

16" - 36" Platforms

Installation Manual

PNEG-1295

Date: 04-12-07

GSI GROUP



PNEG-1295

Use of the Equipment Information page will help you identify your equipment in the case that you need to call your dealer or installer. This information should be filled out and kept on record.

Equipment Information

Model Number:

Serial Number:

Date Purchased:

Dealer / Distributor Name and Phone Number:

Material Handling

1004 East Illinois Street
Assumption, Illinois 62510 USA
Phone: (217) 226-4421
FAX: (888) 741-3004
e-mail: gsi@grainsystems.com

1. INTRODUCTION

READ THIS MANUAL carefully to learn how to properly use and install equipment. Failure to do so could result in personal injury or equipment damage.

INSPECT the shipment immediately upon arrival. The Customer is responsible for ensuring that all quantities are correct. Report any damage or shortages by recording a detailed description on the Bill of Lading to justify the Customer's claim from the Transport Firm. Our responsibility for damage to the equipment ends with acceptance by the delivering carrier. Save all paperwork and documentation furnished with any of the equipment.

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your equipment and should be easily accessible when needed.

WARRANTY is provided as part of the company's support program for customers who use and properly maintain their equipment. The warranty is explained on the warranty page located on the inside back cover of this manual.

This warranty provides you the assurance that the company will back its products where defects appear within the warranty period. In some circumstances, the company also provides field improvements, often without charge to the customer, even if the product is out of warranty. Should the equipment be abused, or modified to change its performance beyond the factory specifications, the warranty will become void and field improvements may be denied.

2. SAFETY

Safety Guidelines

This manual contains information that is important for you, the owner/operator, to know and understand. This information relates to protecting **personal safety** and **preventing equipment problems**. It is the responsibility of the owner/operator to inform anyone operating or working in the area of this equipment of these safety guidelines. To help you recognize this information, we use the symbols that are defined below. Please read the manual and pay attention to these sections. Failure to read this manual and it's safety instructions is a misuse of the equipment and may lead to serious injury or death.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.



NOTE indicates information about the equipment that you should pay special attention to.

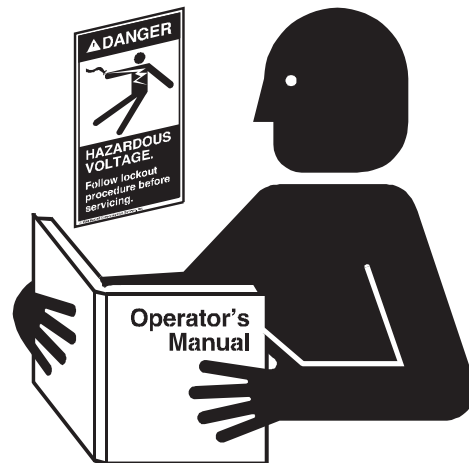
Follow Safety Instructions

Carefully read all safety messages in this manual and on your machine safety signs. Keep signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from the manufacturer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.

Keep your machinery in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life. All service accessories are intended for the proper use in which they were designed. Any misuse of the equipment or accessories will void the warranty. Misuse can cause failure, severe injury or death to the user. The manufacturer cannot be responsible for the erection or use of the bucket elevator and its accessories.

If you do not understand any part of this manual and need assistance, contact your dealer.



Practice Safe Maintenance

Understand service procedures before doing work. Keep area clean and dry.

Never lubricate, service, or adjust machine while it is in operation. Keep hands, feet, and clothing from rotating belt and idlers.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any build up grease, oil, or debris.



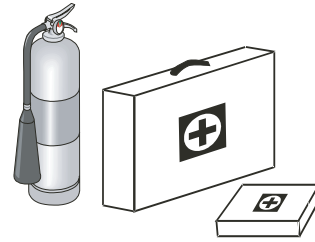
2. SAFETY

Prepare for Emergencies

Be prepared if fire starts.

Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



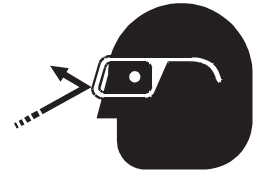
Keep Emergency Equipment Quickly Accessible.

Wear Protective Clothing

Wear close fitting clothing and safety equipment appropriate to the job.

Safety glasses should be worn at all times to protect eyes from debris.

Eye Protection



Wear gloves to protect your hands from sharp edges on plastic or steel parts.

Gloves



Wear steel toe boots to help protect your toes from falling debris.

Steel Toe Boots



A respirator may be needed if a hog house has poor ventilation. Waste fumes can be toxic.

Respirator



Remove all jewelry.

Tuck in any loose or dangling shoe strings.

Long hair should be tied up and back.

Hard Hat

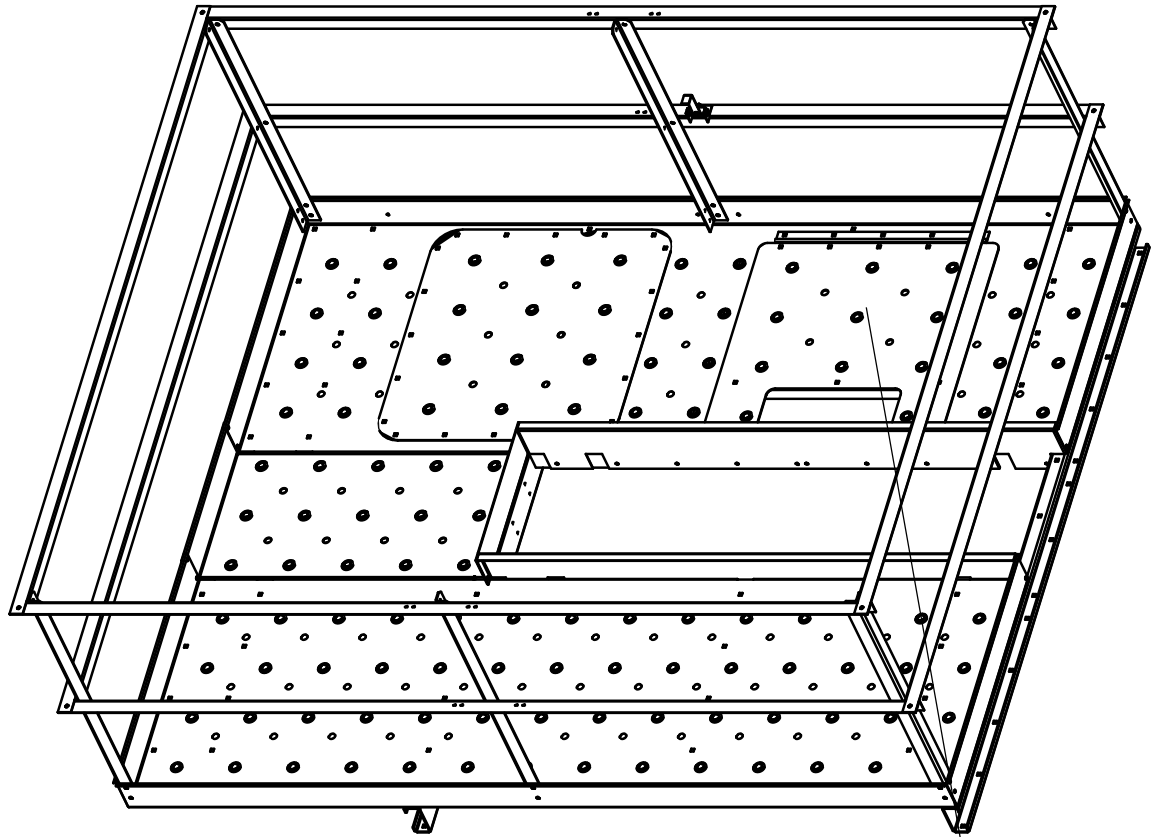
Wear hard hat to help protect your head.



Contents

Chapter 1 Introduction	3
Chapter 2 Safety	4
Safety Guidelines	4
Chapter 3 Decal Location	8
Chapter 4 16"- 24" Platform Assembly	9
Main Support Channels	9
Decking	10
Toeboards	11
Handrail Posts	11
Hatch Door	12
Handrails	13
Chapter 5 36" Platform Assembly	14
Deck Support Channel	14
Decking	15
Toeboards	15
Handrail Posts	16
Hatch Door	17
Handrails	18
Chapter 6 Ladder Assembly	19
Tie Angle Attachment	19
Tie Angle and Cross Braces	20
Ladder Stand Off Bracket	21
Ladder Attachment	22
Safety Cage Hoop Assembly	23
14' Ladder Assembly	24
Safety Cage Vertical Bar Attachment	25
Safety Cage Flare Attachment Painted	26
Chapter 7 Rest Platform Assembly	27
Mounting Channels	27
Cross Channels	28
Rest Platform Deck Plate	29
Platform Corner Post	30
Short and Long Handrail	31
14' Complete Rest Platform Assembly	32
Chapter 8 4 x 5 Distributor Platform	33
Platform Clamps	33
Support Channels & Knee Braces	34
Platform Deck	35
Vertical Posts & Toeboard	36
Handrail	37
Chapter 9 6 x 6 Distributor Platform	38
Platform Clamps	38
Support Channels & Knee Braces	39
Toeboards	40
Platform Decking	41
Handrails	42
Crossbraces for Knee Braces	43
Chapter 10 Warranty	45

3. DECAL LOCATION



Decal located on bottom of platform access door.



4. 16"- 24" PLATFORM ASSEMBLY

Main Support Channels

When laying out the ladder, safety cage, and platforms be sure to always start from the head service platform and work your way down the leg. Keep in mind a rest platform needs to be located at every 30' of vertical descent to comply with O.S.H.A Standards.

Take time now and review all instructions and drawings before attempting to assemble the platforms. Layout all parts for easy identification. Determine if your equipment is left or right hand shaft. The support channels will mount in the same location for right hand or left hand drive setup. The support channels will extend same distance on each side of the head. Start the **head service platform** assembly by attaching two support channels to the head platform clips. Use 3/8" x 1" bolts and whiz nuts (See Figure 4A).

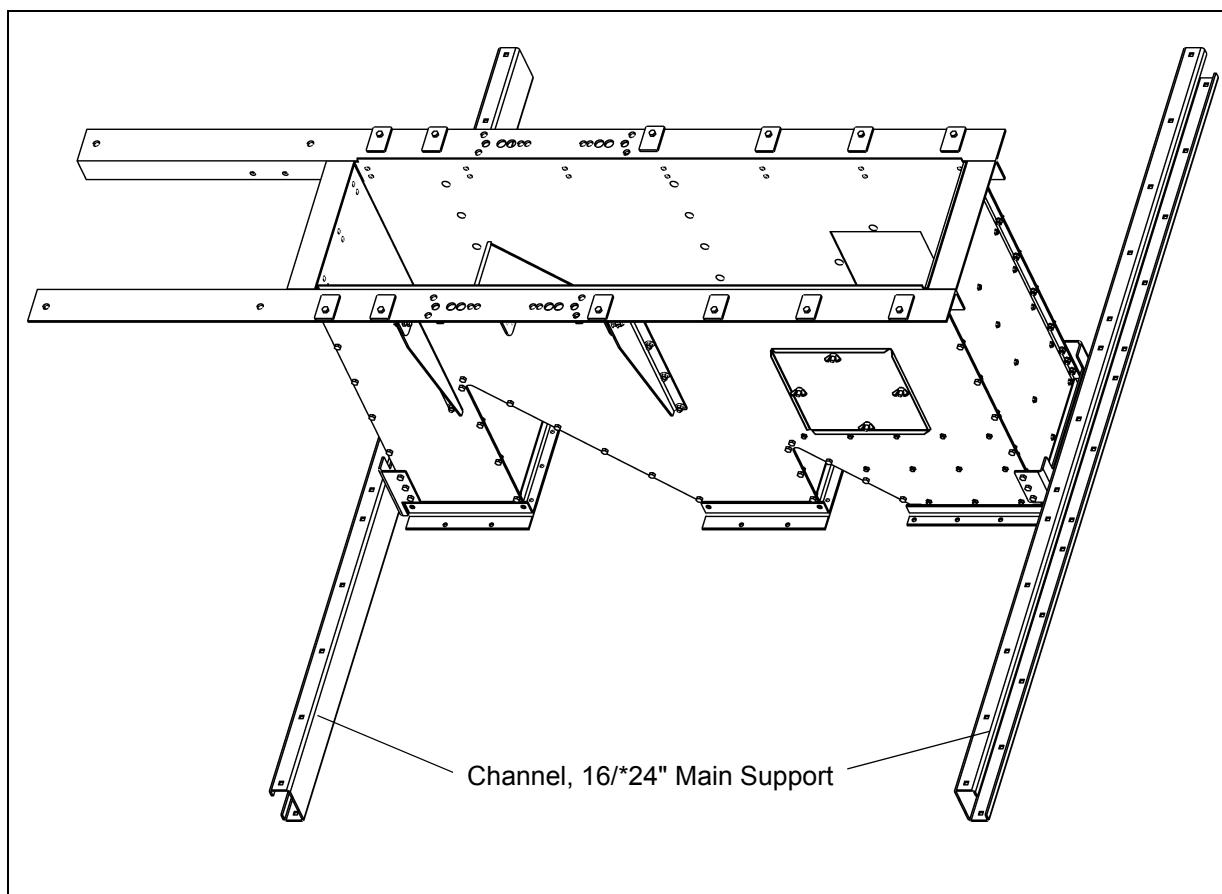


Figure 4A

4. 16" - 24" PLATFORM ASSEMBLY

Decking

The drive deck and hatch deck sections are interchangeable. All shown views are consistent for a right hand drive elevator. If you are assembling a left hand drive elevator the hatch deck would be closest to you and the drive deck farthest in [Figure 4B](#). Place outside floor sections (Drive Attach) on support channels in location shown below and fasten using 3/8" x 1" carriage bolts and whiz nuts. Fasten mid drive deck to the two outside floor sections with 3/8" x 1" bolts and whiz nuts. Make sure not to tighten the hardware until assembly is complete.

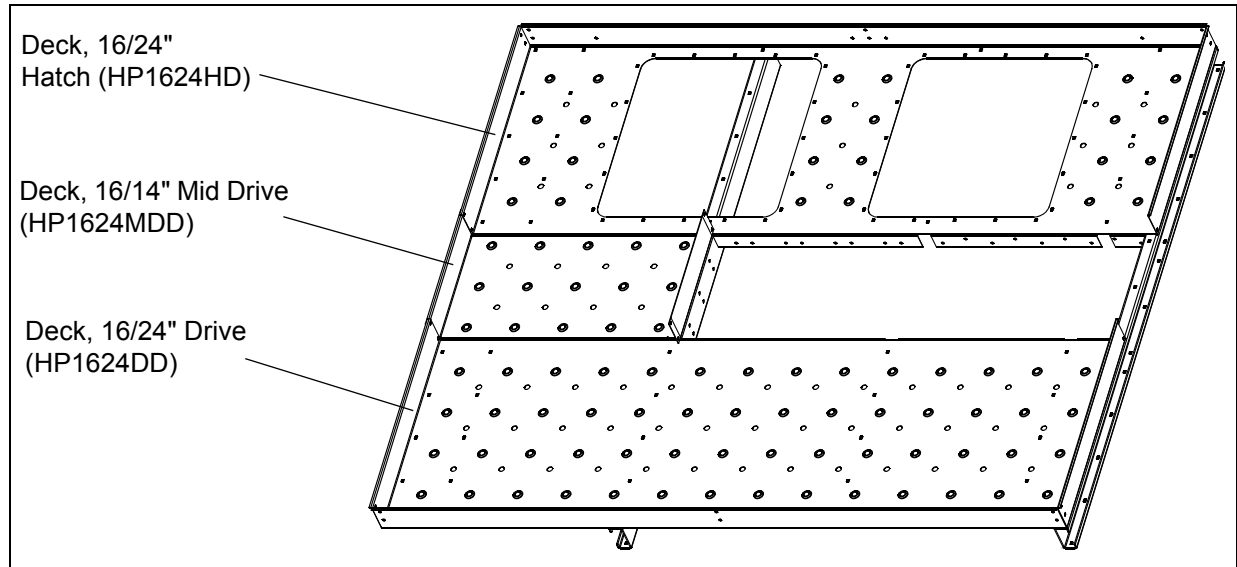


Figure 4B 24" Platform

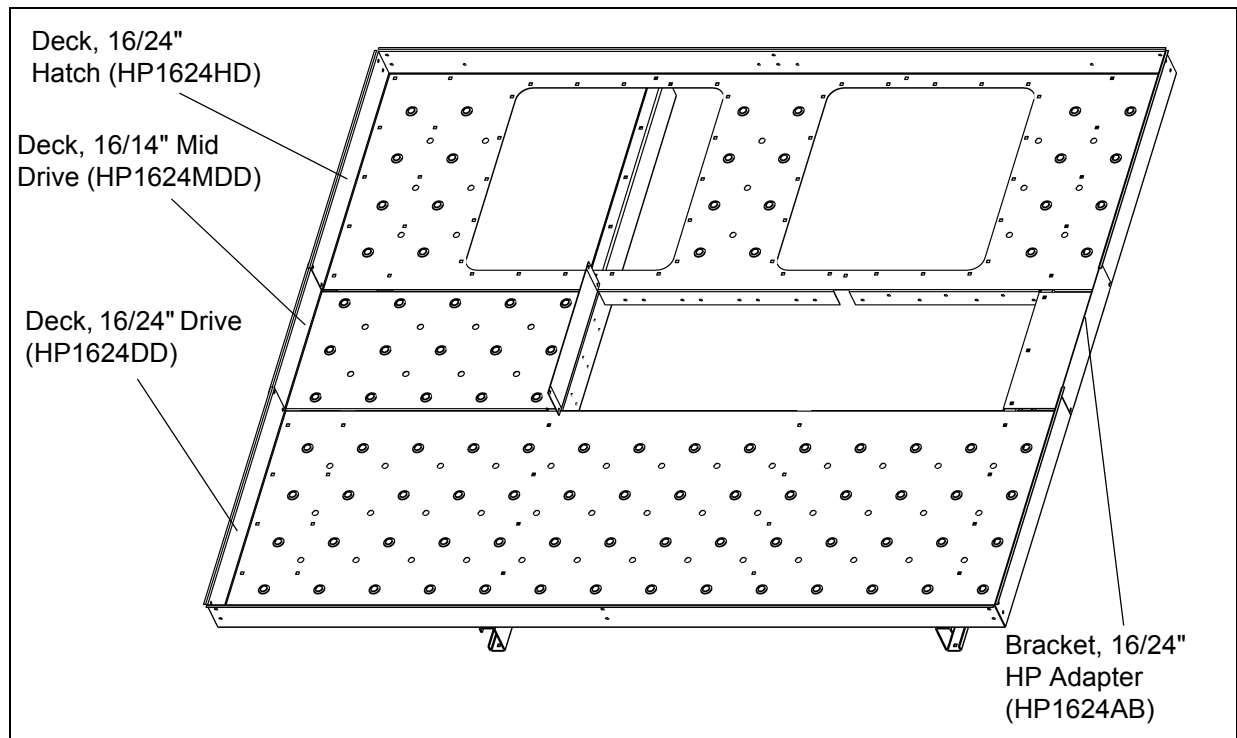


Figure 4C 16" Platform

4. 16"- 24" PLATFORM ASSEMBLY

Toeboards

Fasten toeboards to floor sections in the position shown position using 3/8" x 1" bolts and whiz nuts. Make sure not to tighten hardware until assembly is complete.

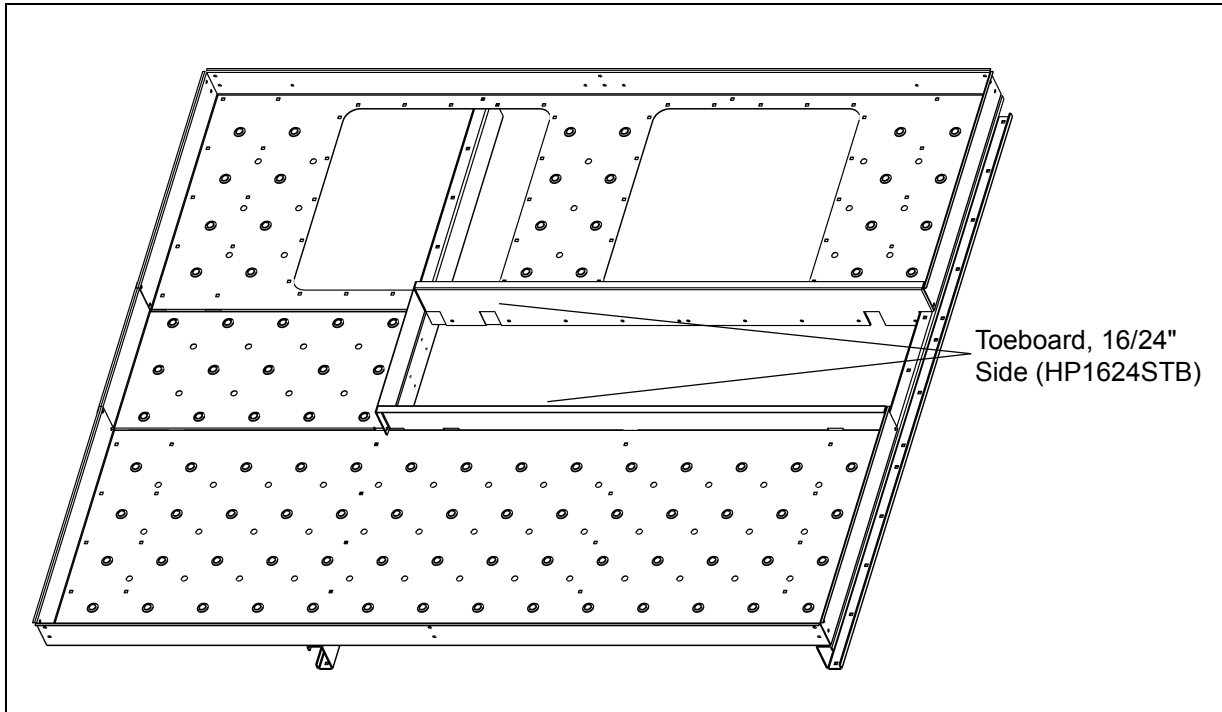


Figure 4D 24" Platform

Handrail Posts

Place vertical posts in position as shown. Fasten with 3/8" x 1" bolts and whiz nuts. Make sure not to tighten hardware until assembly is complete.

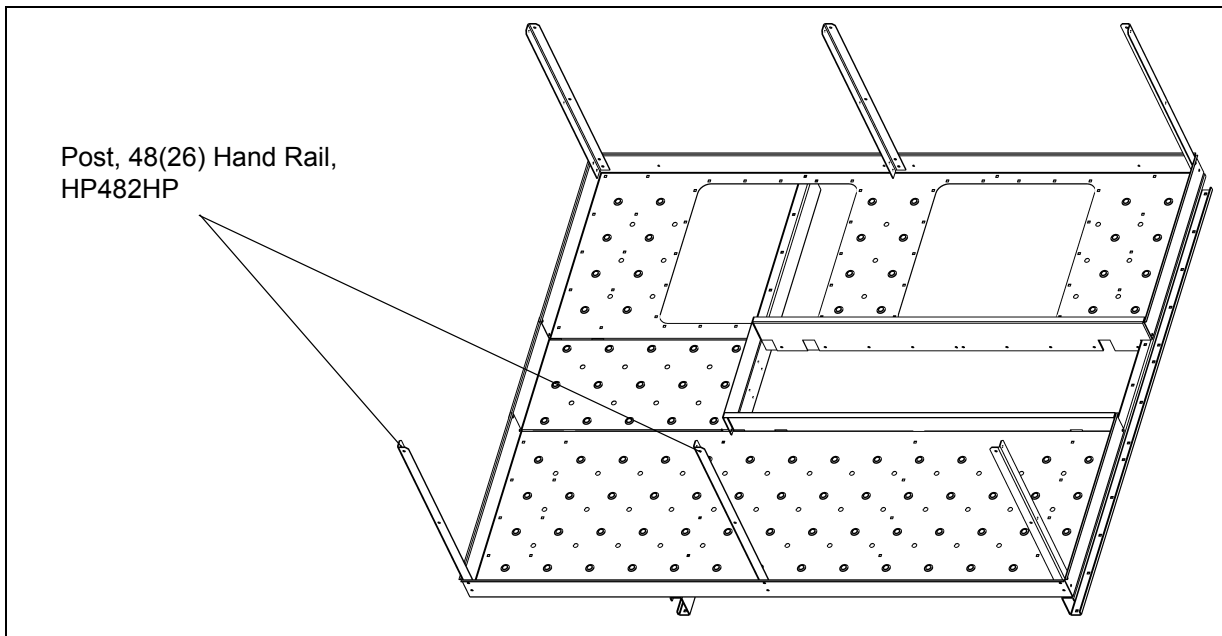


Figure 4E 24" Platform

4. 16" - 24" PLATFORM ASSEMBLY

Hatch Door

Attach the hatch door hinges to the hatch deck door using 3/8" x 1" carriage bolts and whiz nuts. Next attach the door hinge to the hatch deck using 3/8" x 1" carriage bolts and whiz nuts. Attach hatch deck support and hatch support as shown in [Figure 4F](#) using 3/8" x 1" carriage bolts and flange nuts. Attach hatch deck filler with 3/8" x 1" carriage bolts.

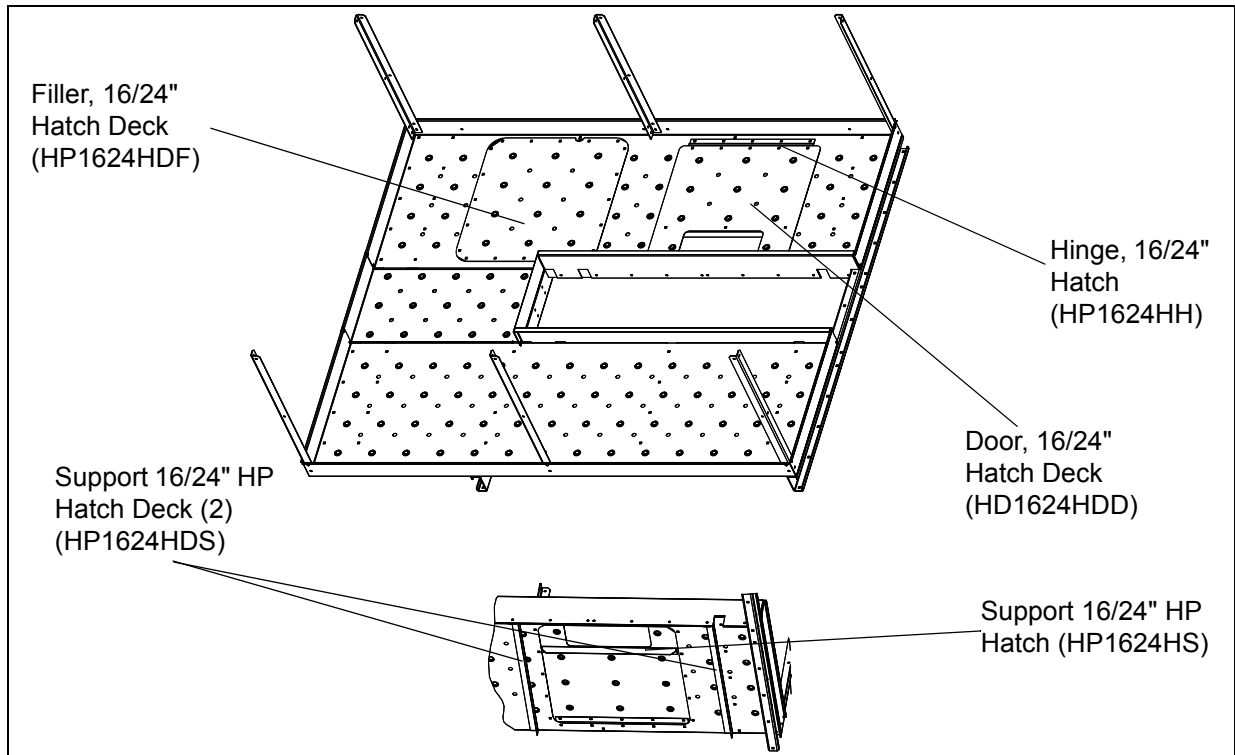


Figure 4F 24" Platform

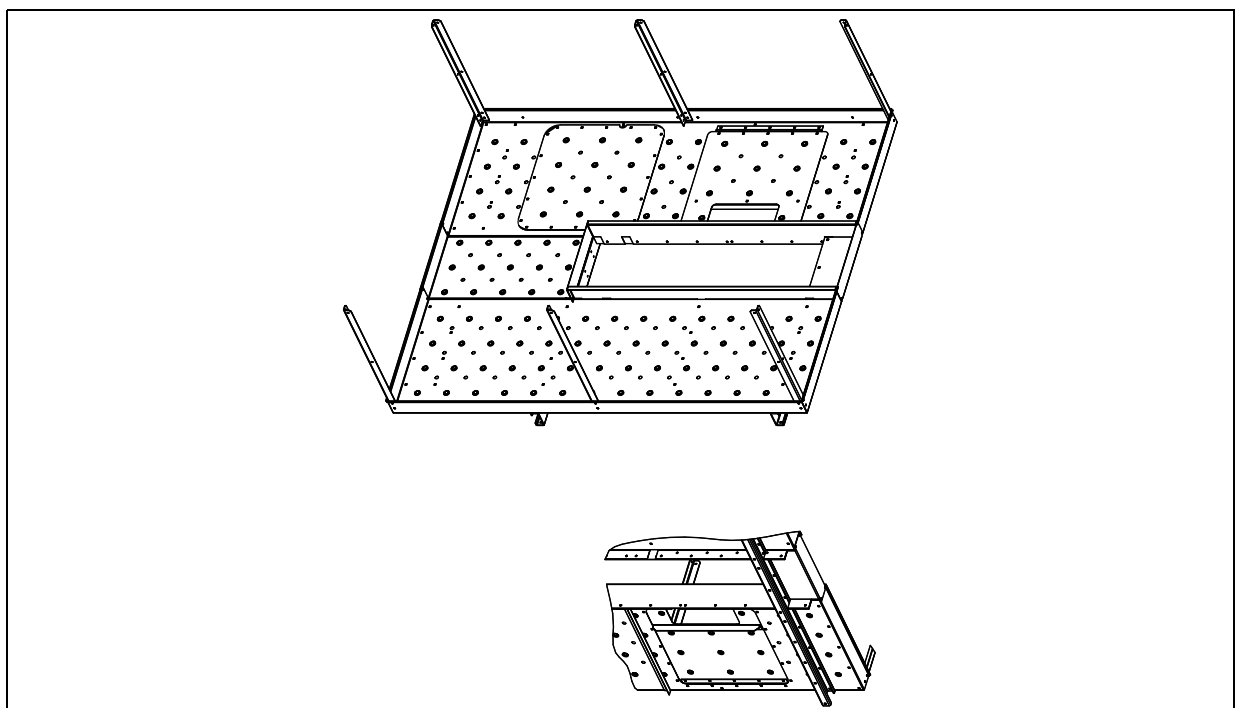


Figure 4G 16" Platform

4. 16"- 24" PLATFORM ASSEMBLY

Handrails

Attach handrails to vertical posts in position as shown in [Figure 4H](#) with 3/8" x 1" hardware. Attach latch assembly for deck hatch door to lower handrail next to the center vertical post using 5/16" x 1" hardware. Now go back and tighten all hardware.

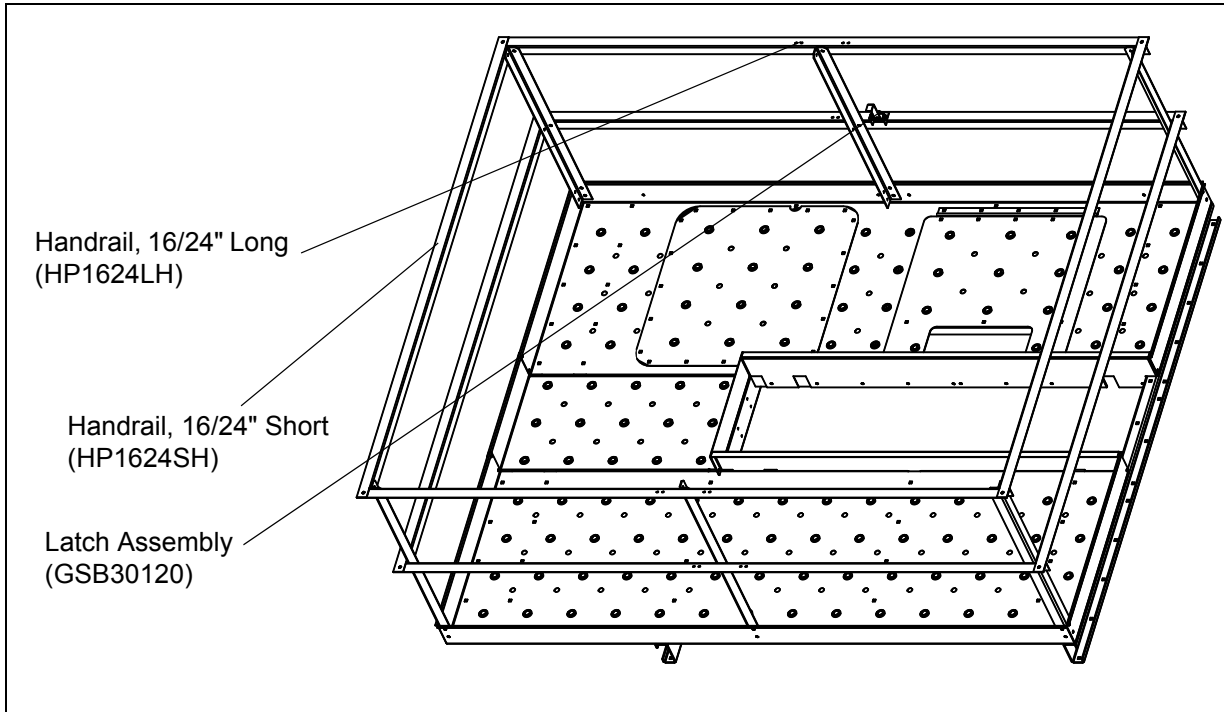


Figure 4H 24" Platform

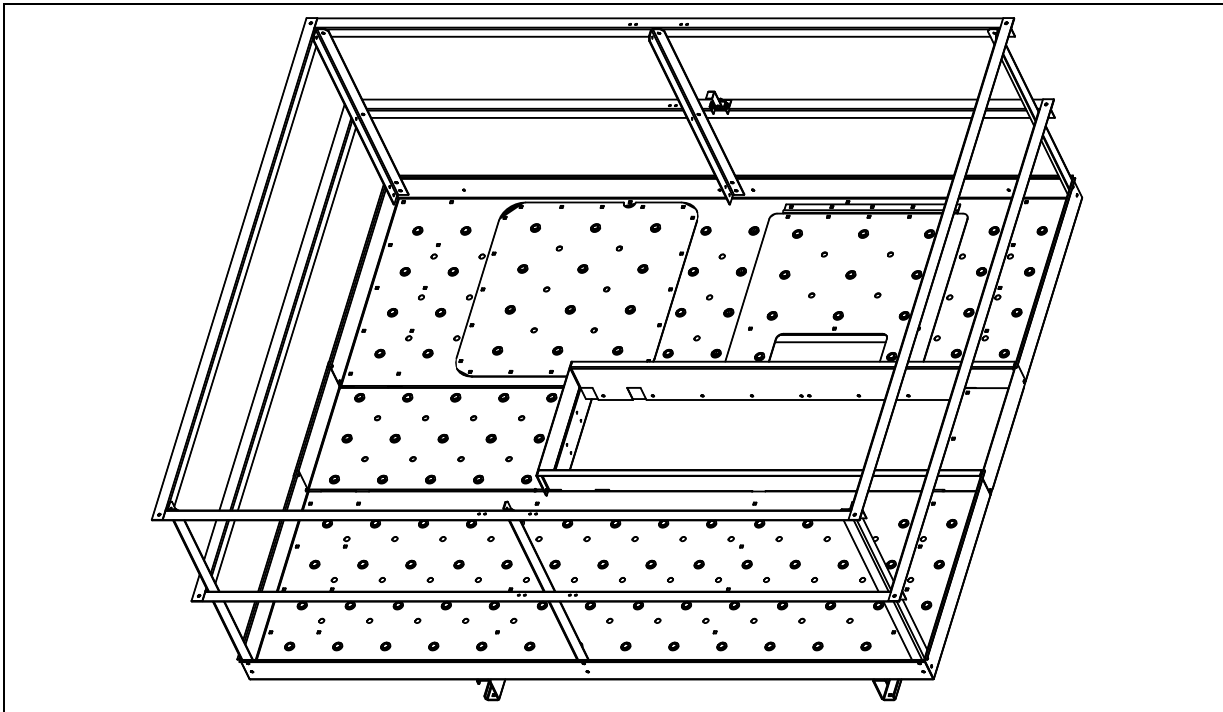


Figure 4I 16" Platform

5. 36" PLATFORM ASSEMBLY

Deck Support Channel

When laying out the ladder, safety cage, and platforms be sure to always start from the head service platform and work your way down the leg. Keep in mind a rest platform needs to be located at every 30' of vertical descent to comply with O.S.H.A Standards.

Take time now and review all instructions and drawings before attempting to assemble the platforms. Layout all parts for easy identification. Determine if your equipment is left or right hand shaft. The support channels will mount in the same location for right hand or left hand drive setup. The support channels will extend same distance on each side of the head. Start the **head service platform** assembly by attaching two support channels to the head platform clips. Use 3/8" x 1" bolts and whiz nuts ([See Figure 5A](#)).

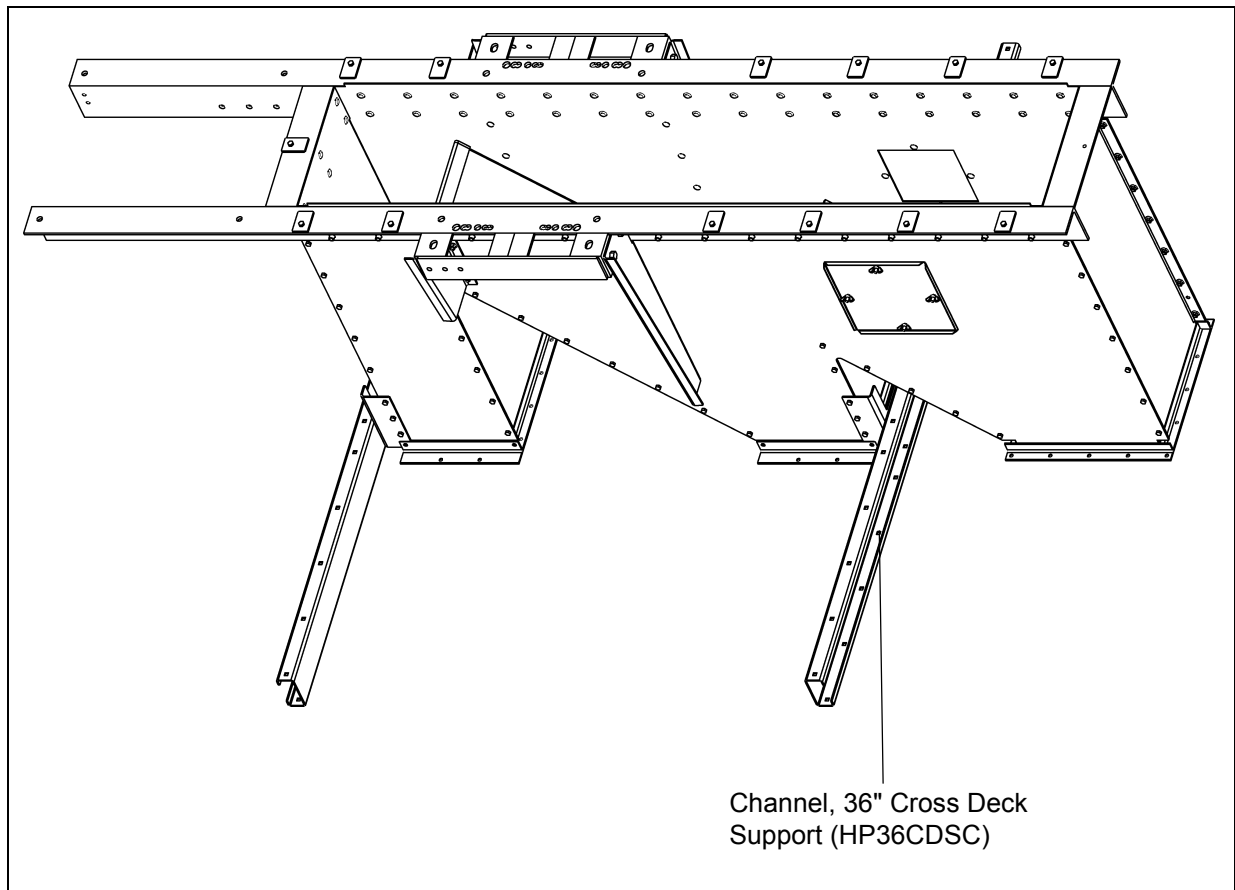


Figure 5A 36" Platform

5. 36" PLATFORM ASSEMBLY

Decking

The drive deck and hatch deck sections are interchangeable. All shown views are consistent for a right hand drive elevator. If you are assembling a left hand drive elevator the hatch deck would be closest to you and the drive deck farthest in [Figure 5B](#). Place outside floor sections (Drive Attach) on support channels in location shown below and fasten using 3/8" x 1" carriage bolts and whiz nuts. Fasten mid drive deck to the two outside floor sections with 3/8" x 1" carriage bolts and whiz nuts. Make sure not to tighten the hardware until assembly is complete.

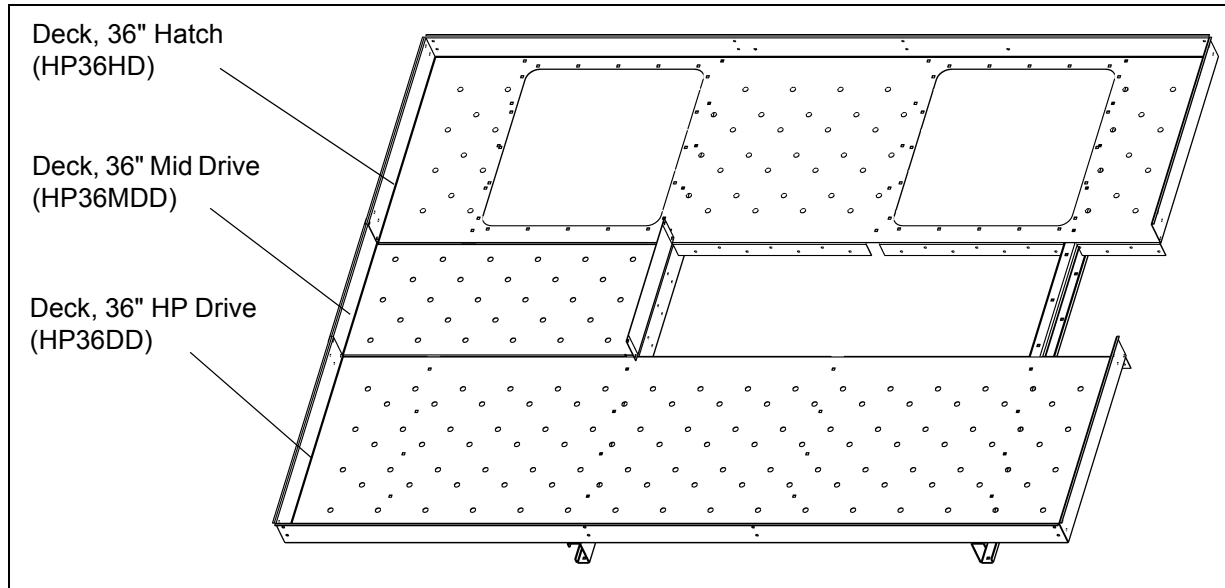


Figure 5B 36" Platform

Toeboards

Fasten toeboards to floor sections in the position shown position using 3/8" x 1" bolts and whiz nuts. Make sure not to tighten hardware until assembly is complete.

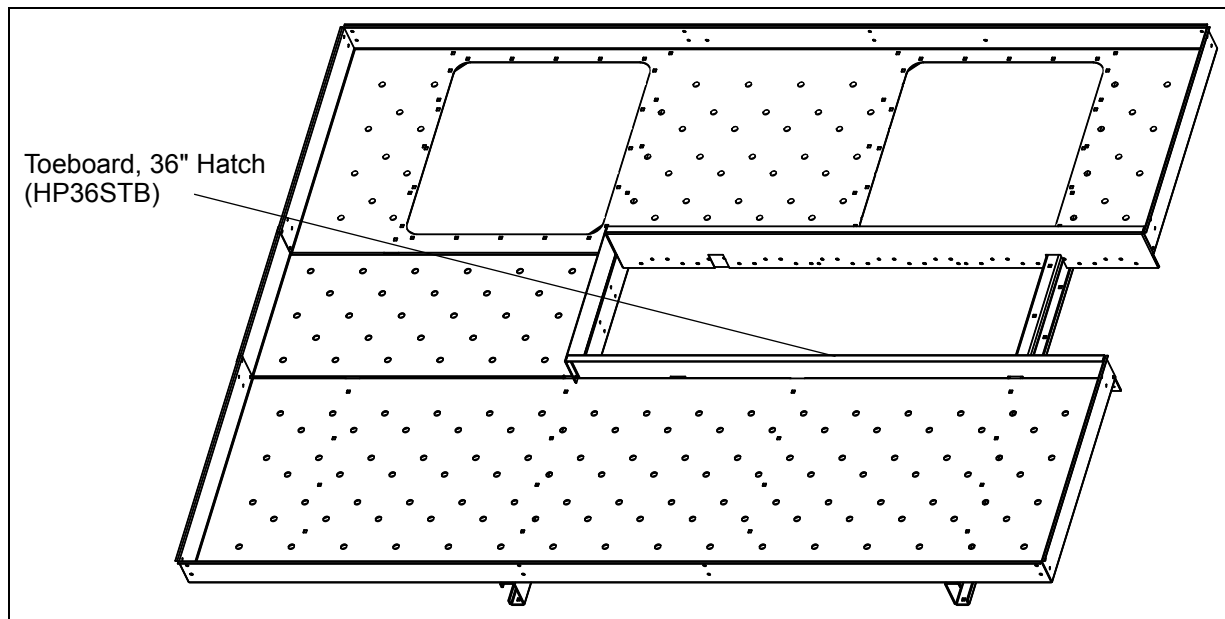


Figure 5C 36" Platform

5. 36" PLATFORM ASSEMBLY

Handrail Posts

Place Handrail posts in position as shown [Figure 5D](#). Fasten with 3/8" x 1" bolts and whiz nuts. Make sure not to tighten hardware until assembly is complete.

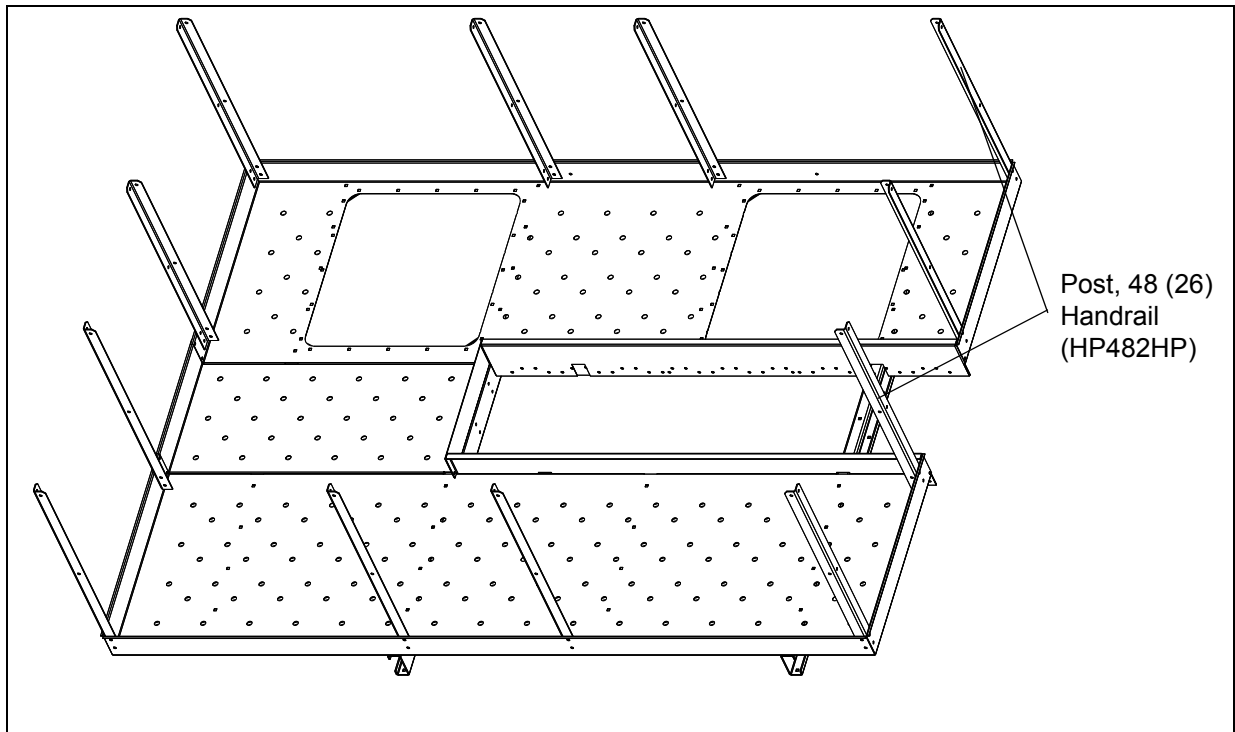


Figure 5D 36" Platform

5. 36" PLATFORM ASSEMBLY

Hatch Door

Attach the hatch door hinges to the hatch deck door using 1" carriage bolts and whiz nuts. Next attach the door hinge to the hatch deck using 3/8 x 1" carriage bolts and whiz nuts. Attach hatch deck support and hatch support as shown in [Figure 5F](#) using 3/8" x 1" bolts and flange nuts. Attach hatch deck filler with 3/8" x 1" carriage bolts.

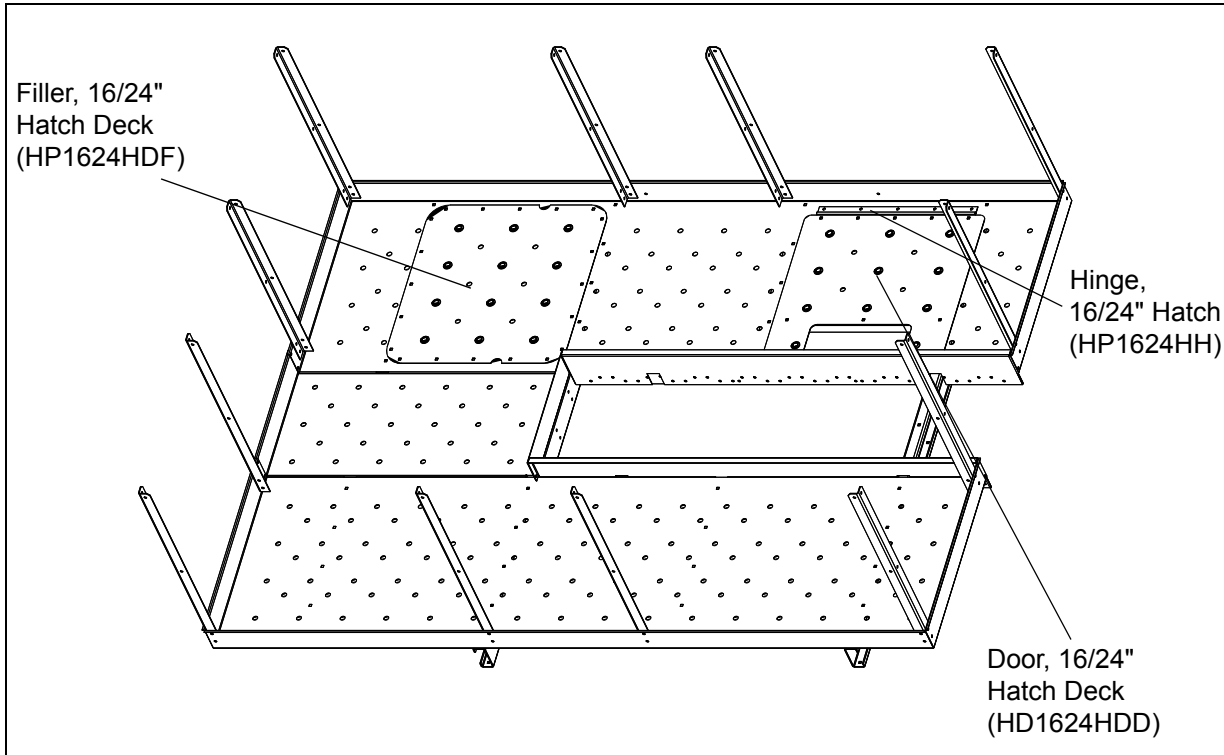


Figure 5E 36" Platform

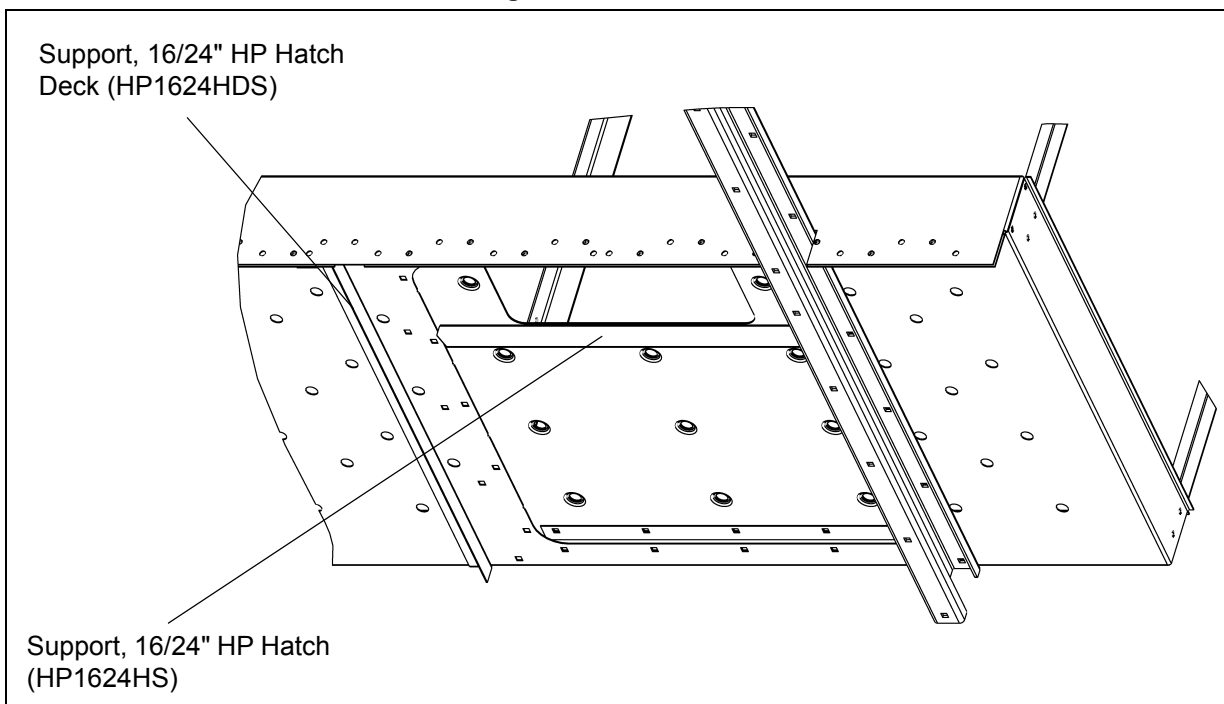


Figure 5F 36" Platform

5. 36" PLATFORM ASSEMBLY

Handrails

Attach handrails to handrail posts in position as shown in [Figure 5D](#) with 3/8" x 1" hardware. Attach latch assembly for deck hatch door to lower handrail next to the center vertical post using 5/16" x 1" hardware. Now go back and tighten all hardware.

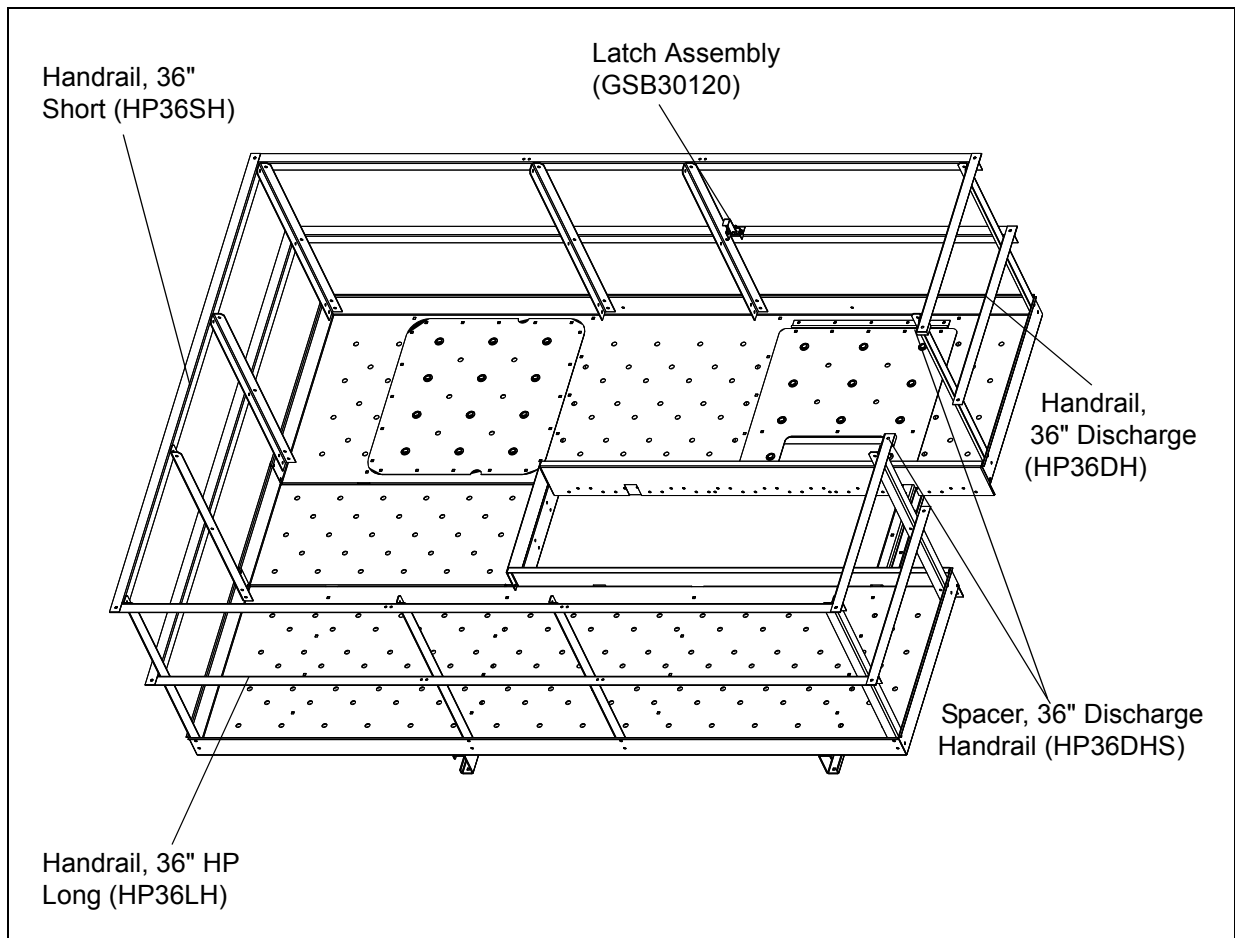


Figure 5G 36" Platform

Tie Angle Attachment

Attach the up and down legs together with the tie angles. Position the tie angles as shown and fasten with the 1/2" - 13 x 1" bolts.

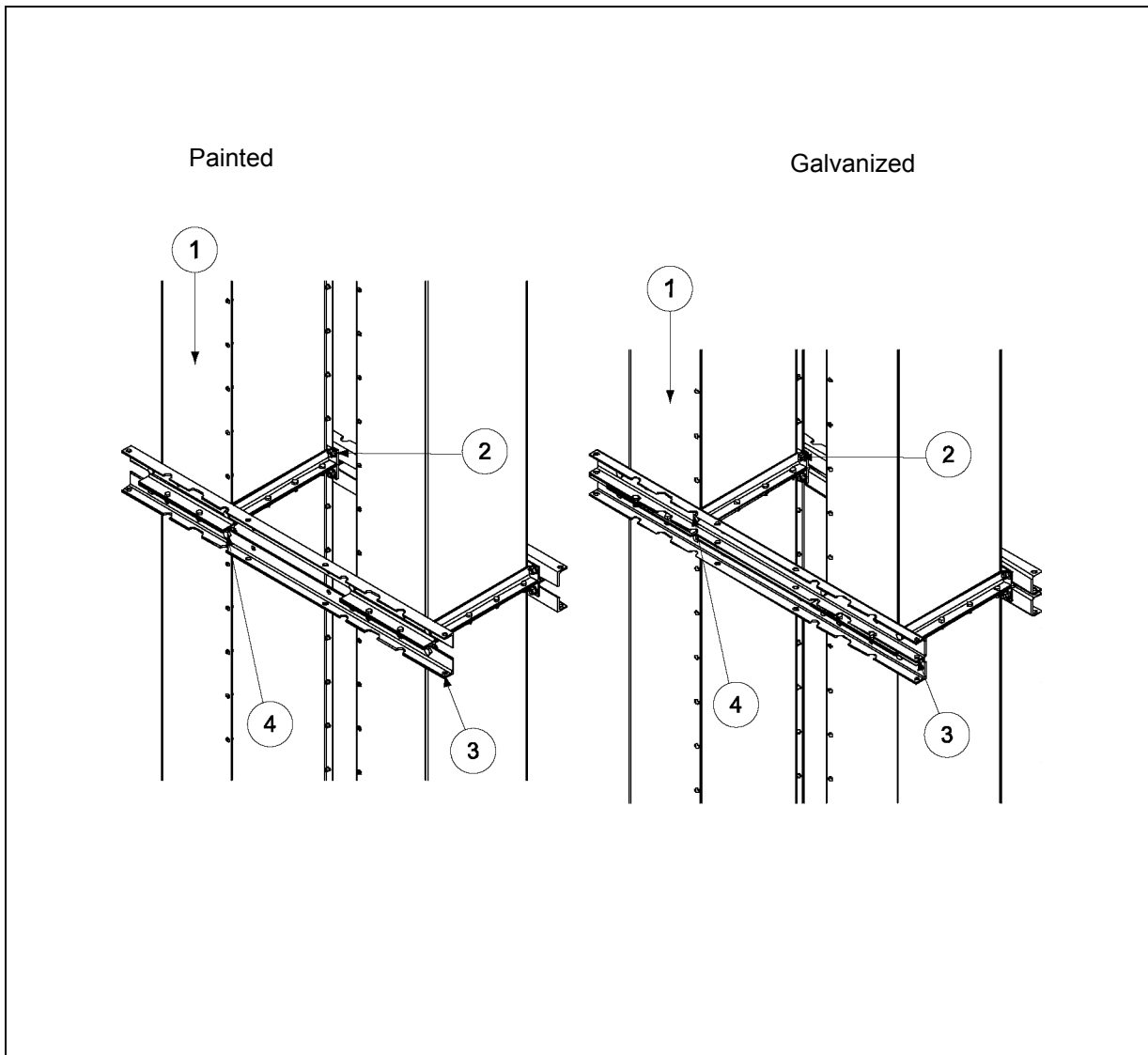


Figure 6A

1.	Trunking Section
2.	1/2" - 13 Hex Nut
3.	Tie Angle
4.	1/2" - 13 x 1" Hex Bolt

6. LADDER ASSEMBLY

Tie Angle and Cross Braces

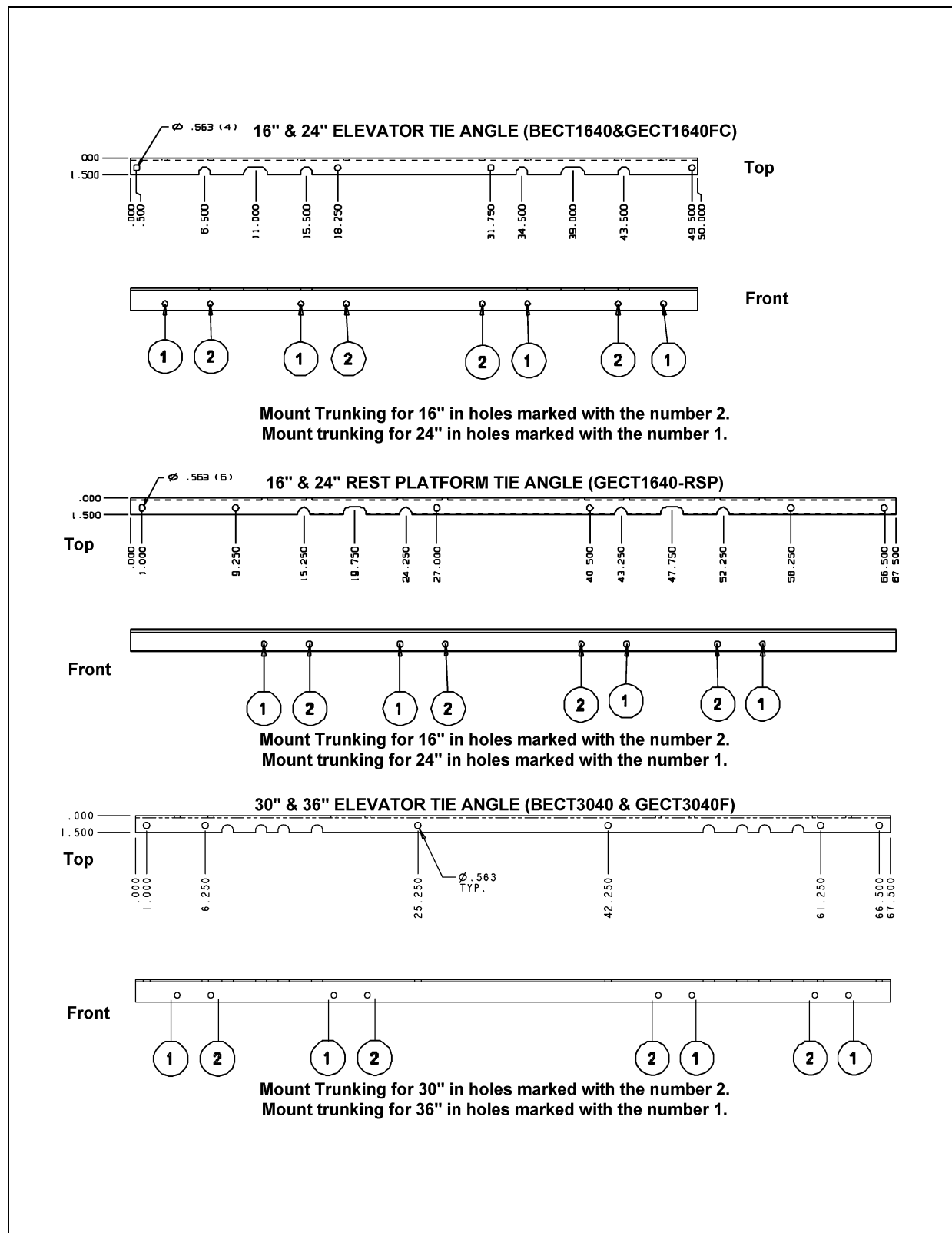


Figure 6B

Ladder Stand Off Bracket

Attach the ladder stand off bracket to the tie angles.

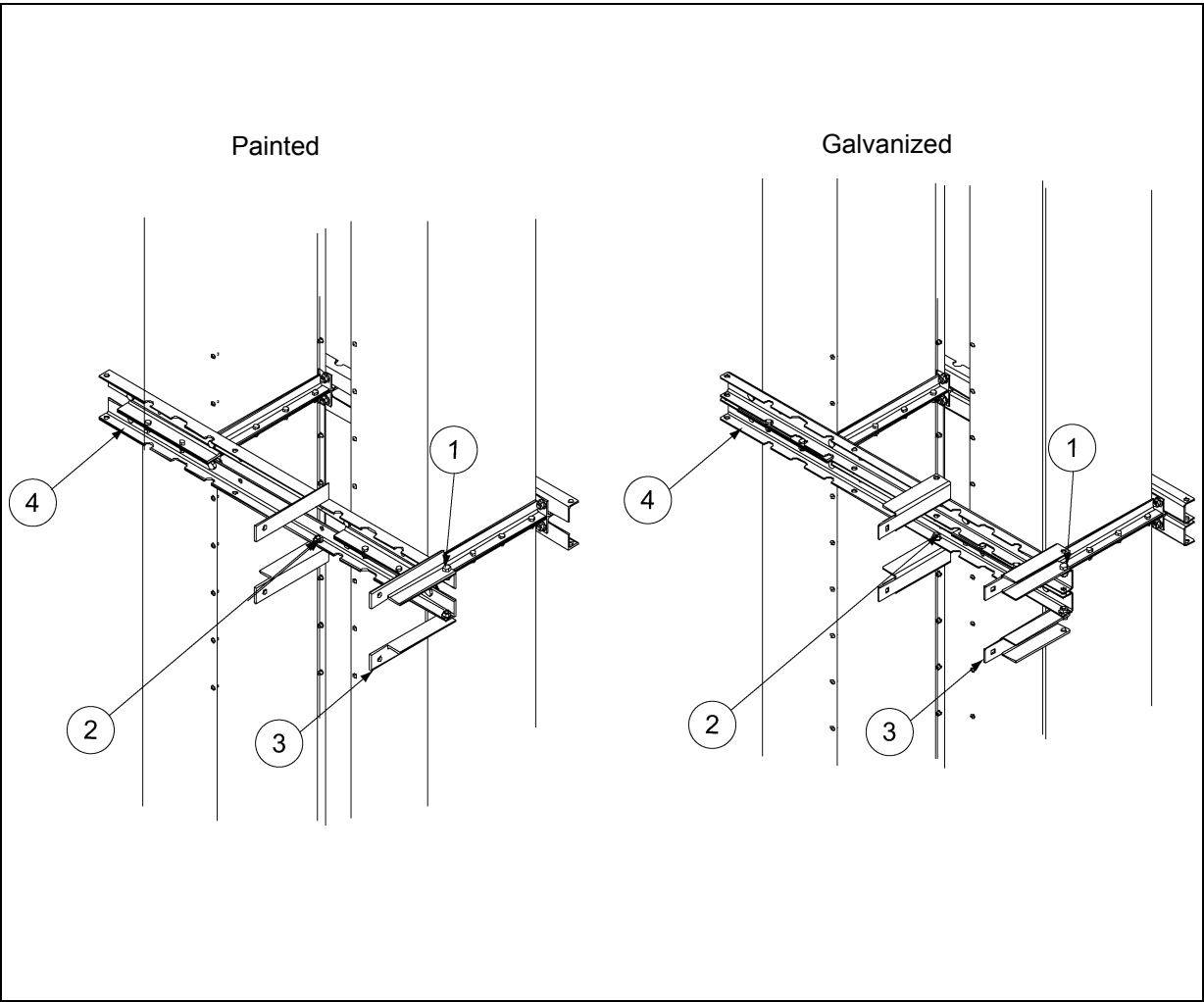


Figure 6C

1.	1/2" - 13 x 1" Hex Bolt
2.	1/2" - 13 Hex Nut
3.	Ladder Stand off Bracket
4.	Tie Angle

6. LADDER ASSEMBLY

Ladder Attachment

When attaching the ladder to the standoffs the ladder is attached through the second hole down from the end of the ladder. The first hole is used to attach the safety cage hoop.

Note: On 16" & 24" the stand off angles and cages mount inside ladder. On 30" & 36" the stand off Angle and cages mount to outside of ladder.

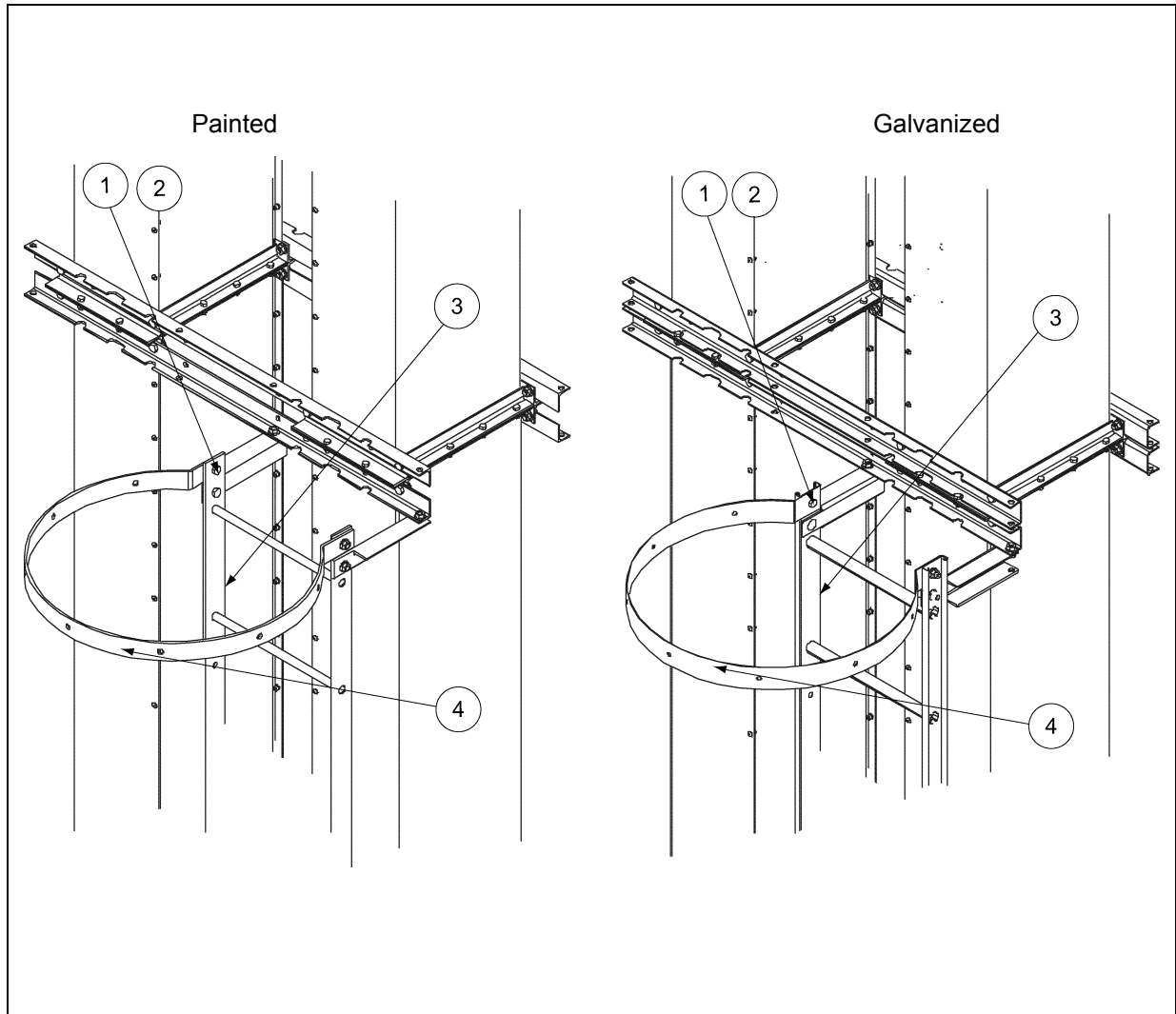


Figure 6D

1.	1/2" - 13 x 1" Hex Bolt
2.	1/2" - 13 Hex Nut
3.	10' Ladder section**
4.	27" Safety Cage Hoop**

Safety Cage Hoop Assembly

Bolt all safety cage hoops to ladder as shown below. Leave all bolts loose until the vertical bars are in place and then tighten all hardware.

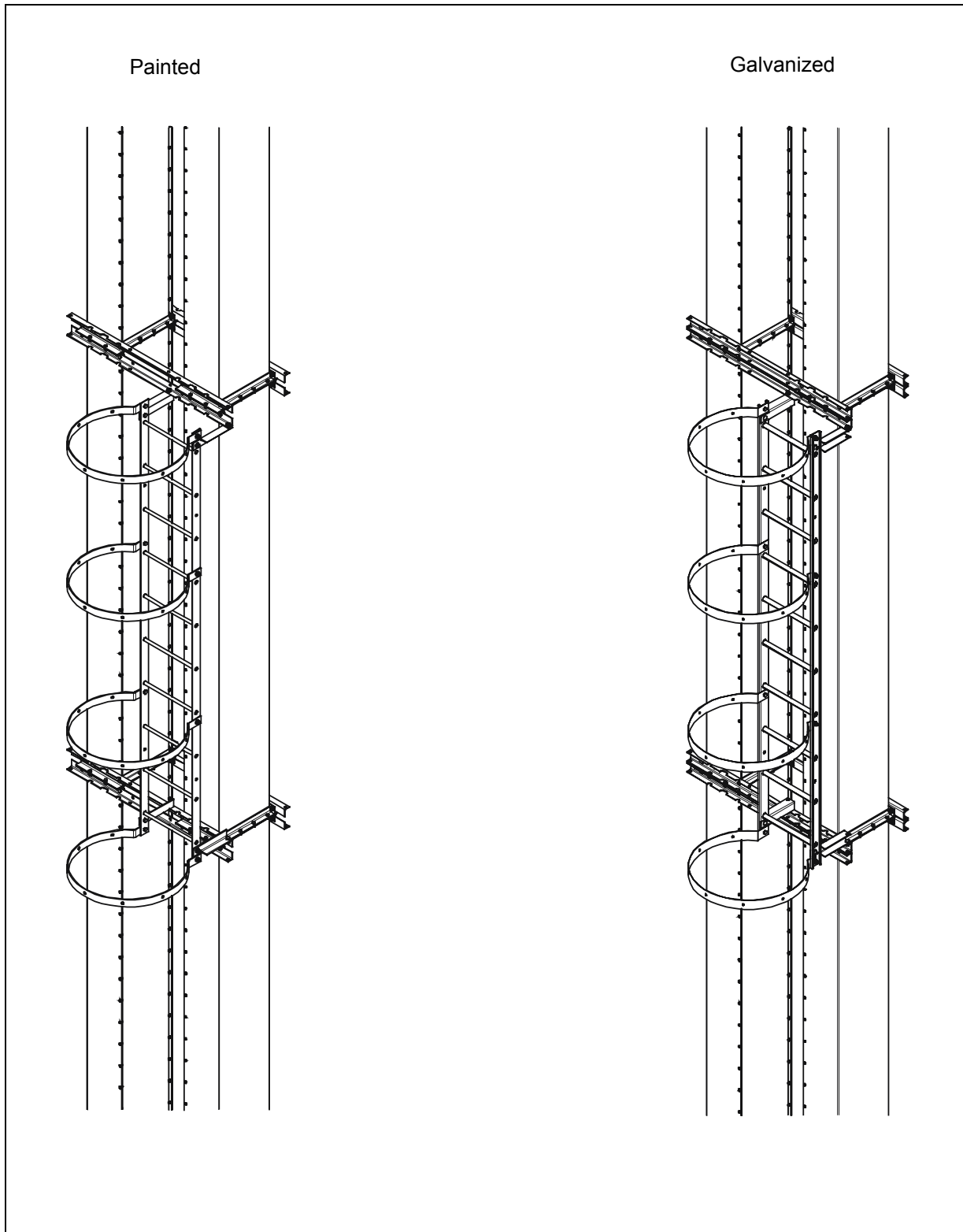


Figure 6E

6. LADDER ASSEMBLY

14' Ladder Assembly

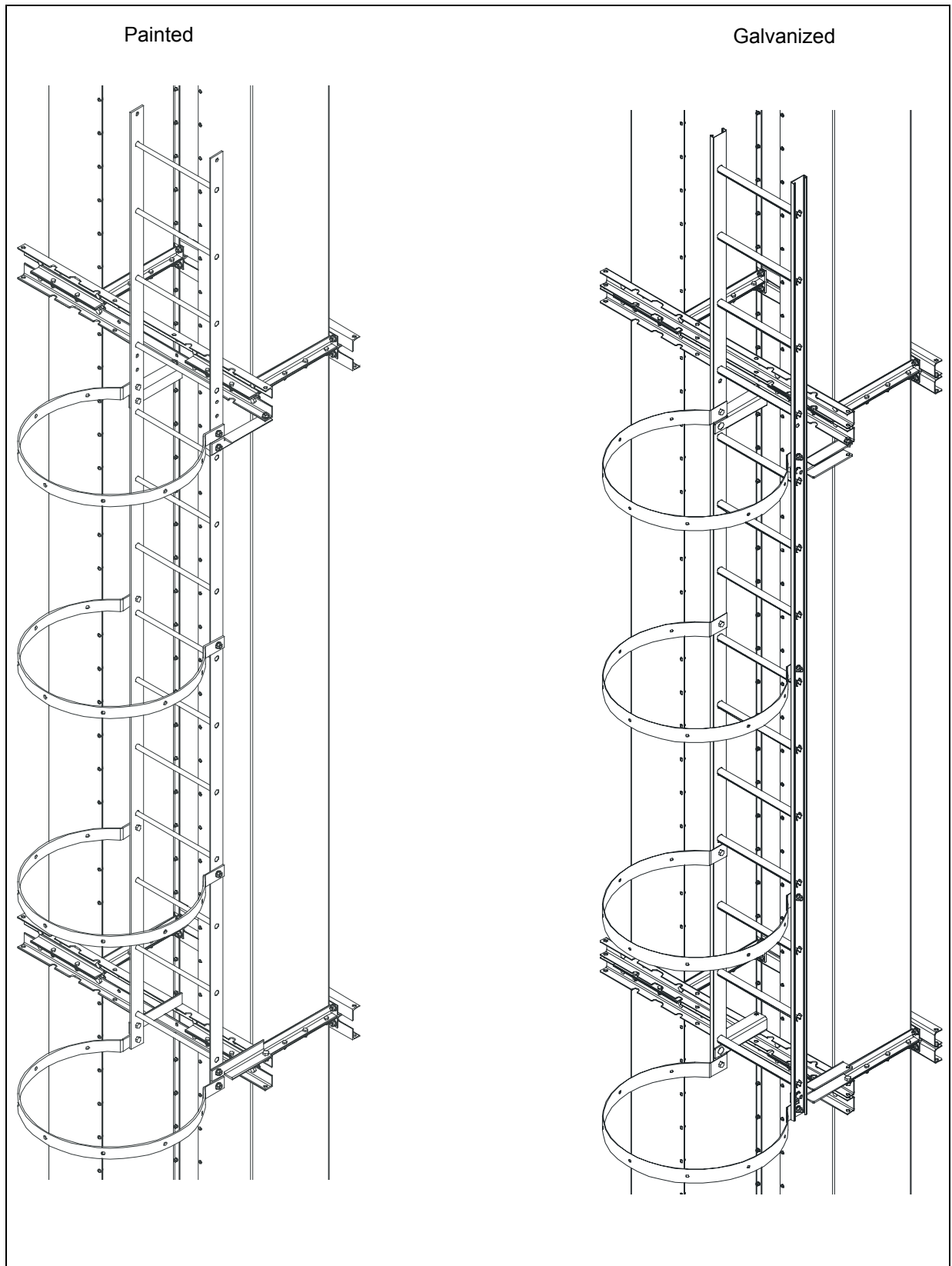


Figure 6F

Safety Cage Vertical Bar Attachment

Bolt all safety cage vertical bars to the cage hoops as shown below.

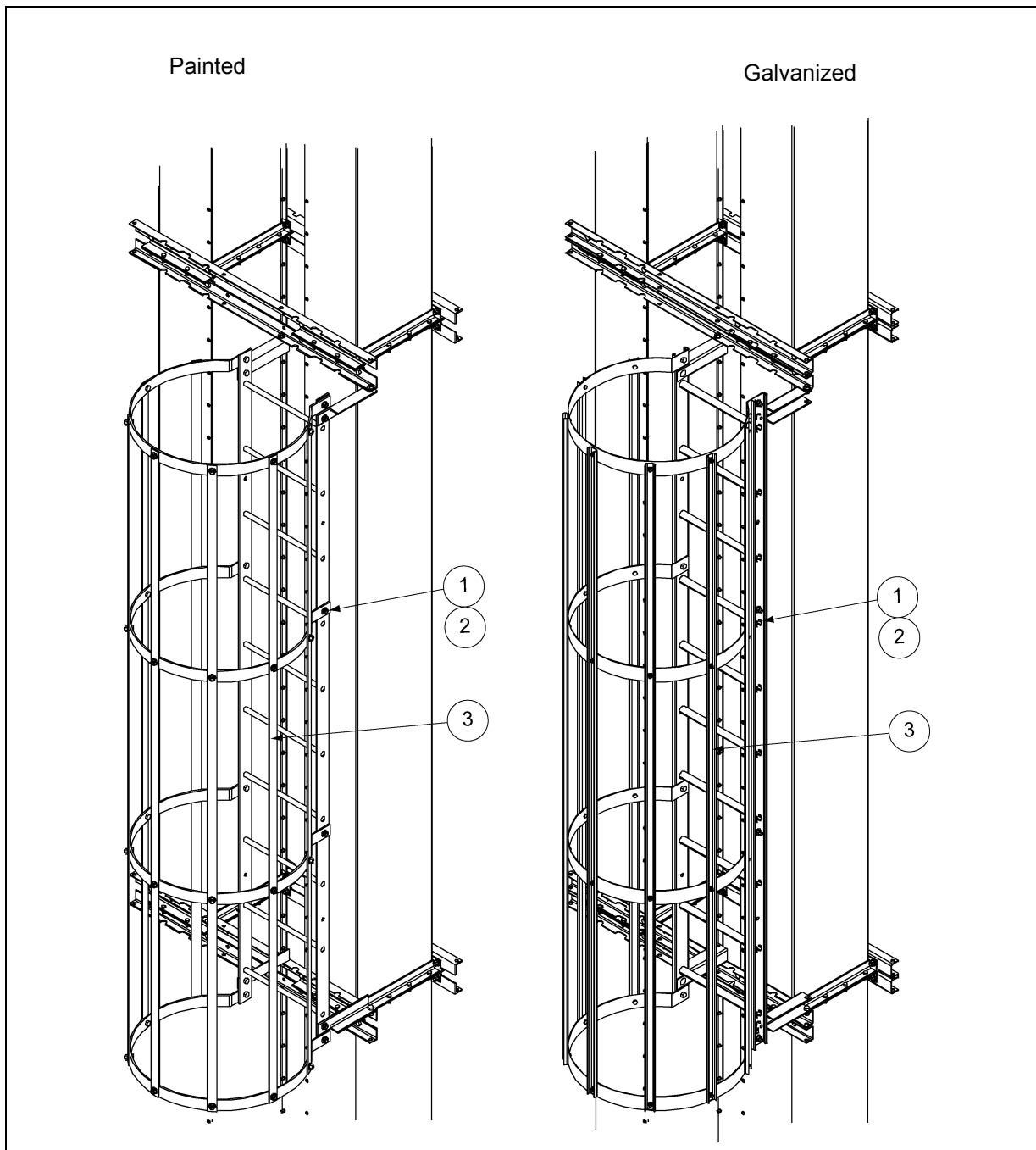


Figure 6G

1.	1/2" - 13 x 1" Hex Bolt
2.	1/2" - 13 Hex Nut
3.	Safety Cage Vertical Nut

6. LADDER ASSEMBLY

Safety Cage Flare Attachment Painted

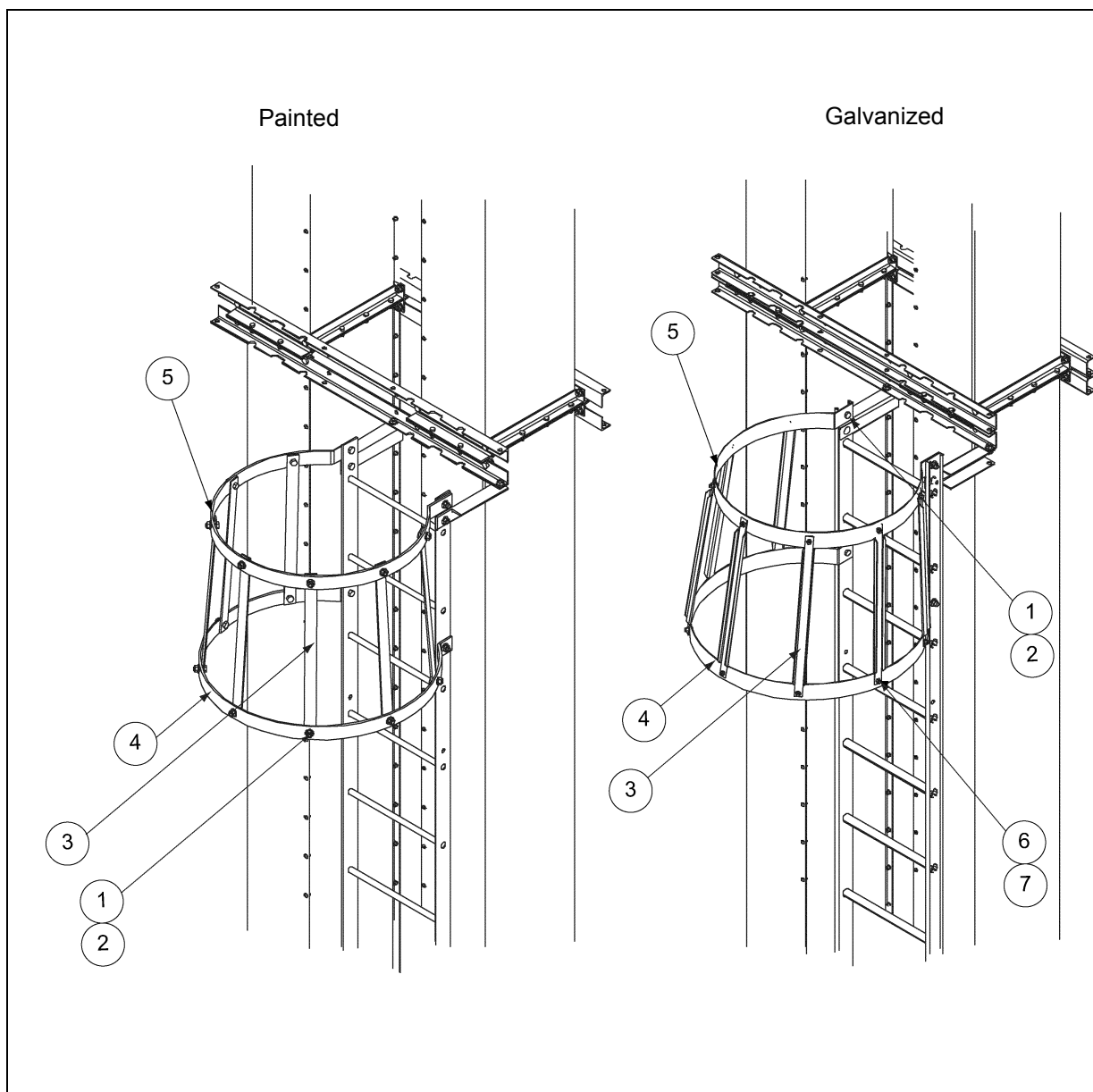


Figure 6H

1.	1/2" - 13 x 1" Hex Bolt	1.	1/2" - 13 x 1" Hex Bolt
2.	1/2" - 13 Hex Nut	2.	1/2" - 13 Hex Nut
3.	Safety Cage Tapper Vertical Bar	3.	Safety Cage Tapper Vertical Bar
4.	30" Safety Cage Hoop	4.	31" Safety Cage Hoop
5.	27" Safety Cage Hoop	5.	27" Safety Cage Hoop
		6.	3/8 - 16 Hex Bolt
		7.	3/8 - 16 Flange Nut

7. REST PLATFORM ASSEMBLY

Mounting Channels

The first step to assemble the rest platform is to attach the mounting channels to the tie angles with 1/2" x 3/4" bolts and whiz nuts. For 16" & 24" special tie angles are in rest platform packages (GECT1640FCRP) and must be mounted in place of standard tie angles.

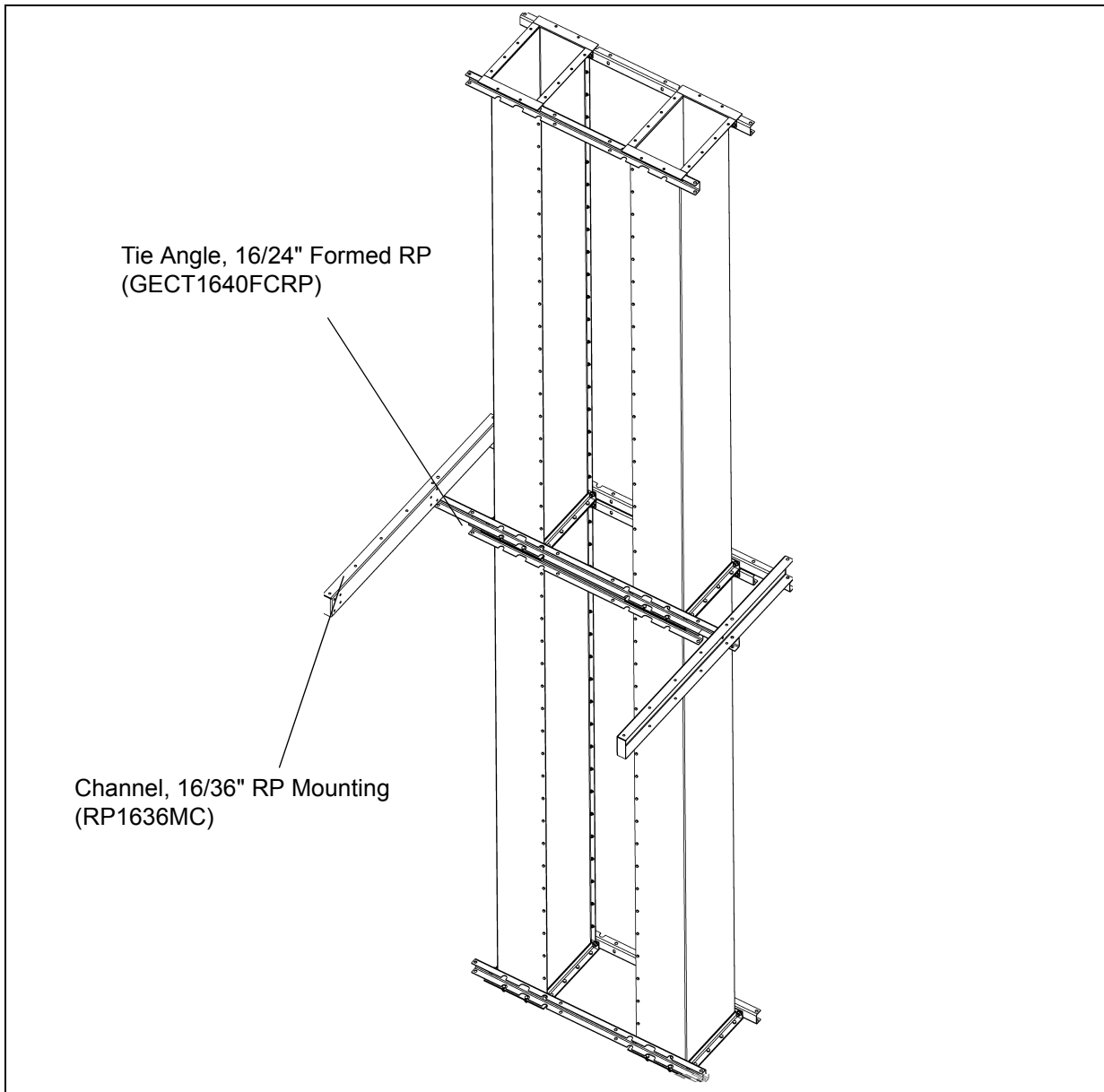


Figure 7A

7. REST PLATFORM ASSEMBLY

Cross Channels

The next step is to attach the cross channels to the mounting channels with 3/8" x 3/4" bolts and hex nuts as shown in [Figure 7B](#).

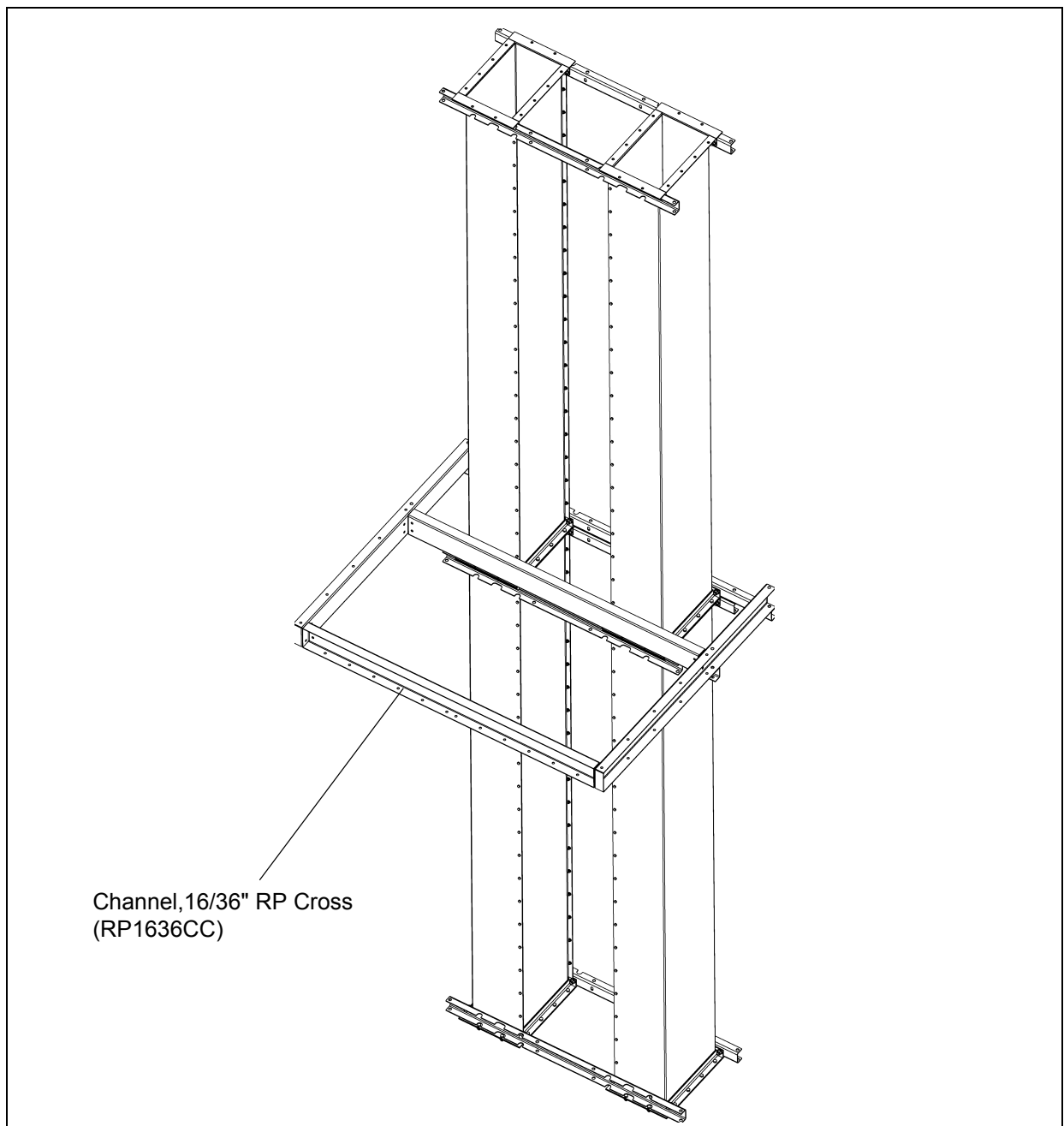


Figure 7B

7. REST PLATFORM ASSEMBLY

Rest Platform Deck Plate

With 3/8" x 3/4" Bolts and Flange nuts, bolt the deck plate to the mounting and cross channels as shown in [Figure 7C](#). With 1/2" x 1" Hex bolts and Flange nuts, snug the ladder clips in place. Mounting with the flange nuts on the bottom of the deck plate will make adjusting the ladder clips easier in the air.

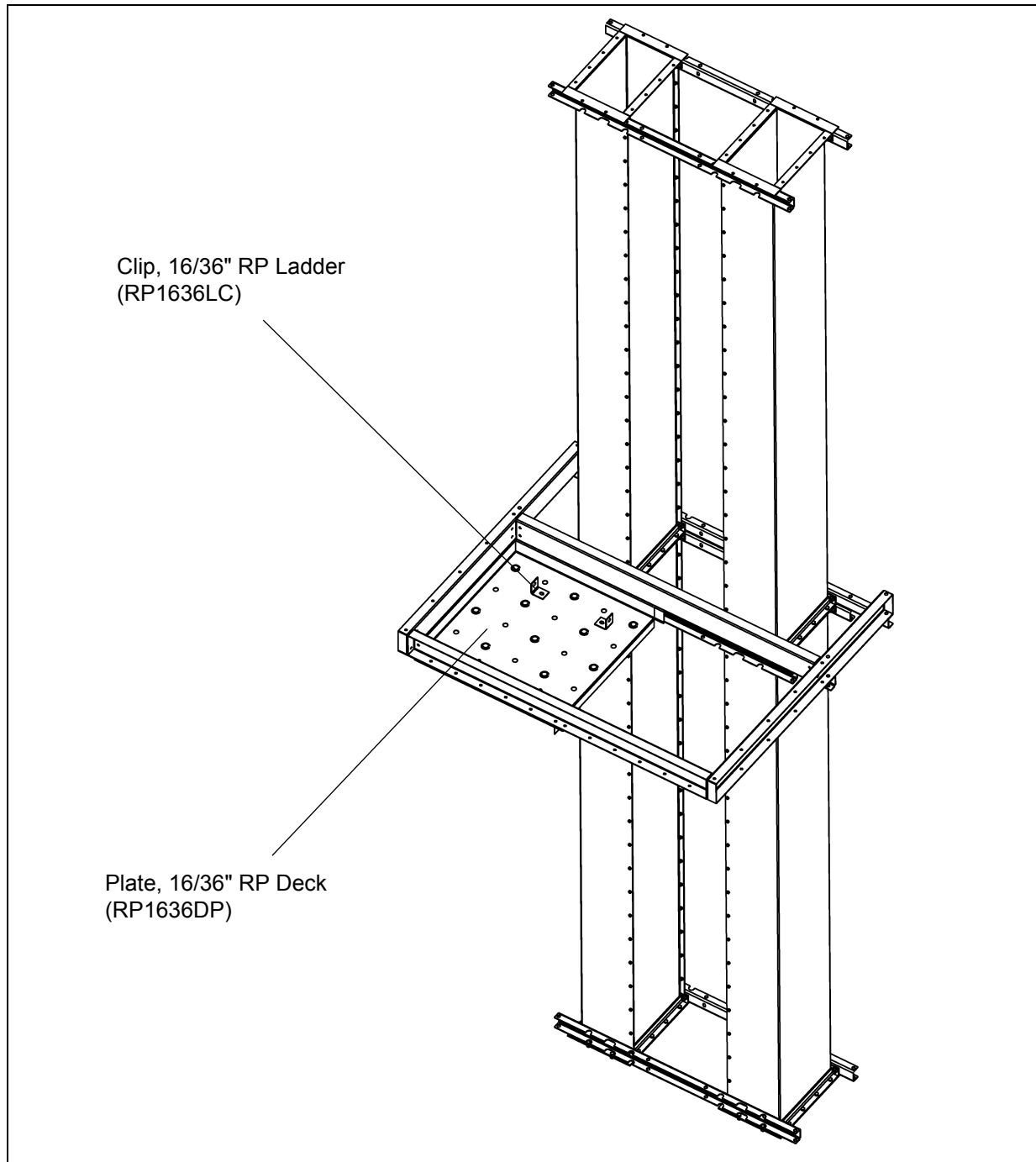


Figure 7C

7. REST PLATFORM ASSEMBLY

Platform Corner Post

Next attach the handrail posts to the mounting and cross channels as shown with 3/8" x 3/4" bolts and whiz nuts as shown in [Figure 7D](#). Leaving hardware loose will help fit other parts in place.

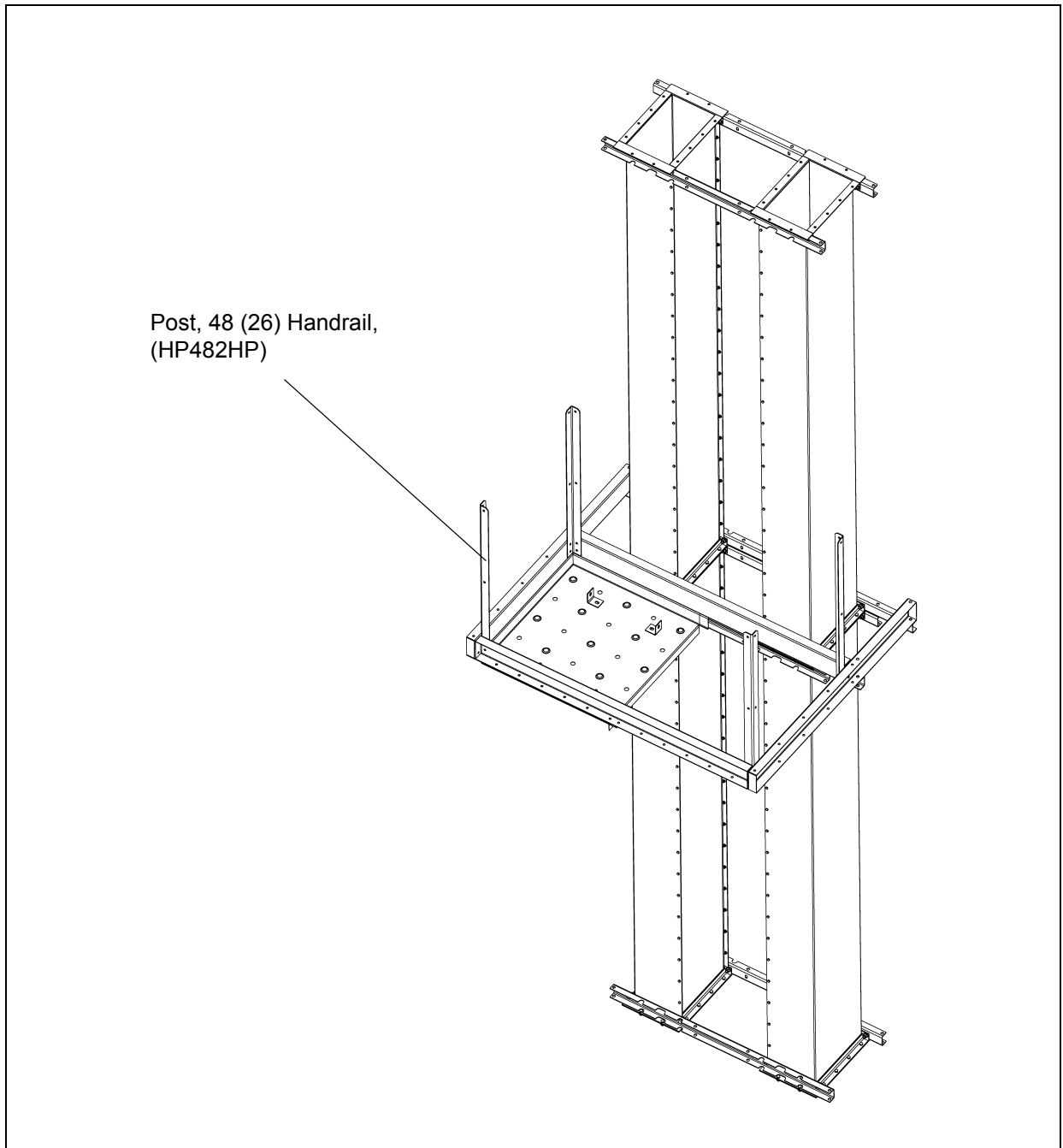


Figure 7D

7. REST PLATFORM ASSEMBLY

Short and Long Handrail

Bolt on all the Short and Long Handrails. As shown in [Figure 7E](#) using 3/8" x 3/4" hex bolts and flange nuts.

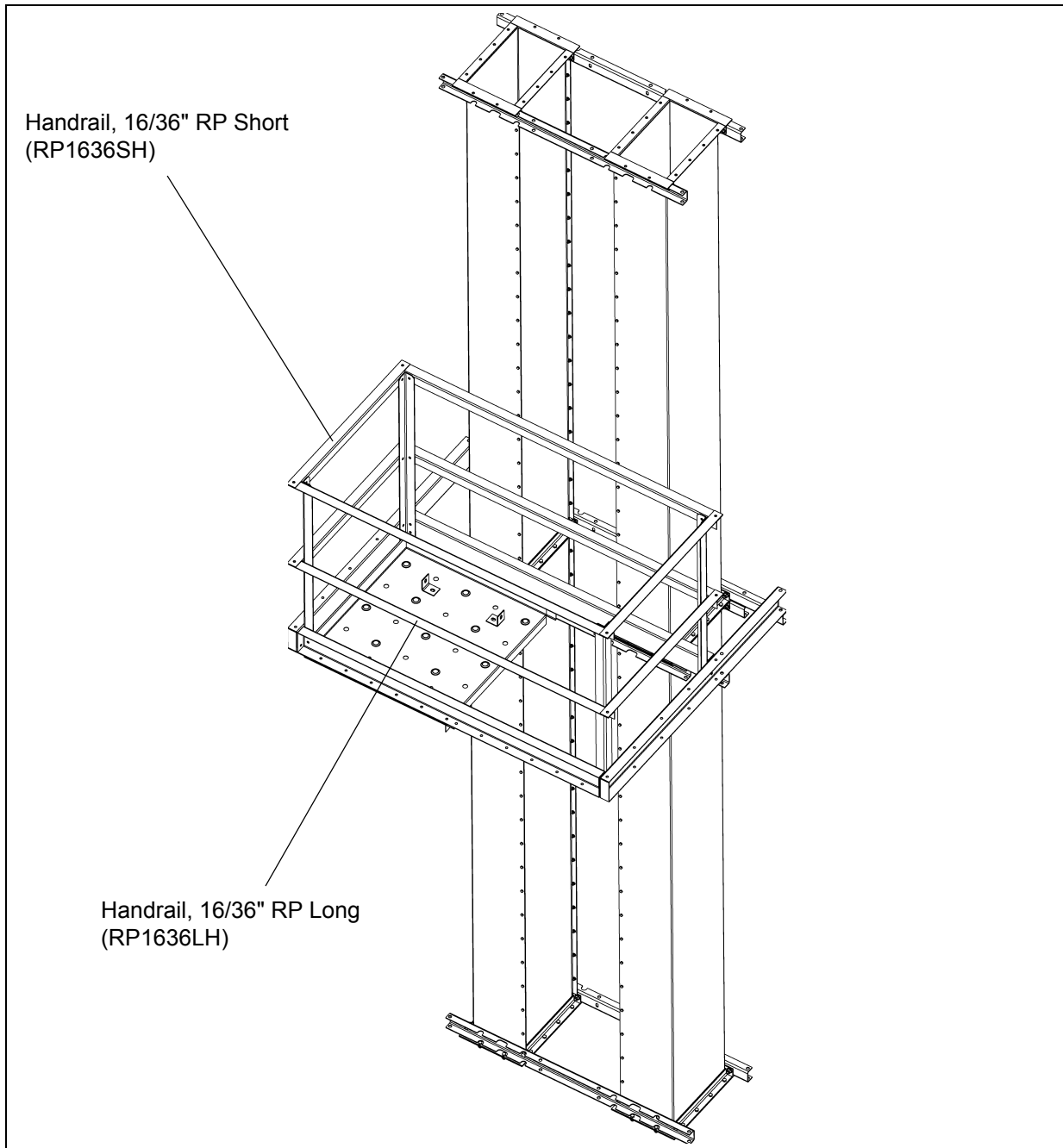


Figure 7E

7. REST PLATFORM ASSEMBLY

14' Complete Rest Platform Assembly

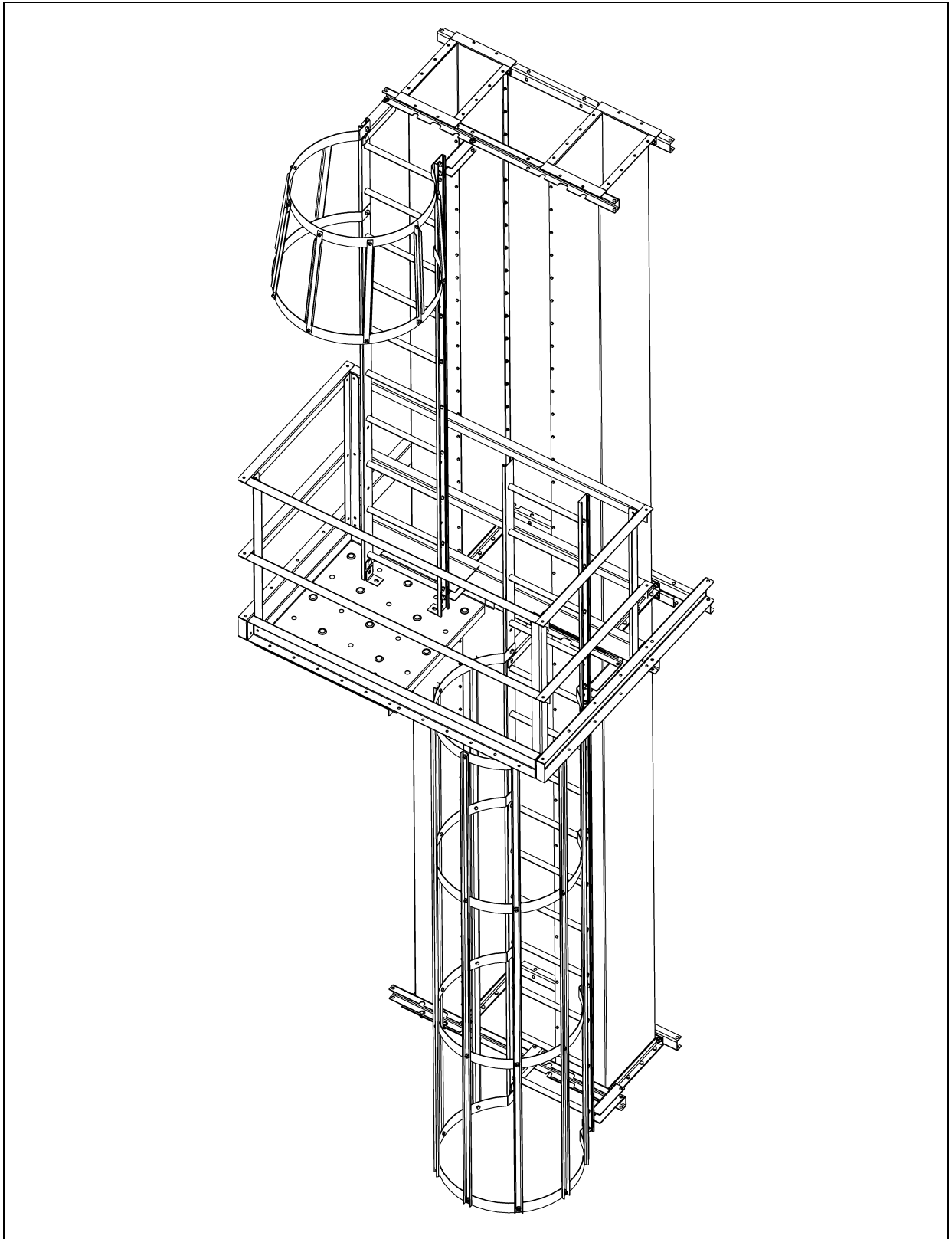


Figure 7F

8. 4 X 5 DISTRIBUTOR PLATFORM

Platform Clamps

This assembly is designed to be located at any elevation on trunking that's needed to provide access to other equipment. Determine elevation of platform surface and work from there. Locate all parts required for assembly by using the charts shown in the following figures.

Locate all parts to assemble clamps onto the trunking. Measure the distance between the clamps to assure proper location for support channels and knee brace attachment. Attach a clamp half and support clip on one end of the support channel using 1/2" hardware. Next attach the clamp rod weldment onto the clamp half using 1/2" nuts. Next place this assembly around trunk and attach other clamp half and support clip using 1/2" hardware.

Note: When tightening clamps onto trunking, do not overtighten and collapse the trunking.

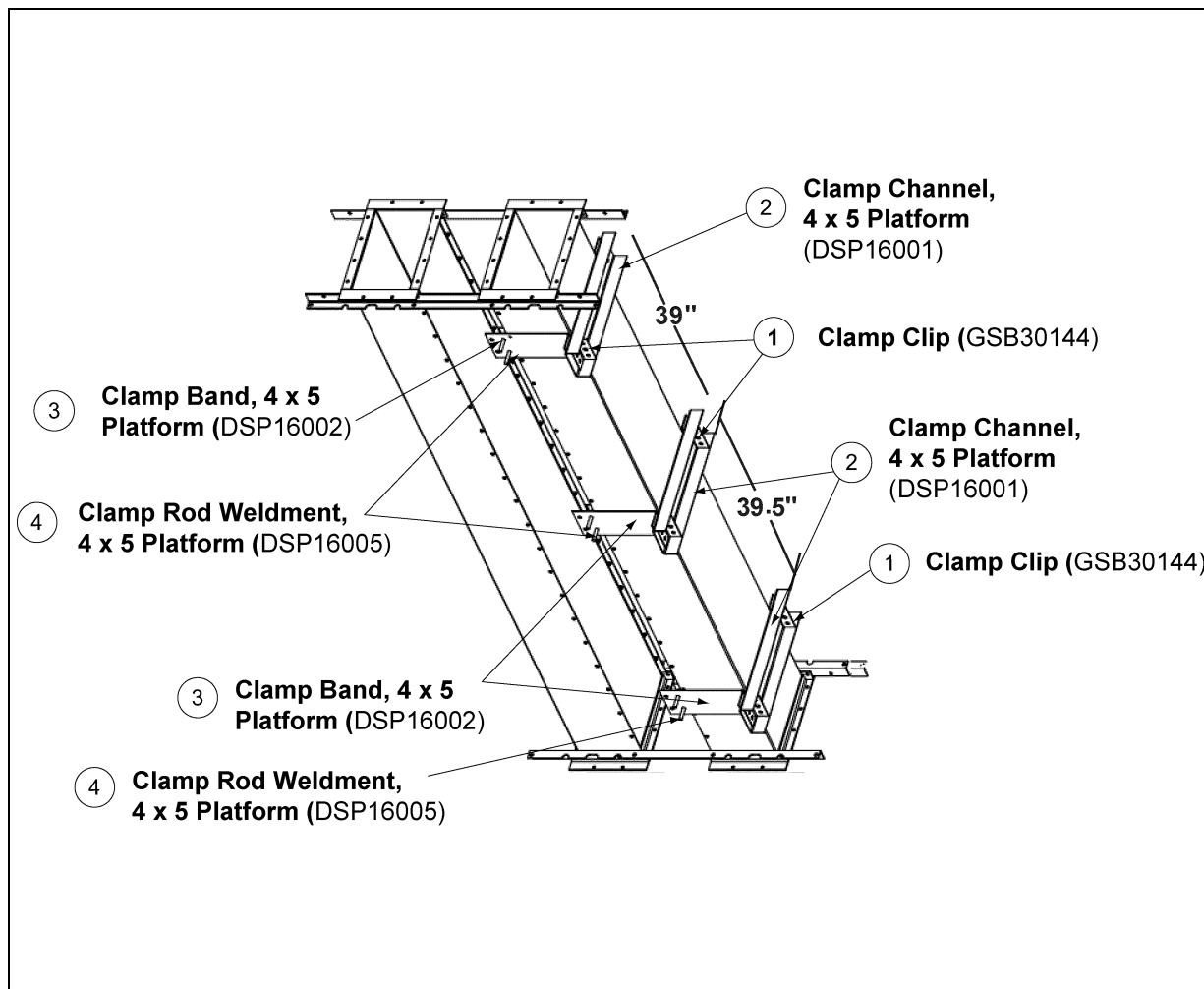


Figure 8A

8. 4 X 5 DISTRIBUTOR PLATFORM

Support Channels & Knee Braces

With clamps fastened securely to the trunk, attach the platform support channels to the middle clamp, use 1/2" hardware with this assembly. The knee braces will attach in the upper set of holes on side of support channel and to the lower clamp. Attach knee brace diagonals to bottom side of knee braces. Before tightening hardware the support channels must be perpendicular to the trunk, now tighten all hardware.

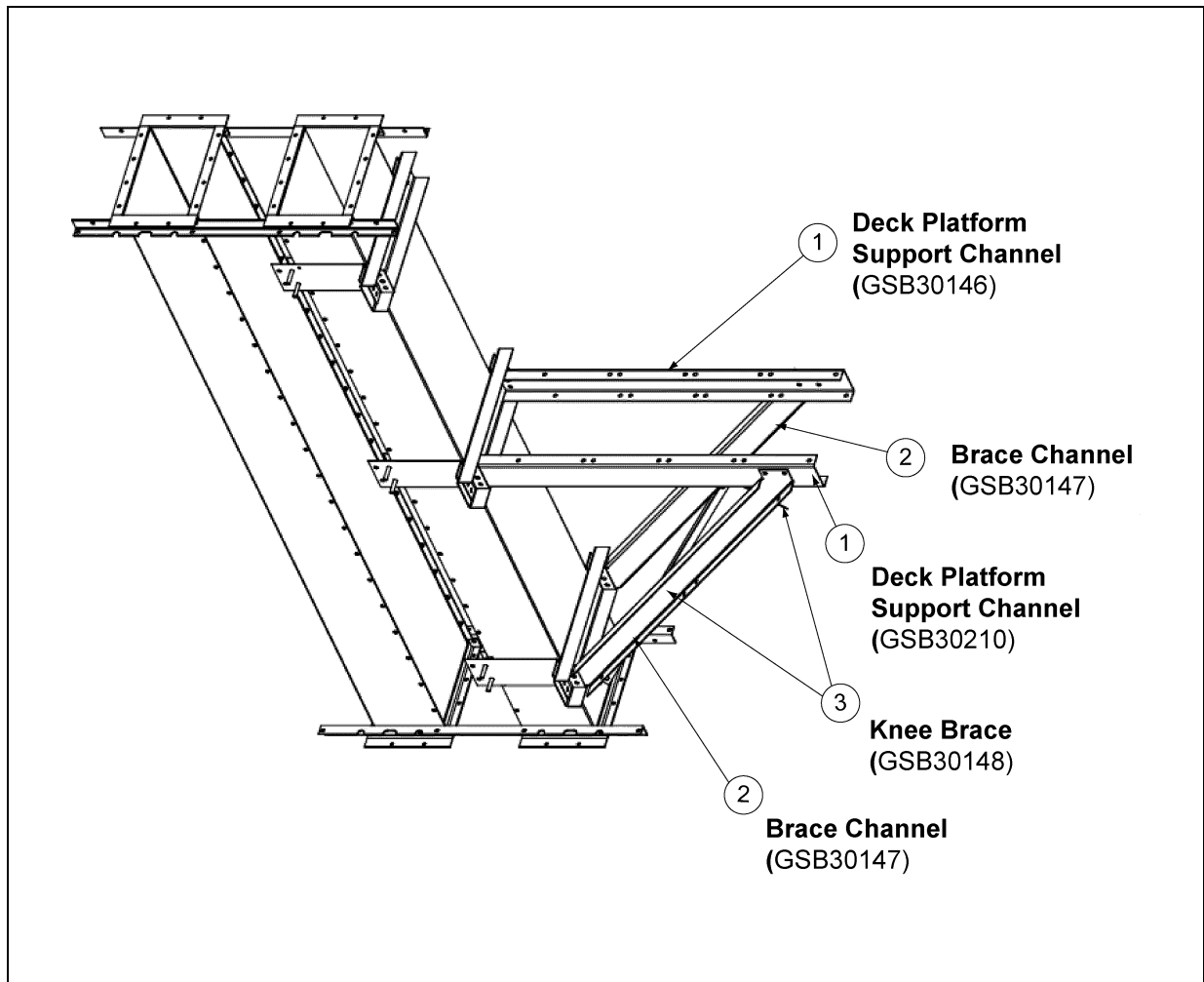


Figure 8B

8. 4 X 5 DISTRIBUTOR PLATFORM

Platform Deck

With support assembly attached to trunk and hardware tightened, proceed with attaching floor deck weldment to the support channels using 1/2" hardware.

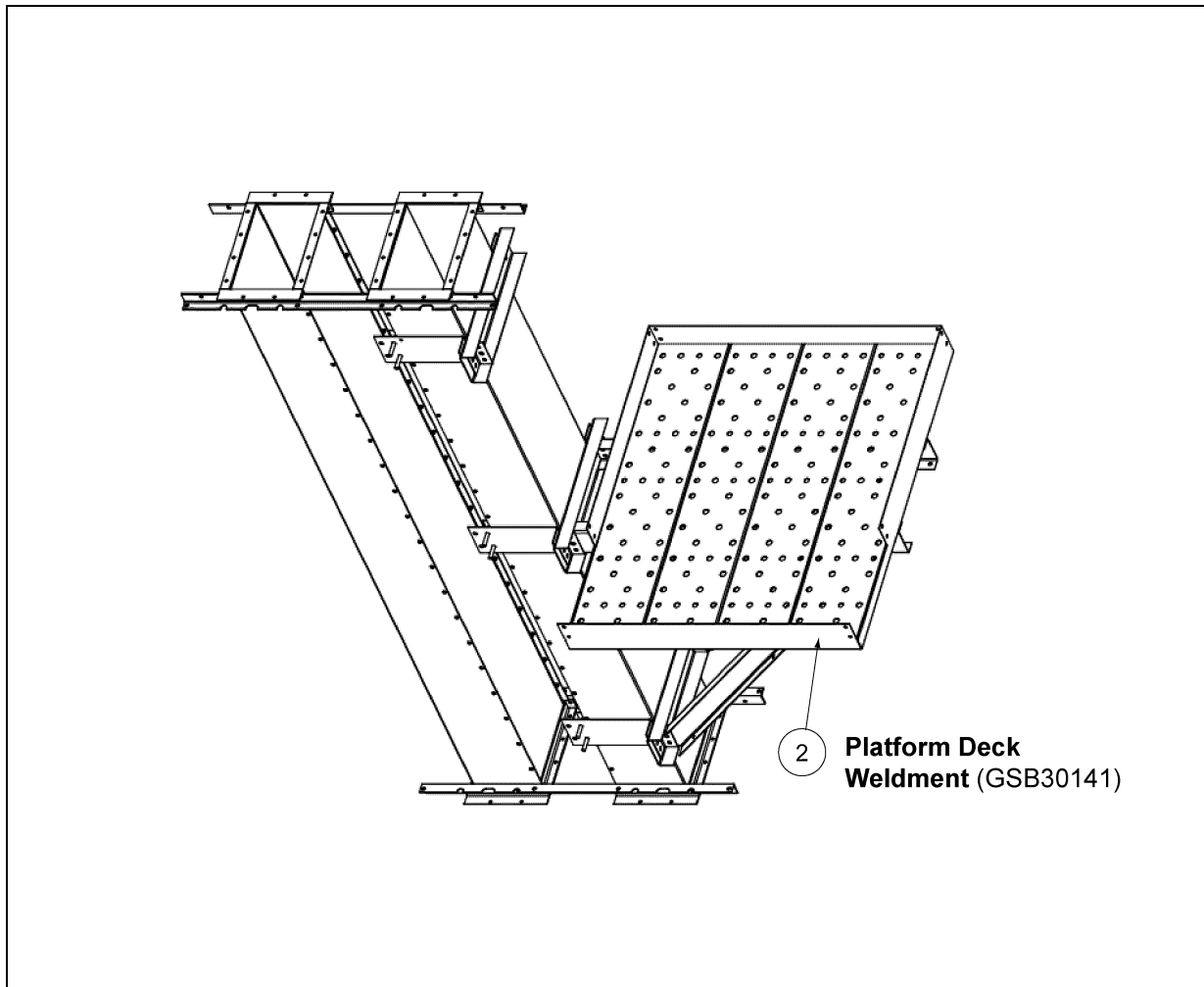


Figure 8C

8. 4 X 5 DISTRIBUTOR PLATFORM

Vertical Posts & Toeboard

Locate the toeboard cover plate and bolt over unused notched toeboard area using 3/8" hardware. Next attach all vertical posts in position shown with 3/8" hardware. Now bolt the handrail brace plate to the vertical post as shown below. Make sure not to tighten hardware till handrail assembly is complete.

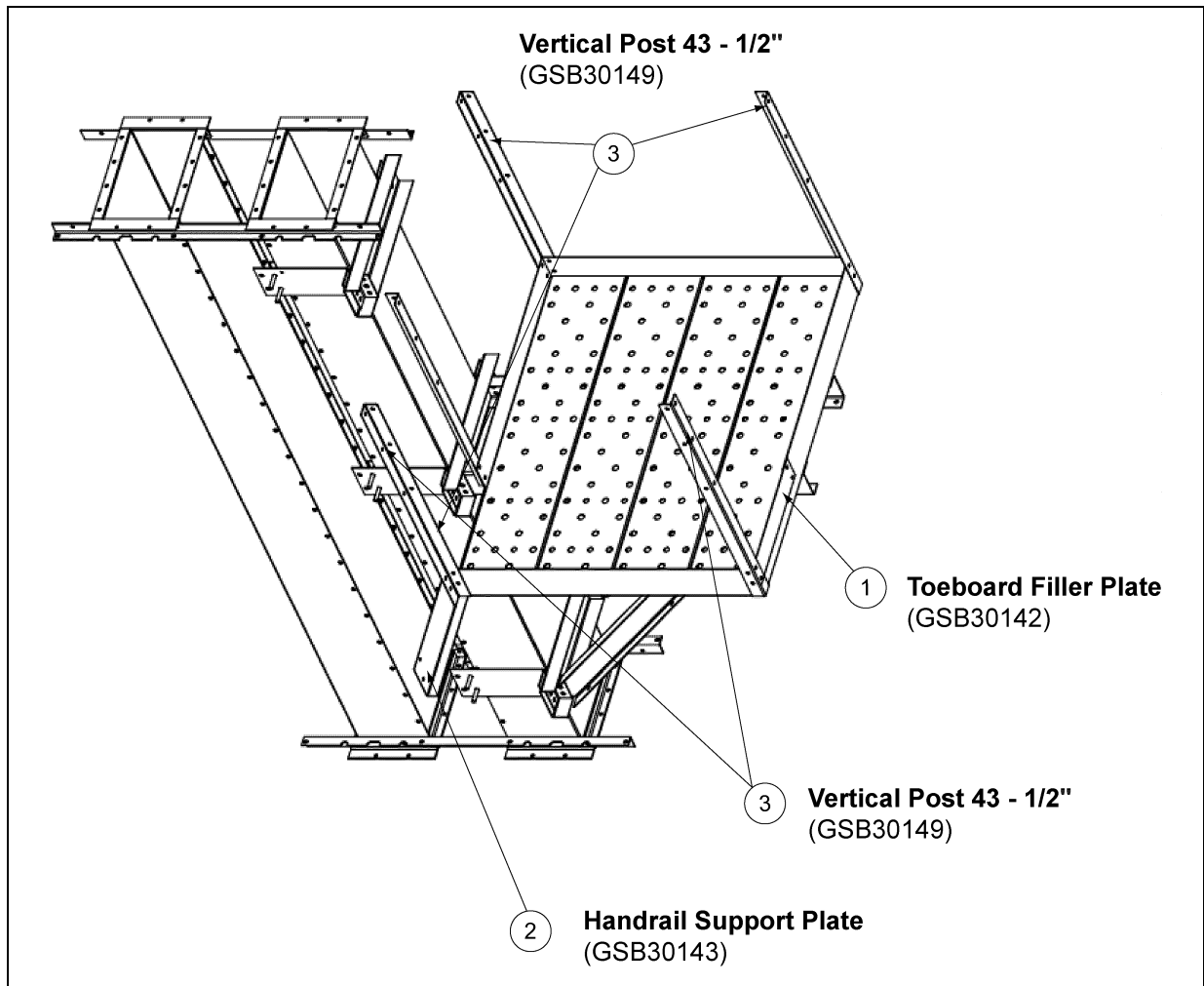


Figure 8D

8. 4 X 5 DISTRIBUTOR PLATFORM

Handrail

Attach all handrails in position shown below using 3/8" hardware. Next attach handrail brace using 3/8" hardware. Now go back and tighten all hardware.

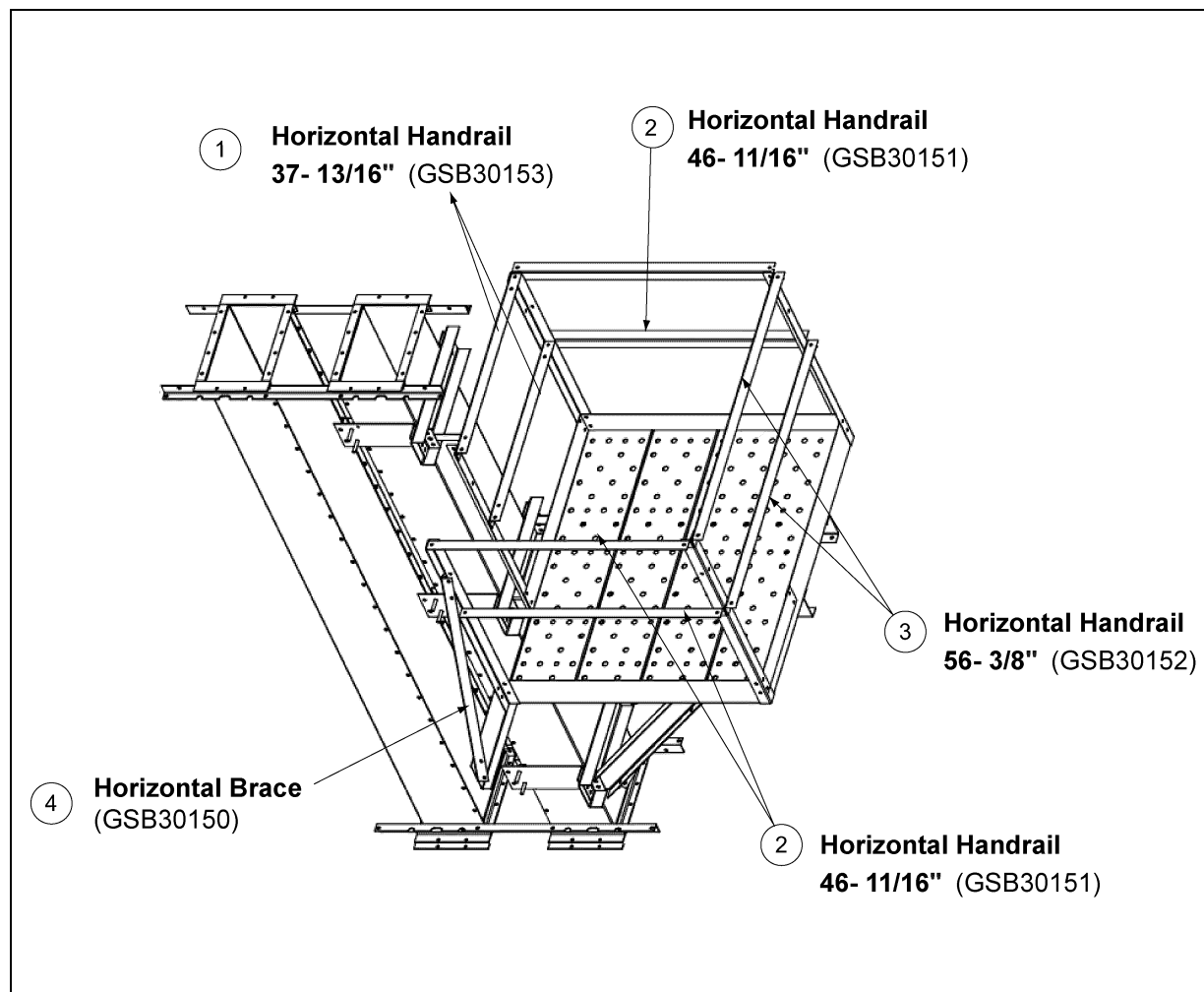


Figure 8E

9. 6 X 6 DISTRIBUTOR PLATFORM

Platform Clamps

This assembly is designed to be located at any elevation on trunking that's needed to provide access to other equipment. Determine elevation of platform surface and work from there. Locate all parts required for assembly by using the charts shown in the following figures.

Locate all clamp halves, clamp brackets, threaded rods, and hardware to assemble clamps onto the trunking. Measure the distance between the clamps to assure proper location for support channels and knee brace attachment. See clamp detail for hardware orientation. Place 5/8" nuts and lock washers on a threaded rod (one from each end). Place a clamp half on each end of the rod and thread another nut and lock washer to hold clamp in place. Now place that assembly around trunk and place a clamp bracket onto the opposite end of the clamp assembly and use 1/2" hardware to fasten parts together. Adjust the position of the inside nuts of the rod assembly to allow the clamps to be tightened onto the trunking.

**Note: Tighten clamps onto trunking, do not overtighten and collapse the trunking.
Position inside nuts back to the clamp and tighten.**

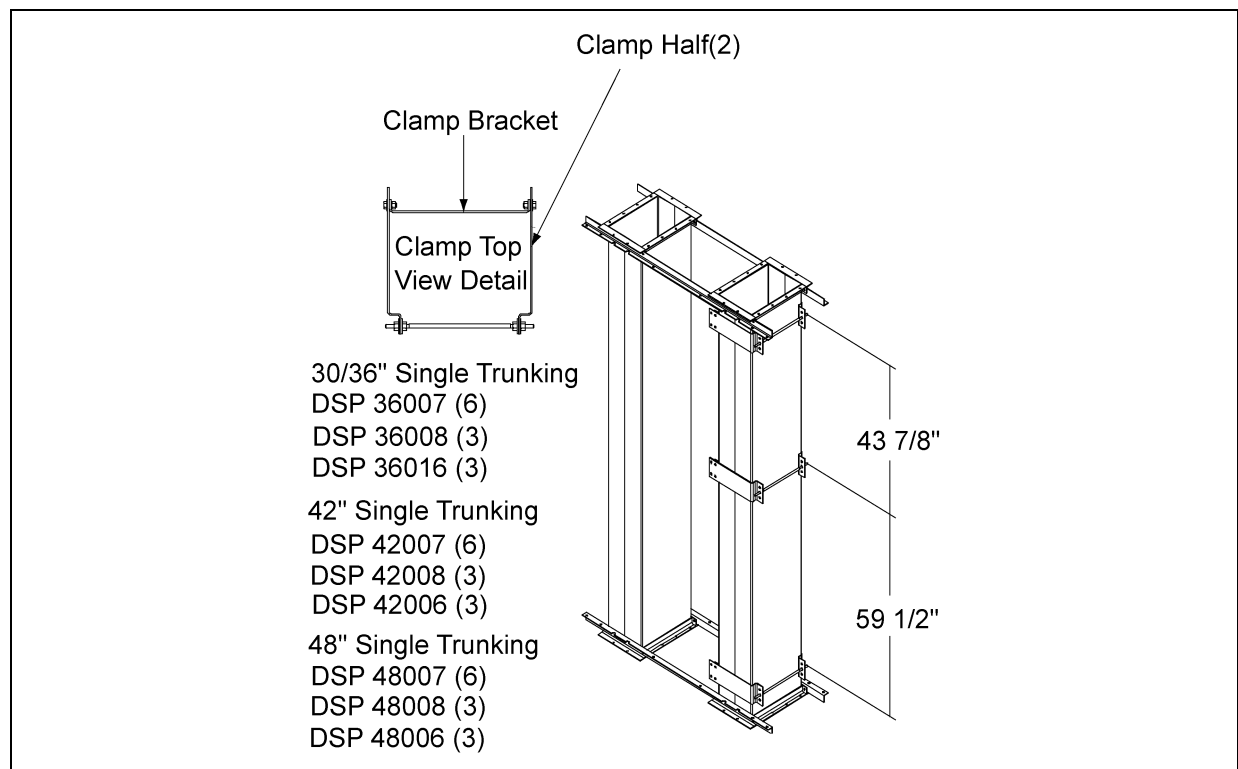


Figure 9A

9. 6 X 6 DISTRIBUTOR PLATFORM

Support Channels & Knee Braces

With clamps fastened securely to the trunk, attach the platform support channels to the middle clamp, use 1/2" hardware with this assembly. The knee braces will attach in the upper set of holes on side of support channel and to the lower clamp. Before tightening hardware the support channels must be perpendicular to the trunk, now tighten all hardware. The toeboards will not be centered on trunking but should be offset to the ladder side. The platform is designed to work for either side of trunking access.

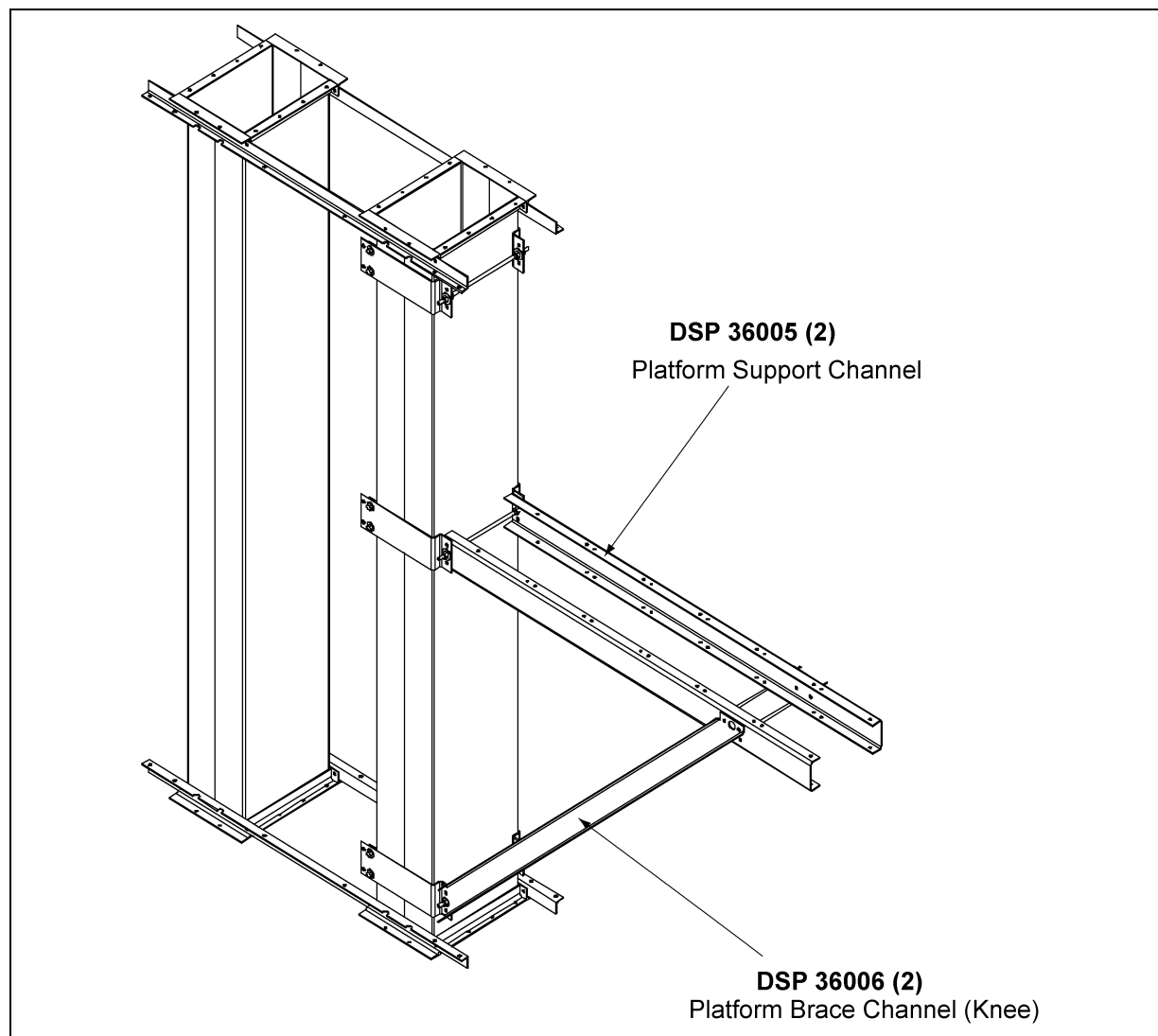


Figure 9B

9. 6 X 6 DISTRIBUTOR PLATFORM

Toeboards

With support assembly attached to trunk and hardware tightened, proceed by attaching the notched toeboard and unnotched toeboard to the top of the support channel using the 5/16" hardware provided. (Leave hardware loose) ([See Figure 9D](#)).

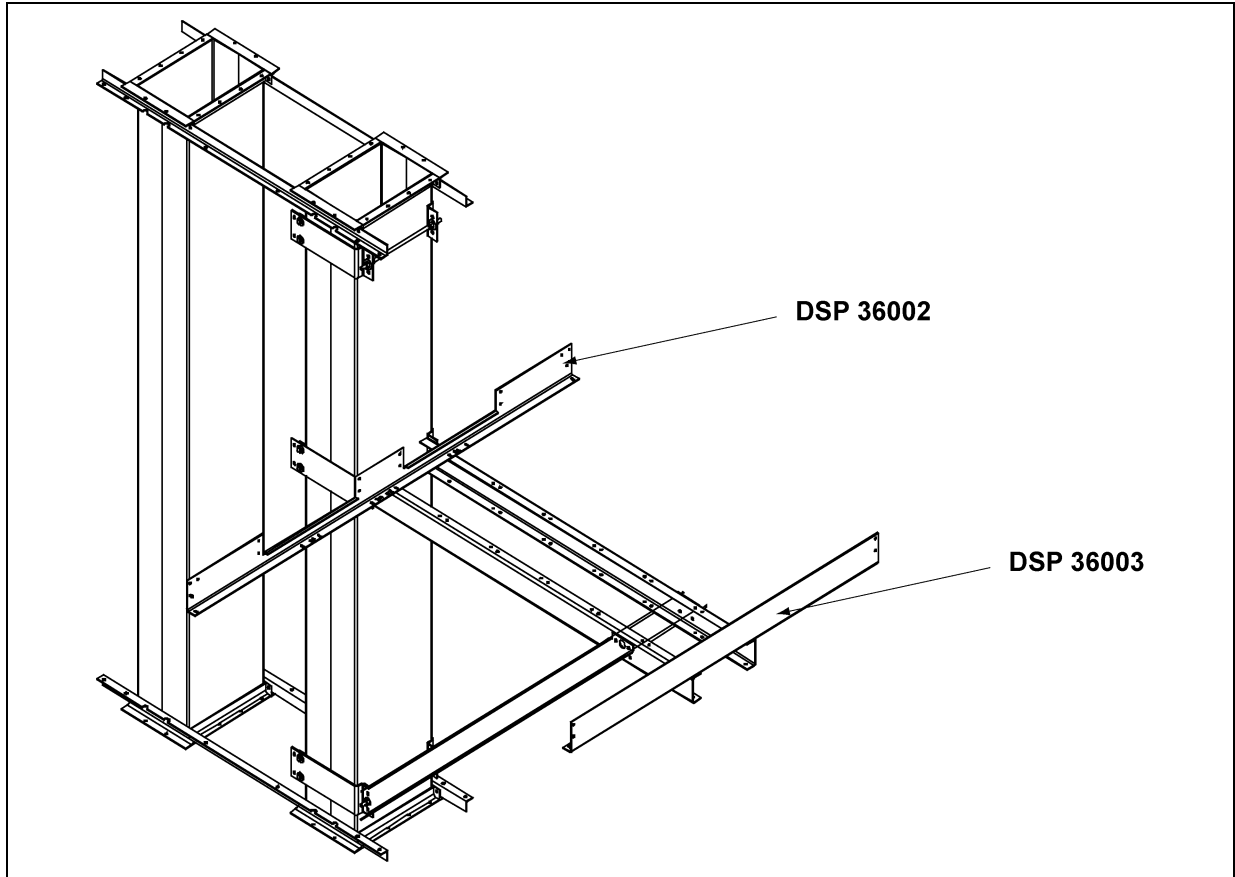


Figure 9C

9. 6 X 6 DISTRIBUTOR PLATFORM

Platform Decking

Attach the floor deck panels to the support channels. Then attach end toeboards to the platform decking with the 5/16" hardware provided. After all pieces have been attached and positioned properly, tighten all hardware.

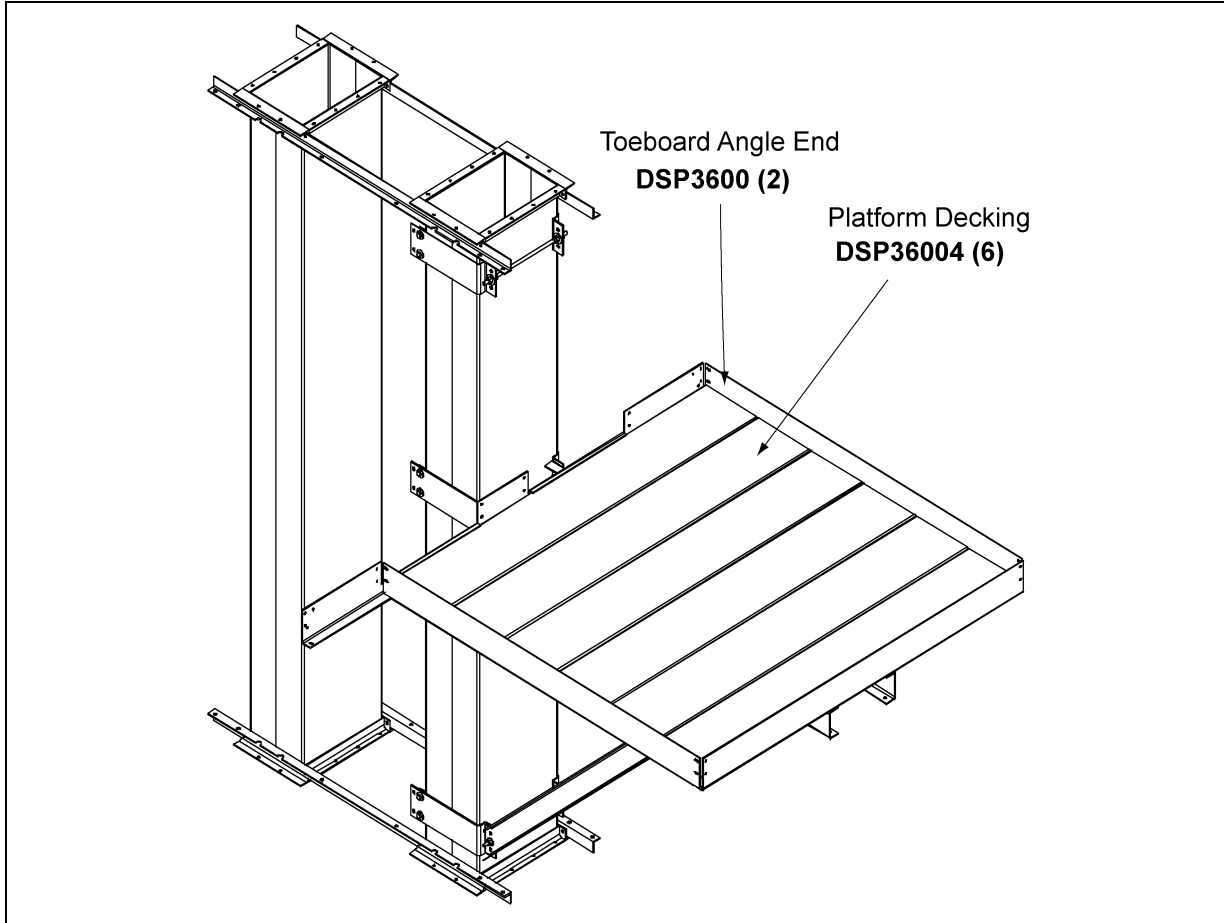


Figure 9D

9. 6 X 6 DISTRIBUTOR PLATFORM

Handrails

Locate the toe board cover plate (DSP36001) and bolt over the unused notched toe board area. Attach handrail posts to the toe boards as shown using the 5/16" hardware provided. (Leave hardware loose until all handrails are in place). Attach all handrail angles and brace angle. (See Figure 9F). After all pieces have been attached go back and tighten all hardware. See Chart below for part numbers and lengths of all handrails.

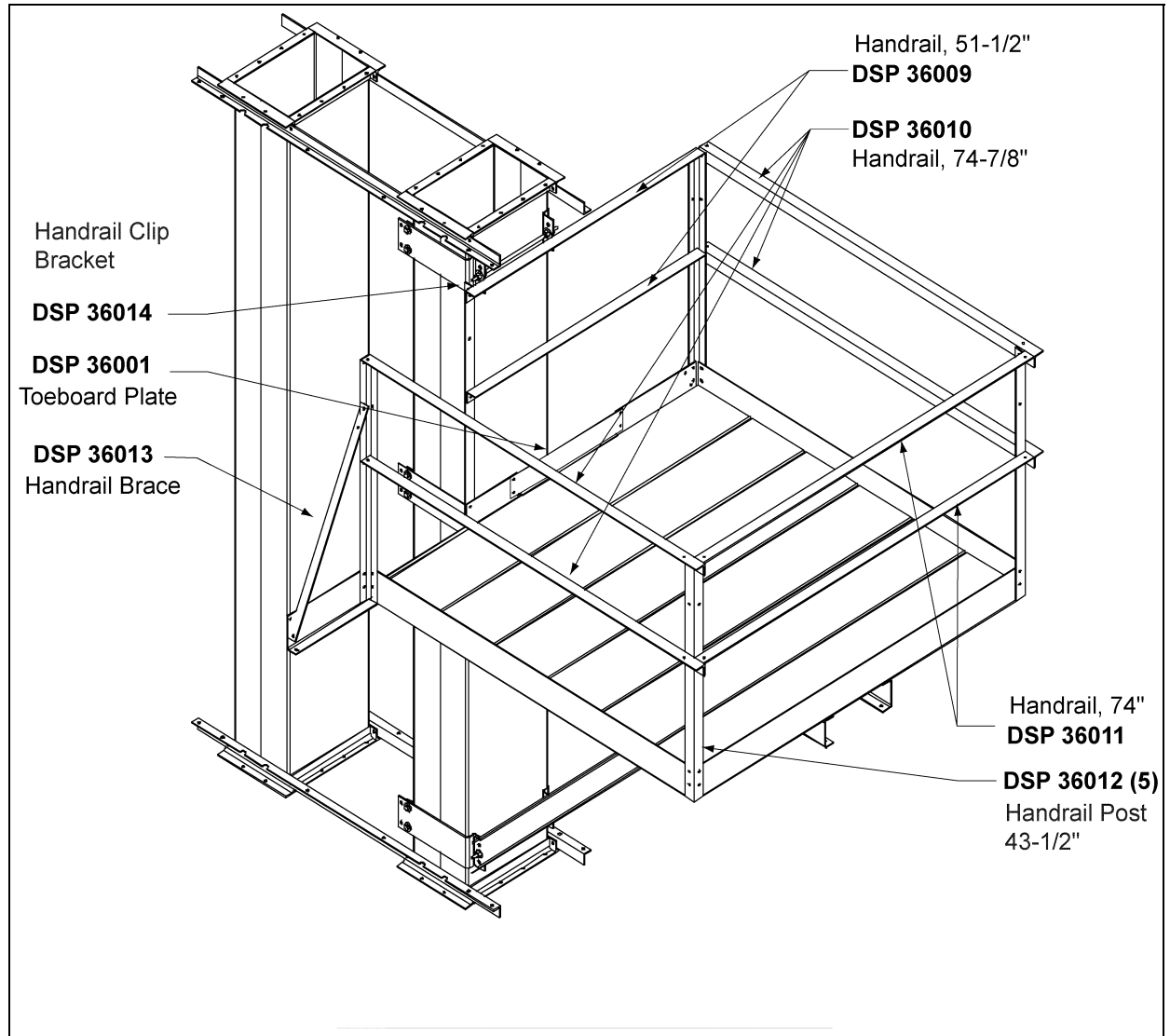


Figure 9E

Model Size	
Handrail	DSP36009 - 51.1/2"
Handrail	DSP36010 - 74.7/8"
Handrail	DSP36011 - 74"
Post	DSP36012 - 43.1/2"
Brace	DSP36013 - 37.3/4"

9. 6 X 6 DISTRIBUTOR PLATFORM

Crossbraces for Knee Braces

Attach knee brace diagonals to bottom side of the knee braces, this will add extra stability to the distributor platform (See Figure 9F).

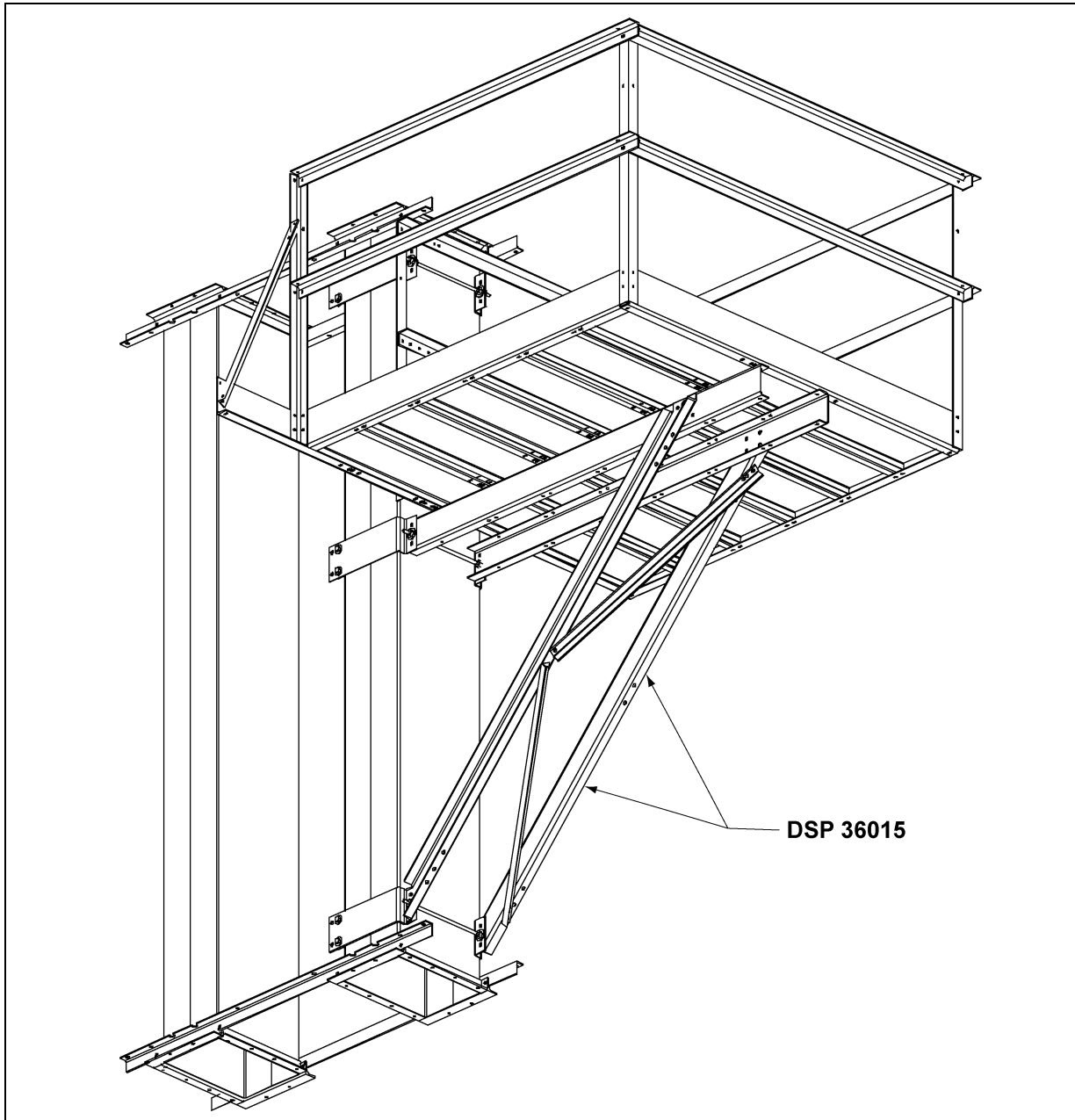


Figure 9F

NOTES

10. Warranty

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This equipment shall be installed in accordance with the current installation codes and applicable regulations which should be carefully followed in all cases. Authorities having jurisdiction should be consulted before installations are made.

G S I G R O U P



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