Type: Glued-laminated timber stringers and transverse glued-laminated deck

County: Franklin

Owner: American Farmland Trust

Engineer: Merv Eriksson

Spans over: Little Cove Creek

Bridge length: 40'-0"

Bridge width: 12'-0"

**Directions:**

From the east, leave I-70 at Exit 5E. Turn left onto MD 615 go .5 miles to the intersection of MD 615 and Hollow Road. Turn right onto Hollow Road and follow to the Pennsylvania state line. Hollow Road becomes PA 456. From the state line go approximately 3 miles to Cove Mountain Farm. The bridge site is on the right.

From the west, leave I-70 at Exit 5W. Turn right onto MD 615 and go approximately 2 miles to the intersection of MD 615 and Hollow Road. Turn left onto Hollow Road and follow to the Pennsylvania state line. Hollow Road becomes PA 456. From the state line go approximately 3 miles to Cove Mountain Farm. The bridge site is on the right.
GEOMETRY

Number of Spans: 1
Out-to-out length: 40'-0"
Center-of-bearing span lengths: 39'-0"
Skew: 0 degrees
Number of lanes: 1
Out-to-out width: 12'-0"
Number of beams and spacing: 3 @ 4'
Superstructure square footage: 480

Design load: H-10
Averaged daily traffic: 200 cows/2 tractors
Design by: Merv Eriksson
Abutment material: Rock filled gabion baskets
Total wood quantity: 3980 board feet (bf)
Total project cost: $26,000
Total superstructure cost: $20,000
Total superstructure cost /sq ft: $41.67

MATERIAL

**DECK**
- Material: Wood
- Grade: Structural #2
- Species: Southern pine
- Panel sizes: 3 1/8" x 4'-0" x 12'-0" (150 bf/panel)
- Quantity: 10
- Drying method: Kiln
- Preservative treatment: Creosote
- Specification: 12 pounds per cubic feet (pcf)

**BEAMS/STRINGERS**
- Material: Wood
- Grade: Select structural/industrial grade
- Species: Southern pine/red maple
- Sizes used: 5 1/8" x 26 1/8" x 40'-0" (446 bf/beam)
- Quantity: 3
- Drying method: Kiln
- Preservative method: Creosote
- Specification: 12 pcf

**GUIDERAIL CURB**
- Material: Wood
- Grade: Structural #2
- Species: Southern pine
- Size: 6 3/4" x 7 1/2" x 40'-0" (168.75 bf/curb)
- Quantity: 2
- Preservative treatment: Creosote
- Specification: 12 pcf

**GUIDERAIL BLOCKING**
- Material: Wood
- Grade: Structural #2
- Species: Southern pine
- Size: 6 3/4" x 10" x 2'-0" (11.25 bf/block)
- Quantity: 10
- Preservative treatment: Creosote
- Specification: 12 pcf

**GUIDERAIL POSTS** (none)

**LOCAL IMPACT:** Improves efficiency of dairy farm, particularly when stream is flooding, allowing cows to cross stream from pasturing fields to milking parlor.

**BRIDGE PERFORMANCE:** The bridge has been in place for one year. It is performing as expected.

**FUNDING SOURCES:** American Farmland Trust

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Information provided by Bryan Petrucci, American Farmland Trust, and Ed Cesa, USDA Forest Service.