950 bf
- Design by: Northwest Engineering, Inc.
- Abutment material: Timber pile
- Total steel quantity: 15,537 lbs

**MATERIAL**

**DECK**
- Material: Wood
- Grade: Structural no. 2 or better
- Species: Northern red oak
- Sizes used: 2” x 14”
- Quantity: 10,138 bf
- Preservative treatment: Creosote
- Specification: AWPA C1-84
- Steel: 20 pieces of 3/8” x 14 galvanized every 6 laminations
- Grade: A572
- Quantity: 12,922 lbs

**BEAMS/STRINGERS (none)**

**GUIDERAIL POSTS**
- Material: Wood
- Species: Northern red oak
- Sizes used: 10” x 12”
- Quantity: 548 bf
- Preservative treatment: Creosote
- Specification: AWPA C1-84

**GUIDERAIL CURB**
- Material: Wood
- Species: Northern red oak
- Size: 6” x 12”
- Quantity: 684 bf
- Preservative Treatment: Creosote

**GUIDERAIL**
- Material: Wood
- Species: Northern red oak
- Size: 2 - 6” x 8”
- Quantity: 580 bf
- Preservative treatment: Creosote

**STRESSING STEEL**
- Grade: ASTM A-722
- Bar Diameter: 1”
- Coating: Galvanized
- Quantity: 2,615 lbs
- Bearing plate size: 12” x 12” x 1 1/4”

**FUNDING SOURCES:** USDA Forest Service: $7,000; Balance of funding from Pennsylvania Department of Transportation and local funds.

**LOCAL CONTACT:**
- Township Supervisor
- Howe Township
- HC1 Box 168
- Sheffield, PA 16347
- Phone: 814-968-4203

The information provided by The Pennsylvania Department of Transportation and derived from plans for bridge T-372 crossing Tionesta Creek.

WIT Program Proposal Number: NA-25-89    Federal Grant Identifier: NA-89-0224

January 1998