The following information shall be included in specifications prepared for use on all University of Cincinnati projects. This information is supplemental and not intended to be a complete specification.

**GENERAL STANDARDS**

**Performance Requirements**

**Manufacturers Qualifications** - The elevator company shall be one regularly engaged in the business of manufacturing, installing and servicing elevators of the type required. The manufacturer shall maintain a local sales office with a substantial parts department and service personnel.

**Installer Qualifications** - The elevators shall be installed by the elevator manufacturer or an experienced installer working under the manufacturer’s direction. The installer shall have a record of successful experience with a record of successful in-service performance.

**Project Warranty** - The elevator contractor shall submit a written warranty agreeing to repair, restore or replace defective work or equipment for a period of one year from the date of completion.

**PRODUCT STANDARDS**

**Product Requirements**

**Electronic Elevator Control System** - The elevator control system shall be a standardized, non-proprietary control system by Motion Controls Engineering, Elevator Controls, GAL that is Lift-Net capable.

**Code Compliance** – All elevators shall be designed in accordance with the latest revision of the American National Standard Safety Code for Elevators, ANSI A17.1., the Barrier Free code as pertaining to elevators, the Americans With Disabilities Act (ADA), the National Electric Code and/or such state and local elevator codes as may be applicable.

**Car Operating Panel** - A car operating panel shall be mounted in the car and shall include, as a minimum, vandal-resistant illuminating push buttons marked to correspond to the landings served, a keyed emergency stop switch, an illuminating alarm button, a door-open button, a door-close button, a key-operated car light and ventilating fan switch, an independent service switch and all necessary fire service phase II car operating devices.

**Lighting** – The car lighting under normal conditions shall be designed to provide a minimum of 5 footcandles at the threshold with the door closed. Emergency lighting shall be provided which will produce a minimum of 0.2 footcandles at 4 ft. above the car floor 1 ft. in front of the car operating panel. Lighting shall be LED-type.

**Interior Finishes** – All interior finishes shall be approved by UC P+D+C department. Carpet is to be avoided; rubber flooring is preferred. The State ID number will be posted on the interior of the cab.
**Lobby Call Buttons** – All lobby call buttons will be mounted to escutcheon plates that are then secured to the wall.

**Hydraulic Elevators** – In addition to the above requirements, hydraulic elevators shall be designed with PVC casings to provide protection for the plunger cylinders, which shall be double-wall cylinders. In-ground cylinders should be avoided whenever possible to prevent soil contamination failures. Hydraulic elevators are to be utilized only for light-duty uses with three stops or less.

**Traction Elevators** – No rubber-coated metal cables will be used unless the product is generic and can be purchased by any elevator service company.

**Product Accessories**

**Car Telephone** – The elevator car shall be equipped with a hands-free telephone integral to the push button control panel. The telephone shall be Wurtec, Janus, or EMS. Separate handsets are not desired.

--- EXECUTION STANDARDS ---

**Testing & Commissioning**

**Maintenance** - The elevator contractor shall furnish maintenance and call-back service on the elevator after it is completed and placed in operation for a period of twelve months. This service shall consist of examinations of equipment, adjustments, lubrication, cleaning, supplies and parts to keep equipment in proper operation. The work shall be performed by trained employees of the elevator contractor during regular working hours. Maintenance service specified shall be part of the construction contract and not an additional cost to the owner.

**Equipment Support** -

1. Diagnostics shall be provided onboard.
2. It is preferred that no service tool shall be required for equipment installation, adjustment, maintenance or troubleshooting. If one is required, it shall be furnished to the University for maintenance.
3. Spare or replacement parts shall be available at published prices.
4. Regularly scheduled technical training classes shall be available at reasonable cost.
5. Telephone support shall be provided trained, experienced technicians, without charge to customers.
6. Engineering field support shall be available at the customer’s location, at reasonable cost, by prior arrangement.
7. All installation, adjustment, maintenance and troubleshooting manuals and documents required for proper equipment operation (including as-built prints) shall be provided with equipment. Replacement copies of documentation shall be readily available at reasonable cost.

**Garages** – All open garages with elevator lobbies exposed to moisture and temperature extremes shall use heat detectors in lieu of smoke detectors to activate fireman’s recall. Glass-back cabs are preferred, if possible, for exterior parking garage elevators, as they enhance visibility and security.