

Abingdon Heights Condominium Construction Document Review & Quality Assurance during Construction



Multifamily residential, with an 11-story, 213 unit reinforced concrete apartment structure, five townhouse/piggyback duplex clusters with 39 units and a four-level, below grade reinforced concrete garage for 333 vehicles. The exterior is primarily brick veneer, with cast stone accents over steel stud or wood framing. Construction type includes reinforced concrete, load-bearing masonry, steel stud framing and wood framing. Amenities include a landscaped entrance plaza above the main parking garage. The rear terraces of the podium townhouses are located on an elevated concrete deck. The buildings are located in Arlington, VA.

Challenge: Review the construction document to identify air and water infiltration issues, vapor and thermal transmission through the exterior envelope, and fire and sound separations.

Value Added: A primary issue identified during D&A's technical review of the construction documents included minimizing moisture condensation across the exterior wall section, which can corrode steel framing. D&A was able to cost effectively resolve the moisture issue by identifying a highly breathable and water resistant barrier, WRB, that with the appropriate detailing promotes convective drying of the wall.

Service performed: Technical construction document review of plans; quality assurance during construction.

Client/Contractor: Donohoe Construction
Architect: WDG Architecture

Duration: 2006-2009