KEPLER-BRADLEY LAKES BRIDGE, Matanuska-Susitna Borough, Alaska



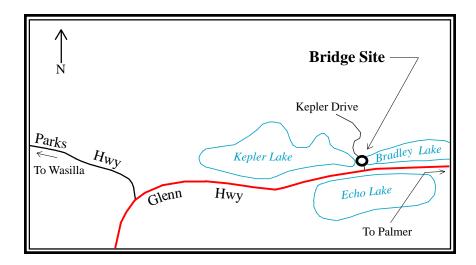


Type: Stress-laminated deck Borough: Matanuska-Susitna Owner: Matanuska-Sustina Borough

Built in: 1998

Fabricator: Alaska Forest Products Engineer: George Strother Spans over: Unnamed stream Bridge length: 16'-0" Roadway width: 12'-0"

Directions: From Wasilla, travel east on the Parks Highway to the intersection of Parks Highway and the Glenn Highway. Take the Glenn Highway east towards Palmer and travel 1.5 miles to the intersection of the Glenn Highway and Kepler Drive. Turn left onto Kepler Drive. The bridge site is visible from the highway.







GEOMETRY

Number of Spans: 1 Out-to-out length: 16'-0" Center-of-bearing length: 15'-0"

Skew: 0 degrees Number of lanes: 1

Out-to-out width: 16'-6" (includes walkway) Curb-to-curb width: 12'-0" (roadway) Superstructure square footage: 240 Design load: AASHTO HS-20 Averaged daily traffic: 20

Design by: Peratrovich, Nottingham &

Drage, Inc.

Abutment material: Wood Abutment wood quantity: 2760 bf Total wood quantity: 6,990 bf Total project cost: \$58,735

Superstructure wood quantity: 4230 bf Total superstructure cost: \$19,940 Total superstructure cost /sq. ft.: \$83

(includes walkway)

MATERIAL

DECK BEAMS/STRINGERS (none)

MS/STRINGERS (none) GUIDERAIL/HANDRAIL POSTS
Material: Wood

Grade: #1

Species: Alaska white spruce

Quantity: 340 bf Drying method: Air dry

Preservative treatment: Copper sulfate &

sodium fluoride Method: Double diffusion

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sodium fluoride

Quantity: 3000 bf

Material: Wood

Grade: #1

Method: Double diffusion

Species: Alaska white spruce

Sizes used: 2" x 12" x 16'

GUIDERAIL CURB

Material: Wood Grade: #1

Species: Alaska white spruce

Size: 10" x 10" Quantity: 450 bf

Preservative Treatment: Copper sulfate &

sodium fluoride

*HANDRAIL*Material: Wood

Species: Alaska white spruce Preservative treatment: Copper sulfate &

sodium fluoride

STRESSING STEEL

Grade: ASTM A722 Manufacturer: Dywidag Bar Diameter: 1" Coating: Galvanized Quantity: 90 If

Bearing plate size: 9" x 12"

FUNDING SOURCES: USDA Forest Service: \$26,635; Balance of funding from Mat-Su Borough and Mat-Su RC&D

Council

LOCAL CONTACT: Rhoda Portis, Coordinator

Mat-Su Resource Conservation & Development Council

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Information provided by Mat-Su RC&D Council

WIT Program Proposal Number: R10-03-95 Federal Grant Identifier: 95G-10-055

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State & Private Forestry

Alaska Region

The National Wood In Transportation Program

