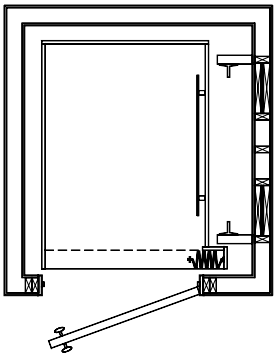
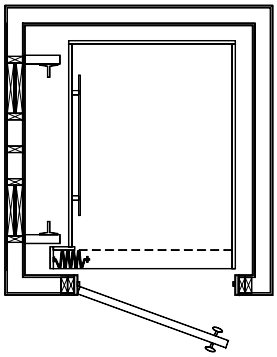
ATTENTION FRAMERS:

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.

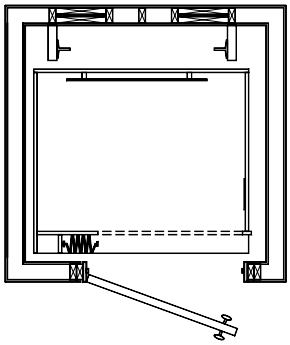
For this project the Rail Support Wall is located on the:



☐ Right Hand Wall



☐ Left Hand Wall



☐ Rear Wall

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

The rail wall the blocking is installed in shall remain free of plumbing and electrical lines.

If this can not be avoided, the lines must be routed around or behind the blocking placed in the wall, and clearly marked by the GC.

The GC will be responsible for any damage to any plumbing or electrical lines placed in the blocking wall.

If you have any questions or comments,

you can call me, Brett Carnnahan at call/text 316-670-6137 or 316-361-6220 x 3. Leave a message and I will call you back

I have stapled this document to the wall that will require the structural support.

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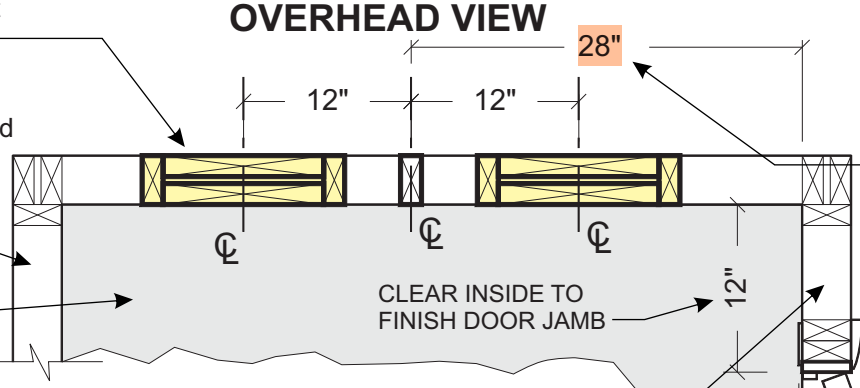
HOR03

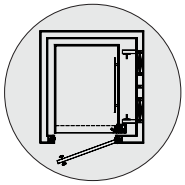
ELEVATOR SHAFT STRUCTURAL REQUIREMENTS

LLT & LLH

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

OVERHEAD VIEW





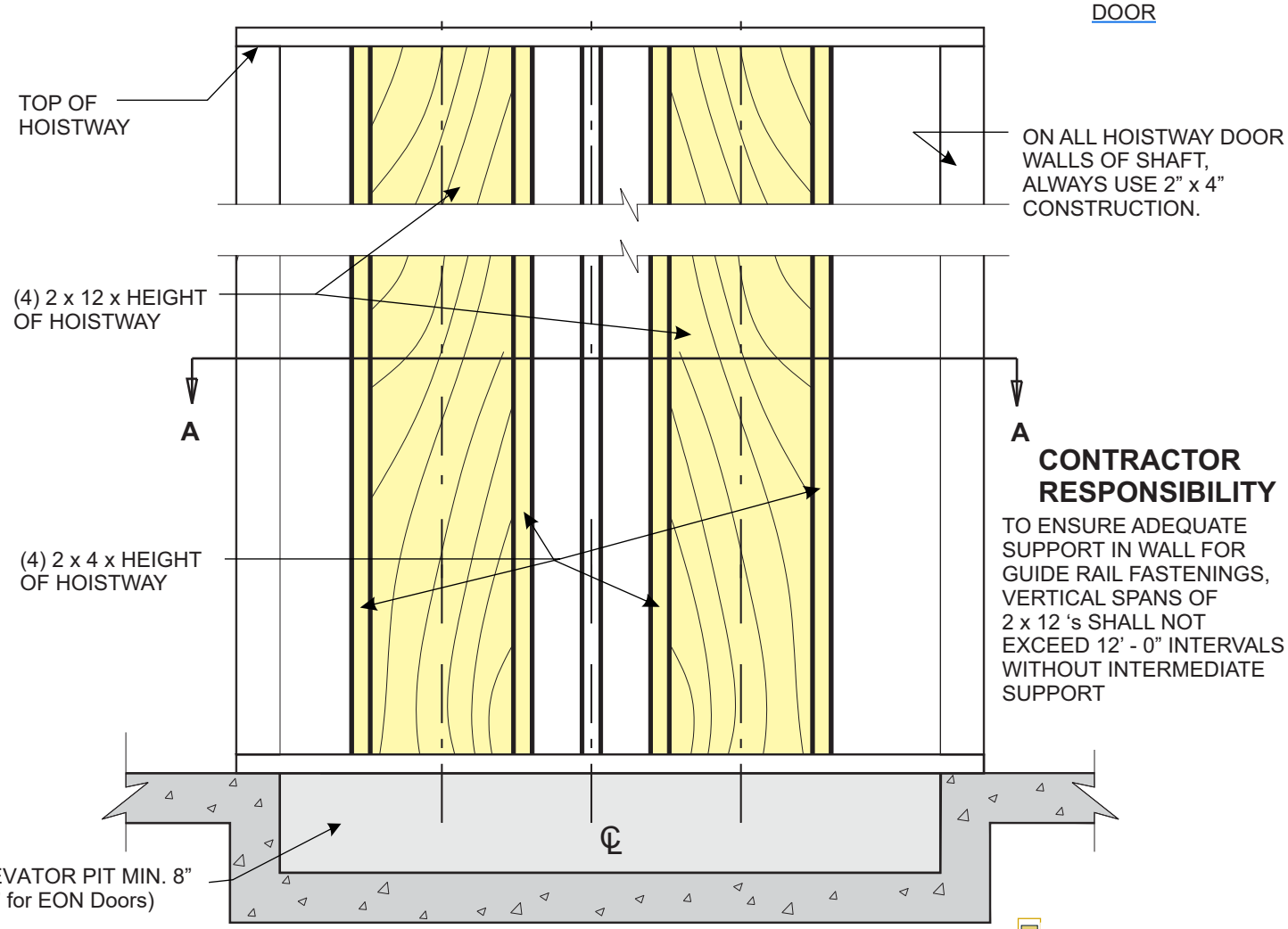
Right Hand Rail Wall (Shown)

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

Note: If a rear wall rail or a front & rear opening cab (pass thru) - supports to be measured from center line of shaft.

SECTION A - A

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



CONTRACTOR RESPONSIBILITY

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

Right Hand Rail Supports Shown
(Left Hand Opposite)

ELEVATION

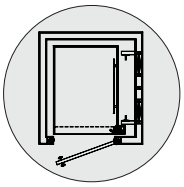
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HOR02 Hoistway / Pit Details LLT & LLH

NOTE:
ALL WORK TO BE DONE BY GENERAL CONTRACTOR

All walls must be level within 3/4" from floor to floor per elevator code



Right Hand Rail Wall (Shown)

OVERHEAD CLEARANCE REQUIREMENTS

TRACTION
96" MIN. FOR Std. CAB HEIGHT
102" FOR 7'-4" Cab Height
110" MIN. FOR 8'-0" CAB HEIGHT

HYDRAULIC
96" MIN. FOR 6'-8" CAB HEIGHT
100" MIN. FOR 7'-4" CAB HEIGHT
108" MIN. FOR 8'-0" CAB HEIGHT

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

12"

PLYWOOD (PREFERRED) ~~OR DRYWALL~~. (LOCAL AUTHORITY HAVING JURISDICTION MAY HAVE ADDITIONAL REQUIREMENTS.)

LANDING DOOR (BY GENERAL CONTRACTOR)

LANDING TOP FLOOR

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

TRIM ON BACKSIDE OF DOOR NOT TO EXCEED 1/4"

LANDING DOOR (BY GENERAL CONTRACTOR)

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

12"

FROM CLEAR INSIDE TO FINISH DOOR JAMB

TOTAL TRAVEL

ON ALL HOISTWAY DOOR OPENING WALLS OF SHAFT, ALWAYS USE 2" x 4" CONSTRUCTION.

8" PIT DEPTH MINIMUM (10" for EON Doors)

REINFORCED CONCRETE SLAB REQUIRED TO WITHSTAND THE FOLLOWING IMPACT LOADS -
TRACTION - 5100 LBS.
HYDRAULIC - 3900 LBS.

BOTTOM FLOOR LANDING

ELEVATOR PIT

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