ATTENTION FRAMERS:

This home is receiving a home elevator which will require structural support for the elevator rail system and loads built into the framing of this elevator shaft. Attached are two detailed drawings showing the layout and material needed to support this load.

For this project the Rail Support Wall is located on the:

- □ Right Hand Wall
- □ Left Hand Wall
- □ Rear Wall

(Always orient the rail wall from the lowest level served by elevator)

If you have any questions or comments,

you can call me, ___________________ at ___________________

Thank you.

I have stapled this document to the wall that will require the structural support.
ELEVATOR SHAFT STRUCTURAL REQUIREMENTS

Right Hand Rail Supports Shown (Left Hand Opposite)

TO ENSURE ADEQUATE SUPPORT IN WALL FOR GUIDE RAIL FASTENINGS, VERTICAL SPANS OF 2 x 12’ CROSSEVES SHALL NOT TO EXCEED 12’ - 0” INTERVALS WITHOUT INTERMEDIATE SUPPORT

(4) 2 x 4 x HEIGHT OF HOISTWAY

CENTERLINE OF RAIL SUPPORTS MUST BE MIN. 28” OFF FRONT WALL

FRONT WALL 2” x 4” CONSTRUCTION

LANDING DOOR

FRONT WALL OF SHAFT (ALWAYS USE 2” x 4” CONSTRUCTION ON FRONT WALL OF SHAFT TO AVOID 3” x 5” CODE VIOLATION - (SEE 3 X 5 RULE ON PAGE 4)

OVERHEAD VIEW

SIDE VIEW

ELEVATION

CONTRACTOR RESPONSIBILITY

Note: If rear wall rail or front & rear wall applications - supports to be measured from center line of shaft

Each vertical support stack shall have:
(2) 2” x 12”
(2) 2” x 4”
(1) piece 1/2” plywood between 2 x 12’s

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**Elevating your standard of living**

**HOISTWAY / PIT DETAILS**

- **12'' MAXIMUM FOR VERTICAL SUPPORTS WITHOUT INTERMEDIATE SUPPORT**

- **12' - 0" MAXIMUM FOR VERTICAL SUPPORTS WITHOUT INTERMEDIATE SUPPORT**

- **PLYWOOD (PREFERRED) OR DRYWALL**

- **VERTICAL 2 x 12's AND 2 x 4's BY GENERAL CONTRACTOR**

- **TOP FLOOR LANDING**

- **LANDING DOOR (BY GENERAL CONTRACTOR)**

- **TOTAL TRAVEL FROM CLEAR INSIDE TO FINISH DOOR JAMB**

- **8'' PIT DEPTH MINIMUM**

- **REINFORCED CONCRETE SLAB REQUIRED TO WITHSTAND THE FOLLOWING IMPACT LOADS - HORIZON TRACTION UNIT - 5100 LBS. LUXURY LIFT HYDRAULIC - 3900 LBS.**

- **ELEVATOR PIT**

- **OVERHEAD CLEARANCE REQUIREMENTS**
  - **HORIZON TRACTION**
    - 102'' MIN. FOR Std. CAB HEIGHT
    - 114'' MIN. FOR 8'-0'' CAB HEIGHT
  - **LUXURY LIFT HYDRAULIC**
    - 96'' MIN. FOR 6'-8'' CAB HEIGHT
    - 108'' MIN. FOR 8'-0'' CAB HEIGHT

- **TRIM ON BACKSIDE OF DOOR NOT TO EXCEED 1/4''**

- **RIGHT HAND RAIL WALL (SHOWN)**

- **NOTE:**
  - **ALL WORK ABOVE TO BE BY GENERAL CONTRACTOR**

**RESIDENTIAL ELEVATORS**

Elevating your standard of living

**HOISTWAY / PIT DETAILS**

**HOR02**

March 11
Home Elevator 3”x 5” Rule

Residential Elevators manufactures and installs a fully code compliant elevator per the ASME ANSI A17.1 National Safety Code for Elevators - Section 5.3 Private Residence Elevators.

Rule 5.3.1.4.2 (aka 3”x 5” Rule) of the above referenced code states: Clearance Between Hoistway Door(s) or Gate(s) and Landing Sill(s) and Car Door(s) or Gate(s). The clearance between the hoistway doors or gates and the hoistway edge of the landing sill shall not exceed 3 inches (76 mm). The distance between the hoistway face of the landing door or gate and the car door or gate shall not exceed 5 inches (127 mm).

Note: Concrete block / masonry shafts and some commercial metal door frames can often create 3”x 5” Rule violations.

The 3”x 5” Rule is a code requirement. Residential Elevators takes pride in ensuring safety in the use of their equipment and as a policy wants to make sure all Builders, Architects, Developers, Owners / Users are aware of and adhere to this National Code.

This is a safety issue.