

DUKE UNIVERSITY PARKING GARAGE IX

DURHAM, NORTH CAROLINA



Parking Data:

Number of Spaces	1,917
Number of Levels	7

Construction Data:

Cost Estimate	\$35,000,000
Completion Date	2009

Structural Features:

- Cast-in-place concrete structural system
- Corrosion inhibiting admixtures

Walker Parking Consultants' Services:

Prime Designer

Client Reference:

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The Duke University Parking Garage IX is located in the research zone of the Duke campus on Research Drive adjacent to the Eye Center. Several new projects in the area eliminated surface parking and this necessitated a new facility that will provide parking to students, faculty, visitors, and patients. The proposed user groups of this facility will have segregated floors and entry/exit locations that will allow for different forms of access and revenue control. The architectural context of this garage blends well with the surrounding buildings but also provides for a sustainable green design with the green walls and roof canopies. The mixture of precast spandrel panels at the upper levels and the terra cotta material at the lower levels provide a unique design solution. The garage contains flat floors with an express ramp on the north side. This function allows for better visibility and passive security to the patrons and provides the best solution for the site constraints. A high level of service lighting design was incorporated along with painting of the undersides of the concrete structure to provide a high level of visibility. The cast-in-place post-tensioned structure chosen should provide a long service life and contributes to the "open" feeling of the garage. The undersides of the concrete slabs were painted white to provide light reflectivity and the beam sides and bottoms were painted to match the exterior facades, helping them blend with the exterior architecture.