



# Concrete Protection & Restoration Hilton Crystal City Hotel Plaza Deck & Parking Garage Restoration

## Problem

The purpose of this project was to repair the parking garage and to provide front entrance waterproofing at the Hilton Crystal City Hotel. The garage contains 3 levels of parking. The P1 level is slab on grade construction with spread footings supporting each column. The elevated levels, P2 and P3, are conventionally reinforced 8" thick concrete slabs. A conventionally reinforced ramp provides access to street level. The core portion of the garage is located directly under the hotel building and the remaining portion is located underneath a plaza area on the south side of the building.

## Location

Crystal City, Virginia

## Project Size

\$5,400,000.00

## Owner

Meristar Hospitality Corp

## Engineer

Tadger-Cohen-Edelson Associates, Inc.

## Solution

- ◇ Performed hydro demolition and partial/full depth repair on garage elevated ramps, structural surfaces, and walls
- ◇ Repaired all overhead, vertical, and slab on grade concrete delaminations
- ◇ Removed and replaced expansion joints
- ◇ Re-striped all garage structural surfaces, including the parking spaces, handicap signs, arrows, logos, curbs etc.
- ◇ Sealed all leaking foundation cracks by means of chemical grout injection
- ◇ Installed and replaced garage drainage system and associated cast iron piping
- ◇ Removed plaza finishes and waterproofing system, repaired the structural slab below the waterproofing, replaced waterproofing with hot rubberized asphalt, and replaced plaza finishes.



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