HIGH POINT ROAD TIMBER BRIDGE, Bay County, Florida

Type: Glued-laminated timber stringers and transverse glued-laminated deck
County: Bay
Owner: Bay County Public Works
Built in: 1998
Engineer: Jocee Cyr, John Alghemand
Spans over: Little Bayou
Bridge length: 25'-0"
Roadway width: 26'-0"

Directions: From Panama City take US 231 approximately 5 miles northeast to the intersection of US 231 and CR 2321. Take CR 2321 2 miles to the intersection of CR 2321 and CR 2311. Take CR 2311 north 2.8 miles to the bridge site. (Please note CR 2311 turns into High Point Road at the end.)
GEOMETRY

Number of Spans: 1  
Out-to-out length: 25'-0"  
Center-of-bearing span lengths: 24'-0"  
Skew: 0 degrees  
Number of lanes: 2  
Out-to-out width: 28'-0"  
Curb-to-curb width: 26'-0"  
Number of beams and spacing: 8@3'-8 1/8"  
Superstructure square footage: 700

Design load: HS-20  
Deadload: Approximately 180/lbs/ft/beam  
Averaged daily traffic: 110  
Superstructure design by: Gaddie Construction Company  
Abutment material: Wood  
Abutment preservative: CCA

Total project cost: $201,300  
Total superstructure cost: $92,000  
Total superstructure cost /sq ft: $131.40

MATERIAL

DECK
Material: Wood  
Species: Southern pine  
Allowable bending stress: 1920 psi  
Sizes used: 5 1/8” x 48” x 28'-0" glued-laminated panels  
Quantity: 3,588 bf  
Preservative treatment: CCA  
Wearing surface: 2” x 12” Southern pine

BEAMS/STRINGERS
Material: Wood  
Species: Southern pine  
Allowable bending stress: 2400 psi  
Sizes used: 6 3/4” x 23 3/8” x 25'-0”  
Quantity: 2,630 bf  
Preservative treatment: CCA

GUIDERAIL POSTS
Material: Wood  
Grade: No. 1 or better  
Species: Southern pine  
Sizes used: 8” x 8”  
Approach rail posts: 8” x 10”

GUIDERAIL Curb (none)

GUIDERAIL
Material: Wood  
Grade: Traffic rail, No. 1 or better; Hand rail, No. 2 or better  
Species: Southern pine  
Size: Traffic rail, 6” x 14”; Hand rail, 2” x 10”  
Approach rail: Galvanized steel w-beam

LOCAL IMPACT: The bridge carries High Point Road over Little Bayou in Bay County, Florida. The bridge is used by school busses, trucks, cars and pedestrians.

BRIDGE PERFORMANCE: The bridge replaced a 22 foot, 9 ton load limited existing bridge.

FUNDING SOURCES: USDA Forest Service: $50,000; Balance of funding from Bay County, Florida.

LOCAL CONTACT: Josee Cyr, P.E.  
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Information provided by Merv Eriksson, USDA Forest Service

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Northeastern Area  
State and Private Forestry