



Hillside Bridge

Cuyahoga Valley National Park

Overview

When the previous rehabilitation of this structure last less than ten years, the FHWA engineers at Eastern Federal Lands decided to go with the longest lasting deck product available: FRP decking. To minimize construction costs, the FRP deck was slid into place from the end spans so railings could remain in place.

Owner: National Park Service
Installation Date: March 2016

Bridge Deck Dimensions

Deck Size: 213 feet by 8 feet
Deck Area: 1,752 square feet
Deck Panel Dimensions: 21.25 feet by 8 feet
Deck Depth: 2.5 to 3 inches
Deck Weight: 7 psf

Bridge Features

Requirements:

- 90 psf live load; L/500 deflection
- 4,000 lb emergency vehicle

Superstructure: Steel beams

Beam Spacing: 2.6 feet

Deck to Beam Connection: Stainless steel connection clips

Special Requirements:

- Deck has curbs and drainage scuppers

Skew: None

Non-Slip Overlay: Quartz aggregate

Guard Rail: Attached to steel superstructure

Color: Gray

