

## MONTGOMERY COUNTY PARKING FACILITY NO. 7, SILVER SPRING, MD

**OWNER:**

Montgomery County Dept. of  
Transportation Division of  
Parking, Silver Spring,  
Maryland

**ARCHITECT:**

Wilmot, Bower & Assoc.  
Rockville, Maryland

**ENGINEER:**

Cagley & Associates, Inc.  
Rockville, Maryland

**GENERAL CONTRACTOR:**

Manhattan Construction Co.  
Fairfax, Virginia

**PARKING CONSULTANT:**

Carl Walker Engineers  
Kalamazoo, Michigan

Montgomery County selected cast-in-place post-tensioned concrete for this garage for economic and functional reasons.

A cast-in-place system also was the easiest to construct to meet a very irregular site dictated "foot-print." The structural system is a one-way post-tensioned slab spanning 17 feet, supported by 32 inch deep post-tensioned beams with 60 ft. spans.

Montgomery County's Division of Parking has stipulated the use of cast-in-place post-tensioned concrete structural systems for all new garage construction. This decision was based on the County's experience with their older precast and steel framed facilities. On the basis of this experience, cast-in-place post-tensioned concrete provides the least expensive alternative when the life cycle costs are considered.

