

Woolpert performed the design of the mechanical, plumbing, and electrical systems for the parking garage and modifications to the site.

The parking garage facility will include HVAC systems to provide climate control to the security rooms, electrical room, telecom room, and areas where elevator equipment is located. The HVAC systems serving the parking garage will consist of DX split systems and electric wall heaters.

The plumbing system consists of a domestic water service to feed wall hydrants on each floor adjacent to the stair towers. There are also area drains to collect the storm water. The elevator has a sump pump and basin. The fire protection system is a manual-dry pipe system that is fed when a fire truck is connected to the fire department connection. The fire protection system feeds four standpipe systems that are equipped with a 2-1/2" hose connection at each floor.

The electrical system includes a new underground electrical service with a backup generator on the north side of the building. All lighting for the building will utilize LED fixtures. The garage will have a dedicated function fire alarm system for elevator recall, and report to the campus-wide system through existing Building 75. Telephone and data service will be sourced from Building 75 also via an added ductbank. A lightning protection system will be provided for the garage. Several existing parking lot and roadway lights will be relocated as part of the site modifications. The existing underground circuitry for these lights will need to be carefully intercepted and redirected as shown. Power and controls for parking lot gates will be relocated also. An existing communications ductbank runs directly under the garage and will require modifications to a manhole to maintain access. A surveillance camera system will be provided throughout all floors, with connection to the existing campus-wide system. A small intrusion detection system is provided for the communications and security rooms. Emergency call box locations are provided on each floor.