PART 1 GENERAL
A. Manufacturers on this list falls into four categories:
   1. **Preferred Manufacturer**: Approved manufacturer for use on CU projects.
   2. **Conditional approval**: Manufacturers approved for certain projects. Contact CU Facilities for approval to use on new projects
   3. **Under Consideration**: Manufacturers being evaluated. Do not specify unless approved in writing from CU Facilities.
   4. **Hold / Removal**: Manufacturers have been removed, generally for poor performance or unresolved issues on past projects. These manufacturers should not be specified for any projects.

B. This list is intended to cover major equipment vendors formerly listed in the Specification section. Often, auxiliary vendors used to construct the equipment are listed within the specification section. This list does not absolve the Engineer of Record from reading and complying with the requirements set forth in the Specification Sections and sound engineering practices.

C. The University maintains a "Preferred Manufacturers List" for major and often used equipment and materials. This list is updated regularly. The A/E shall use this list in developing construction document specifications.

D. Where specific manufacturers are specified in the detailed specifications other approved manufacturers listed may be substituted provided a model with similar quality exists and the substitution is approved in writing by CU Facilities.

E. Equipment not listed on the Preferred Manufacturers list must be presented to CU Facilities for review and approval prior to specifying. A mock-up or samples of the equipment may be requested to review quality and to verify maintenance access requirements.

PART 2 Correction / Substitution
A. If there are errors in model numbers or manufacturers listed, or if a model is no longer available, notify CU Facilities in writing for a clarification. A response regarding the Correction or Submission will be provided.

PART 3 Equipment Preferred Manufacturers List
A. Wall Panel
   1. Cambridge

B. Lighting Fixtures:
   1. Fluorescent Fixtures
      a. Mercury
   2. Halogen Fixtures
   3. MR-11 (12V/20W) by Eurofase

D. Lamps
   1. 20 MR-11 by Regency
E. Floor Tiles
  1. Montauk
F. Exhaust Fan
  1. Morrison
PART 1  GENERAL
A. The following requirements cover the standard new installation and or modernization of passenger traction elevator at the Columbia University, New York, NY.
B. All requirements per ASME code and RS-18 to bring the elevator to current code compliance, including ADA requirements.
C. An elevator consultant shall be provided for new installation of any elevators system for specification review, incorporating Columbia standard requirements, monitoring of installation up to completion.

PART 2  PURPOSE
A. The purpose of this guideline is to ensure all installations are following the Columbia University equipment standard. Contractor shall provide and install a new overhead low voltage (12V) down light halogen fixtures and side mount canopy fluorescent lighting fixtures equipped with emergency power pack unit, new cab hand rails, ventilation, reflective mirror and pad hooks fitted for the cab with protective pads. Floor tiles are new with 12” x 12” slate. See Division 14, Section 14210 for Traction Elevators and Section 14240 for Hydraulic Elevators.

PART 3  CAB WALL DESCRIPTION
A. Wall Panel:
1. Cab Wall shall use Cambridge Woven Metals: Architectural Design 0032-A, removable, one inch raised, held with aluminum “Z” clips and with stainless steel #4 satin finish reveals in-between panels. NOTE: No exception is accepted.
B. Wood Shell:
1. 14ga. steel baked enamel shell that would last much longer and be more durable designed to accept finished wall panels.
2. Apply 26-gauge sheet steel or fireproofing compound to the hoistway side of the shell.
C. Canopy:
1. Canopy construction method shall match the shell walls.
2. Use 12-gauge furniture sheet steel and adequately support canopy to comply the loading code.
D. Base:
1. Use 16-gauge baffles, and be reinforced.
2. Finish in stainless steel applied direct at the walls.
3. Stainless steel #4 satin finish

PART 4  ELEVATOR CAB DOOR DESCRIPTION
A. Cab Door Fronts:
1. 14ga. stainless steel adequately re-enforced to prevent oil canning. Much more durable.
B. Fixed type-return panel
1. Transom shall be 16-gauge, and be reinforced and constructed the same as the front return panel
2. Return Wall: Stainless steel #4 satin finish
3. Strike Columns: Stainless steel #4 satin finish
C. Cab doors or door:
1. Standard 1 ¾” thick, 14-gaige hollow metal flush construction, reinforced for power operation and insulated for sound deadening. Paint hatch side of the doors gray and face cab side with 16-gauge sheet steel in selected material and finish.
2. Stainless steel #4 satin finish
D. Return Wall:
1. It shall be stainless steel #4 satin finish.
E. Strike Columns:
1. It shall be stainless steel #4 satin finish
F. Transom:
1. It shall be stainless steel #4 satin finish
PART 5  CAB CEILING DESCRIPTION
A. Car Top Ceiling:
   1. Arrange exit panel to swing out.
   2. The exit panel shall have dual locks, necessary stops and two handles, the panel shall be
      flush with the interior face off the ceiling.
   3. Construction techniques for wall panels shall apply to ceiling panel construction.
B. Suspended Ceiling:
   1. Suspended, non-removable3/4” thick, fire retardant plywood with all visible
      Surfaces finished in stainless steel, tile form, with 1/8” black groove in between tiles
      and custom arch stainless steel at the endings.

PART 6  HANDRAIL:
A. Provide a minimum of 12-gauge plate at the hatch side of the shell, aligned with the handrail
   attachment points, to assure secure handrail mounting.
   1. Handrail attachment system shall support the weight of a person (250 pounds) sitting on
      it without any deflection and damage to the handrail, cab panel and the shell.
   2. Handrail dimensions shall be ¼” x 4” stainless steel.

PART 7  SECURITY MIRROR:
A. It shall be tamper proof AND TRIANGULAR TYPE, E1-99
B. Multi-directional mirror mounted inside cab reflecting images visible from outside.

PART 8  PADS AND HOOKS:
A. Pad hooks shall be provided. Shall cover the front return panel and the side and rear walls.
   Aluminum finish pad buttons for protective use.
B. Pads shall be provided.

PART 9  VENTILLATION
A. The fan shall have no less than two operating speeds with protective mesh grill.
B. The ventilation system shall be sized to provide one air change per minute at low speed and
   1.5 air exchanges per minute at high speed.
C. The unit design and installation shall be such the maximum noise level, when operating at
   high speed, shall not exceed 55 dBA approximately three feet above the car floor.
D. A switch to control the fan shall be provided inside the car station access panel.
E. Fan Grill shall be provided with finish painted with color to match the ceiling design.
F. Ventilation provided by Morrison model AA or O E 90

PART 10 LIGHTING
A. Overlap fluorescent lamps on each side with indirect wall mounted stainless steel reflectors.
B. Fluorescent fixtures shall be equipped with emergency power pack.
C. Light Fixtures shall be:
   1. Fluorescent strip top mounted, die formed of heavy gauge cold-roller steel. Hidden by
      stainless steel light alcove cover.
   2. Low voltage-down light non interchangeable 12 volts halogen lamps directly mounted at
      the suspended ceiling.
   3. Use Eurofase mini down-light fixture, model# R036C. Use 20W shielded MR-11 bulb
      type rated for 12V equivalent LED lighting NYC approved fixtures.
   4. Recess down light overhead ceiling fixtures
D. Provide two (2) individual 125V/15amp circuits for overhead lighting.

PART 11  FLOORING
A. Flooring materials shall be 12” x 12” slate Montauk black honed #647-07 charcoal tile 3/8”
   gauge selected.

PART 12  COUNTER WEIGHT ADDITIONAL WEIGHTS:
A. Due to floor tiles replacement, provide additional weights on the counterweight to properly balance the elevator system needed.

PART 13 FABRICATIONS AND INSTALLATION

A. Interior cab surfaces shall be flat free of bow or oil canning. The maximum overall deviation between the low and high points of 24” by 24” panel section not to exceed 1/32”.

B. Make weights of connections and accessories shall be adequate to safely sustain and withstand stresses to which they will be subjected.

C. All steel work except stainless steel and bronze material shall be painted with approved coat of primer and one (1) coat of baked enamel paint.

PART 14 DRAWINGS

A. It shall be provided for approval before any fabrication of materials.

B. It shall be approved by office of the Vertical Transportation, Columbia University

PART 15 FILING FEES AND PERMITS

A. All filing fees and permits shall be provided by the Elevator Contractor.

The End