

MEMORANDUM

VAMC DALLAS – PATIENT PARKING GARAGE



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DATE: August 26, 2015
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PROJECT NAME: VAMC Dallas – Patient Parking Garage
PROJECT NUMBER: 549-906
SUBJECT: Project Summary

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Walker Parking Consultants responsibilities included the functional and structural design for the new parking garage located at the North Texas Veterans Health Care Center. The functional design included the striping layout, striping details, Parking Access and Revenue Control System, and the internal garage signage. The structural design included the foundation design and design of the precast superstructure.

The parking garage supplies 413 total parking spaces on three levels, Ground plus two supported levels. Twenty nine (29) ADA Accessible spaces have been provided on the Ground Level with five (5) of these spaces van accessible. The accessible spaces are located along Grid 3 with a protected walking path at the front end of the ADA parking spaces. A pedestrian crosswalk provides a direct connection to the main stair/elevator tower to minimize the pedestrian/vehicle interaction.

Passenger vehicles circulate the North Texas Veterans Health Care Center campus utilizing the Liberty Loop road for access to the new parking garage. Vehicles parking in the new parking garage will enter and exit at the southeast corner of the garage through the Parking Access and Revenue Control System. Once inside the garage, vehicles will circulate in a counter-clockwise direction with the upbound vehicles, vehicles searching for a space, adjacent to the stair/elevator tower. The downbound, exiting vehicles, will be remote from the main stair/elevator tower while traveling in the center bay. The circulation patterns described above allowed the use of angled spaces with one-way traffic.

The structural design consisted of a precast concrete superstructure supported on a deep foundation system. The gravity load resisting system consists on precast double tees, solid slabs, inverted tee beams, L-beams, R-beams, columns, and load bearing walls. The lateral load resisting system consists of precast lightwalls in the east/west direction and exterior shearwalls in the north/south direction. The main stair/elevator tower and secondary stair tower is separated from the garage proper by an expansion joint and are designed as independent structures. The

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foundation system consists of drilled piers and grade beams. The final length of the drilled piers will need to be confirmed in the field, but the anticipated depth to the bearing strata and length of the rock socket are noted in Detail F4/S-100.

The Campus Master Plan locates a parking garage in the surface lot south of the Patient Parking Garage along with potential dynamic messaging indicating parking availability. As a result, the southwest corner of the Patient Parking Garage includes the structural support and knockout panel for this vehicle entry/exit to occur.

The Project Team investigated the underground utilities during the design phase of the project. Some of the utilities were relocated and others could be abandoned. The storm drainage pipe located in the southeast corner of the site could not be relocated. The foundations have been designed to account for this pipe, but the General Contractor will need to verify the location and elevation prior to starting the foundation installation. The foundations may require slight modification should the actual location vary from the preliminary design investigation.