MILLCROSS ROAD TIMBER BRIDGE, Lancaster County, Pennsylvania

**Type:** Stress-laminated deck  
**County:** Lancaster  
**Owner:** East Lampeter Township  
**Built in:** 1992  
**Engineer:** Rettew Associates, Inc.  
**Spans over:** Stauffer Run Creek  
**Bridge length:** 23’-6”  
**Roadway width:** 28’-0”

**Directions:** From the intersection of US 30 and Greenfield Road. North of the intersection of Greenfield Road and US 30, take Hempstead Road .4 miles to Pitney Road. Right onto Pitney Road. Pitney Road .6 miles to Millcross Road. Left onto Millcross Road. The bridge site is .1 miles from the intersection of Millcross Road and Pitney Road.
Number of Spans: 1  
Out-to-out length: 23'-6”  
Center-of-bearing length: 22'-0”  
Skew: None  
Number of lanes: 2  
Out-to-out width: 30'-0”  
Curb-to-curb width: 28'-0”  
Number of beams and spacing: None  
Superstructure square footage: 705

Design load: AASHTO HS-25  
Averaged daily traffic: 625 (1991)  
Design by: Retnew Associates, Inc.  
Abutment material: Concrete  
Total wood quantity: 13,312 bf  
Total steel quantity: 2956 lbs  
Total project cost: $142,832

<table>
<thead>
<tr>
<th>DECK</th>
<th>BEAMS/STRINGERS (None)</th>
<th>GUIDERAIL POSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Wood</td>
<td>Grade: Structural no. 2 or better</td>
<td>Material: Wood</td>
</tr>
<tr>
<td>Grade: Structural no. 2 or better</td>
<td>Species: Mixed oak</td>
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<td>Species: Mixed oak</td>
<td>Sizes used: 3” x 16”</td>
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<tr>
<td>Sizes used: 3” x 16”</td>
<td>Quantity: 12,190 bf</td>
<td>Size: 10” x 12”</td>
</tr>
<tr>
<td>Quantity: 12,190 bf</td>
<td>Preservative treatment: Creosote</td>
<td>Quantity: 320 bf</td>
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<tr>
<td>Preservative treatment: Creosote</td>
<td>Specification: AWPA C1</td>
<td>Preservative treatment: Creosote</td>
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</table>

<table>
<thead>
<tr>
<th>GUIDERAIL CURB</th>
<th>GUIDERAIL</th>
<th>STRESSING STEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material: Wood</td>
<td>Material: Wood</td>
<td>Grade: ASTM A722</td>
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<tr>
<td>Grade: Structural no. 2 or better</td>
<td>Grade: Structural no. 2 or better</td>
<td>Manufacturer: Dywidag</td>
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<tr>
<td>Species: Mixed oak</td>
<td>Species: Mixed oak</td>
<td>Bar Diameter: 1”</td>
</tr>
<tr>
<td>Size: 6” x 12”</td>
<td>Size: 6” x 8”</td>
<td>Coating: Galvanized</td>
</tr>
<tr>
<td>Quantity: 426 bf</td>
<td>Quantity: 376 bf</td>
<td>Quantity: 481 lbs</td>
</tr>
<tr>
<td>Preservative Treatment: Creosote</td>
<td>Preservative treatment: Creosote</td>
<td>Bearing plate size: 12” x 12” x 1/4”</td>
</tr>
</tbody>
</table>

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

LOCAL CONTACT: Township Supervisor  
East Lampeter Township  
2205 Old Philadelphia Pike  
Lancaster, PA 17602  
Phone: 717-393-1567

Information provided by The Pennsylvania Department of Transportation and derived from plans for Lancaster County T-548 (Millcross Road).

WIT Program Proposal Number: NA-23-89  
Federal Grant Identifier: NA-89-0224

December 1999

Northeastern Area  
State and Private Forestry  
The National Wood In  
Transportation Program