5110 Atlantic Avenue
Raleigh, NC 27616
United States
Tell Free: 1-800-790-1635

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Planning Guide

Victorian Residential Elevator - Winding Drum Drive System

This planning guide is designed to assist architects, contractors, homeowners, and elevator professionals in planning for a home elevator that meets the requirements of ASME A17.1 Part V Section 5.3.

We strongly recommend that you contact the authority having jurisdiction in the area(s) where the elevator will be installed. Become familiar with all requirements governing the installation and use of elevators in private residences. It is extremely important for you to know and adhere to all regulations concerning installation and use of elevators.

Important Notice:

This planning guide provides nominal dimensions and specifications useful for INITIAL planning of an elevator project. BEFORE beginning actual construction, be sure to receive application drawings customized with specifications and dimensions for your specific project. Call 1-800-790-1635 to find a dealer in your area or visit our website at www.ameriglide.com and click on “Request a Quote”

Elevator configurations and dimensions are in accordance with our interpretation of the standards set forth by ASME A17.1 Part V Section 5.3. Please consult Ameriglide Accessibility Solutions or an authorized dealer in your area for more specific information pertaining to your project, including any deviation between referenced standards and those of any local codes or laws. Always contact local code authorities for any variation to standards.

Please note all dimensions and specifications contained herein are nominal and should only be used in the early planning stages. Construction of the actual hoistway and related Victorian Elevator requirements should be based off job-specific application drawings.

This elevator requires 240 VAC, single phase 60 Hz circuit with ground and separate 115 VAC, single phase 60 Hz circuit with ground fused 15 amp for light circuits.

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Technical Specifications

General Specifications	
Drive Type	Winding Drum
Rated Capacity	950 / 1,000 lbs
Travel Speed	40 fpm
Maximum Travel	40'-0"
Maximum Landings	4
Power Requirement	240V | Single Phase | 30 amp / 110V | Single Phase | 15 amp
Minimum Pit Requirement	9"
Minimum Overhead Requirement	101"
Buffer Springs	Optional upgrade
Float Switch	Optional Upgrade

Design Specifications	
Cabin Height	84"
Cabin Doors	Manual or Automatic Gate
Landing Doors	Landing doors by others, interlocks provided
Standard Cabin Sizes	36" x 36" | 36" x 48" | 36" x 60"
Cabin Finish Options	White Chocolate | Nutmeg | Dark Chocolate | Urban Vibe | Unfinished MDF
Gate Finish Options	White Acrylic | Clear Acrylic
Ceiling Finish Options	White | Match Cab
Cabin Lighting	2 Led pot lights | 4 Led pot lights [optional upgrade]

Fixture Specifications	
Car Operating Panel (COP)	Illuminated pushbuttons with digital position indicator (DPI)
Phone	Cabinet with standard phone, optional VOIP Adapter
Call Stations	Illuminated pushbuttons with digital position indicator (DPI)

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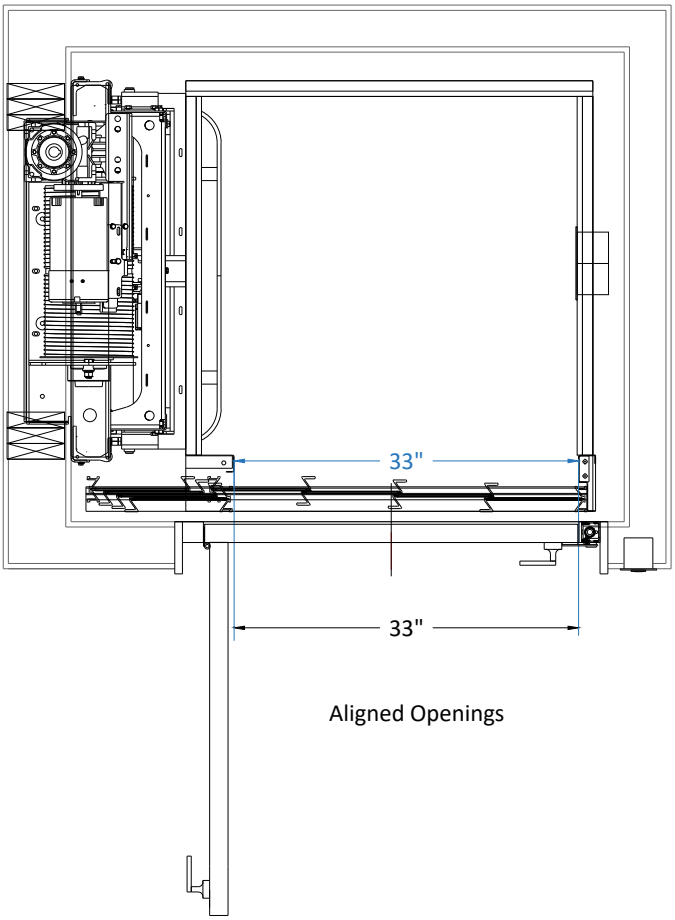
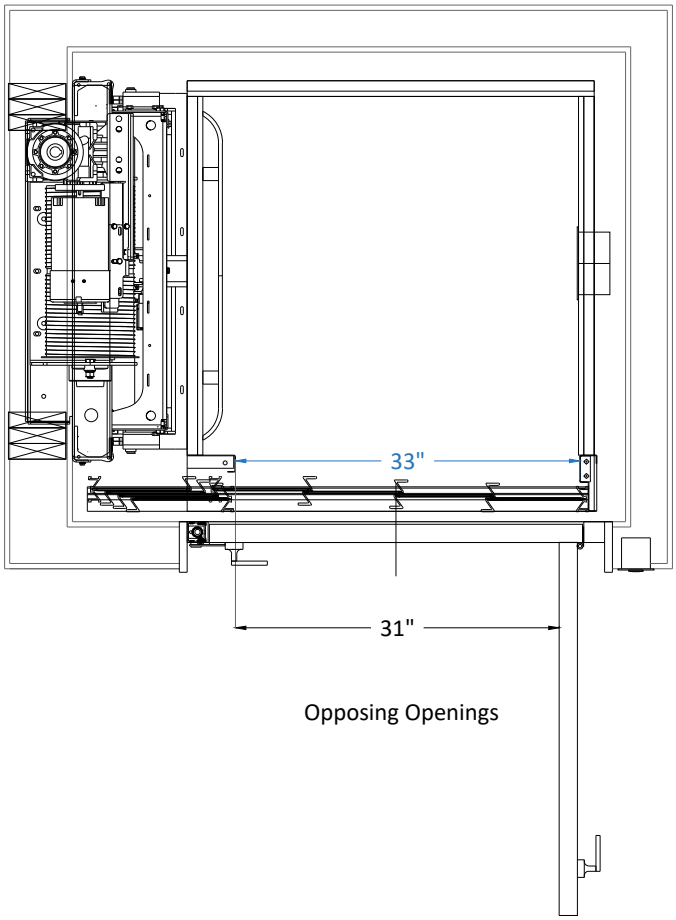
Landing Door Requirements

Landing door swing directions



Aligned Openings



Opposing Openings

The sliding gate on all cabin configurations is designed to recess towards the rail wall. This efficiently utilizes the hoistway space, minimizing the total area required. Since the gate collapses in the direction of the rail wall, the opening will be on the opposing side of the rail wall. It is the manufacturer's recommendation to align the opening of the landing door with the opening of the cabin gate. This allows for the maximum gate opening width. A good rule of thumb is to align the hinges of the landing door to be on the same side as the rail wall.

If opposing door swings are required, consult the factory for alternate door centerlines.

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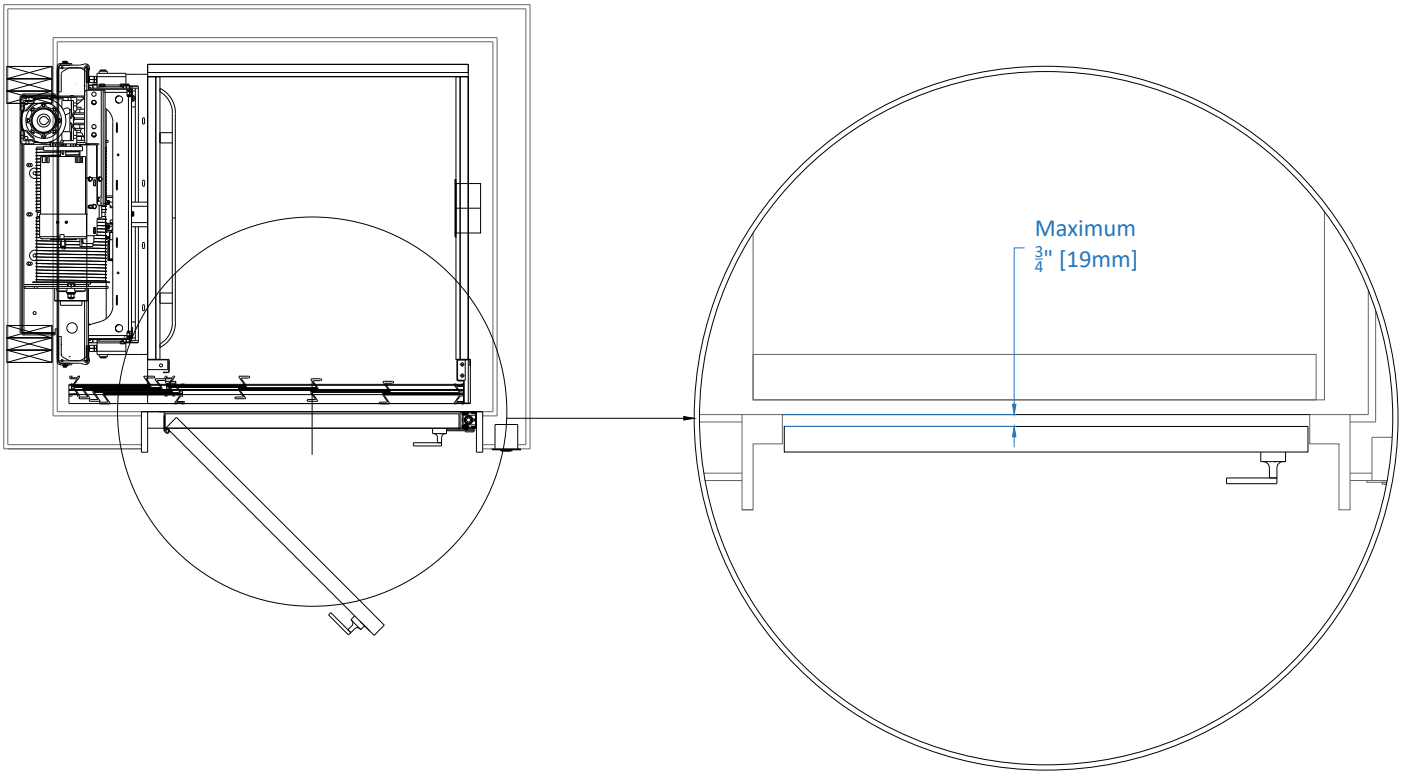
Landing Door Requirements

Clearance Between Hoistway Doors and Landing Sills



The Victorian Residential Elevator is designed to meet or exceed the standards established by ASME A17.1 / CSA B44. In jurisdictions following versions of ASME A17.1 / CSA B44 2016 or newer, the maximum allowable clearance between the hoistway doors and the landing sill is ¾". In order to comply with this requirement, flush mounting landing doors must be installed.

In jurisdictions following versions of ASME A17.1 / CSA B44 2013 or older, it is still the manufacturer's recommendation that hoistway landing doors be installed in compliance with these standards.

It is the homeowner's / contractors responsibility to ensure these standards are followed.

ASME A17.1 / CSA B44 5.3.1.8.2 [2016 and newer]
The distance between the face of the hoistway doors and hoistway edge of the landing sill shall not exceed 19 mm [0.75 in.]

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Machine Room Requirements

MACHINE ROOM/SPACE LIGHTING AND SERVICE RECEPTACLE

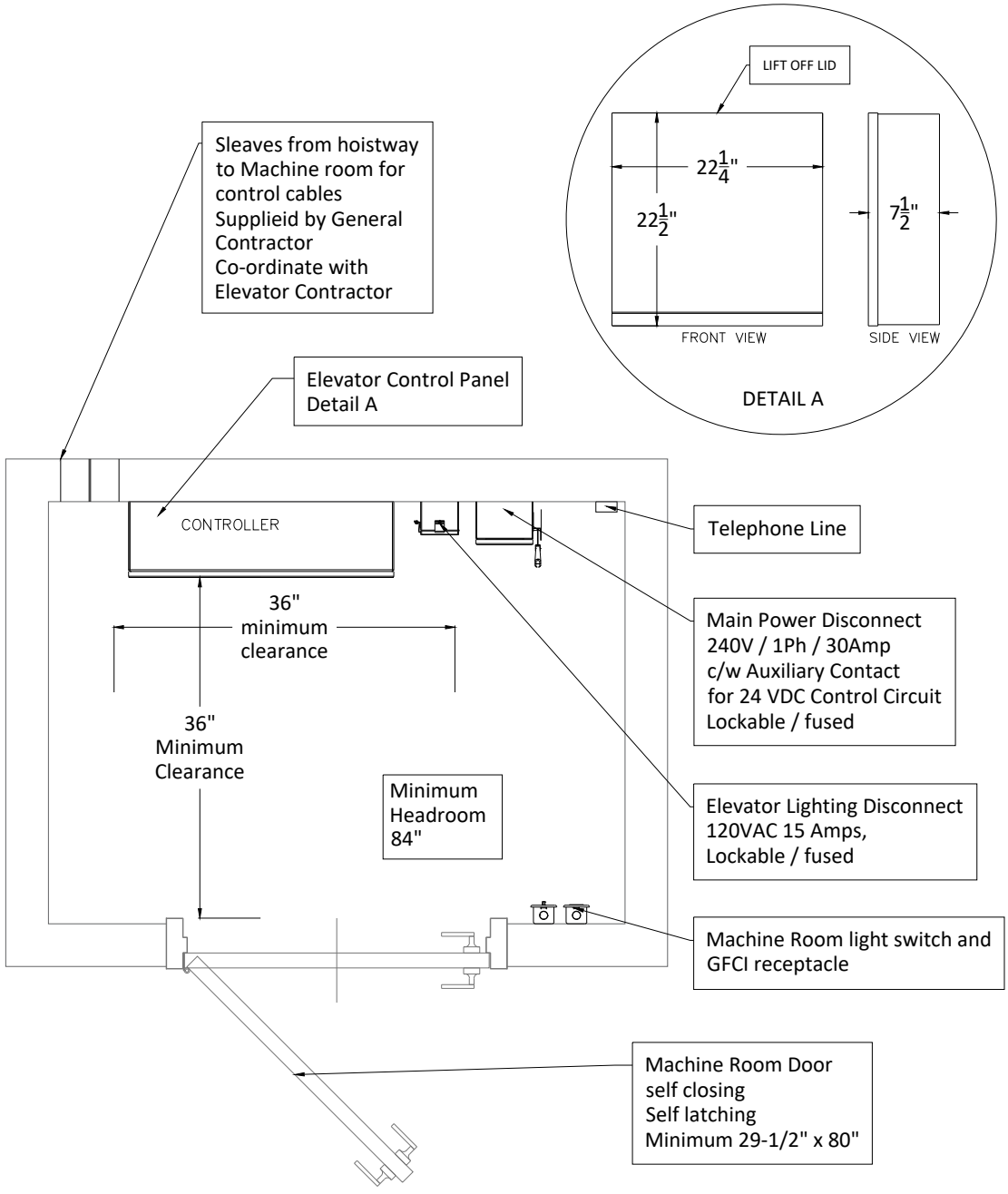
Provide a 120 vac gfci duplex receptacle at the machine location. Provide adequate lighting in the machine space with a switch located within easy reach of the point of entry. Power to be supplied from distribution panel as an independent branch circuit. Provide a telephone line to the machine room and connected to the elevator controller.

LIGHTING SUPPLY DISCONNECT

15 amp fused lockable disconnect switch for 120-1-60 power supply. Power to be supplied from distribution panel as an independent branch switch circuit. Switch to be fused at 15 amp.

MAIN DISCONNECT

Fused lockable disconnect switch for main power supply provided with neutral. switch must also be provided with an auxiliary contact designed to open when the disconnect switch is opened.



Clearances and machine room door requirements vary by region. The clearances shown are a general recommendation only. Consult local building codes to ensure compliance.

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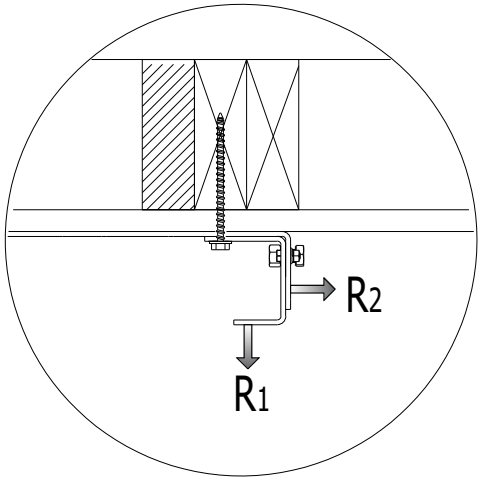
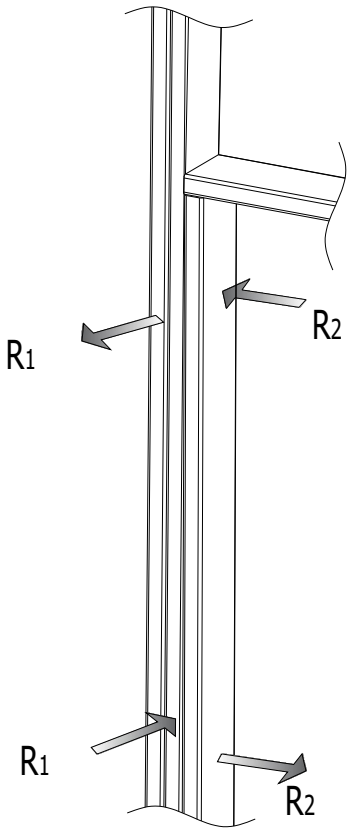
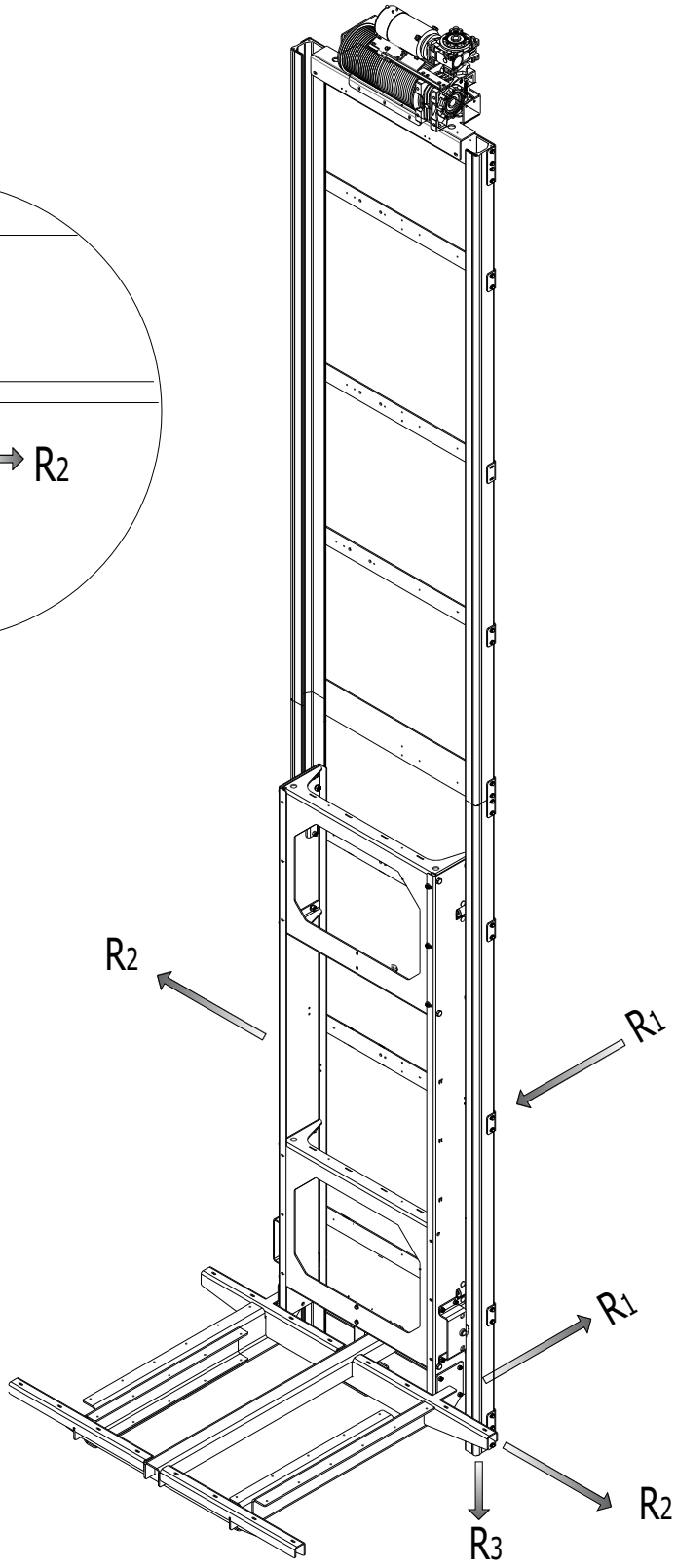
Rail Wall Construction

Reaction Details

LOADS	
R1	255 lbs
R2	590 Lbs
R3	4150 Lbs







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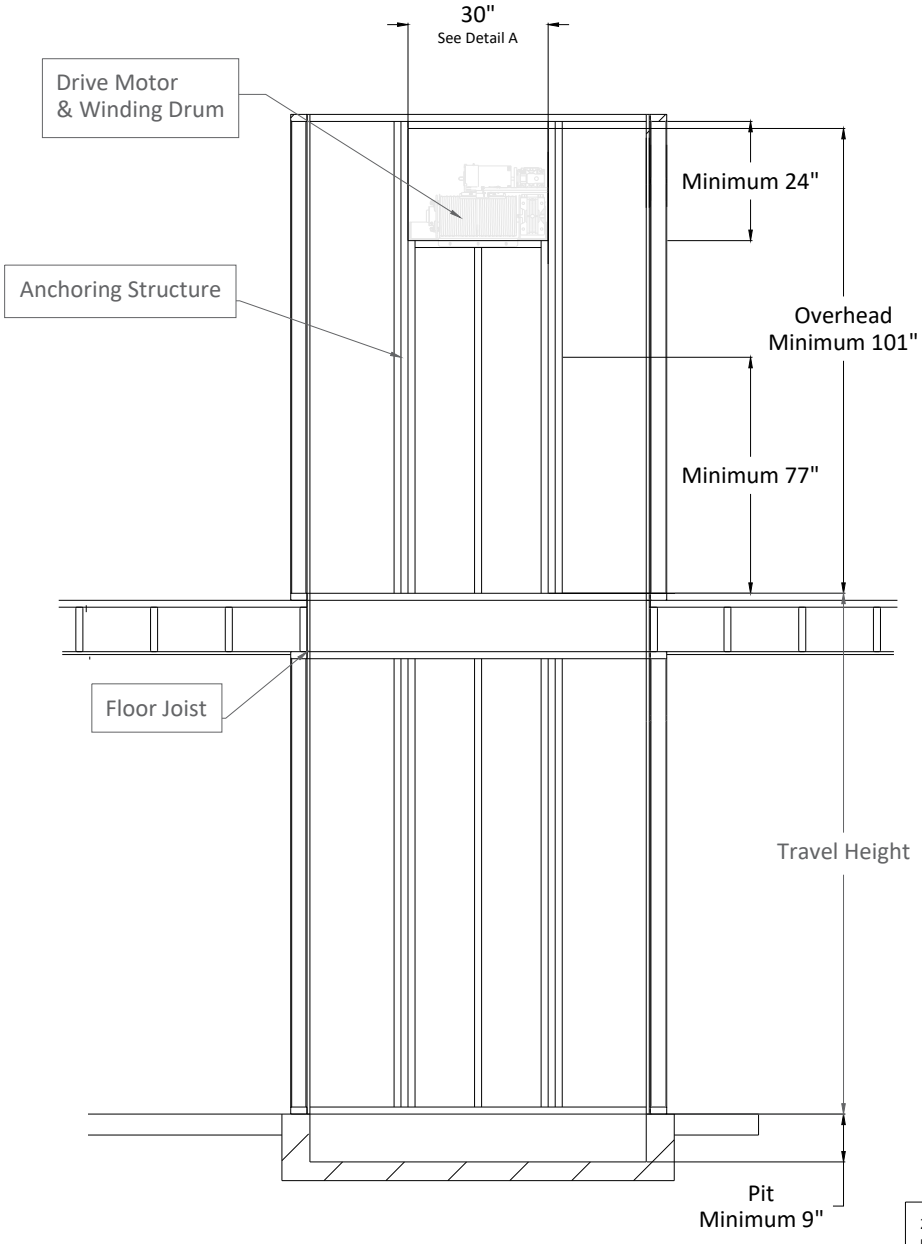
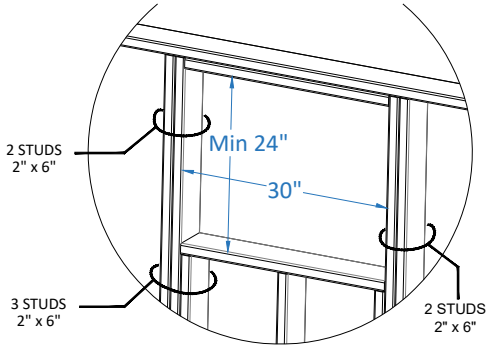
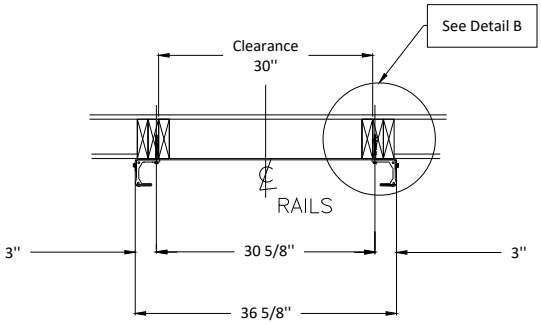
Rail Wall Construction

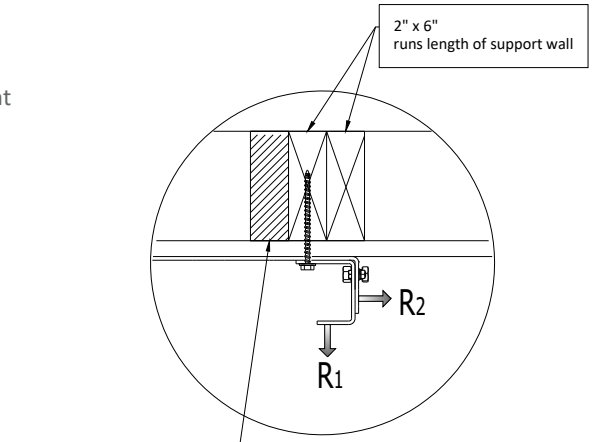
Suggested Rail Wall Construction





DETAIL A





2" x 6" cut at 77" height from upper landing
This supports the base of the motor which protrudes between the anchors on the rail wall.

This wall must support all elevator loads. Customer's engineer / architect to verify wall design / construction.

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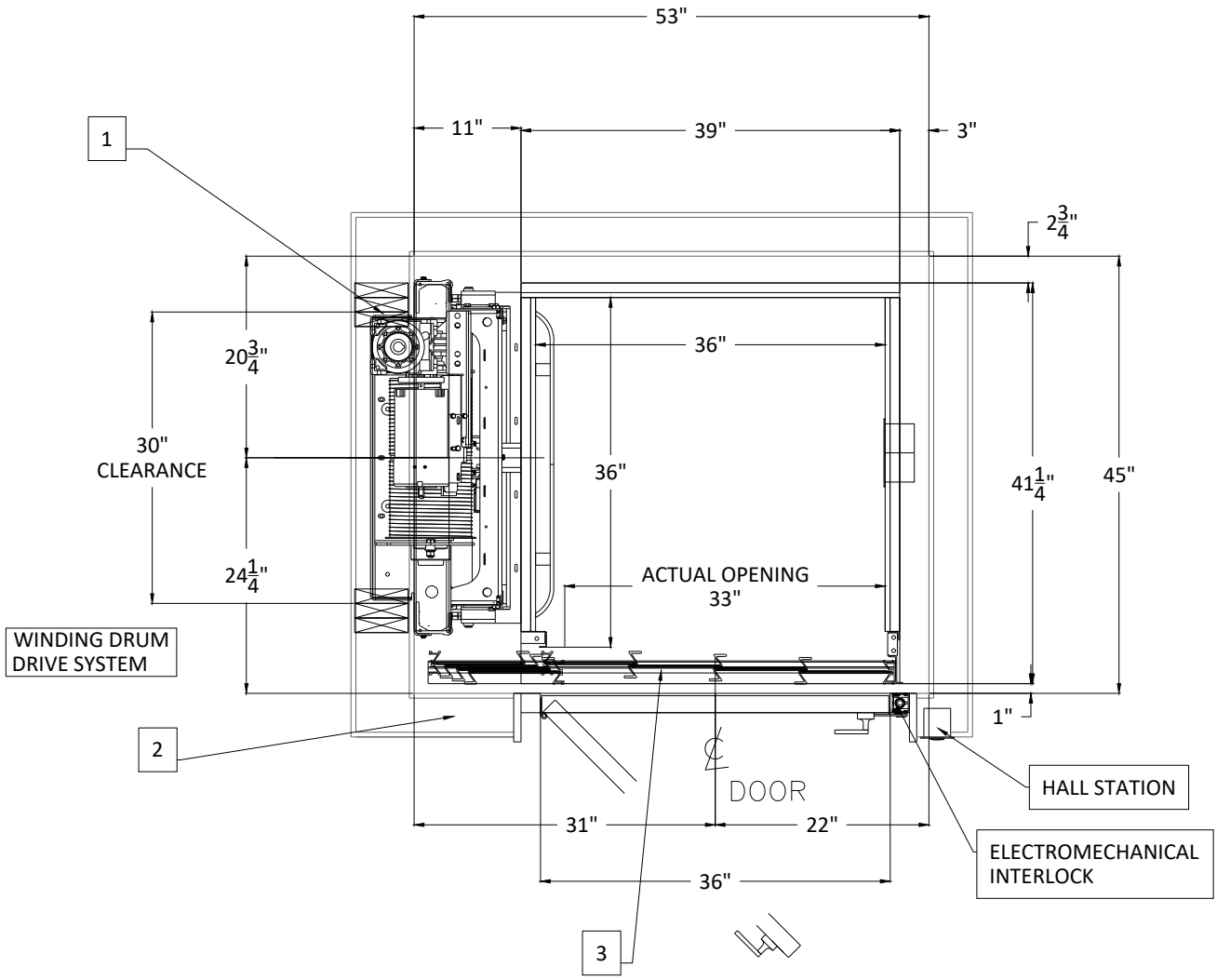
Typical Hoistway Layout

Inline Configuration | 36" x 36" Cabin Size



LEFT HAND RAIL WALL SHOWN, LAYOUT MAY BE MIRRORED FOR RIGHT HAND RAIL WALL. DOOR CENTERLINES FLIP ACCORDINGLY.
DRAWING REFLECTS CLEAR FINISHED HOISTWAY DIMENSIONS.
ALL DIMENSIONS MUST BE SQUARE AND PLUMB TO WITHIN ¼" [5MM]

1. This wall must support all elevator loads. Customer's engineer / architect to verify wall design / construction.
2. 2x4 door wall construction recommended. it is client's responsibility to ensure door clearances comply with all applicable codes and standards.
3. Good gate car gate, 36" W x 84" H, 33" x 83-1/4" actual opening

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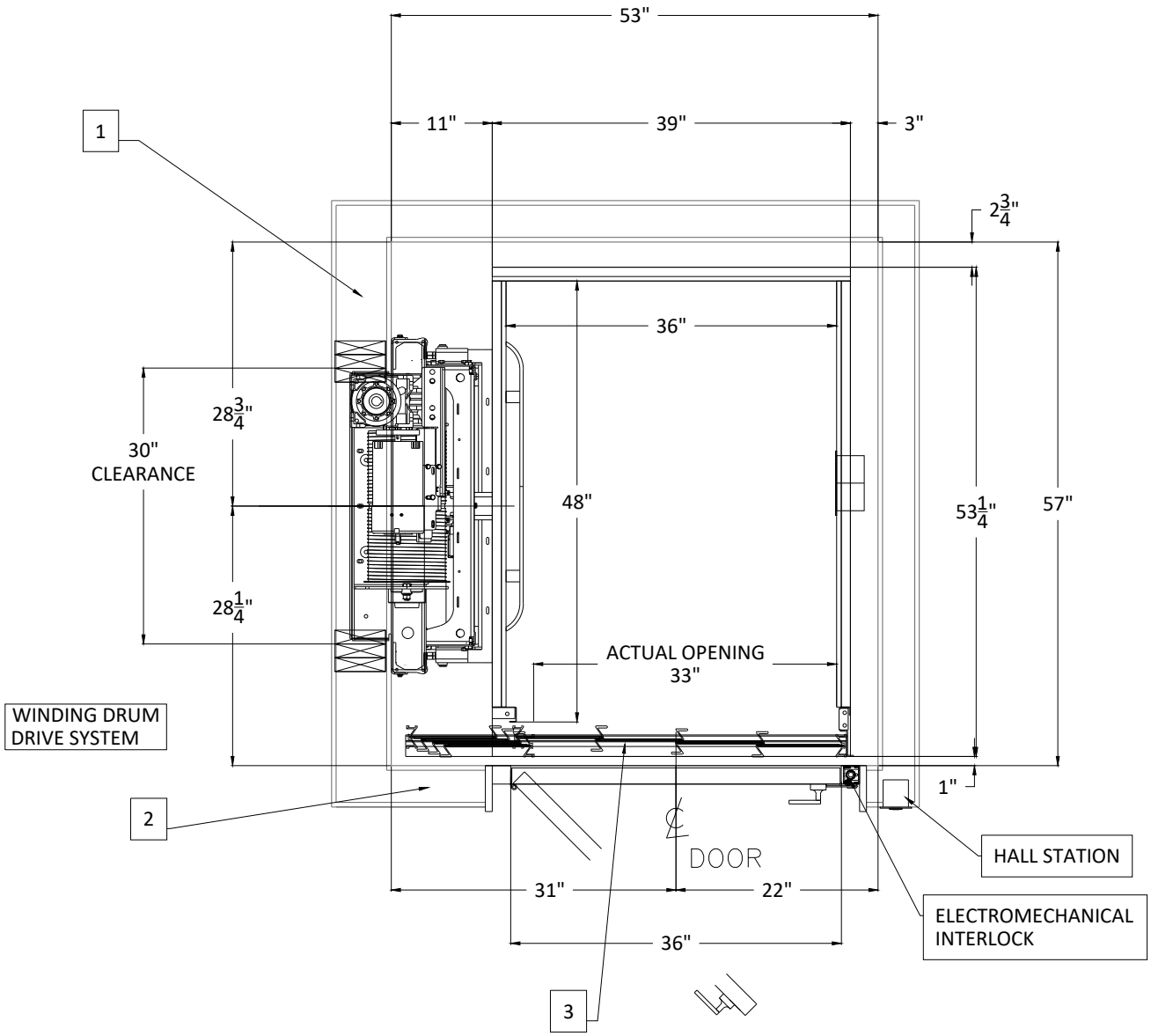
Typical Hoistway Layout

Inline Configuration | 36" x 48" Cabin Size



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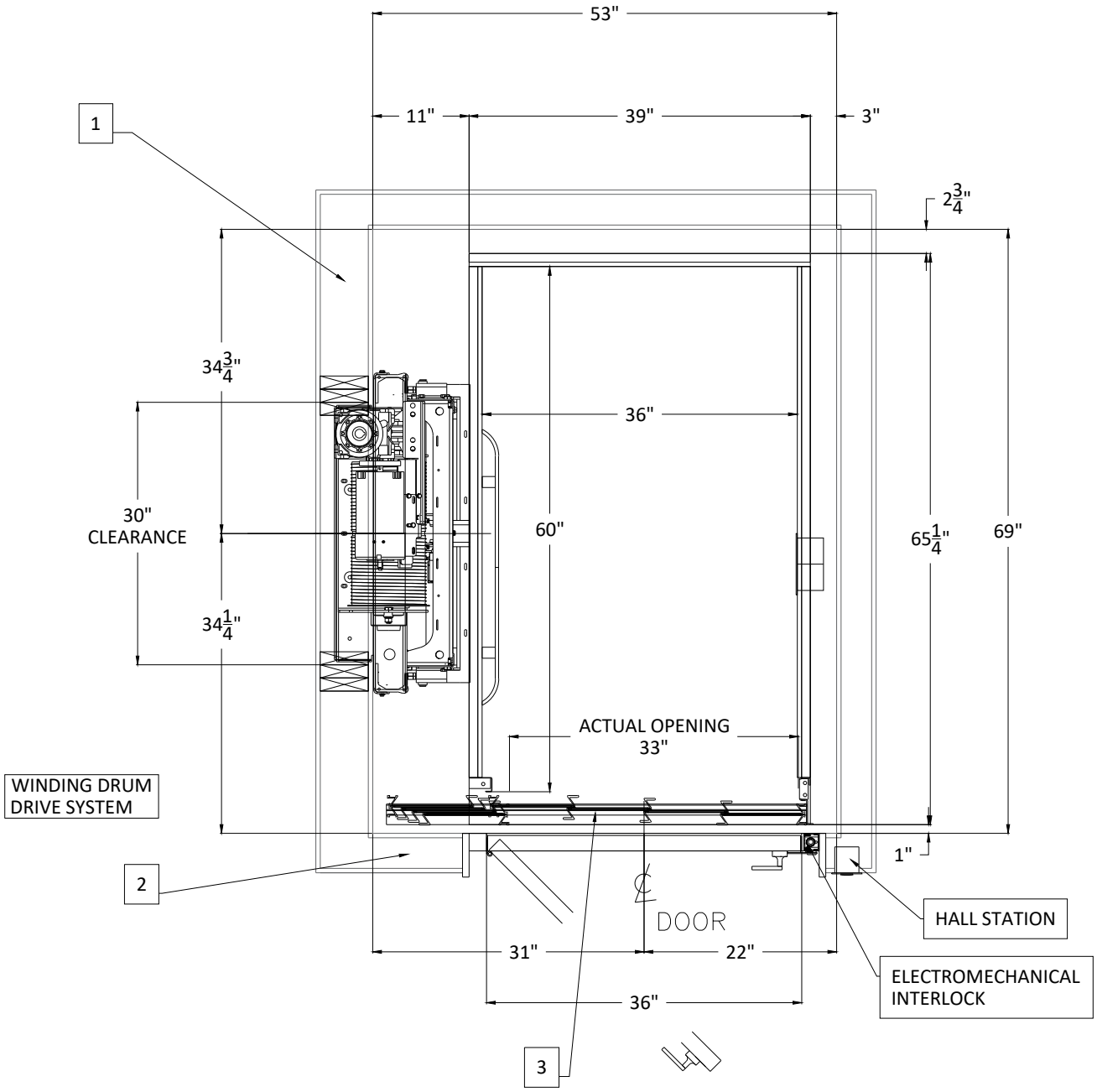
Typical Hoistway Layout

Inline Configuration | 36" x 60" Cabin Size



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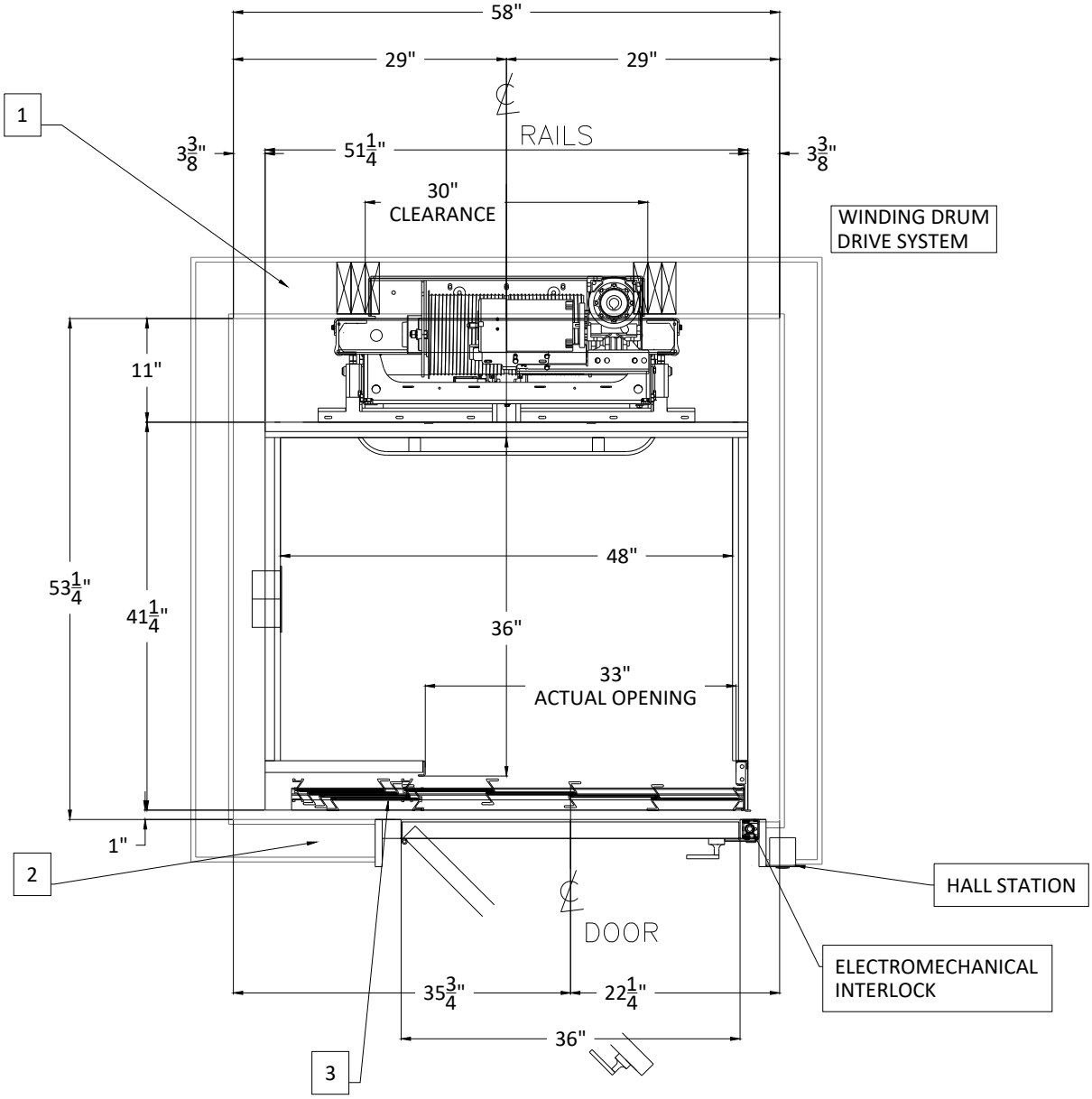
Typical Hoistway Layout

Type-5 Configuration | 36" x 60" Cabin Size



RIGHT HAND GATE SHOWN, LAYOUT MAY BE MIRRORED FOR LEFT HAND GATE. DOOR CENTERLINES FLIP ACCORDINGLY.
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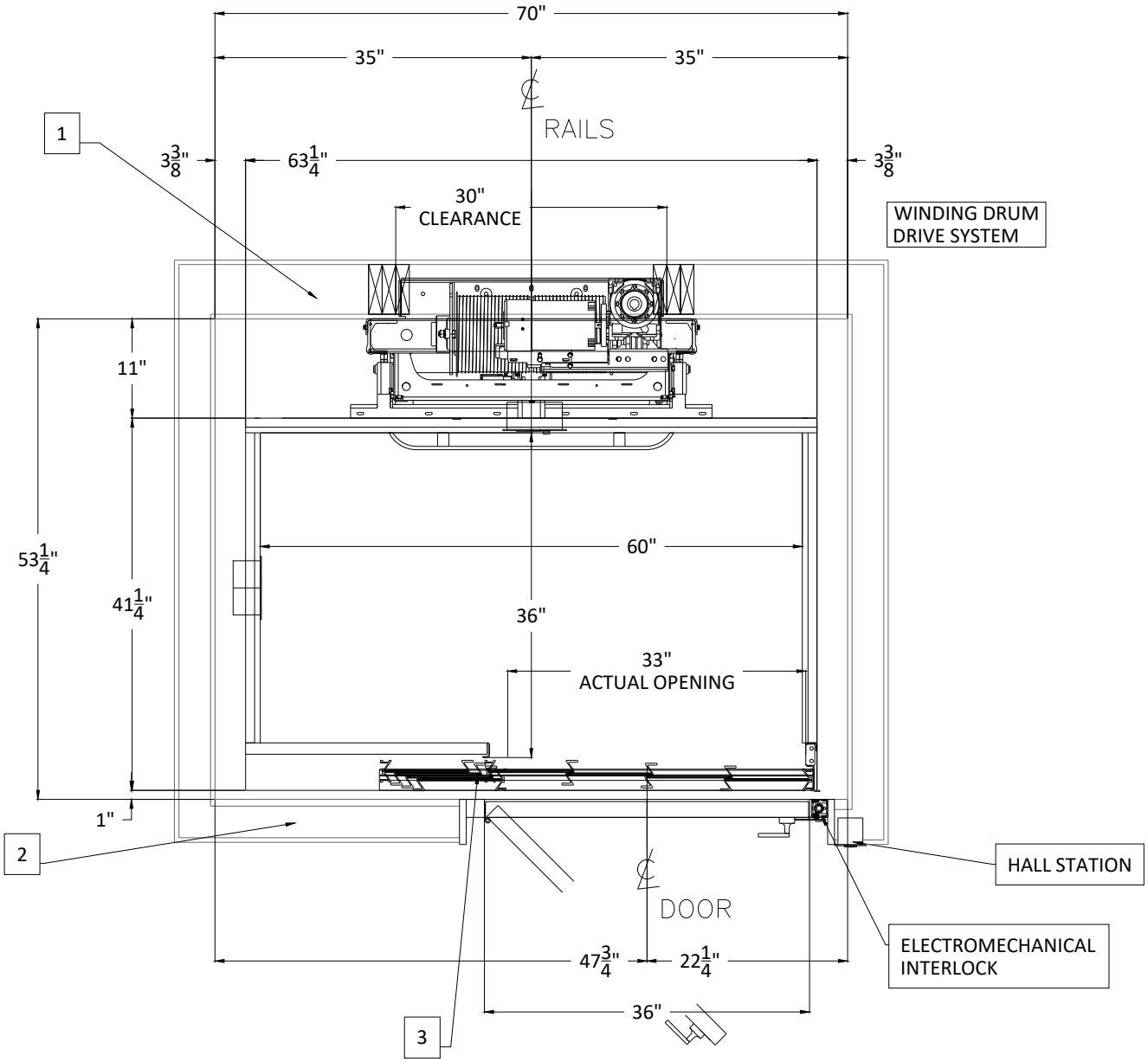

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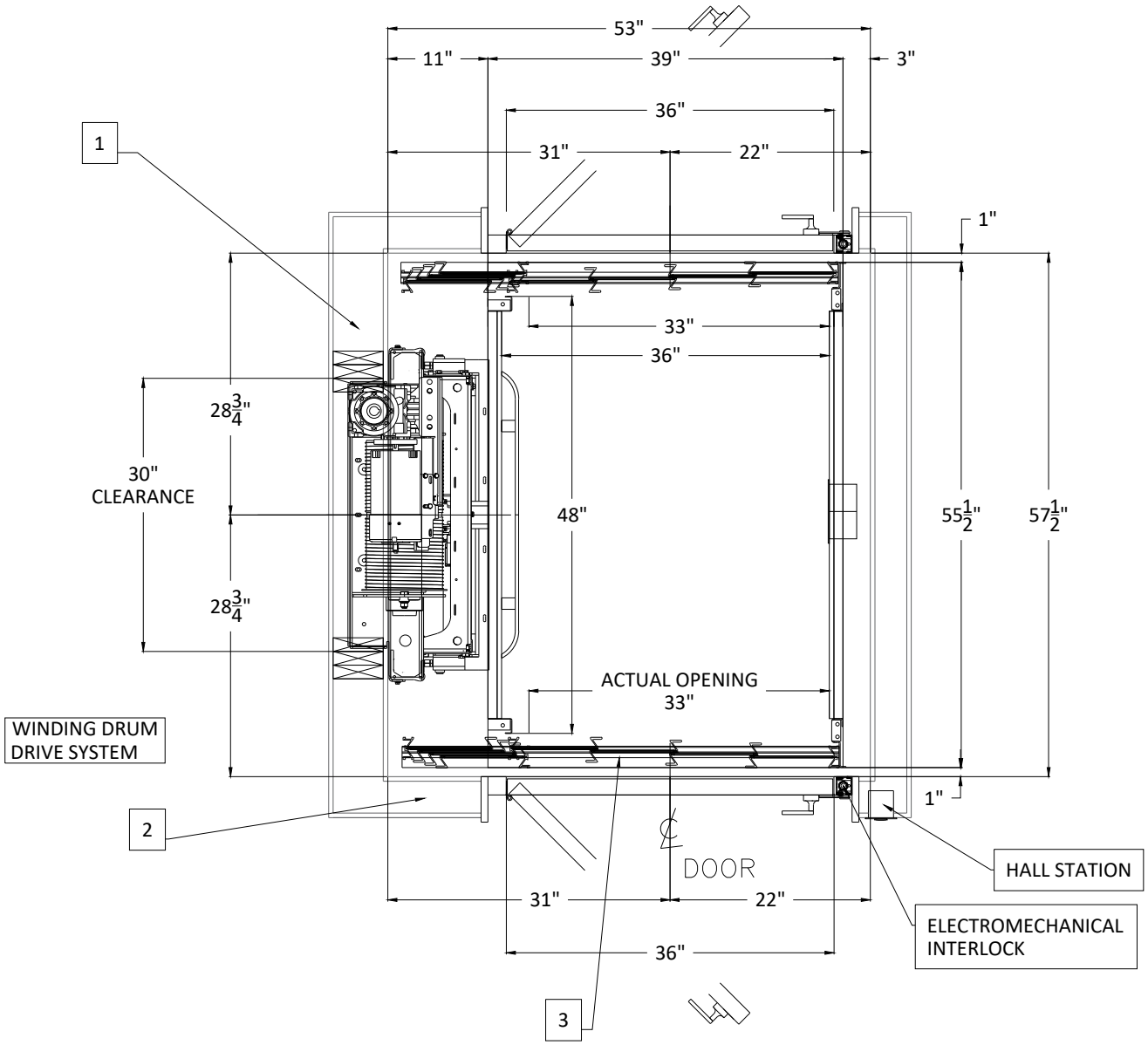
Typical Hoistway Layout

Through Configuration | 36" x 48" Cabin Size



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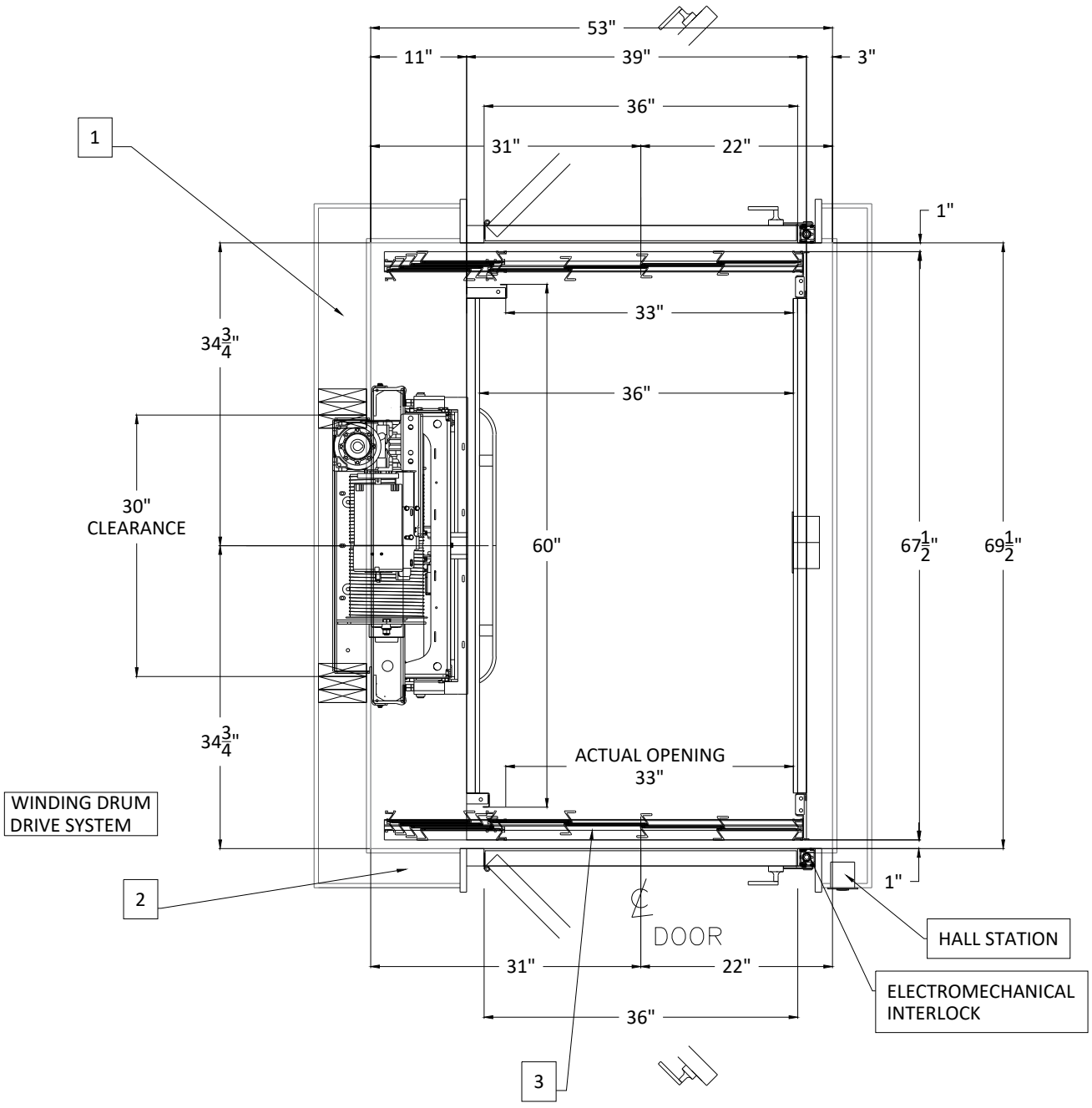

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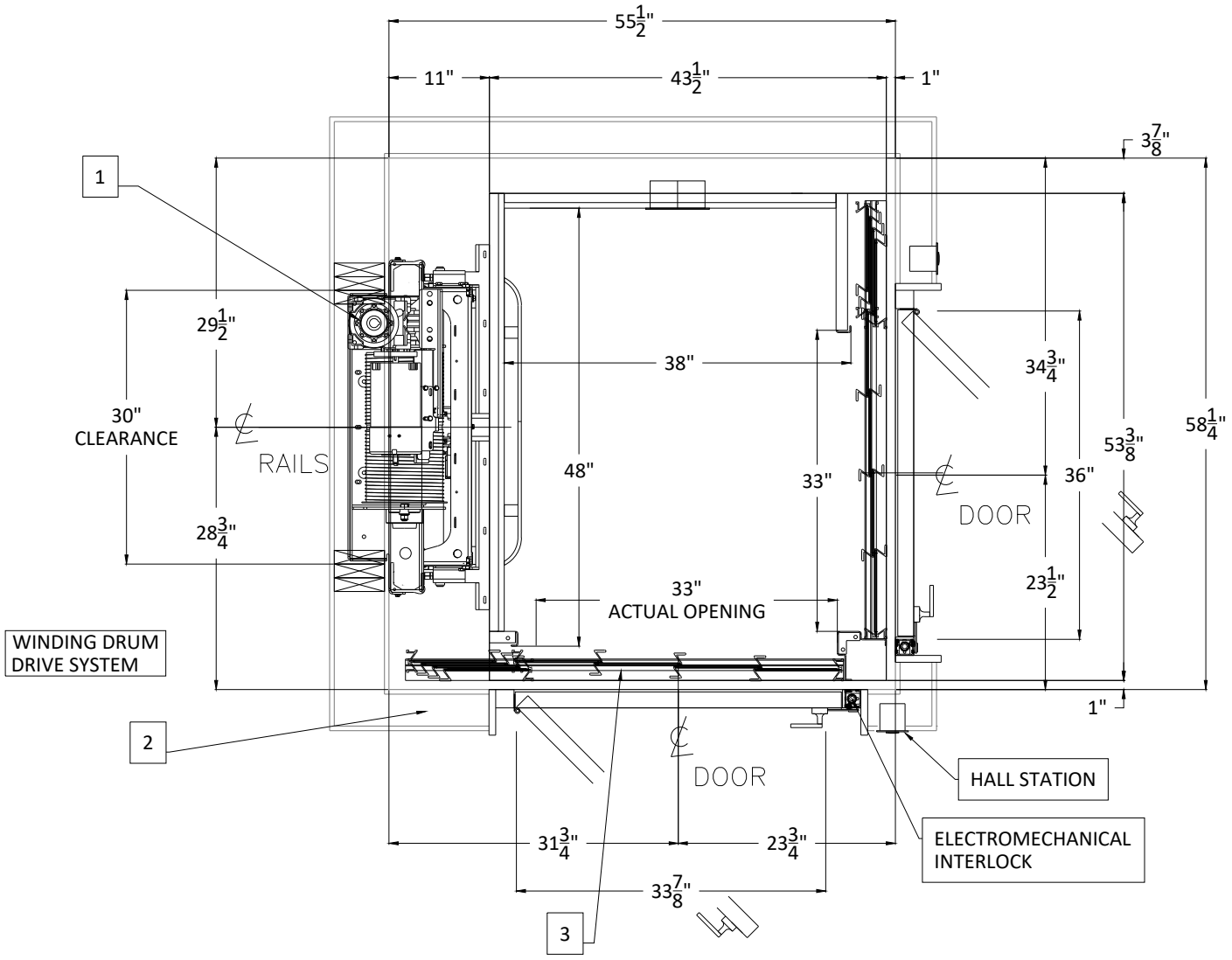
Typical Hoistway Layout

90° Configuration | 38" x 48" Cabin Size



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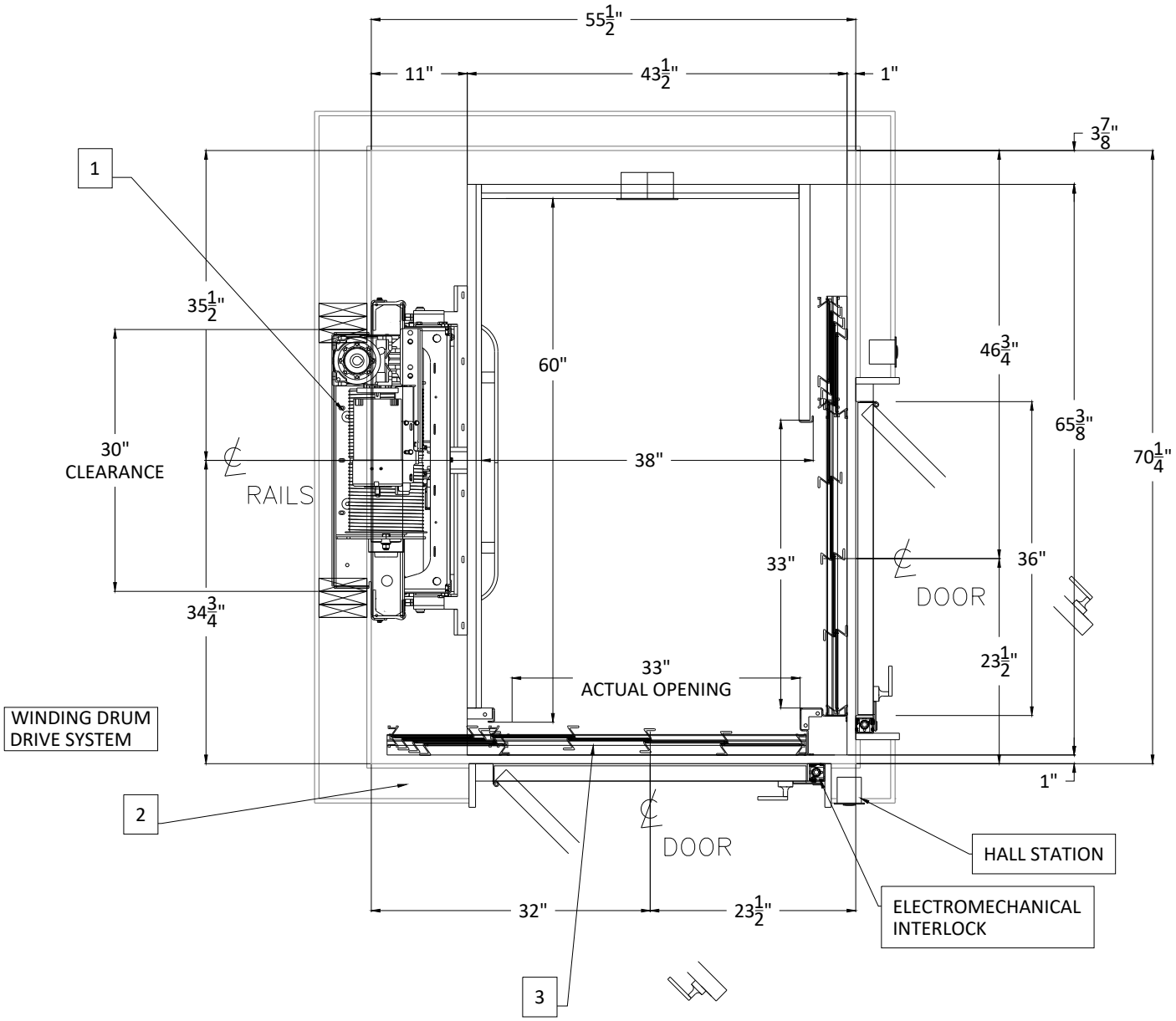

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