PRAIRIE VIEW INDUSTRIES MODULAR RAMP SYSTEM ASSEMBLY MANUAL



Prairie View Industries

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SECTION: OVERVIEW

APPEARANCE: The PVI Modular Ramp System with handrail has a clean uncluttered appearance that will fit in most surroundings.

LOW MAINTENANCE: All aluminum design has lifetime durability in all kinds of climates without periodic painting or renewal of preservatives. The aluminum alloys used are resistant to salt corrosion (noncorrosive or pet safe salt is recommended). The modular ramp system may even be used in coastal areas and cold climates that require the use of deicers.

SEMI PERMANENT: The PVI Modular Ramp System serves the purpose as well or better than a permanent concrete ramp, but can still go along with the user if they move, or can be removed and resold when no longer needed. The PVI Modular Ramp System is designed to be freestanding and completely independent of the existing structure. In most cases this simplifies compliance with local codes and may eliminate the requirement for a permit.

FLEXIBLE COMPONENTS: If or when the PVI Modular Ramp System is moved it is easy to add to, subtract from, or reconfigure the PVI Modular Ramp System to a new location. This feature makes the PVI Modular Ramp System attractive to lease/rental opportunities that may be available with insurance companies serving rehabilitation needs. For this reason, it is best to use standard and/or existing components when possible. Custom designs are available but will add to cost and slow delivery time. Custom components are non-returnable.

EASY INSTALLATION: The components of the PVI Modular Ramp System are designed to be quickly and easily assembled with simple/common hand tools and set into place without the need for heavy construction equipment. A van, pickup, or small trailer is all that is needed to transport the ramp components to the job site.

SHIPPING: The PVI Modular Ramp System components are stocked and warehoused so in most cases an order can be quickly filled and shipped. The lightweight aluminum design and plant location make it economical to ship to any part of the country.

COMPONENTS:

RAMPS

WIDTH: Standard width 36" LENGTH: Minimum length 48" entrance ramp/24" top ramp RAMP SURFACE: Aluminum planking with lateral grooves. CURBING: 4" high standard curb. SLOPE: Adjustable from 1on12 to 2on12.

LANDINGS

LANDING BASES: Standard sizes 4x4(50.375"x50.375"), 4x5(50.375"x62.375"), & 5x5(62.375"x62.375"). Bases can be connected to make 4x8, 5x8, & 5x10. SURFACE: Aluminum planking with lateral grooves and knurl. HEIGHT: Minimum height of 3"/Maximum height of 60" LOAD CAPACITY: 100 lb./sq. ft.

LAYOUT CONSIDERATIONS

NOTE: ADA COMPLIANCE IS USUALLY OPTIONAL (GUIDELINE ONLY) FOR RESIDENTIAL APPLICATIONS.

SLOPES: The ADA recommends a slope of 1on12 when possible. However, when space is limited or other considerations require a steeper ramp, the PVI Modular Ramp System will accommodate slopes up to 2on12. When selecting the slope of the ramp the capabilities and safety of the users and their equipment must be considered.

HANDRAIL: ADA requires handrail on any system with a rise of 6" or more. All PVI Modular Ramp Systems require handrail. Ramps and landings will not be sold without handrail for safety reasons as well as the overall design of the ramp system.

RAMP CONFIGURATIONS: The usable width of the ramp is 36" with the overall width of the ramp being 42". The length of the individual ramp segments are as follows:2', 3', 4', & 5'. The segments are used to make lengths from 4' and longer in 1' increments.

RAMP AND LANDING ASSEMBLY: Complete detailed assembly instructions are included with each PVI Modular Ramp System. Assembly time for ramps is approximately one-man hour per 20 feet of ramp length. Assembly time for landings is approximately ½ man hour per landing base. The PVI Modular Ramp System can be assembled into sub-assemblies for easy transport to the job site. Site preparation, transportation, and anchoring time are not included.

NOTE: DURING ASSEMBLY DO NOT TIGHTEN HARDWARE ALL THE WAY UNTIL ASSEMBLY IS COMPLETE.

FOOTING AND ANCHORING: The PVI Modular Ramp System is designed to be a freestanding, independent structure that does not have to be permanently attached to the building it serves. Each supporting leg is independently adjustable to allow for varying ground conditions. Adjustments due to settling or heaving can be made with a ratchet. Landings must have a minimum of one leg anchored on each of the two opposite sides. Each freestanding ramp must be anchored at the upper and lower end. Anchoring may consist of lag screws or bolts into existing concrete, precast pads, patio pavers or poured in place.

SECTION: OVERVIEW

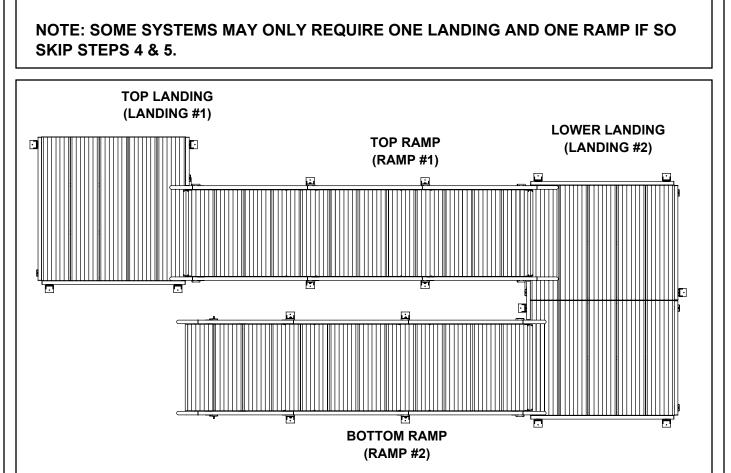
PVI MODULAR RAMP SYSTEM ASSEMBLY STEPS

STEP 1: Unpack all components and make sure all components on the packing list are present.

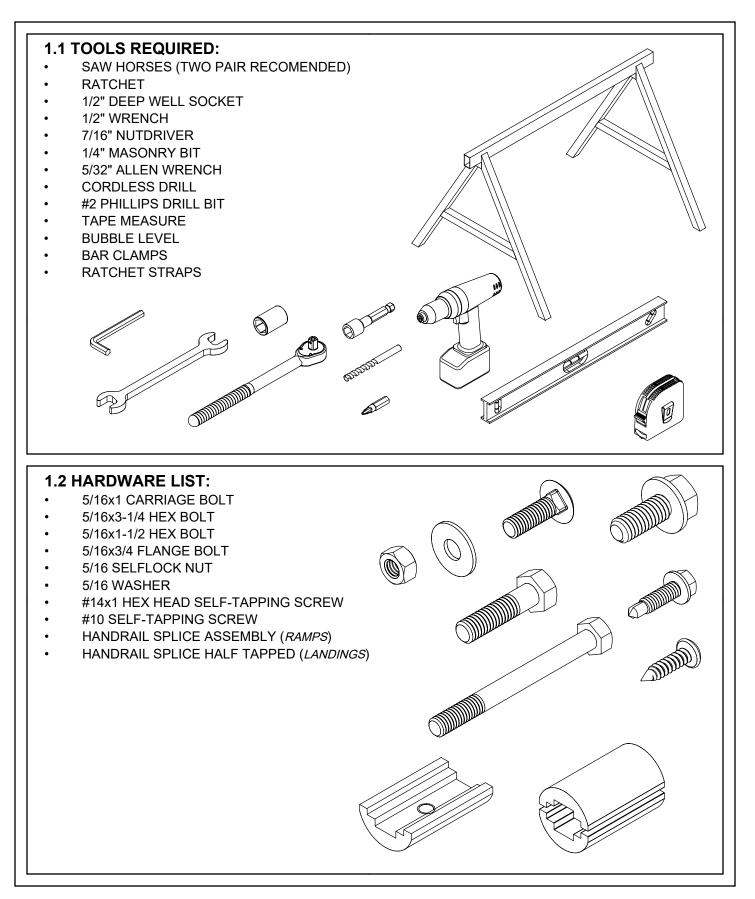
STEP 2: Assemble top landing/landing#1.

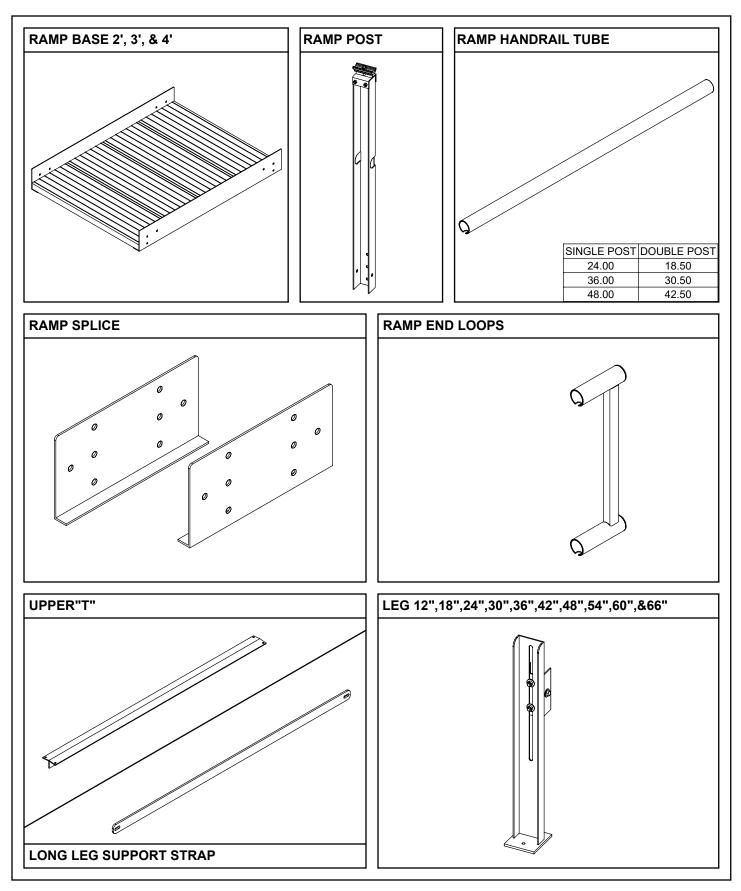
- (a) Select landing configuration.
- (b) Fully assemble landing with provided components.
- (c) Set in place and level.
- STEP 3: Assemble top ramp/ramp#1
- STEP 4: Assemble lower landing/landing#2.
- **STEP 5:** Assemble bottom ramp/ramp#2.

STEP 6: Check all hardware to ensure all hardware is tight.

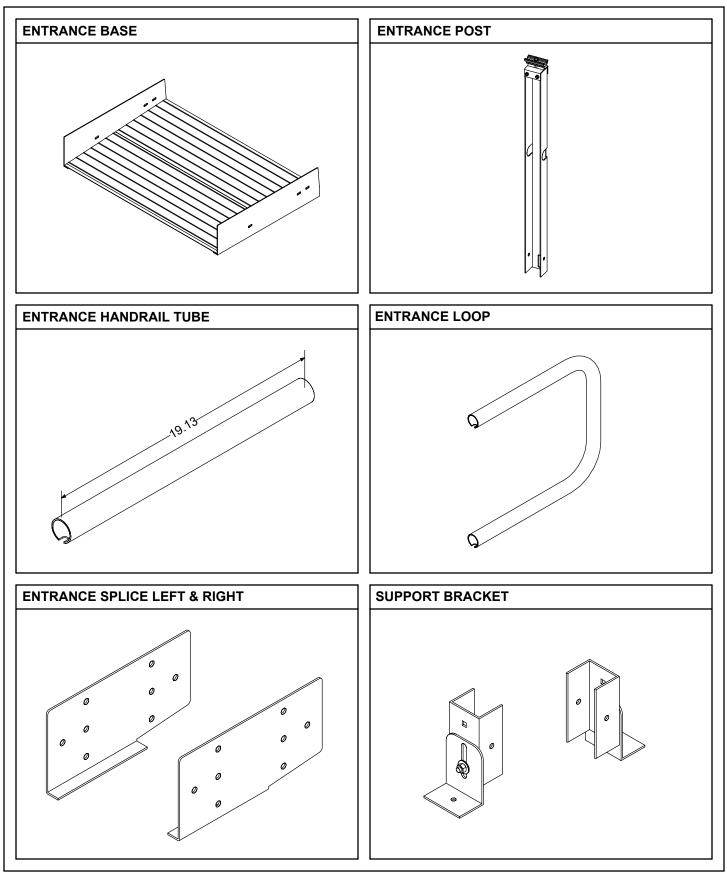


SECTION 1:TOOLS & HARDWARE

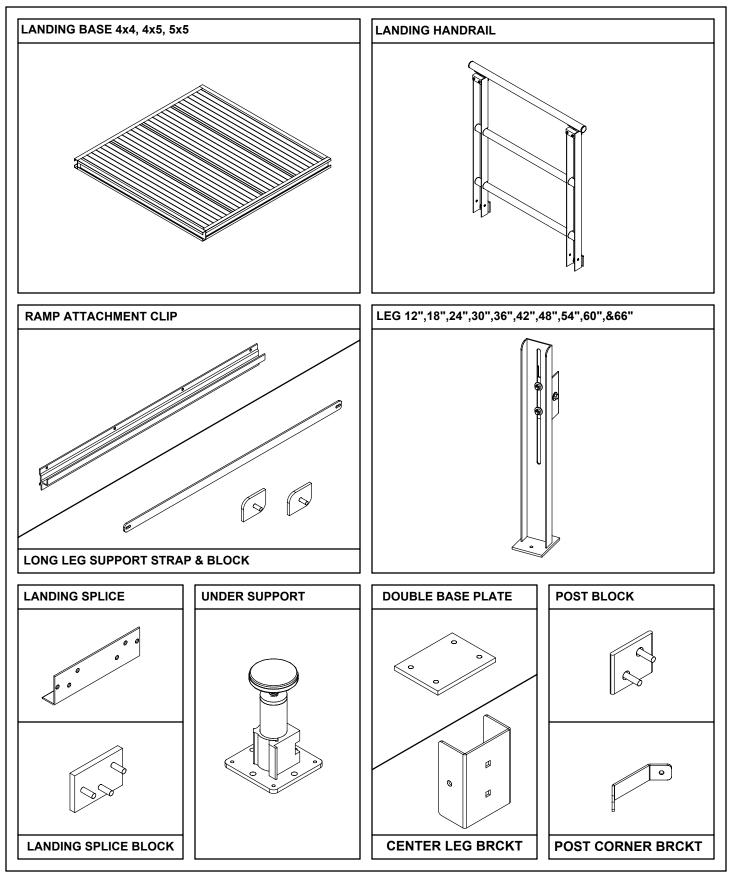




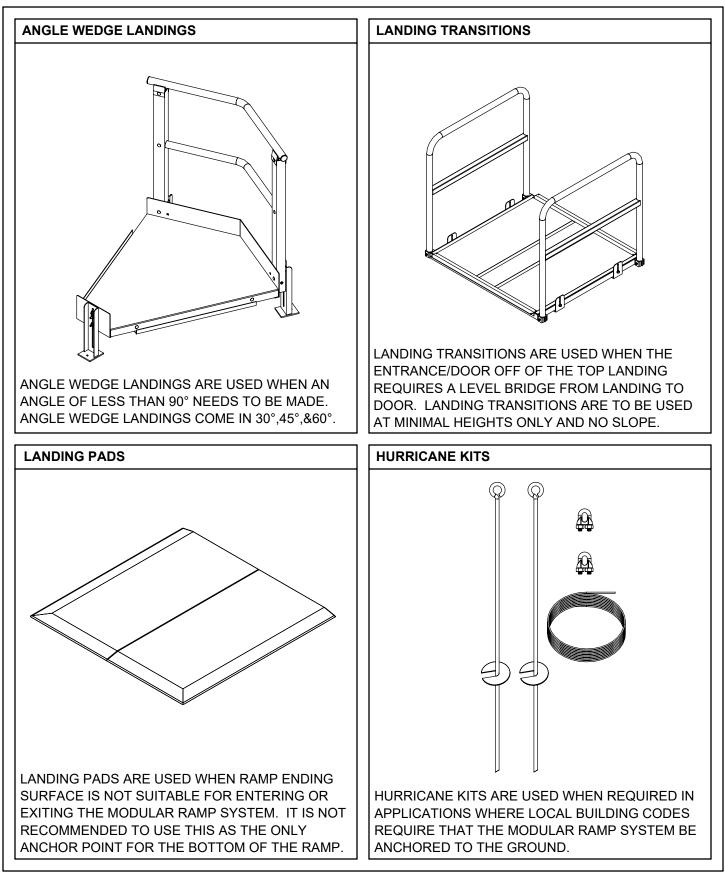
2.2 ENTRANCE PARTS



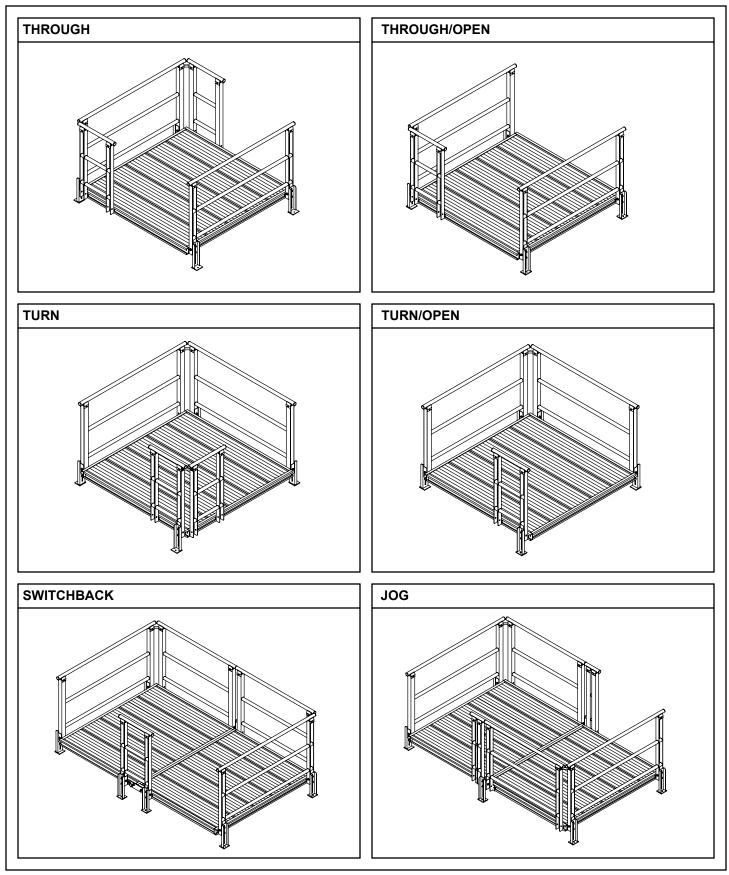
2.3 LANDING PARTS



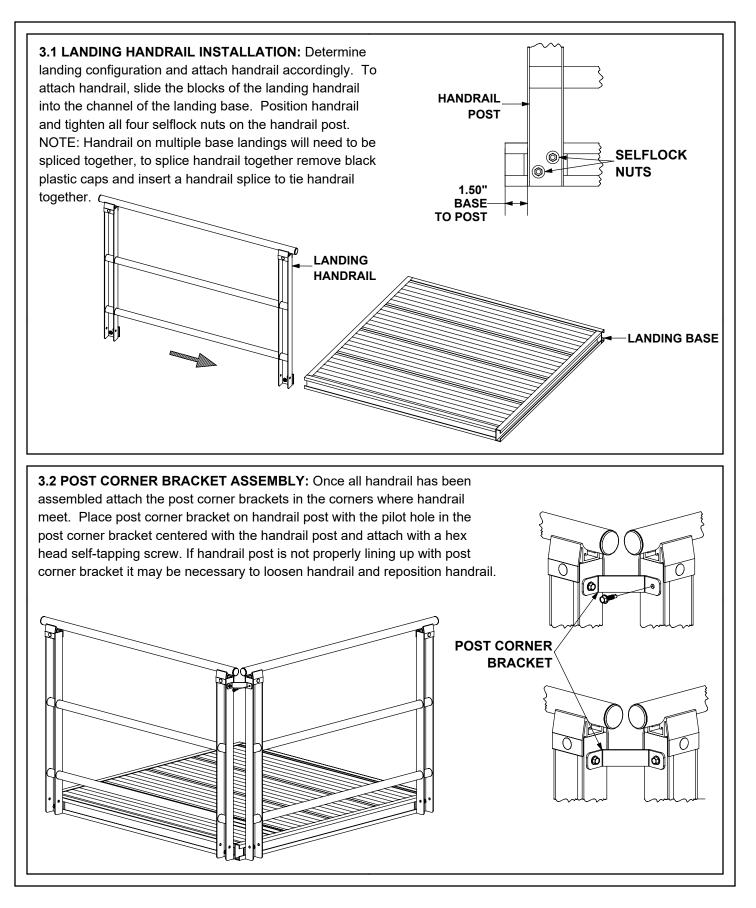
2.4 OPTIONAL PARTS



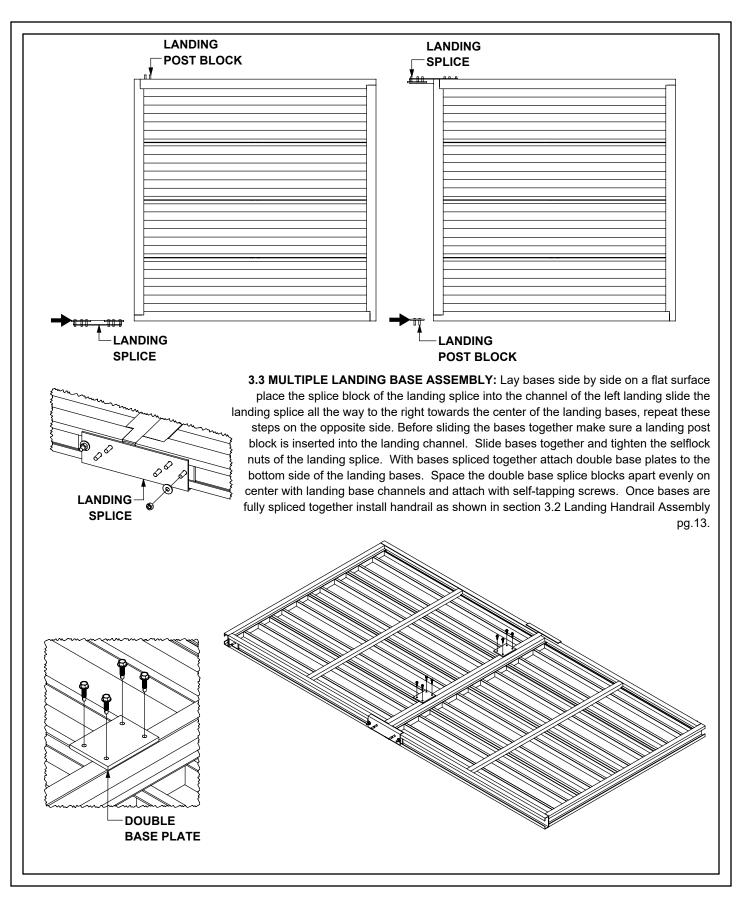
2.5 LANDING CONFIGURATIONS



SECTION 3:LANDING ASSEMBLY



SECTION 3: LANDING ASSEMBLY



SECTION 3: LANDING ASSEMBLY

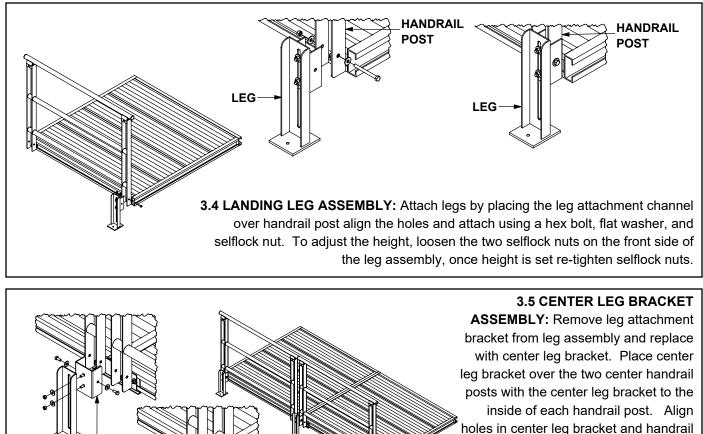
I FG

CENTER LEG

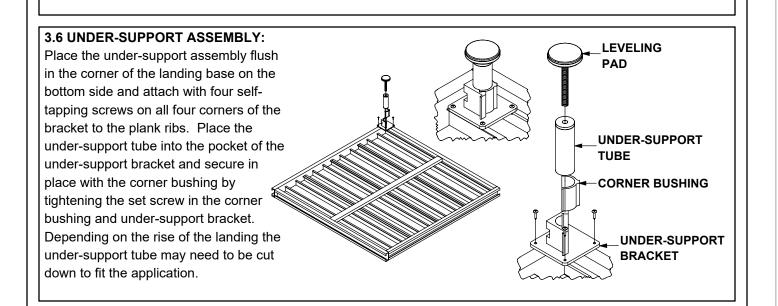
BRACKET

LEG

CENTER LEG BRACKET

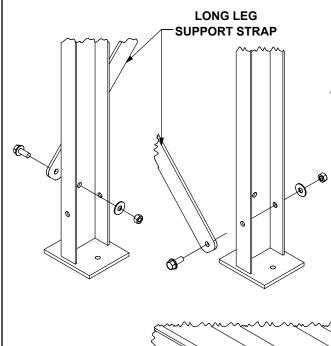


inside of each handrail post. Align holes in center leg bracket and handrail posts and fasten with flat washers, hex bolts, and selflock nuts. To adjust the height, loosen the two selflock nuts on the front side of the leg assembly, once height is set re-tighten selflock nuts.



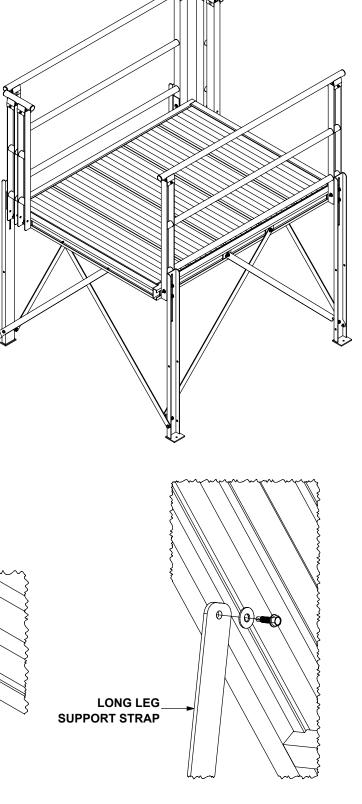
SECTION 3: LANDING ASSEMBLY

3.7 LONG LEG SUPPORT LANDING ASSEMBLY: Landings exceeding a height of 26" will require long leg supports. This will require two straps per side of landing. Depending on leg orientation the straps will either be attached to the back of the leg or to the side of the leg using a flange bolt, flat washer, and selflock nut. To attach long leg support straps to the landing base, insert a long leg support block into the channel with the press fit bolt towards the outside of the landing base. Turn the long leg support block a half turn and attach long leg support straps with a flat washer and selflock nut. At ramp locations the long leg support straps will be attached to the landing base using self-tapping screws. Place straps inside of landing base channel and attach with flat washer, and self-tapping screw.

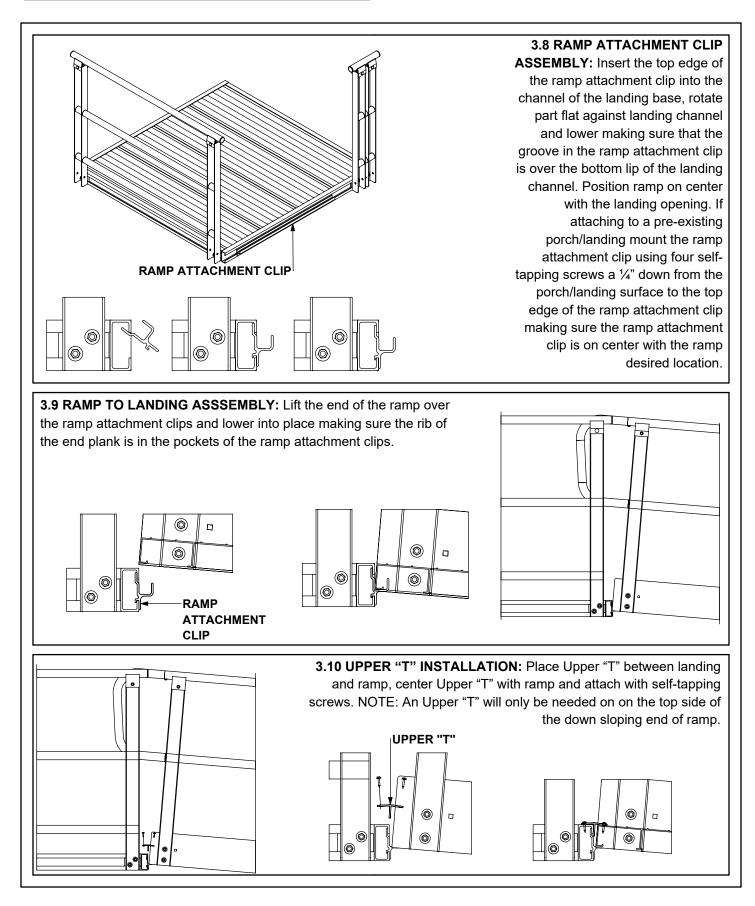


LONG LEG SUPPORT BLOCK

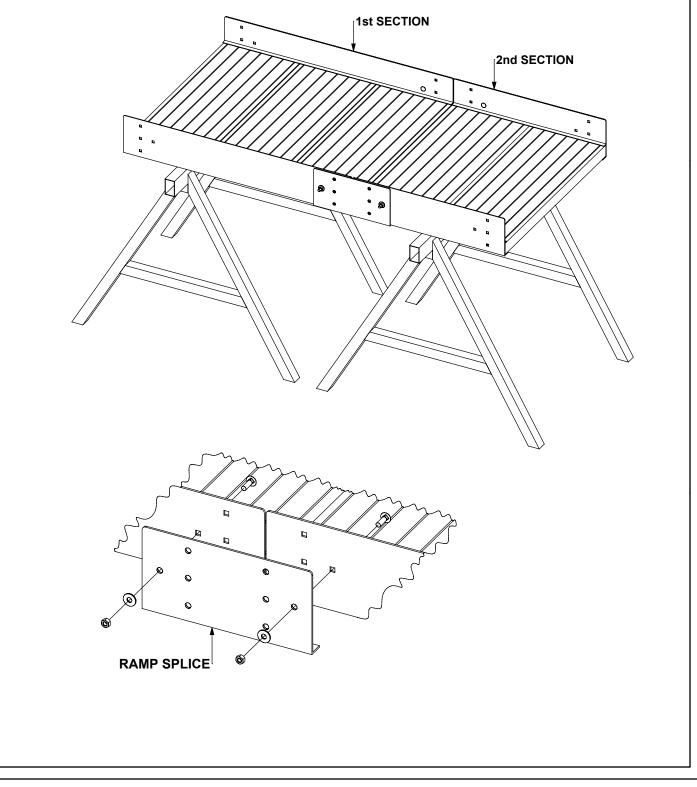




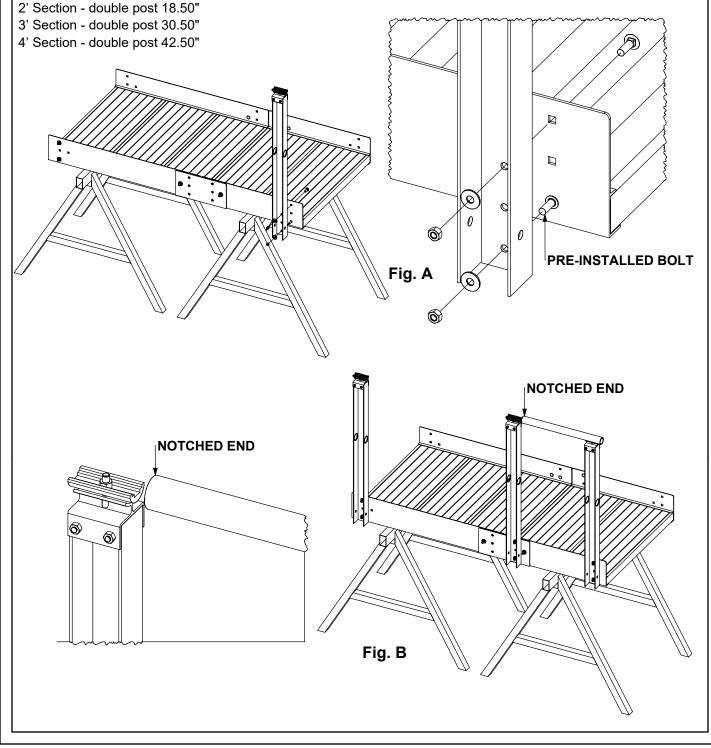
SECTION 3:LANDING ASSEMBLY



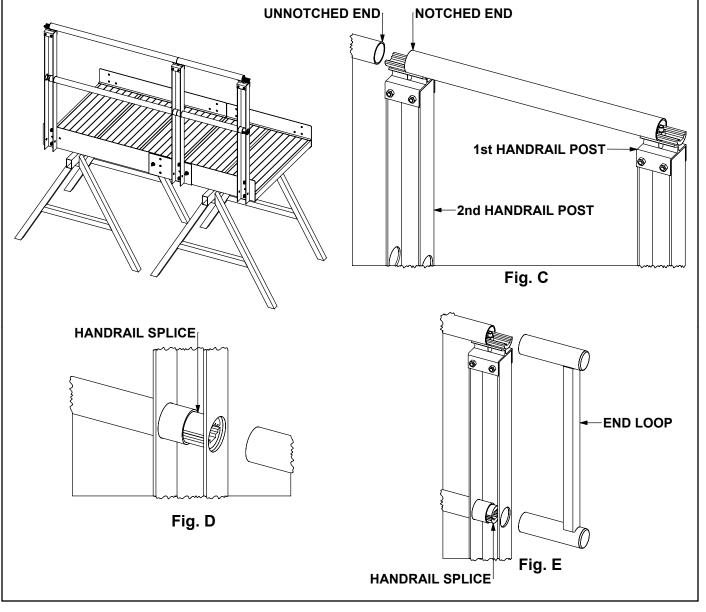
4.1 RAMP BASE ASSEMBLY:Lay ramp sections out in a row, starting with the longest section first down to the shortest. At one end of the first section, attach ramp splices. Ramp splices attach through the single/outside hole location with carriage bolt, flat washer, and selflock nut. Move the second ramp section into place and attach sections together. Repeat this process until the entire ramp run is complete.

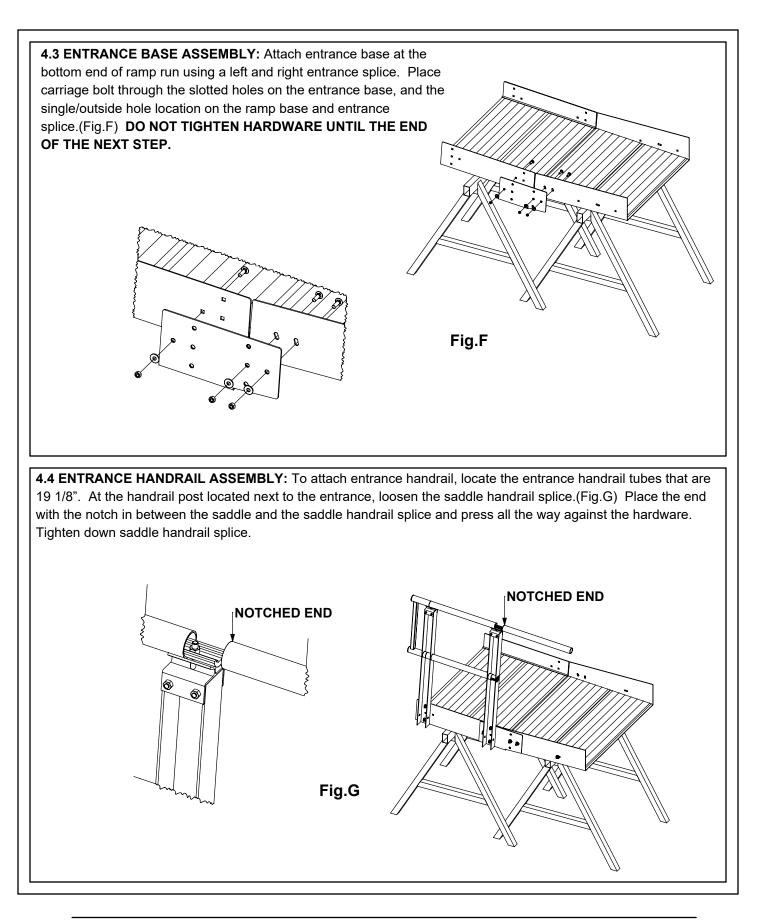


4.2 RAMP HANDRAIL ASSEMBLY: Each ramp run will have a double post section and the rest single post sections. Starting with the shortest section, attach one handrail post assembly to the end of the section on both sides. (Fig.A) Attach with two 5/16" x 1" carr. bolt, flat washer, and selflock nut. IMPORTANT: First post handrail assembly needs to be squared up with base when attaching. Tighten post down. Attach next post handrail assembly at opposite end of the same section. (Fig.B) Do not tighten this post down at this point. Locate corresponding handrail tube to match the double post handrail section. Here are the following lengths:

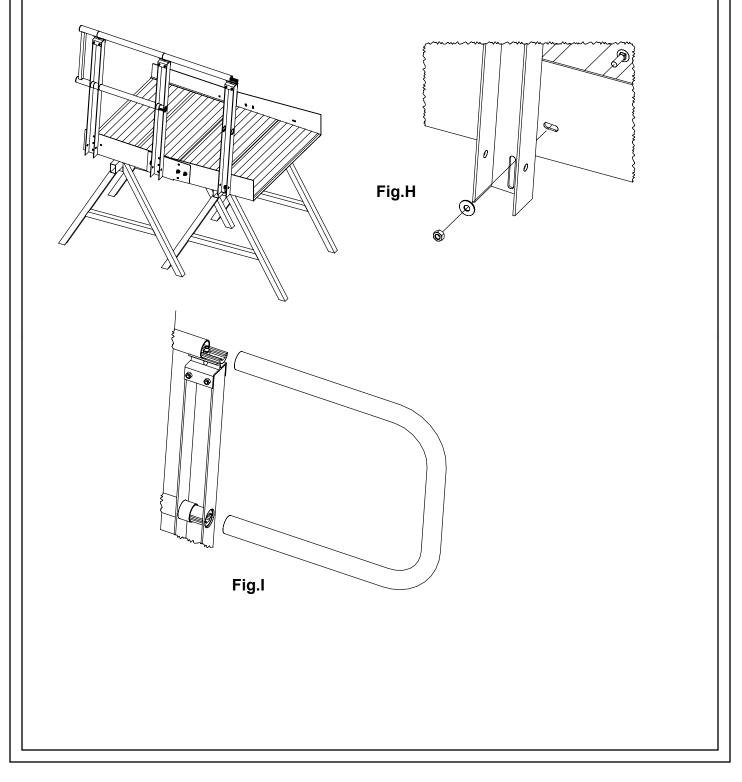


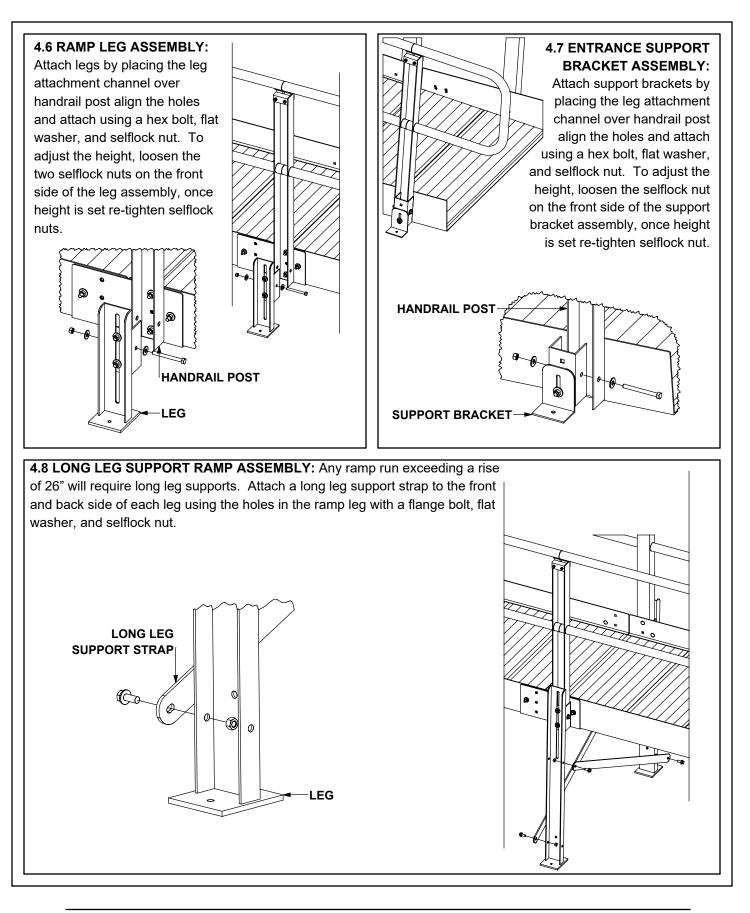
4.2 RAMP HANDRAIL ASSEMBLY (Continued): With the correct tube in hand, place the unnotched end of the tube in the saddle of the first handrail post assembly that is securely tightened.(Fig.C) Be sure the tube is between the saddle and the saddle handrail splice and pressed all the way against the hardware. Tighten the saddle handrail splice down. Take the notched end of the handrail tube and place it in the saddle of the second post. Again, being sure it is between the saddle and the saddle handrail splice. Do not tighten down. The rest of the sections of the ramp run will be single post sections. Continue attaching the top handrail down the ramp in the same way as you did the first with the corresponding handrail tube length for each section. Insert the middle handrail splice in the end. Attach the next handrail post assembly at the end of the next ramp section and repeat this process all the way down the ramp, inserting the corresponding handrail tubes for each section. After each top handrail tube is inserted into the saddle and butted together, tighten handrail splice hardware all the way. Tighten down the handrail splice connecting the middle handrail together.(Fig.D) At the top end of the ramp, attach the required end loop into the saddle and through the middle hole in the handrail post assembly.(Fig.E)





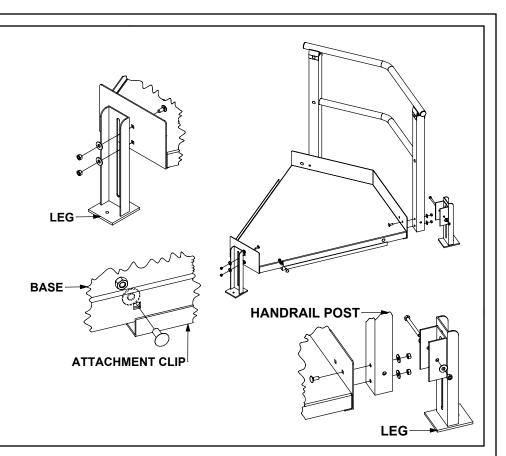
4.4 ENTRANCE HANDRAIL ASSEMBLY: (Continued) Next attach the handrail post to the end of the entrance with a carr. bolt, flat washer, and selflock nut. (Fig.H) DO NOT TIGHTEN ALL THE WAY DOWN. Place the end of the entrance handrail in between the saddle handrail splice and the saddle and tighten down the handrail splice. Next insert the middle handrail tube that is the same length as the top as described in section 4.2. At the top end of the ramp, attach the required end loop into the saddle and through the middle hole in the handrail post assembly.(Fig.I)

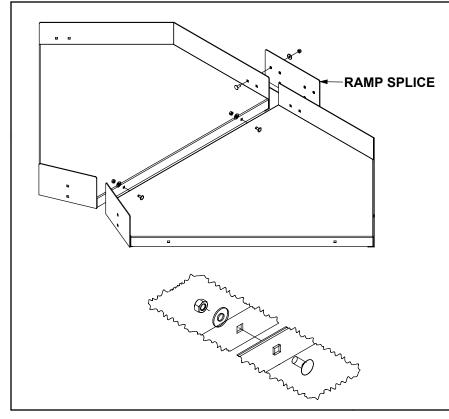




5.1 ANGLE WEDGE LANDING

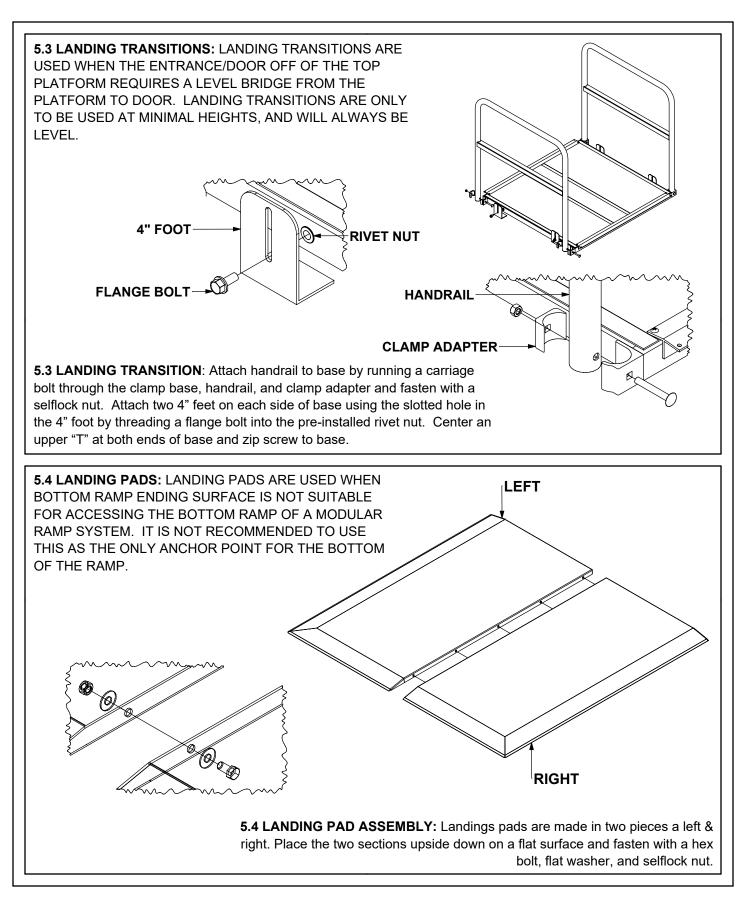
ASSEMBLY: Attach handrail by placing carriage bolts through the square holes of the wedge base and handrail post, fasten with flat washers and selflock nuts. To attach rear legs, place the leg attachment channels over the handrail post align the holes and attach using hex bolts, flat washers, and selflock nuts. To attach front leg place carriage bolts through the square holes of the wedge base and the slotted hole of the leg and fasten with flat washers, and selflock nuts. Attach the ramp attachment clip to the base by placing the attachment clip on the inner lip of the wedge base align holes and fasten with carriage bolts, flat washers, and selflock nuts.

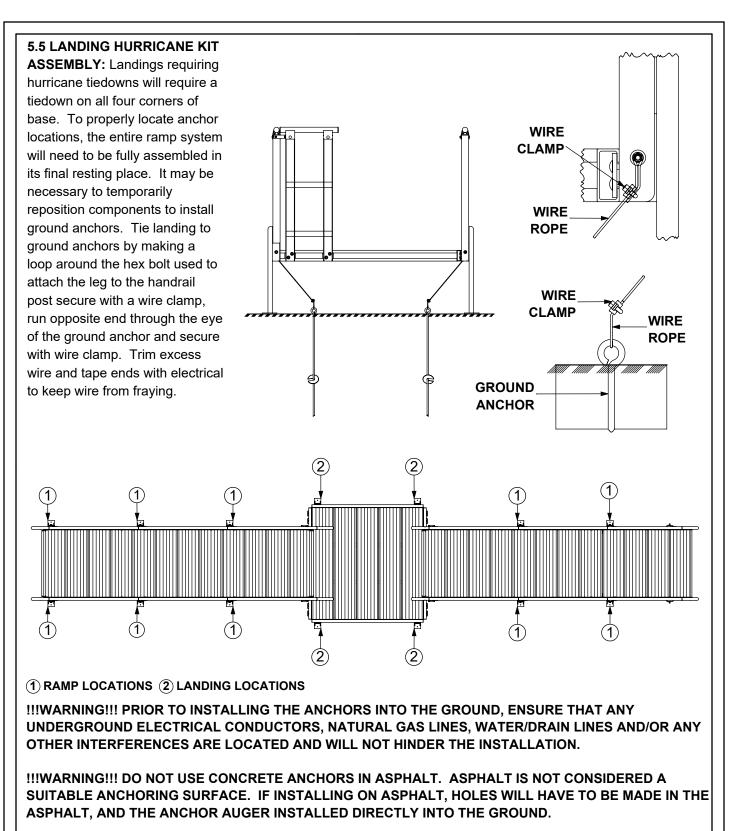




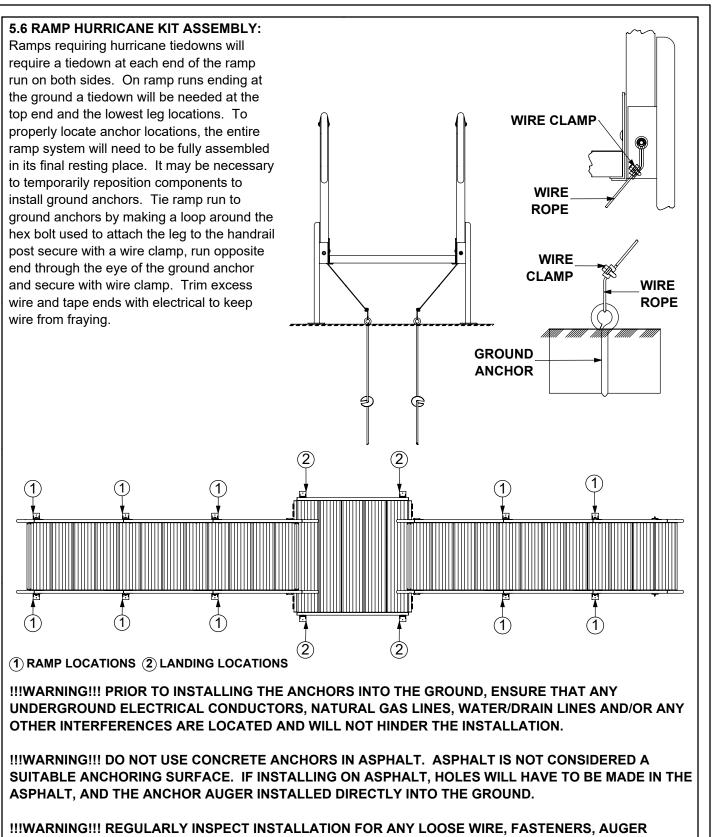
5.2 MULTIPLE ANGLE WEDGE LANDING ASSEMBLY: Multiple

angle wedge bases can be attached to make a variety of turns in various directions with a decreased foot print. To attach angle wedge bases together set side by side and align the two square holes on the side of the bases fasten with carriage bolts, flat washers, and selflock nuts. Use a ramp splice at the outer seam to connect the bases fasten with carriage bolts, flat washers, and selflock nuts. To splice handrail together remove plastic cap and insert a handrail splice to tie handrail together. Attach legs as shown above (see section 5.1).





!!!WARNING!!! REGULARLY INSPECT INSTALLATION FOR ANY LOOSE WIRE, FASTENERS, AUGER ANCHORS, ETC.



ANCHORS, ETC.

PRAIRIE VIEW INDUSTRIES, INC. LIMITED WARRANTY

1. LIMITED LIFETIME WARRANTY-THE FOLLOWING APPLIES TO ALL END PURCHASERS OTHER THAN RESIDENTS OF THE STATE OF CALIFORNIA*:

PRAIRIE VIEW INDUSTRIES, INC. warrants to the original end purchaser of the product is free from defects in material and workmanship under normal use and service. This warranty does not apply to any product that has been subject to misuse, abuse, neglect, alteration, accident, usage not in accordance with the product instructions, acts of God, or improper installation or that has been used for rental purposes or repaired by someone other than PRAIRIE VIEW INDUSTRIES, INC. This warranty does not cover normal deterioration of the product due to wear and exposure.

*(FIVE YEAR WARRANTY-FOLLOWING APPLIES TO RESIDENTS OF THE STATE OF CALIFORNIA: For a period of five years after the purchase of the product by the original end purchaser of the product, PRAIRIE VIEW INDUSTRIES, INC. warrants to the original end purchaser of the product that the product is free from defects in material and workmanship under normal use and service. This warranty does not apply to any product that has been subject to misuse, abuse, neglect, alteration, accident, usage not in accordance with product instructions, acts of God, or improper installation or that has been used for rental purposes or repaired by someone other than PRAIRIE VIEW INDUSTRIES, INC. This warranty does not cover normal deterioration of the product due to wear and exposure.)

2. This warranty is limited to repairing or replacing, at the option of PRAIRIE VIEW INDUSTRIES, INC., any product that is returned to PRAIRIE VIEW INDUSTRIES, INC. and is reasonably determined by PRAIRIE VIEW INDUSTRIES, INC. to be defective. The repair or replacement of a defective product under this warranty will be made by PRAIRIE VIEW INDUSTRIES, INC. to be INDUSTRIES, INC. without charge of parts or labor. This excludes shipping or delivery charges to and from PRAIRIE VIEW INDUSTRIES, INC.'S place of business. If the product has been discontinued, PRAIRIE VIEW INDUSTRIES, INC. may replace the product with a new product of comparable value and function. PRAIRIE VIEW INDUSTRIES, INC. also reserve the right to refund the purchase price its exclusive warranty remedy.

3. Any claim alleging that the product fails to conform to this warranty may be made only by the original end purchaser and only while such purchaser owns the product. A defective product that is covered by this warranty must be returned, at the purchaser's expense, along with proof of dated of original purchase (such as receipt, check or other document PRAIRIE VIEW INDUSTRIES, INC. deems acceptable that shows the date of purchase and the identity of the product purchaser), along with a description of the alleged defect, to PRAIRIE VIEW INDUSTRIES INC., 2620 Industrial Drive, Fairbury, Nebraska 68352.

4. EXCEPT AS SET FORTH HEREIN, PRAIRIE VIEW INDUSTRIES, INC. MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AND PRAIRIE VIEW INDUSTRIES, INC. DISCLAIMS AND NEGATES ALL OTHER WARRANTIES, INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, CONFORMITY TO MODELS OR SAMPLES, OR ANY WARRANTIES OR ANY WARRANTIES OR ANY WARRANTIES OR INDEMNITIES AGAINST INTELLECTUAL PROPERTY INFRINGEMENT.

SOME STATES DO NOT ALLOW LIMITATIONS ON IMPLIED WARRANTIES, SO THESE LIMITATIONS MAY NOT APPLY TO YOU. IN NO EVENT WILL PRAIRIE VIEW INDUSTRIES, INC. BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR FOR ANY LIABILITY MORE THAN THE PURCHASE PRICE OF THE PRODUCT.

5. Before using the product, the purchaser must first determine the suitability of the product for its intended use, and the purchaser assumes all risk and liability whatsoever in connection there with.

6. No person, agent, distributor, dealer or company is authorized to change, amend or modify the terms of this warranty.

7. This warranty gives the purchaser specific legal rights, and the purchaser may also have other rights that vary from state to state.

8. The purchaser may not assign the purchaser's rights or obligations under this warranty without the prior written consent of PRAIRIE VIEW INDUSTRIES, INC.