

Thompson Street Parking Structure Addition



Project Description

The addition to the Thompson Street Parking Structure is an integral part of the University's Parking and Transportation strategic plan to provide parking for anticipated incremental growth in demand, and to replace parking lost on central campus due to various construction projects, including [Joan and Sanford Weill Hall](#) and the [Perry Building addition](#).

The project involves a 365-space parking structure addition to the west side of the Thompson Street Parking Structure, and 9,000 gross square feet of office and support space for the departments of [Parking and Transportation Services](#) and the [Office of Budget and Planning](#). The existing structure and parking lots within the development zone currently provide 776 parking spaces. When construction is complete, the structure will accommodate 1,049 vehicles, for a net increase of 273 parking spaces.

Energy Efficiency Measures

- Electrical systems, including lighting, are designed to conform to requirements of the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 90.1 in effect at the time of design.
- Parking Structure Addition mechanical systems conform to requirements of the ASHRAE Standard 90.1 in effect at the time of design.
- The office building envelope has been designed to exceed the requirements of the ASHRAE Standard 90.1 in effect at the time of design.
- Exhaust fans at underground parking are controlled by a CO2 monitoring system, in order to minimize unnecessary operation.
- Parking structure lighting controls are being installed to turn off lights near the exterior when daylight is adequate.
- Lighting in public areas and infrequently used areas of the office building are controlled by occupancy sensors.
- Energy efficient windows/glazing are being installed for increased thermal efficiency.

Other Sustainability Features

- By utilizing features of the adjacent existing parking structure, the Addition adds required new function with a minimum of new construction.
- The Addition adds covered parking for motorcycles and secured and open parking for bicycles, which will increase the use of these low energy modes of transportation.
- The Addition includes installation of a 7,800 cubic feet storm water detention tank, to minimize peak storm water run-off.

- The Parking Structure Addition is designed for a 75 year life, to minimize reconstruction costs.
- Oil/sand separators are being installed on existing sanitary and storm water effluents in order to improve the quality of water leaving the site.
- Low flow toilet flush mechanisms and position-actuated faucets are being installed to minimize water consumption.
- Natural daylighting is provided to all office spaces.

Project Data

- Budget: \$ 15.7M
- Schedule: Completion scheduled for Fall 2010
- Square Feet: 9,000 gross sq. ft. of office space and 365 parking spaces