Wolf Trap National Park
Vienna, VA

Overview
A three-span pedestrian bridge was needed to connect sections of the park by spanning ten lanes of highway and on rail line that are the main access to Dulles Airport. A lightweight deck was required so fully assembled truss bridges could be quickly erected.

Owner: Virginia DOT
Installation Date: March 2012

Bridge Deck Dimensions
Deck Size: Three spans-150 ft, 170 ft, 138 ft by 15.5 ft
Deck Area: 7,100 square feet
Deck Panel Dimensions: 8.3 feet by 15.5 feet
Deck Depth: 3.5 inches
Deck Weight: 6.85 psf

Bridge Features
Requirements:
- 90 psf live load; L/500 deflection
- 20,000 lbs emergency vehicle
Superstructure: Steel truss with longitudinal beams
Beam Spacing: 4.25 feet
Deck to Beam Connection: Mechanical fasteners and clips

Skew: 34 degrees
Non-Slip Overlay: Epoxy aggregate
Guard Rail: Attached to steel superstructure
Color: Gray