WEILAND
INDUSTRIAL DOORS & WINDOWS

VERTICAL LIFT DOOR

INSTALL INSTRUCTIONS

DO NOT DISCARD

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BEFORE YOU INSTALL YOUR DOOR, PLEASE REVIEW THESE BASIC GUIDELINES.

INSTALLATION SHOULD BE PERFORMED BY A PROFESSIONAL OVERHEAD DOOR INSTALLATION COMPANY OR YOUR WARRANTY IS NULL AND VOID. IF YOU ARE NOT A PROFESSIONAL OVERHEAD DOOR INSTALLER, PLEASE DO NOT ATTEMPT TO INSTALL. IMPROPER INSTALLATION CAN RESULT IN SERIOUS INJURY OR DEATH!

1. All doors must be installed on plumb walls. Any walls out of plumb will require that the door frames be shimmed back to plumb. All door frames must be installed plumb and square to insure proper operation and warranty.

2. All headers and side casings should be securely fastened to the wall that they are installed on.

3. Doors mounted on insulated panels should have backup headers and side casings to help strengthen the opening.

4. Doors mounted on very tall panel walls will require support steel to be added to the wall around the door opening. Support steel, if required, is to be supplied and specified by others.

5. Check that the inside of the steel vertical tracks are free of any debris that may impede the travel of the wheel assemblies before operating door.

6. The exterior and interior edges of headers and side casings should be caulked with silicone to prevent any moisture migration behind the components that may cause frost or sweating.

POWER OPERATED VERTICALS

UNDER NO CIRCUMSTANCES SHOULD ANY CHANGES BE MADE TO THE WIRING OF THE OPERATOR OR THE DOOR. IF THERE ARE ANY QUESTIONS, ALWAYS CONTACT WEILAND DOOR. FAILURE TO DO SO WILL VOID THE DOOR'S WARRANTY.

1. Always consult and comply with all local electrical codes. Ensure that the licensed electrician is aware of the voltage and amperage requirements of the door and uses the proper size wire and power supply. All freezer doors should be supplied with an uninterrupted and separate power
supply for the anti-frost heaters.

2. Overhead pull switches which activate the power operator should be positioned far enough away from the door opening to allow the door to be in the full open position before any vehicle arrives at the opening. Doing so will help prevent damage to the door panel.

INSTALLATION PROCEDURE FOR VERTICAL SLIDERS

01 . Check & inspect all crates for damage. The freight company is responsible for any damage. The purchaser should file claims with the freight company immediately.

02. ALL DOORS & DOOR FRAMES MUST BE INSTALLED PLUMB & SQUARE TO ENSURE PROPER OPERATION & WARRANTY VALIDATION. Verify that walls are plumb. Any walls out of plumb will require that the door frames be shimmed back to plumb (see Fig. 1).

03. After it has been established that walls are plumb, the installation of side casings, header & door can begin.

04. Place casings by the door opening parallel to and even with its edge. Ensure that the distance between them is equal to the specified width in (WIC).

05. Use carriage bolts supplied to fasten the casings to the wall. Drill 3/8" diameter holes through the casing, insulated box wall and backup casings (if applicable). Install bolts (minimum of three) and loosely tighten nuts onto through bolts.

06. Lift header assembly above the installed casings (see Fig. 1). Ensure that the distance from the floor to the bottom of the header is approximately equal to the specified height in clear (H IC).

07. Drill 3/8" diameter holes through the header, insulated box wall and backup header (if applicable). Install bolts (minimum of six) and loosely tighten nuts onto through bolts. Note: Carriage bolts should be installed approximately every 30" for both header and casings.

08. Check header and casings for plumb and common plane. If necessary, loosen bolts and add shim(s) as required. Caulk all edges of casings and header that contact box wall and/or floor with silicone sealant. Tighten all bolts.

09. Lift the sheave sprocket assembly (see Fig. 2) above the installed casings (the side with the two sprockets & the extended shaft should be on the same side as the counterweights). Fasten assembly with carriage bolts (supplied).

10. Thread the counterweight chain around sprockets. The longest chain should be attached to the side that is furthest from the counterweights. Run the chain up to the single sprocket & across to the inside sprocket on counterweight side. Run the chain up & over to the outside sprocket on counterweight side. Pull the chains tight & cut same lengths at 24" (measured down from the sheave assembly).

11 . Remove track guide blocks on only one side of door panel and slide door onto track. Position door panel in center of opening, allowing equal distance from each side of the opening. Reattach track guide blocks to other side of panel. Door panel should be approximately 1 3/4" away from casings on either side of opening, allowing the door to just make contact with casings(see Fig. 3 & 4).

12. Attach chains to top of door panel. Adjust length & tension of chains by adjusting the bolts on the top of door.

13. Stand the counterweight enclosure up next to the wall and vertical track. It is critical that this enclosure be installed true & plumb to the vertical travel path of the counterweight.

14. Attach the chains to the vertical weight connectors located on the center mounting section (see Fig. 5).

15. Verify that the door is level. If necessary, adjust the vertical lift hanger bolts {see Fig.6).

16. Fully open the door to ensure that the chains are aligned and that the door operates smoothly. If properly balanced, the door should not move up or down by itself.

17. Fully close the door and check that the door is sealed properly. Do not crush the gaskets on the interior side of the door panel. It is recommended that you have a three inch “rake” on the vertical tracks from the bottom of the door to the top. This will allow for the seals to break free from the casings within a few inches and allow the door to operate smoothly.

18. Attach the counterweight enclosure to a vertical track mounting bracket using the counterweight enclosure attachment strap (see Fig. 4). Ensure that the counterweight enclosure is parallel with the vertical casing so that the counterweights move freely without binding.

Note: To ensure that the required pitch of the track is obtained, the tracks for this door have been preset as close as possible in the factory. It is recommended that you adjust the seal of the door by using the adjustment on the roller brackets. In the unlikely event that you cannot achieve a proper seal by using this method, you may adjust the track, as long as you do not change the pitch. This can be achieved by loosening the bolts on the track brackets. DO NOT REMOVE BOLTS! It is important that the gaskets are not crushed when door is in closed position. In addition as the door opens, it should move away from the casings and not drag.

ELECTRICAL CONNECTION

Always consult and comply with all local electrical codes. Ensure that the licensed electrician is aware of the voltage and amperage requirements of the door and uses the proper size wire and power supply. All freezer doors should be supplied with an uninterrupted and separate power supply for the anti-frost heaters.
Connect door heater to electrical power (freezers) only after box is at its specified operating temperature. For power operated doors, see separate installation instructions.

IMPORTANT SAFETY NOTICE: Servicing any part of the counterbalance system should be performed by qualified overhead door service personnel only.

Operate door only when properly adjusted and free of obstructions. Door is under extreme tension. Repair and adjustments, especially to chains and counterweight assemblies, can be hazardous and should be performed by qualified overhead door service personnel only. Do not permit children to play with door or electric controls. If door is now or later becomes electrically operated, pull down rope must be removed (if so equipped). Avoid standing in open doorway or walkway through doorway while the door is moving. Should the door become hard to operate or becomes completely inoperative, it is recommended that a qualified overhead door installer be contacted.

POWER OPERATED VERTICALS

UNDER NO CIRCUMSTANCES SHOULD ANY CHANGES BE MADE TO THE WIRING OF THE OPERATOR OR THE DOOR. IF THERE ARE ANY QUESTIONS, ALWAYS CONTACT WEILAND DOOR. FAILURE TO DO SO WILL VOID THE DOOR'S WARRANTY. IT IS HIGHLY RECOMMENDED THAT YOU FAMILIARIZE YOURSELF WITH THE OPERATING INSTRUCTIONS OF THE CONTROLLER & DRIVE UNIT. THESE INSTRUCTIONS ARE ATTACHED TO THE CONTROLLER/DRIVE UNIT.

Always consult and comply with all local electrical codes. Ensure that the licensed electrician is aware of the voltage and amperage requirements of the door and uses the proper size wire and power supply.

DO NOT INSTALL DRIVE CHAIN ON DRIVE UNIT UNTIL YOU HAVE VERIFIED THAT THE DOOR IS BALANCED AND OPERATES PROPERLY AS A MANUAL!

1. Manually open the door to its halfway position

2. Attach the drive chain to the drive unit's sprocket and the drive sprocket on the sheave assembly

3. Ensure that the drive chain is snug

4. Manually lower the door to approximately one foot above the floor

5. At this point, please refer to the operating instructions that are attached to the controller/drive unit. During the self-positioning procedure, it is important that the door starts to travel to the OPEN position first. If the door starts to travel towards the CLOSED position first, disconnect the power to the controller/drive unit and call the factory for technical assistance

Note: Overhead pull switches which activate the power operator should be positioned far enough away from the door opening to allow the door to be in the full open position before any vehicle arrives at the opening. Doing so will help prevent damage to the door panel.

CASING GUIDE (FIG 1.)

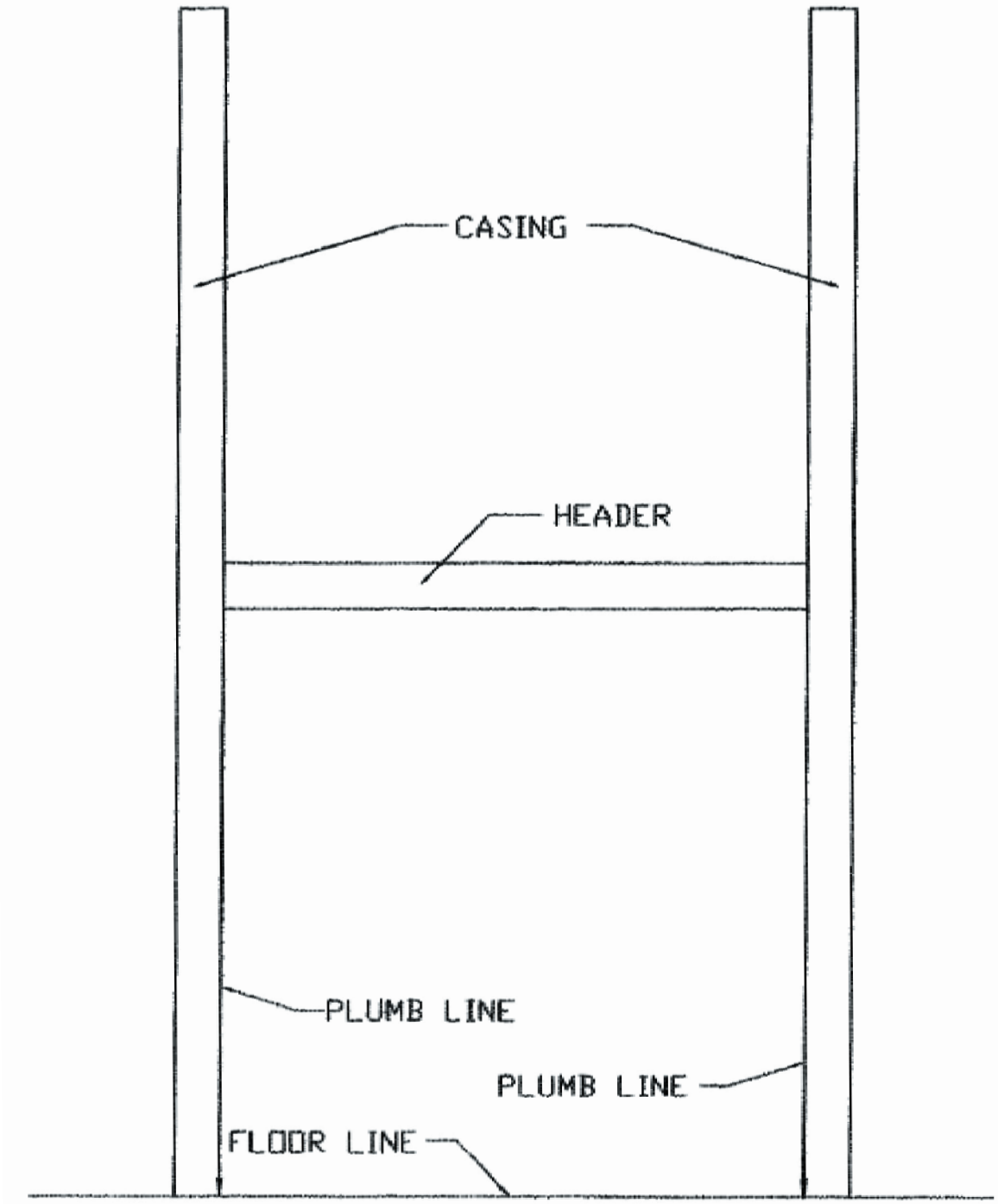

FIG. 1

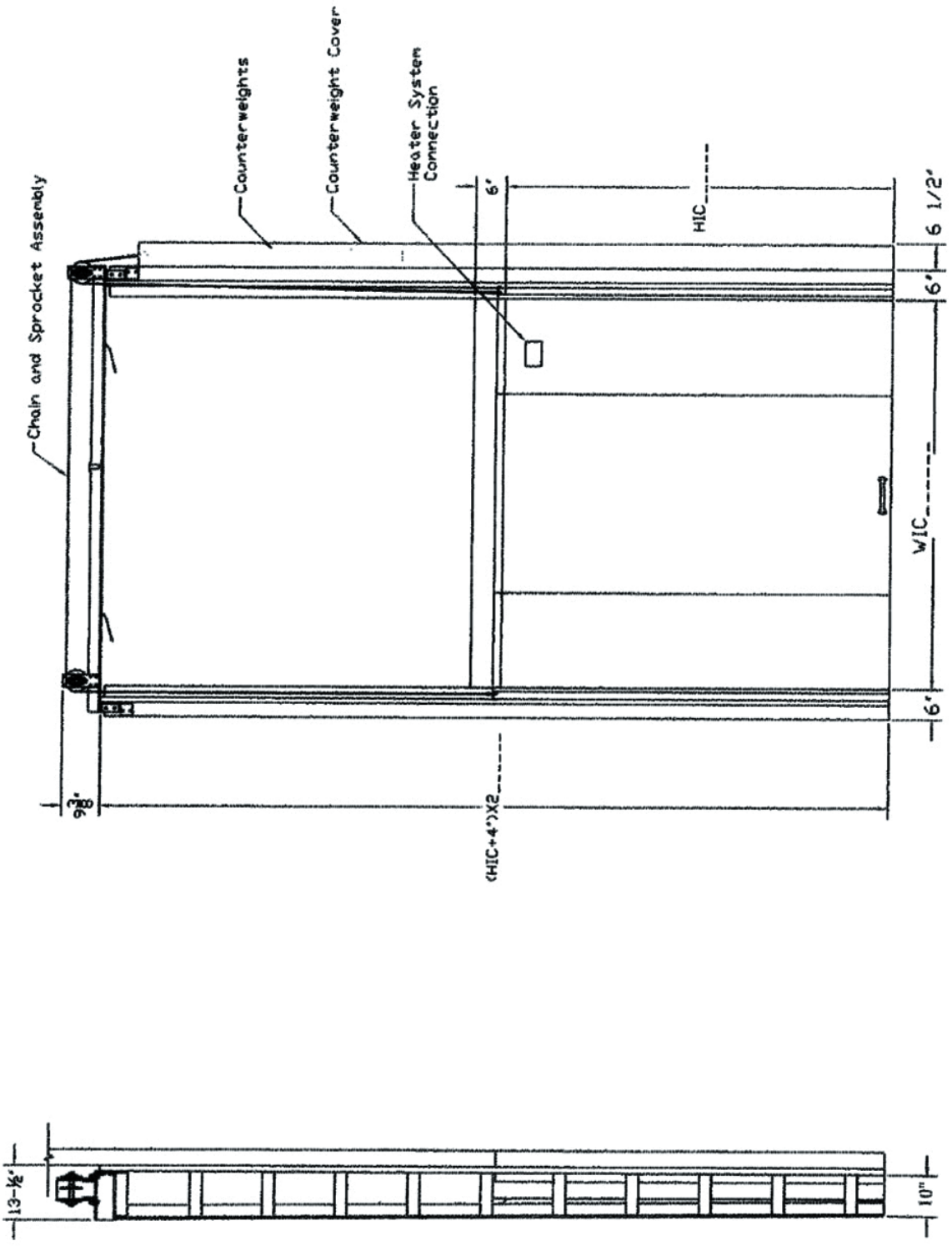

FIG. 2 RIGHT SIDE COUNTERWEIGHT SHOWN

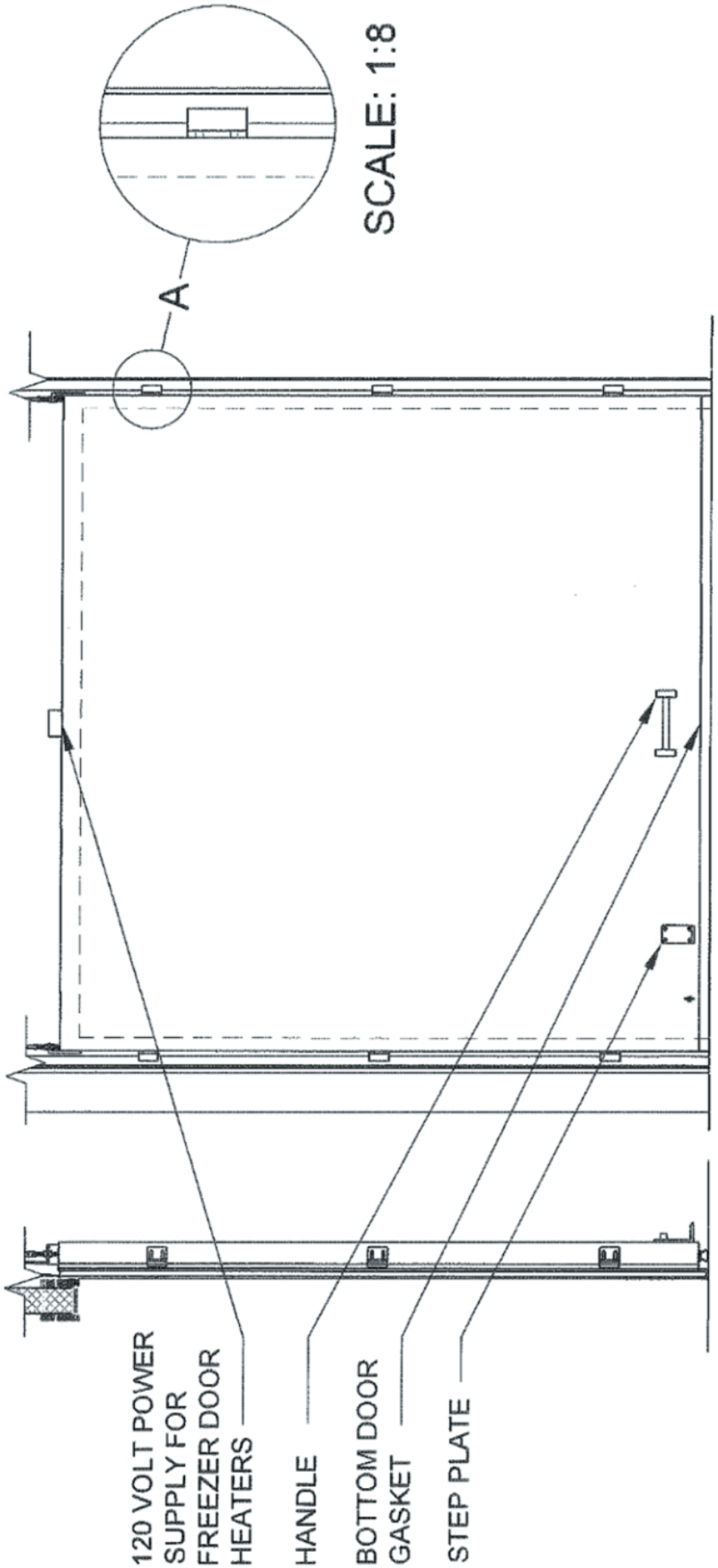
A
SCALE: 1:8
SCALE: ½" = 1'-0"
120 VOLT POWER SUPPLY FOR FREEZER DOOR HEATERS
HANDLE
BOTTOM DOOR GASKET
STEP PLATE

FIG. 3

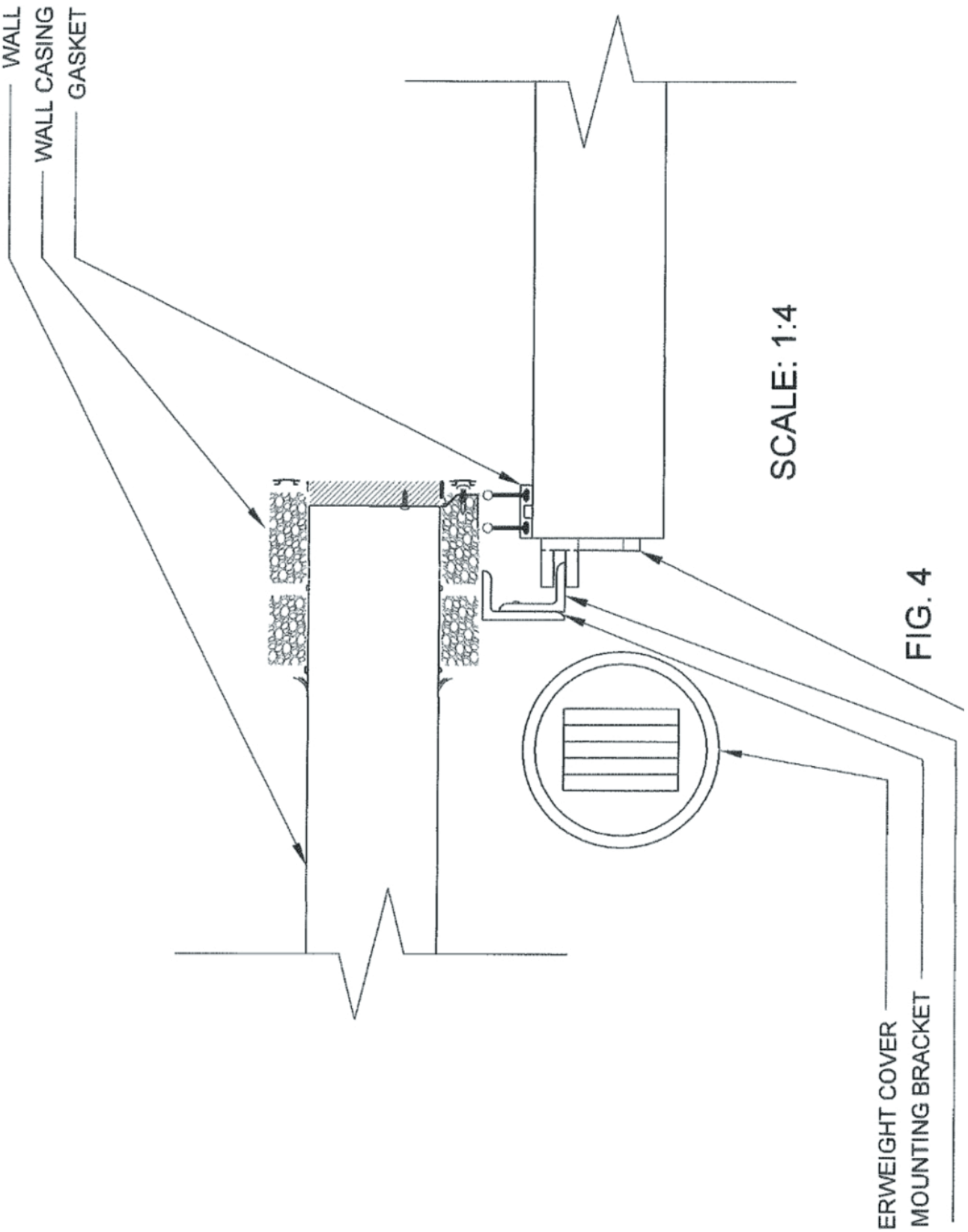
WALL
WALL CASING
GASKET
SCALE: 1:4
ERWEIGHT COVER
MOUNTING BRACKET

FIG. 4

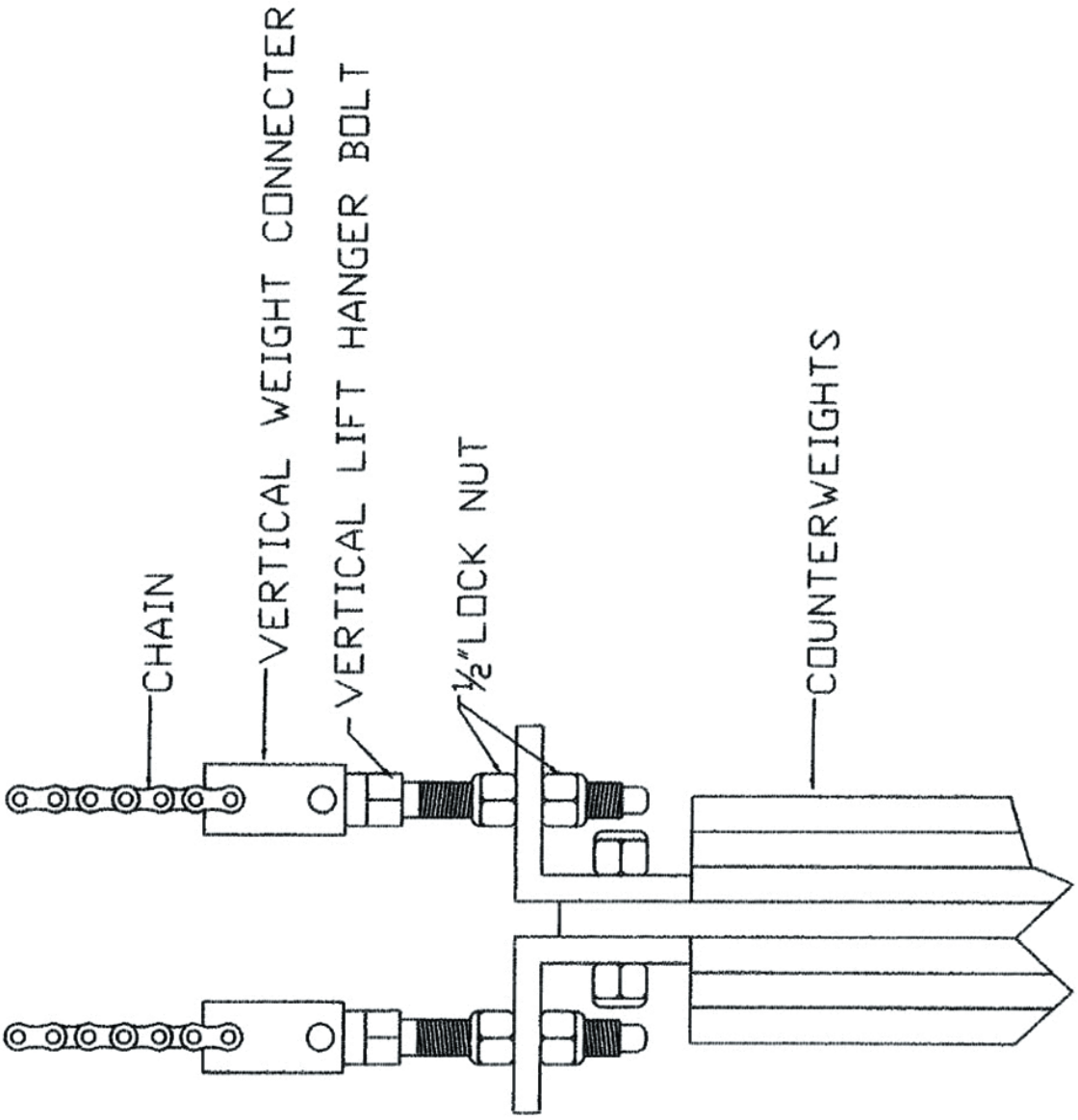
CHAIN
VERTICAL WEIGHT CONNECTER
VERTICAL LIFT HANGER BOLT
½"LOCK NUT
COUNTERWEIGHTS

FIG. 5

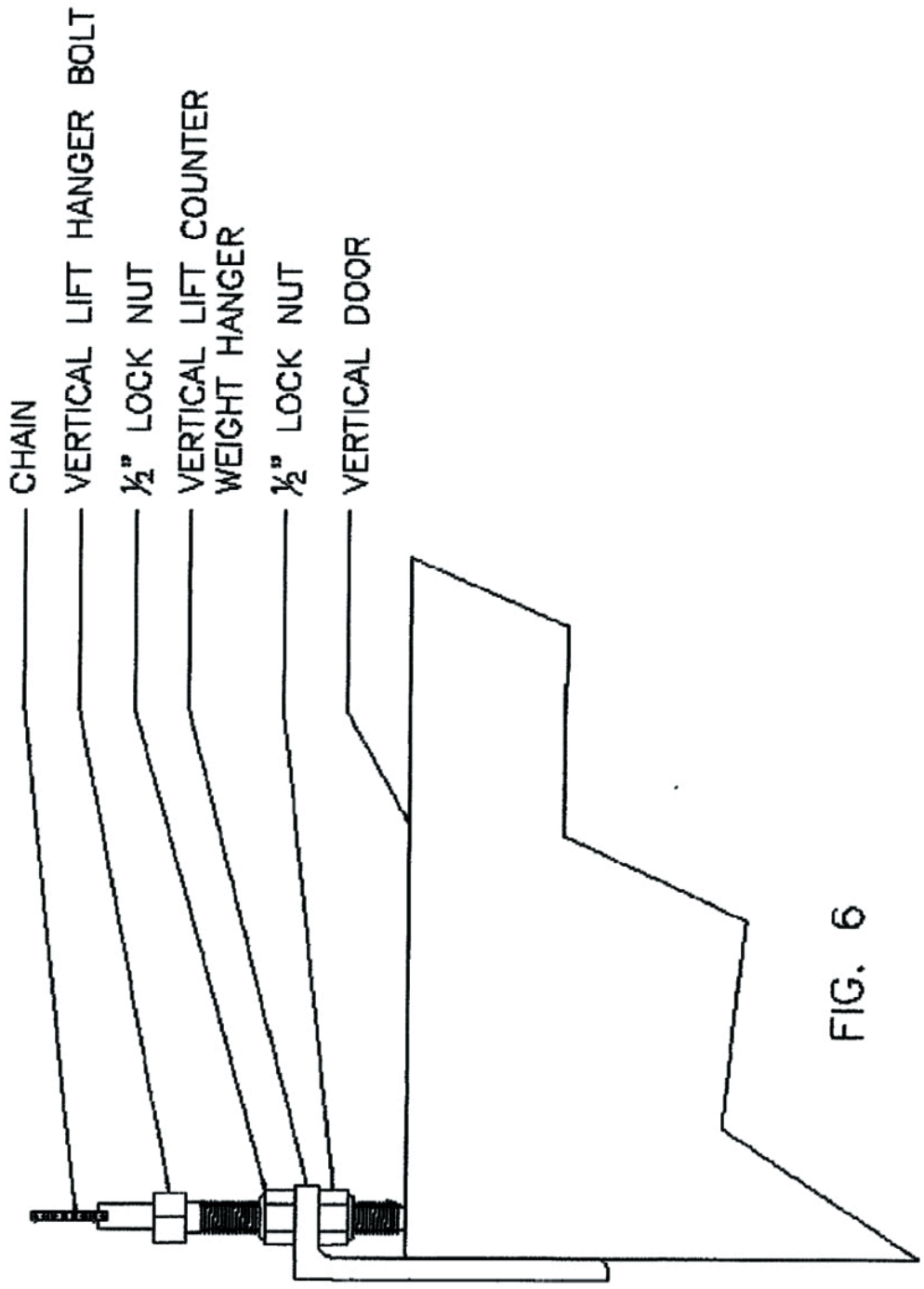
CHAIN
VERTICAL LIFT HANGER BOLT
½" LOCK NUT
VERTICAL LIFT COUNTER WEIGHT HANGER
½" LOCK NUT
VERTICAL DOOR

FIG. 6

HORIZONTAL SLIDER OPERATION AND MAINTENANCE SCHEDULE

Our doors are designed to deliver many years of reliable and trouble-free operation with minimal maintenance, provided they are installed by qualified cold storage door installers according to the installation manual provided with each door. The doors must not be damaged or altered in any way other than specified by a factory-authorized representative. Additionally, periodic checks should be conducted according to the schedule below.

COOLER AND FREEZER DOORS (MANUAL / ELECTRIC)

Daily:
1. Smooth Operation
2. Positive Seal
3. Damage
4. Loose, Damaged or Missing Parts

Weekly:
1. Gaskets for tears, rips or any other damage

Monthly:
1. Wheel Assemblies For Proper Adjustment & Operation

FREEZER DOORS (MANUAL / ELECTRIC)

Daily:
1. Heater for proper operation
(Should have uninterrupted and separate power supply)

ELECTRIC DOORS

Daily:
1. Reversing Edge For Proper Operation
2. Pull Switches For Proper Operation

Monthly:
1. Drive Chain Tension And Lubrication

The frequency of lubrication is determined by the environmental conditions at the door's location. Bearings should be checked every six months of service. Wiping the chain every three months with a cloth lightly dampened with oil will retard corrosion and help keep the chain running smoothly. Door gaskets can be lubricated with spray silicone to allow for smooth contact between the door gaskets and casings. Please make any necessary adjustments to ensure smooth operation and a positive seal as required by the installation instructions provided with each door.
Repair or replace any worn, damaged, or defective parts as soon as they are detected.