Work by Others - 3/4” x 4”

Luxury Lift Hydraulic (LLH)

Prior to job site arrival for installation of the elevator, RE requires the following Work by Others to be completed by General Contractor (GC) or Homeowner if acting as own general contractor (HO).

ELEVATOR HOISTWAY AND LAYOUT : Provide an enclosed finished **LEGAL** hoistway with **INSIDE CLEAN, DRY, CLEAR, SQUARE AND PLUMB** (including level pit floor) dimensions recommended to be a minimum of 52 inches wide by 57 inches deep (52” X 57”) including blocking, which will provide an interior cab dimension of approximately 12 square feet (as detailed in Plan View-HP1 on our website). Additional Hoistway Plans, including a maximum cab size of 15 square feet, are available at ResidentialElevators.com or by contacting your local Sales Representative. RE will build to your specifications if smaller than the above, but only to the smallest dimension inside the finished hoistway (plywood walls preferred). If the elevator is intended to accommodate a wheelchair, please review the necessary hoistway dimensions with the RE sales representative.

WOODFRAME BLOCKING REQUIREMENTS: Four (2 sets of 2 ea.) 2” x 12” yellow pine studs running vertically the entire length of the hoistway 12” on center on each side of rail wall centerline (centerline of rail wall must be minimum of 28” off inside front wall), 2” x 12” to be face nailed, glued and edged with 2” x 4” for structural integrity. The yellow pine boards shall all be fastened to the wall supports with 3/8” by 2- 1/2” lag bolts to support elevator rail system. To insure adequate support in the wall for guide rail fastening the blocking should not exceed 12 vertical feet without intermediate horizontal support and shall meet all pertinent building codes. See blocking detail on pg. 4.

CONCRETE BLOCK HOISTWAY REQUIREMENTS: All dimensions shall remain the same for **LEGAL, INSIDE CLEAN, DRY, CLEAR, SQUARE AND PLUMB** hoistway. **RAIL SIDE WALL BLOCKS SHALL BE FILLED SOLID WITH CONCRETE THE ENTIRE HEIGHT OF HOISTWAY**. All patching, fire caulking, painting and grouting required after installation is the responsibility of the GC or HO.

A MINIMUM PIT OF 8” INCHES (10" INCHES FOR EON DOORS) IS REQUIRED: The pit must be built to withstand 3,900 lb impact load, must be level, and must be clean when RE arrives for installation. Minimum 96” overhead clearance (106" for EON Doors) is required for 6’-8” cabs (100" for 7'-4" cabs and 108” (120" for EON Doors) for 8’-0” cabs). **SOLID CORE HOISTWAY DOORS WITH HINGES LOCATED ON RAIL SIDE**, properly installed to comply with ASME A-17.1 and any other requirements of the local jurisdiction. Doors shall NOT be centered but be installed in accordance with RE specifications in order to allow proper rail side return measurement. Rail side return measurement of at least 12 inches is required. Hoistway side of landing door frames shall NOT have casing or door trim that exceeds ¼” thickness.

THRESHOLD: Provide a threshold from each floor to within 1/2” minimum to 1-1/4“ maximum of the elevator platform **AFTER** the elevator has been installed.

FLOORING: Finished flooring in elevator cab shall be provided by others after elevator installation is complete. RE provides a 3/4" threshold to accommodate finished flooring.

S**AFETY REQUIREMENTS:**

1. **ANCHORING SUPPORT REQUIREMENT:** Header must support 5,000 lbs. of vertical force (see header detail on pg. 5).
2. All **BARRICADES** and all other legal methods required by any jurisdiction to prevent access into the shaft **MUST BE PROPERLY INSTALLED OUTSIDE OF EACH FLOOR LANDING FOR THE PROTECTION OF WORKMEN AND ALL OTHER SUBCONTRACTORS AND/OR OCCUPANTS UNTIL THE INSTALLATION OF THE ELEVATOR IS COMPLETE. FAILURE TO PROPERLY BARRICADE THE SHAFT MAY LEAD TO SERIOUS INJURY OR DEATH.**

DELIVERY AREA AND WORKSPACE: Provide an easily accessible, secure, protected space at ground level no less than 10’x15’ for delivery of elevator. Photos will be taken by RE delivery crew on delivery. If any damage is done to the elevator after delivery, or parts are missing when the installation crew arrives, GC/HO will be billed for the same. GC/HO is responsible for providing a clear, unobstructed path between the delivered elevator and the elevator hoistway in addition to a minimum 20’x20’ workspace (including the delivered elevator) for the elevator installation crew.

3/4”x 4” Rule (Clearance between Doors or Gates and Landing Sills and Car Doors or Gates): Regardless of wall construction type, **EACH HOISTWAY DOOR MUST BE RECESSED TO MEET THRESHOLD REQUIREMENTS** as mandated by ASME A.17.1 The distance between the backside of hoistway/ landing door(s), in the closed position, and the elevator gate(s) in the closed position, shall reject a four inch ball at all points. The distance between the backside of hoistway/landing door, in the closed position, and landing sill shall not exceed 3/4 inches. **ELEVATOR CANNOT BE OPERATIONAL UNLESS LANDING DOORS ARE IN COMPLIANCE** (See Page 4 of this Contract for further information). Further, in order to accommodate these requirements and the Elevator Interlock Safety Device, a 2.5” x 8” cutout must be made in the upper edge of the door on the doorknob side (RE Rep will mark the cutout to be made) and a flush mount door knob must be used on the interior (elevator) side of the hoistway door (Door hardware to be sourced and provided by GC/HO).

MACHINE ROOM: An elevator machine room shall be provided by the contractor. **UNLESS OTHERWISE SPECIFIED, MACHINE ROOM IS ASSUMED TO BE AT LOWEST LEVEL ADJACENT TO ELEVATOR.** This area shall be a minimum size of 4’x4’ and must meet all electrical codes. GC or HO is responsible for notifying RE if Machine Room is located within a Flood Zone, and GC or HO is responsible for supplying a platform or room above Flood Zone per RE specifications. Attic is not recommended for machine room installations. However, if machinery is located in attic, a deck must be built to support loads imposed by hydraulic pumping unit (Contact RE for Details). Accessibility for service and installation should be provided with a legal machine space with minimum height of 84”, including catwalk to deck area, scuttle hole and attic ladder. If machine room is remote (not rail side adjacent), GC or HO is responsible for coordinating the timely installation of 3/4” seamless schedule 80 black pipe. RE will install, but must have ample lead time and access; contact Sales Representative for details.

ELECTRICAL: One 240 Volt 30 Amp dedicated service 10-3 wire with ground in 4x4 Electrical Box and one dedicated 120 Volt, 20 Amp service in 4x4 electrical box (Both with 8 feet of length from inside machine room wall penetration), **ACTIVE** telephone line, GFI receptacle, one electrically dedicated light fixture with bulb guard and switch, shall all be located in elevator machine room. **POWER ON THE 240V LINE MUST BE A 10-3 WIRE WITH A GROUND AND A DEDICATED NEUTRAL TO THE UNIT.** The 240V feed should have a black, red, white and ground wire coming to the machine space. The GC or HO must make the electrical contractor aware of this requirement; a licensed electrical contractor will fully understand this requirement. Black and red are powered with 120V each totaling 240V. White is neutral. Ground to ground standard. (See RE electrical requirements sheet on website.) **NOTE:** If power swing door option is purchased, a separate 120v outlet will be required at each floor landing receiving this feature – specific location to be determined by Sales Representative.

NOTE: INFORMATION SUBJECT TO CHANGE WITHOUT NOTICE. CHANGE MAY BE REQUIRED BY NEW CODES OR RULES

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