

Reflections Post & Panel & Segmental Retaining Wall

Reston, VA



Project Description: In order to provide enough area for parking spaces for a new office building, retaining walls were required along the property boundaries. Conflicts with utilities and easements made it necessary that no tiebacks extend beyond the property line. In order to meet these requirements, GeoStructures proposed the use of a post and panel wall for wall heights of up to 12 feet and gravity segmental block walls for walls up to 5 feet high. This design provided the most economical combination of walls to meet the property limitation. The post and panel walls consisted of galvanized steel posts placed on 8-foot centers in caissons extending 15 to 20 feet below the bottom of the wall. Concrete panels with a rough stone finish and stained a buff color to match the buff split face masonry of the segmental wall. The panels were placed between the steel posts and a gravel drainage layer was placed behind the wall to fill in the gap between the panel and natural ground. Approved by Fairfax County Critical Structures, the combination of wall types enabled the developer to meet the parking requirements for the project and stay within the project budget.

Developer: Lord Baltimore Properties

General Contractor: The Whiting Turner Contracting Co., Bethesda, MD

Architect: Architecture + Design Associates, Inc., Fairfax, VA

Land Surveying/Site Planning: Vika, Inc., McLean, VA

Structural Engineer: Donald Lewis Power, Inc., Springfield, VA

Geotechnical Engineer: Engineering Consulting Services, Ltd., Chantilly, VA