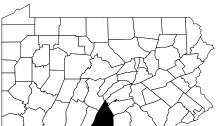
AMERICAN FARMLAND TRUST TIMBER BRIDGE, Franklin County, Pennsylvania





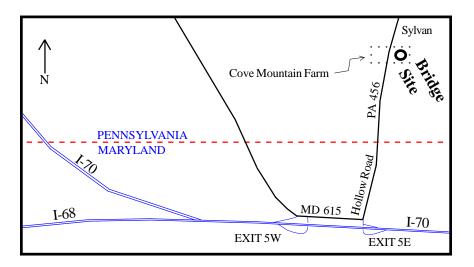
Type: Glued-laminated timber stringers and transverse

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 BEAMS/STRINGERS GUIDERAIL POSTS (none)

Material: Wood Material: Wood

Grade: Structural #2 Grade: Select structural/industrial grade
Species: Southern pine Species: Southern pine/red maple

Panel sizes: 3 1/8" x 4'-0" x 12'-0" (150 bf/panel) Sizes used: 5 1/8" x 26 1/8" x 40'-0" (446 bf/beam)

Quantity: 10 Quantity: 3
Drying method: Kiln Drying method: Kiln

Preservative treatment: Creosote Preservative method: Creosote

Specification: 12 pounds per cubic feet (pcf) Specification: 12 pcf

GUIDERAIL CURB GUIDERAIL BLOCKING

Material: Wood
Grade: Structural #2
Species: Southern pine
Material: Wood
Grade: Structural #2
Species: Southern pine

Size: 63/4" x 71/2" x 40'-0" (168.75 bf/curb) Size: 63/4" x 10" x 2'-0" (11.25 bf/block)

Quantity: 2 Quantity: 10

Preservative treatment: Creosote Preservative treatment: Creosote

Specification: 12 pcf Specification: 12 pcf

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

LOCAL CONTACT: Bryan Petrucci

American Farmland Trust

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

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