Section 14235 Elevators

Part 1- General

1.01 Section Includes.

A. Furnish and provide all materials and labor necessary for the complete installation of the Regal Elevator.

B. Obtain information on conditions affecting work at jobsite. Include verification of dimensions, field material for anchoring, accessibility and storage space. Verify voltages and outlets on electrical drawings.

1.02 Work Done By Others.

A. Suitable, legal, two-hour fire-rated hoistway, if consistent with building construction.
B. Pit poured to correct dimensions front to back and side to side and depth from the finished first floor level as indicated on the final layout drawings.
C. Pit floor to be designed for an impact load of 3500 pounds.
D. Suitable, fire rated hinged hoistway entrance doors and machine access doors.
E. Machine room with an entrance door as indicated on the final layout drawings.
F. Electrician shall furnish the 220 volt single-phase power supply with a line disconnect switch immediately adjoining the control cabinet, and within sight of the machine. A separate 120 volt 20 amp single-phase power with fused disconnect switch or circuit breaker with feeder wiring to controller.
G. A light fixture and a 110-volt outlet must be provided in the machine area. The switch for operation of the light fixture must be located in the machine room area nearest the machine area access door.
H. Connection of telephone traveling cable to outside central exchange, as required by ANSI A17.1 CODE.

1.03 References.

Design and installation shall be in compliance with regulations and all governing agencies. Lift shall be subject to local, city and state approval prior to installation, along with city and state inspection after installation. Special local requirements shall be determined and handled locally by distributor with manufacturers agreement.

1.04 Submittals.

Submit drawings or manufacturer's literature for approval. Drawings shall show rough-in and wiring requirements.

1.05 Substitutions.

No substitutions will be considered unless written request for approval has been submitted by the bidder and was received by the architect at least ten (10) days prior to the date of receipt of bids. Each such request shall include the name of the materials for which it is to be substituted and a complete description of the proposed substitute including drawings, cuts, mock-ups, performance and test date, a list of projects of similar scope photographs of existing installations and any other information necessary for evaluation.

PART 2 - PRODUCTS

2.01 Manufacturer.

American Crescent/Matot, Picayune, MS or Bellwood, IL

2.02 Product Type.

A. Model shall be the Regal Residential Elevator.
B. Car to be _____ inches wide by _____ inches deep with a minimum inside clear height of 6'-8". Lifting capacity to be 750 pounds. Elevator serves _____ stops and travels a total distance of _____ feet _____ inches. Provide gate (s) on car as required to accommodate landing requirements.

2.03 Fabrication.

A. CAB: [ ] Sierra, [ ] Executive, [ ] Plantation, or [ ] Presidential
B. PLATFORM: Cab platform shall be constructed of 1 1/4" unfinished oak veneer plywood.
C. LIGHTING: Lighting will consist of two (2) recessed ceiling lights operated on a separate 110-volt circuit.
D. CAR DOOR: Each open side of cab shall be equipped with a folding car door with (3) clear acrylic center panels and a finish that matches selected car finish.
E. DOOR INTERLOCKS: A hoistway door interlock shall be furnished for each hoistway entrance. Interlock shall prevent operation unless doors are closed and prevent opening of door when car is not at that landing.
F. OPERATION: Operation shall be automatic. A call station shall be furnished for each entrance. A push-button station in the car shall have one button for each level served. Car station shall also contain an emergency stop switch, alarm button, and light switch. Alarm bell shall be furnished on top of car.
G. GUIDE RAILS: Steel rails shall be furnished to guide the car. Guide rails shall be mounted to the floor slab and hoistway wall with steel brackets.
H. MACHINE: Machine shall be a 1:2 roped hydraulic type consisting of a constant displacement, submersible pump and motor, oil reservoir and hydraulic control unit. The power unit shall be equipped with battery operated, controlled descent, which lowers the lift to the lowest landing in the event of power failure.
I. CARRIAGE: Carriage shall be attached to the car platform on the guide rail side of the car. Instantaneous broken cable device shall be provided on the carriage.
J. ELECTRIC SUPPLY: Shall be 220 volt, single phase, 30 amps, or 220 volt, three phase, 60 hertz, 30 amps.
K. CONTROLLER: Controller shall be programmable, solid state located in the machine room. Auto call, single floor register operation shall be provided.

2.04 Performance.

A. Rated load 750 pound capacity.
B. Nominal travel speed of 40 F.P.M.

Part 3 - Execute

3.01 Installation.

A. Coordinate work with general contractor.
B. Leave standard electrical connection drawings with electrical contractor to make final electrical connection. Wiring within unit shall be done as part of work of this section, 30-amp circuit required.
C. The installation of the elevator shall be made in accordance with the approved plans and specifications and manufacturers installation instructions.