



Dulles Airport Pedestrian Walkback Tunnel Washington Dulles International Airport

Location: Washington Dulles International Airport, Dulles, Virginia

Date: 2001 – 2002

Structure: Pedestrian Tunnel

Length: Approximately 760 feet (232 meters)

Cross-Section: Width: 40 feet (12.2 meters)
Height: 27 feet (8.3 meters)

Geology: Residual Soil, Clay, Jointed Claystones, and Siltstones of the Balls Bluff Formation

Cost: Approximately \$16.5 Million

Client: Dr. G. Sauer Corporation

Owner: Washington Dulles International Airport (IAD)



Figure 1. Installation of reinforced shotcrete final lining at the junction between the walkback and adjoining utility tunnel.

Tunnel Design and Construction Support:

The Pedestrian Walkback Tunnel at Washington Dulles International Airport (IAD) provides a connection between IAD's main terminal and midfield Concourse B terminal. Gall Zeidler Consultants (GZ) provided the design for the final shotcrete lining for the tunnel junction structure of the pedestrian walkway tunnel and adjoining utility tunnel. The tunnel was constructed beneath taxiways under shallow cover using the New Austrian Tunneling Method (NATM).

GZ provided construction support during the installation of the final (inner) shotcrete final lining (SFL) after a closed wraparound PVC membrane waterproofing system was installed.



Figure 2. Installation of architectural finishes on moving walkways in the pedestrian tunnel.