



# Concrete Protection & Restoration

## White Oak Towers

### Plaza Deck Repairs & Waterproofing

#### Problem

The purpose of this project was to replace the waterproofing over the garage and repair the concrete structure below the waterproofing. The garage is a reinforced concrete structure consisting of 2 levels. The top level is directly below the plaza, driveway entrance, and asphalt tennis court. The north part of the bottom level and the ramp between the levels are below an asphalt parking lot. The elevated structural surfaces are a cast in place slabs with joists spanning southwest to northeast, typically spaced at 3 feet on center. Joists have a depth of approximately 14" from the bottom of the structural slabs and their width range from 5 1/3" to 10 1/2". The garage is 30 plus years old.

#### Solution

- ◇ Removed and replaced all soil, concrete pads, sidewalk, and asphalt above garage
- ◇ Completely removed all existing waterproofing from top of the garage and applied new hot waterproofing
- ◇ Repaired the concrete structure below the waterproofing
- ◇ Partial and full depth repair of delaminated/spalled concrete slabs
- ◇ All corroded or exposed steel reinforcing bar was sandblasted clean and replaced as necessary
- ◇ Replacement of plaza finishes, tennis courts, asphalt and concrete driveways, and landscaping

#### Location

Silver Spring, Maryland

#### Project Size

\$1,400,000.00

#### Owner

Kay Management

#### Engineer

Tadger-Cohen-Edelson Associates, Inc.



Concrete Protection & Restoration  
Saving the life of concrete!

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