

# Installation Instructions

## F3 Frame Tent



20 x 30' Hip Frame Shown

Please read all assembly / installation instructions before the installation or removal of this product.



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## **General Notes:**

- The installation manual describes in a methodical manner the assembly and erection of the Anchor frame tent. Please read all instructions before the installation or removal of this product.
- Installer must determine the number of persons and the proper equipment required for each installation.
- Work from step to step.
- Before erecting any tents or membrane structures, first obtain permits and approvals as required from the local building and fire code officials on the jurisdiction of your installation.

## **PLEASE PAY SPECIAL ATTENTION TO SAFETY WARNINGS AND CAUTIONS FOR PREVENTION OF ACCIDENTS.**

Regarding the contents of the installation manual:

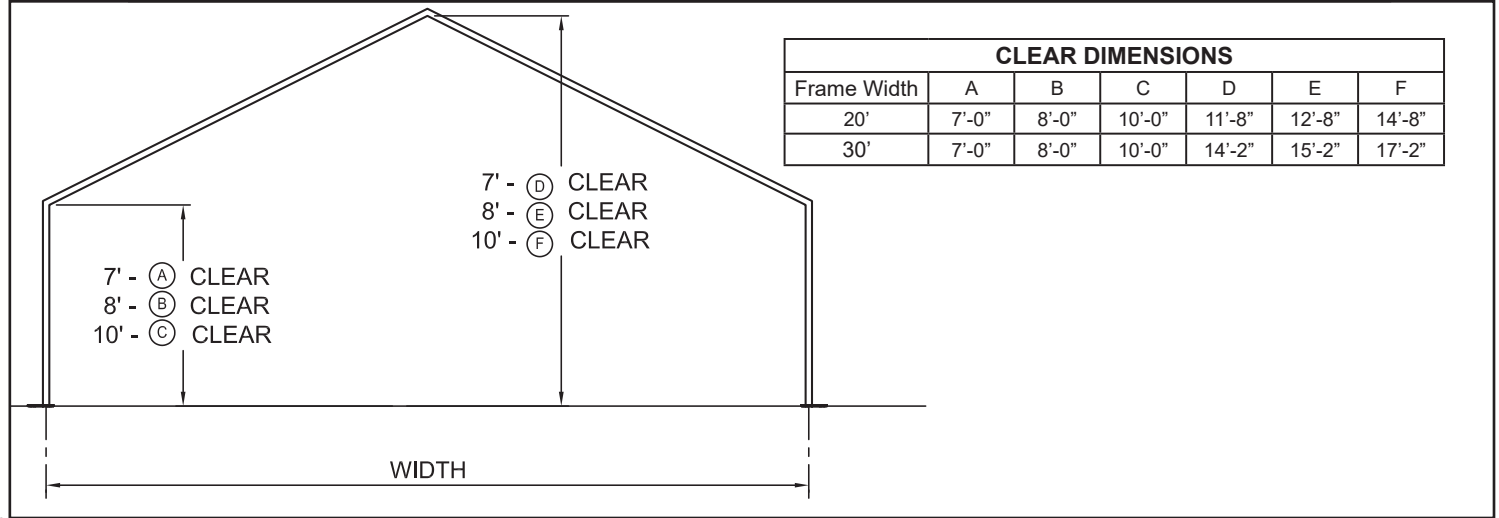
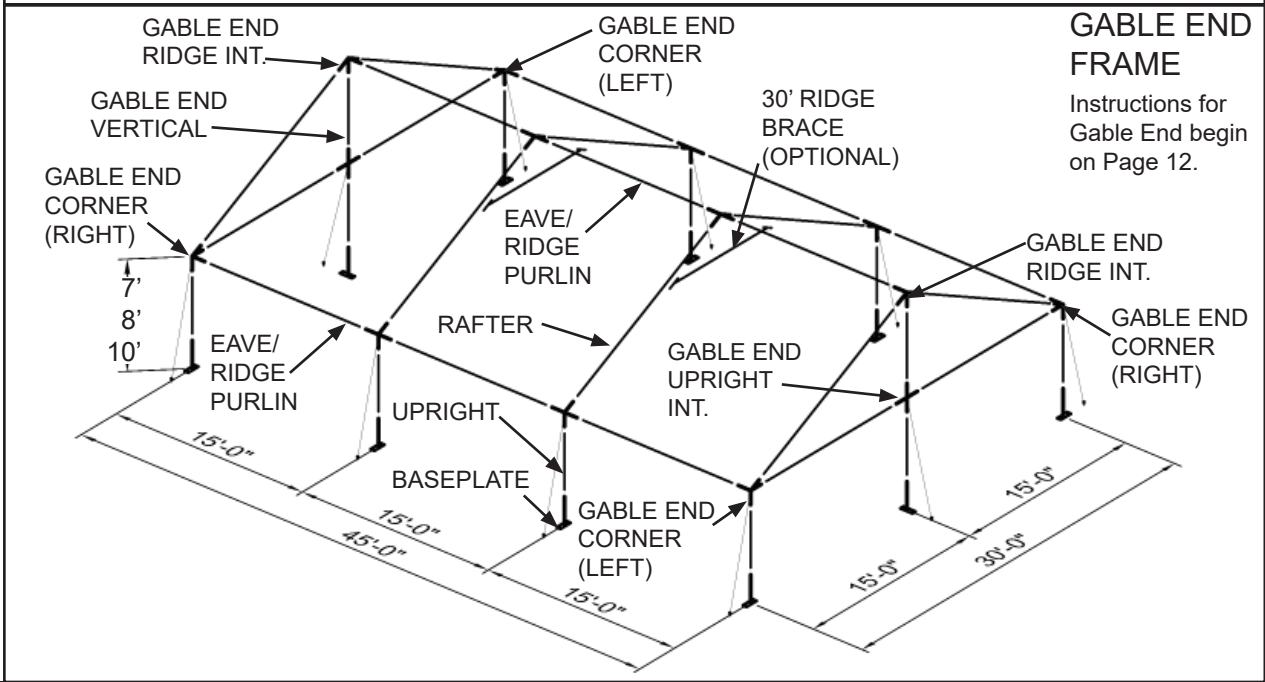
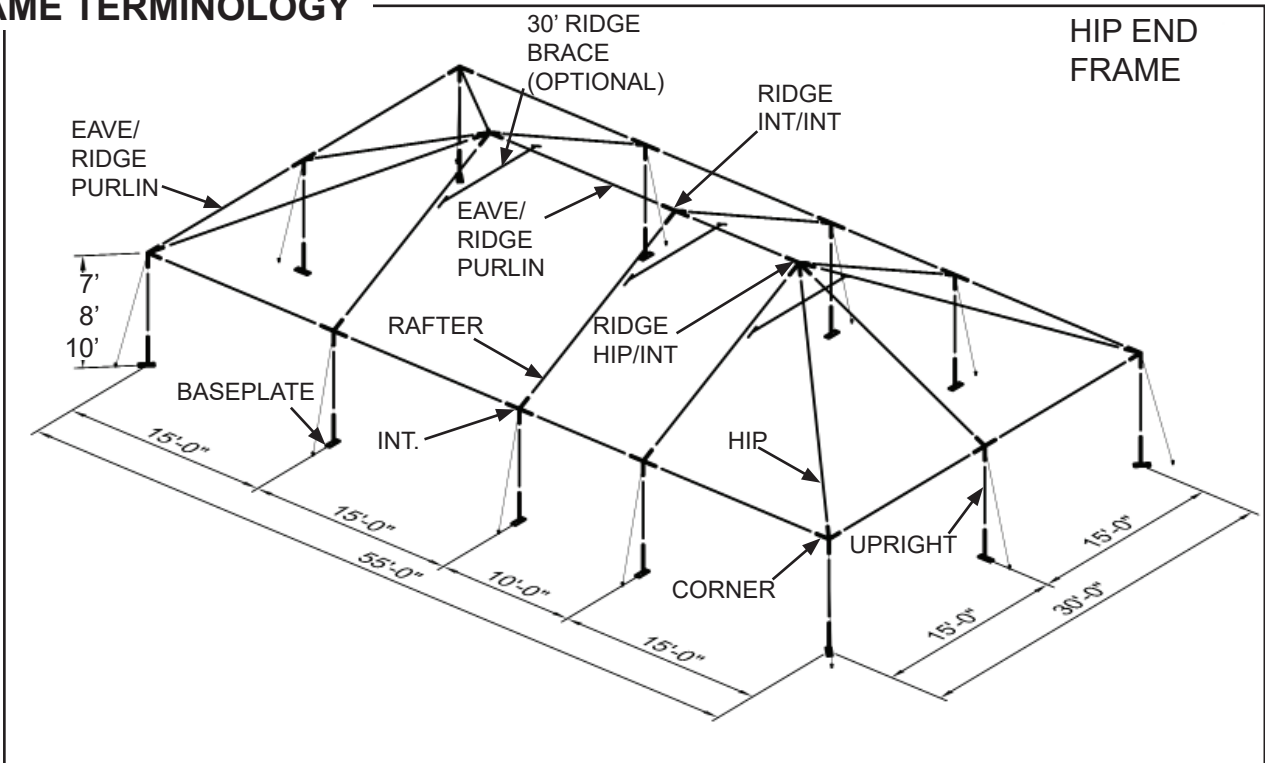
The illustrations and photos are made to show clearly the construction and dismantling procedures and also for identification of the components. Not all illustrations/photos correspond to the actual dimensions and size. Explanations and/or notes have been added to these illustrations/photos.

If you have questions, please call your sales representative at the phone number listed on the front or back of the manual.


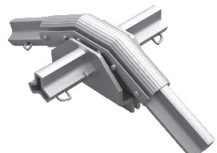
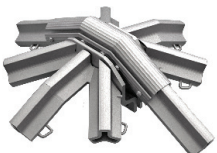



## **Safety Notes:**

- Please read through the installation manual completely before beginning your installation. Be sure the proper equipment and safety precautions are in place.
- Consult your local utility locator service or the **National Utility Locating Contractors Association (NULCA)** prior to installation.
- Prior to actual tent assembly, be sure to look up, down, above & below for obstacles, pipes, wires, trouble, etc.
- Be alert to avoid contact of frame sections with any overhead power lines near the site.
- Keep site clear of debris to avoid tripping, especially while carrying frame parts or bundles of fabric.
- When moving frame sections by hand, use proper lifting techniques to protect the back, and avoid pinching fingers while making hardware connections.
- The installation method described in the installation manual requires coordination of tasks between workers. A safe installation is dependent on that coordination. Work cooperatively as a team.
- Be sure all pins and bolts are installed and secured correctly during assembly.
- Ensure that all push buttons are fully engaged at all frame/weldment connections.
- Replace damaged or worn components with original Anchor components. Failure to use original Anchor components may void product warranties.
- To prevent injuries, wear suitable protective clothing such as hard hats, steel toed shoes, etc.
- Do not drag bundle of fabric on concrete, asphalt, or ground as this can cause damage to the fabric from abrasion through the bag.
- Installation supervisors must take responsibility to instruct all installers about possible dangers before installation and erection begins.
- This tent is manufactured for use as a temporary structure. Evacuation is recommended if threatening or windy weather occurs. See caution on back page of this manual.
- Anchor recommends a factor of safety of at least 2X be used to resist all loads.

F3 FRAME TERMINOLOGY



# COMPONENT LIST - HIP FRAME

		Description	QUANTITIES					
			20' x 20'	20' x 30'	20' x 40'	30' x 30'	30' x 45'	30' x 60'
WELDMENTS		Ridge Hip/ Intermediate	-	2	2	-	15' MID 2	15' MID 2
		Ridge Intermediate/ Intermediate	-	-	1	-	-	1
		Ridge Hip/Hip	1	-	-	1	-	-
		Intermediate	4	6	8	4	6	8
		Corner	4	4	4	4	4	4
		Adjustable Baseplate	8	10	12	8	10	12
FRAME	Fixed Upright	7' - 6'-6 3/8" 8' - 7'-6 3/8" 10' - 9'-6 3/8"	8	10	12	8	10	12
	20' Rafter	10'-7 7/16"	4	6	8	-	-	-
	30' Rafter	16'-2 1/2"	-	-	-	4	6	8
	20' Hip	14'-2 1/8"	4	4	4	-	-	-
	30' Hip	21'-8 3/16"	-	-	-	4	4	4
	10' Eave/Ridge Purlin	9'-5 1/2"	8	11	14	-	-	-
	15' Eave/Ridge Purlin	14'-5 1/2"	-	-	-	8	11	14
	Ridge Brace (Optional)	9'-0"	-	-	-	1	2	3
HARD-WARE	Base Plate Pin	-	8	10	12	8	10	12
	Web Guys	-	8	10	12	8	10	12

## STEP 1 Layout Components for Assembly - Hip Frame

Layout components as shown for your particular size tent. Square tents will use the Ridge Hip/Hip Weldment at Peak.

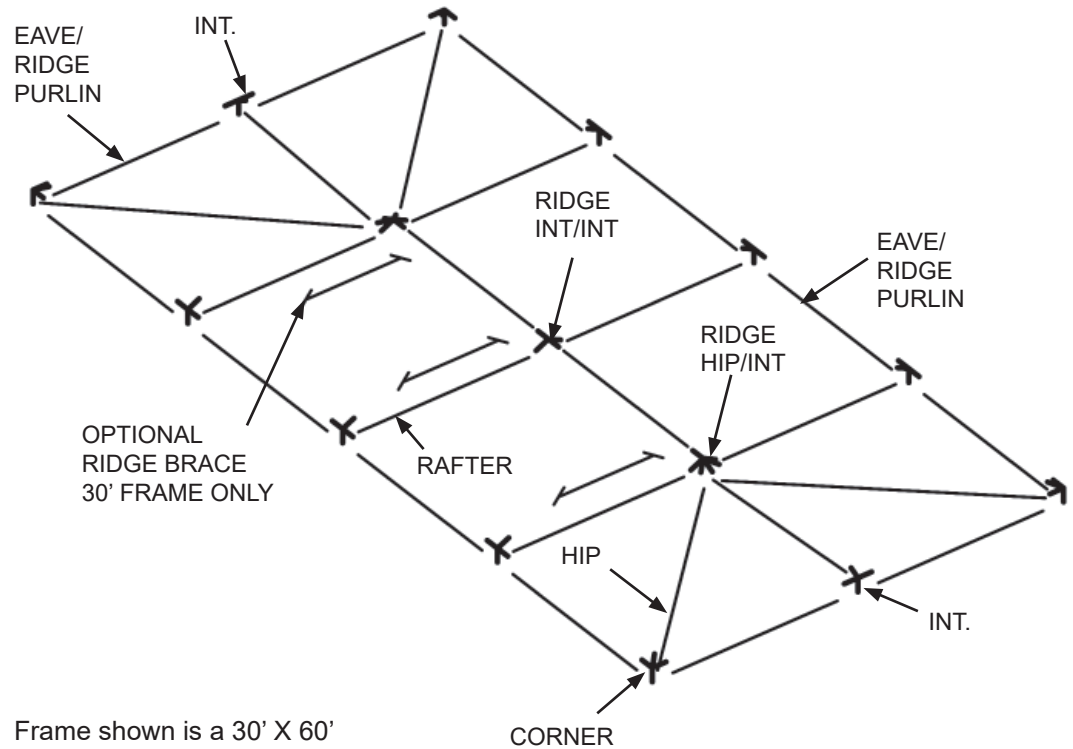
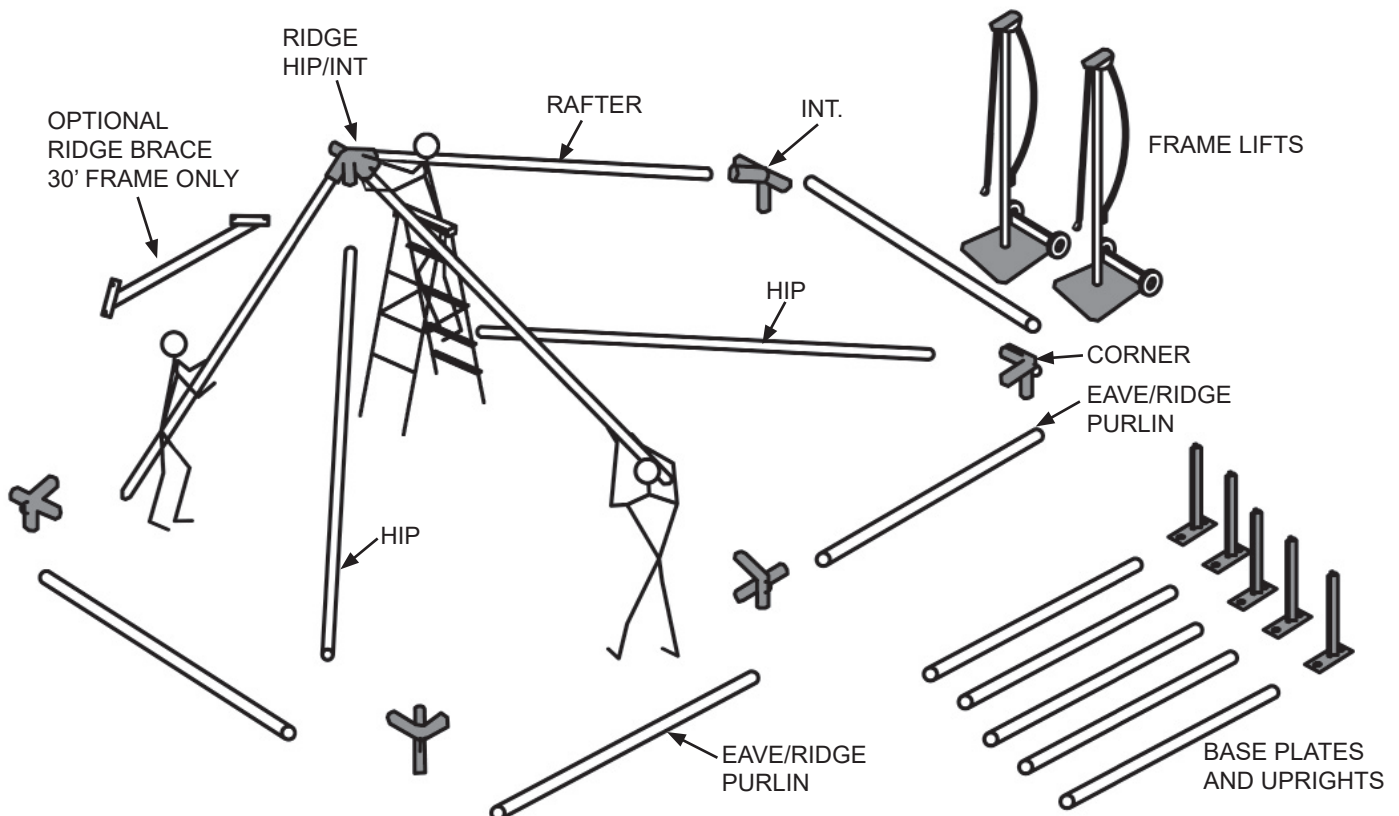


Figure 1

## STEP 2 Begin connection of components

Begin by attaching rafters to ridge weldment. Align slots in tubes with Stop Buttons on weldment. Push button down and carefully slide tube onto weldment until button pops up securely into slot. On 30' Frame you will now attach the installation cross web. See Figure 2b & 2c.

Optional ridge brace may be simpler to bolt onto rafters while rafters and Ridge Hip are still laying on ground.



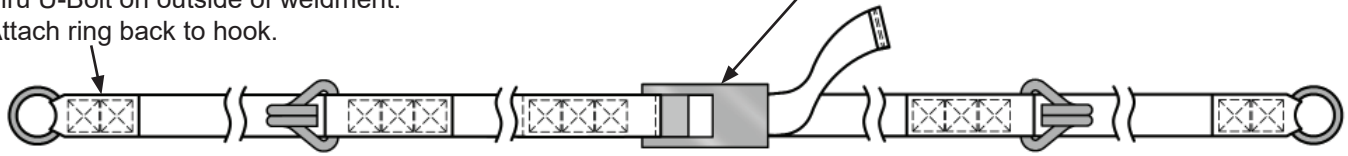
After all components are connected to ridge weldment, start at one of the Side Intermediate weldments, connecting rafter to eave weldment, then hip to corner weldment, and on around (see direction on Figure 3) until the bottoms of all the rafters, hips are connected to weldments.

Figure 2a

## Installation Cross Web

Cross web is installed by running ends of Cross web around Int. weldment and thru U-Bolt on outside of weldment. Attach ring back to hook.

After ends are attached, tension the strap using the cam buckle.



**Installation Cross Web**  
For 30' Frame only

Figure 2b

**Important Dismantling Note:** For Ease in Dismantling (30' model), Installation Cross Web must be reinstalled.

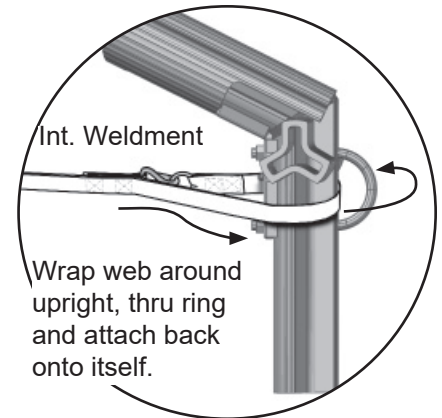
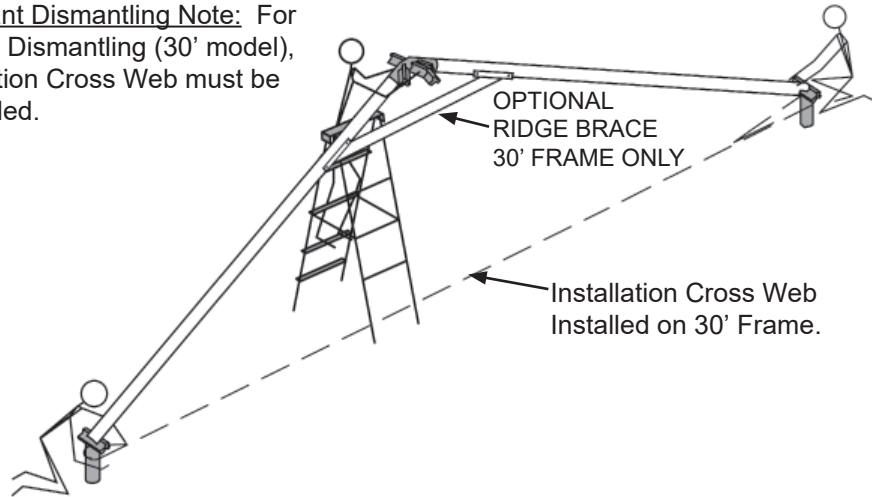


Figure 2c

## STEP 3 Connect eave purlins to weldments

After rafters and hips are connected to weldments, Start at one of the rafters and connect eaves to weldments going from one side to the other all the way around.

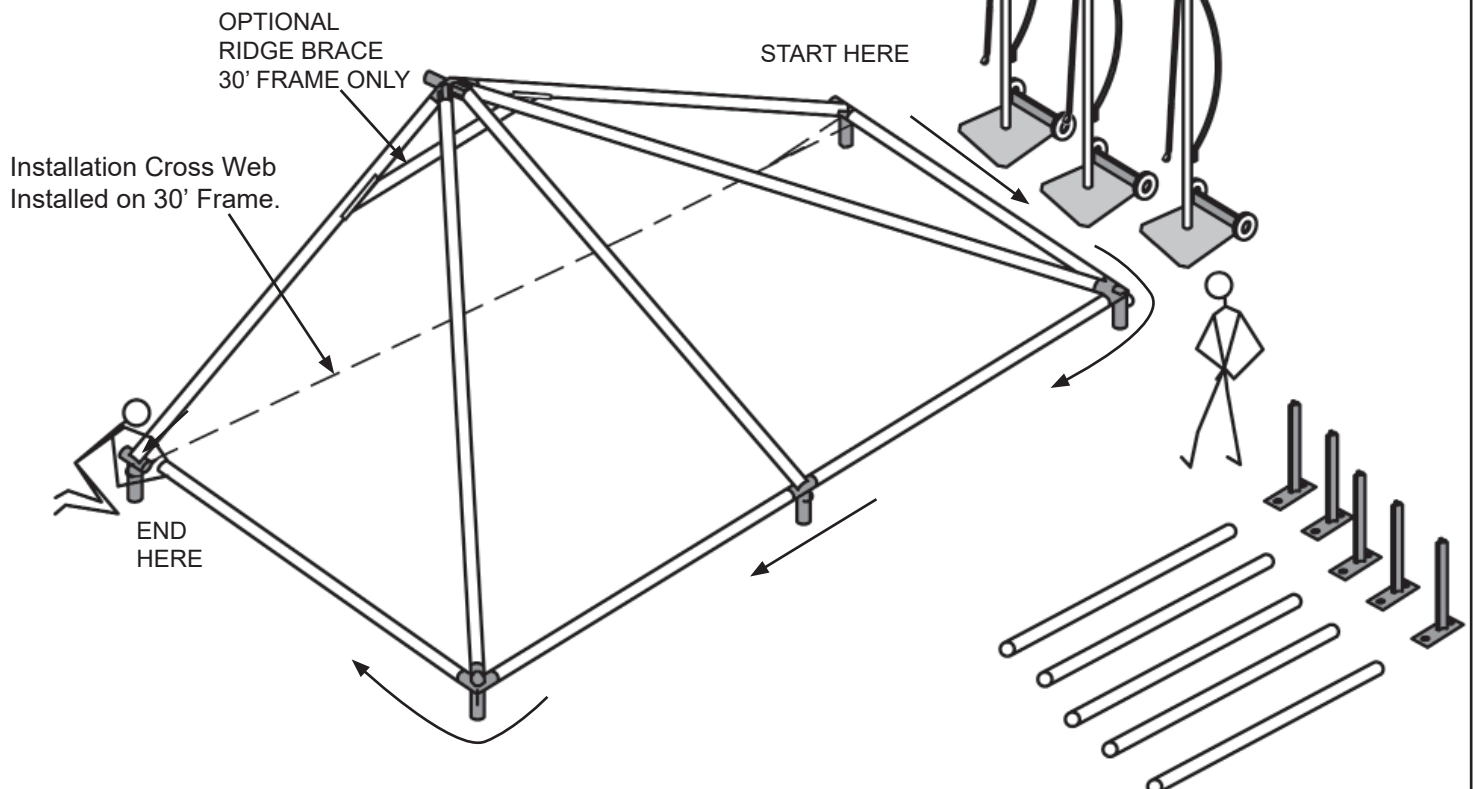
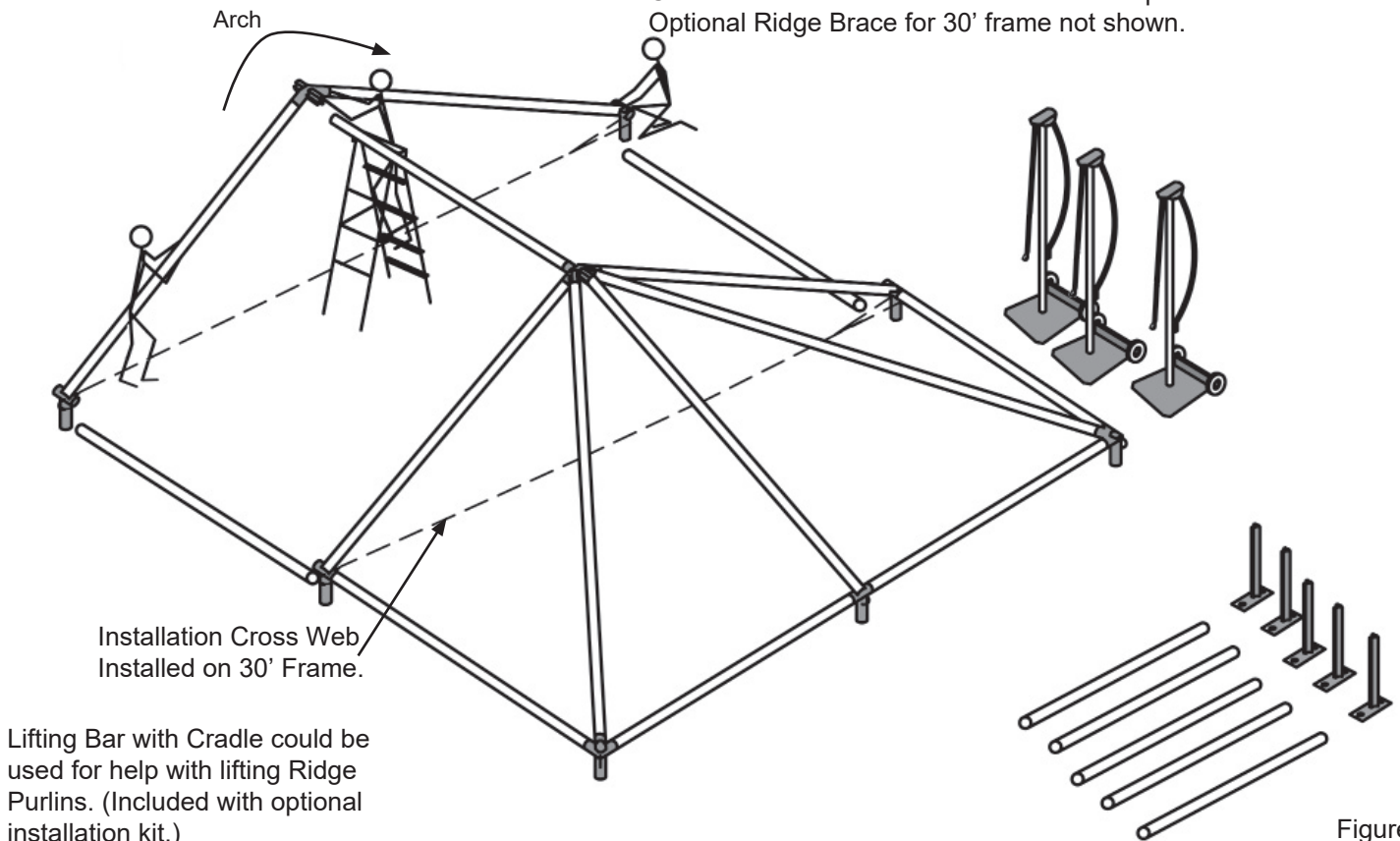


Figure 3



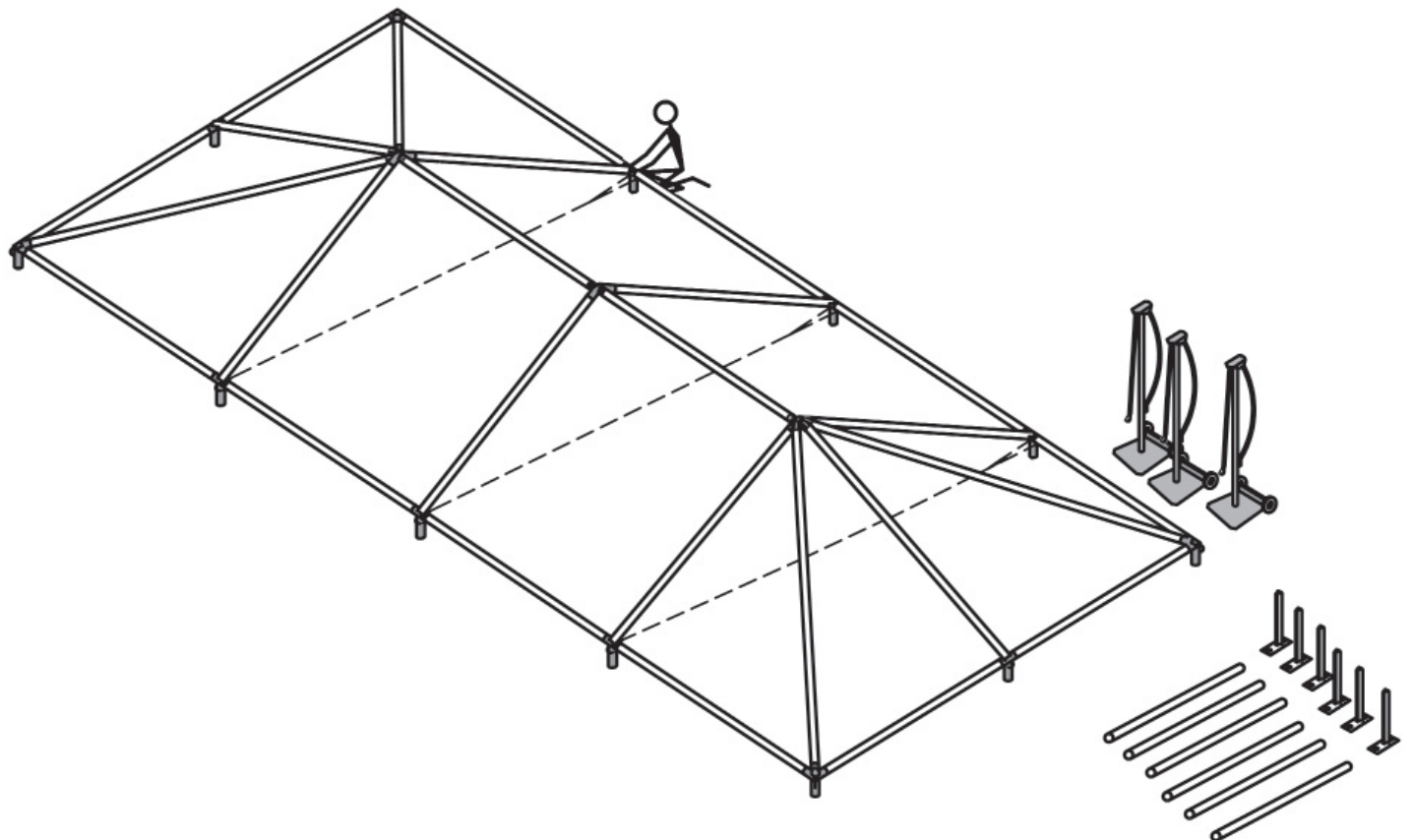
## STEP 4 Connect next arch

Connect rafters to Ridge weldment, then connect Eave/Ridge purlins. Continue in like manner at next Arch as required. Optional Ridge Brace for 30' frame not shown.



## STEP 5 Connect next arch and other hip end

Continue connections as shown previously until entire frame is connected and sitting on the weldments.





## STEP 6 Installation of hip end fabric

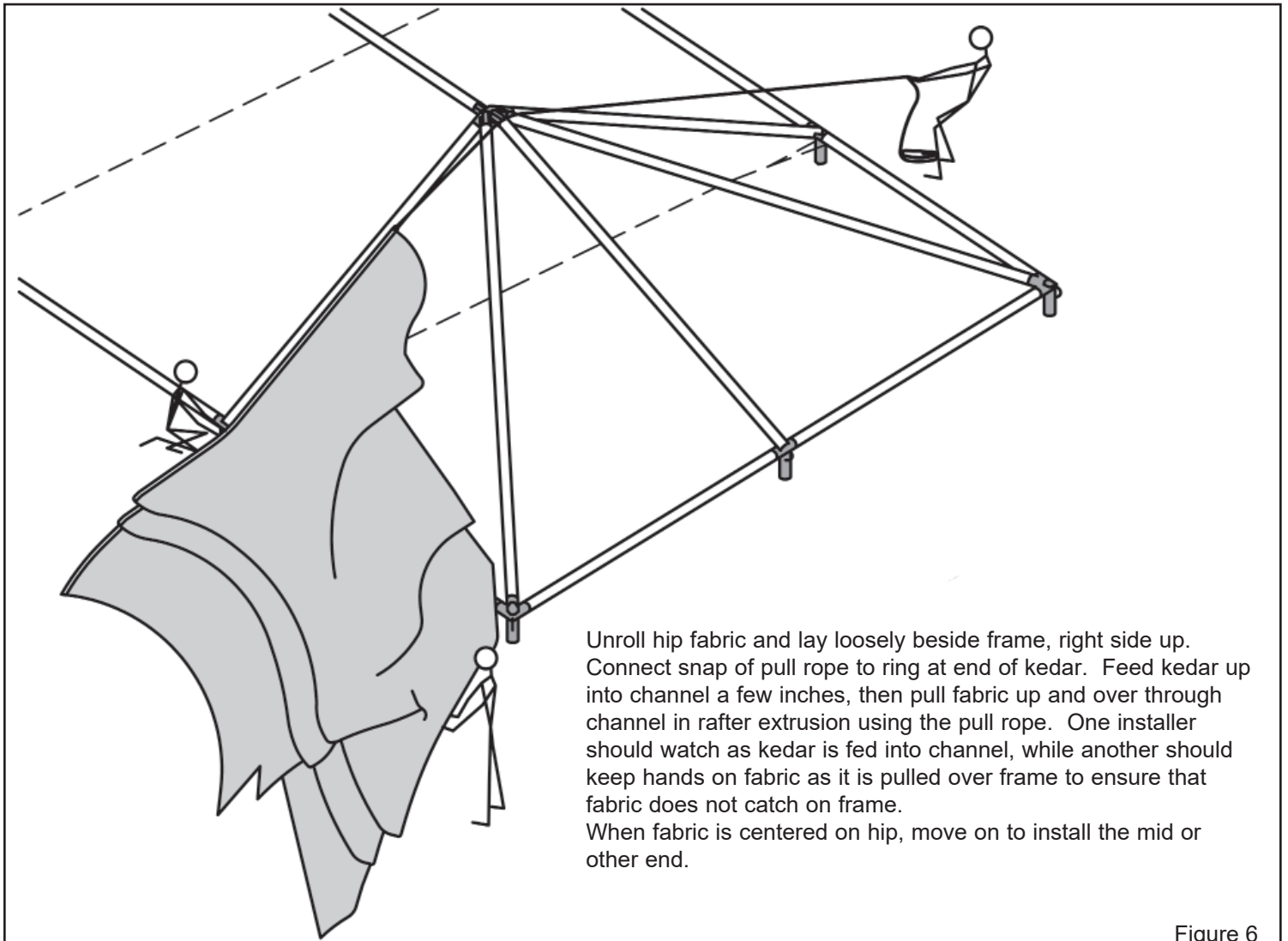


Figure 6

## STEP 7 Installation of mid fabric

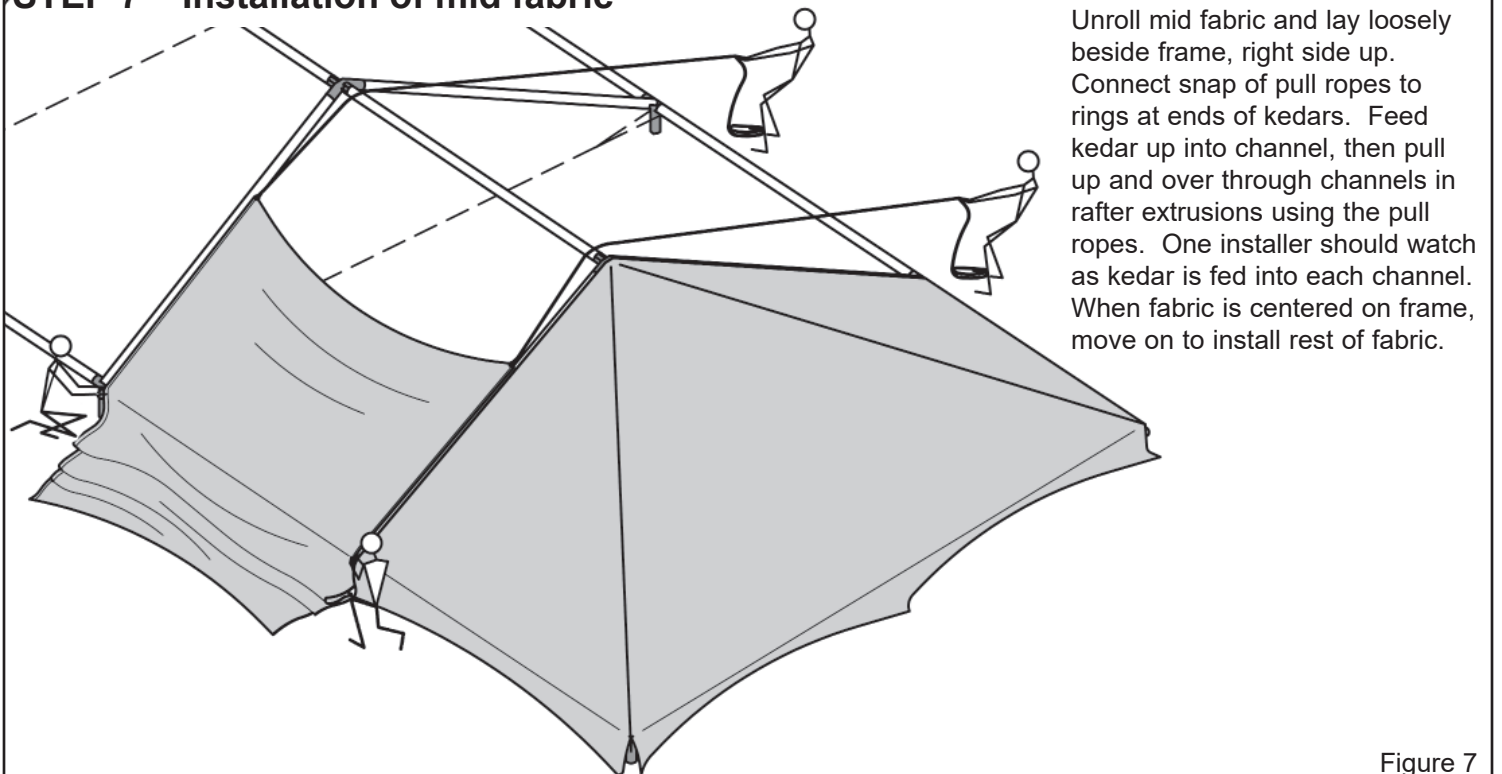


Figure 7

## STEP 8 Raise one side with Frame Lifts

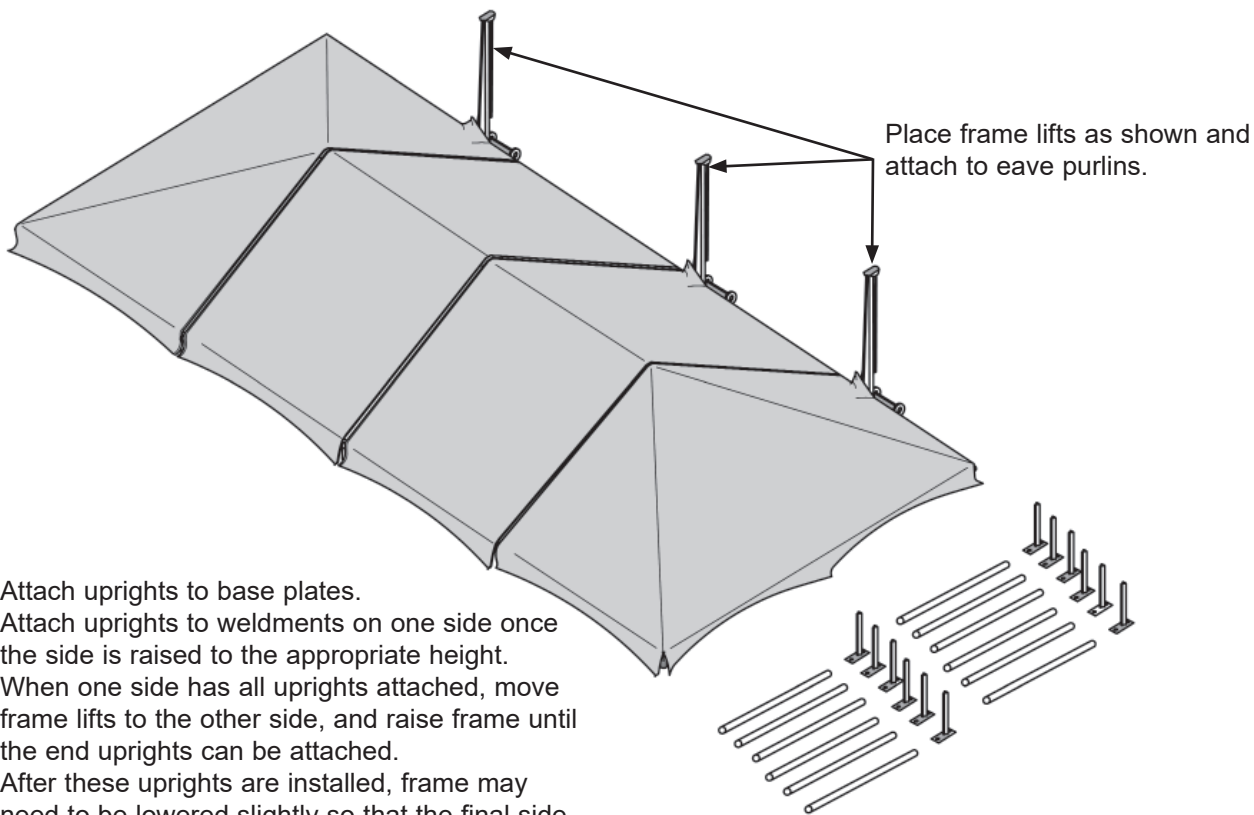


Figure 8

## STEP 9 Stake and Guy tent

**Important Note:**  
Guys must be staked out at 2'-0" from uprights as shown.

Fabric is not yet tensioned to frame.

Stakes are all 1" x 30".  
(1) stake required per base plate.

2'-0"

Snap one guy to each U bolt on weldments. Corners are staked out at 45° as shown.

Figure 9

## STEP 10 Tension fabric to frame

Tension tent to frame as shown at right.  
Pass left tension ring with web through right catenary ring.  
Pass right tension ring with web through left catenary ring.  
Overlap both tension rings.  
Attach top web/ratchet hook to both rings.  
Insert bottom hook into slot on upright.  
Ratchet to snug tightness.  
Go all around the tent and tension all straps to only snug tightness using ratchet on strap.  
Finish tensioning tent as shown in figure 10b.

### NOTE:

Installation Cross Web (on 30' model) may be removed after fabric is installed and prior to final tensioning. Reinstall at time of take-down.

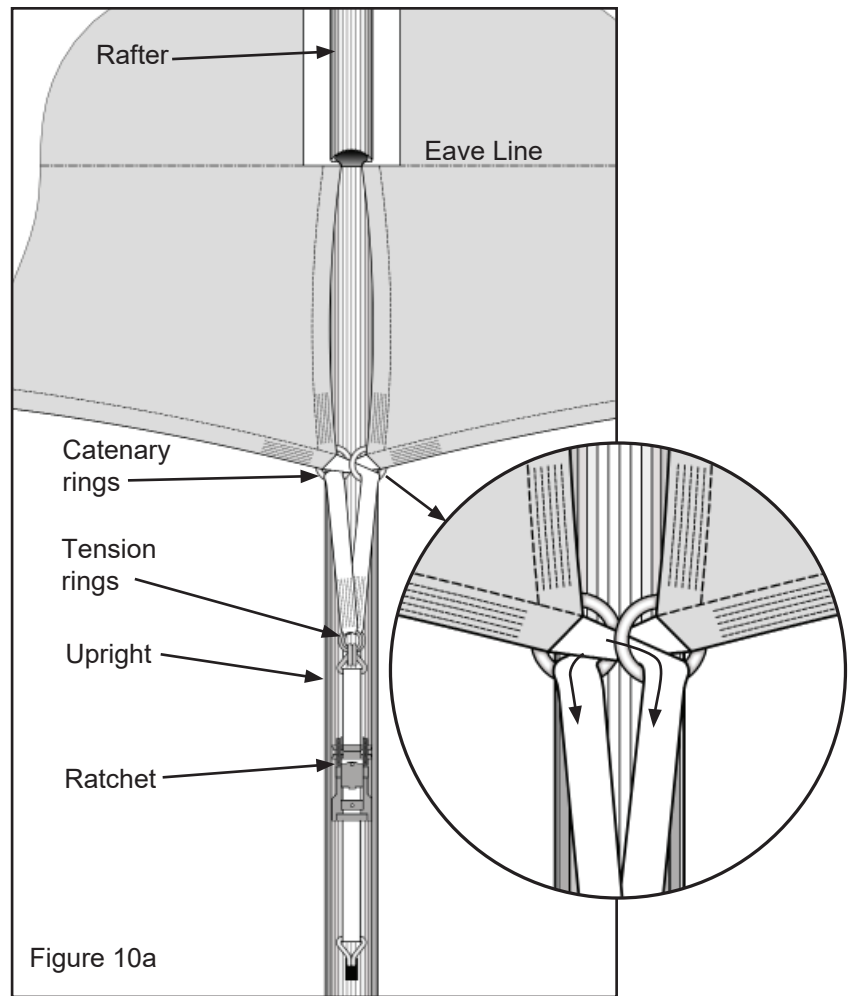
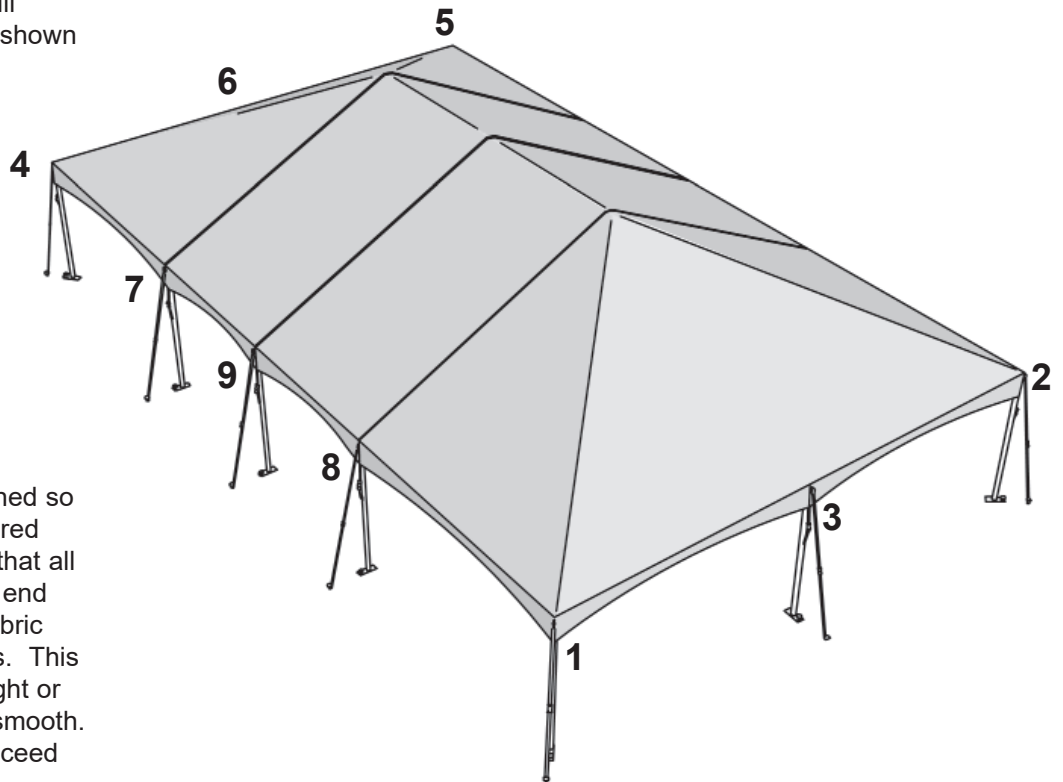


Figure 10a

## Tensioning Order

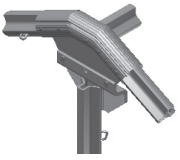
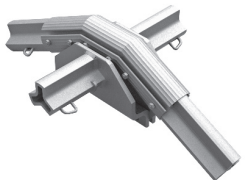
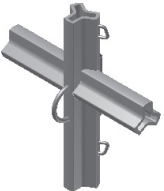


Start tensioning web straps to full tension in numbering sequence shown in Figure 10b.



Corners must be equally tensioned so that punch slot in fabric is centered on U-bolt in Weldment. Check that all tension points look level across end of tent. Watch for wrinkles in fabric radiating out from tension points. This may signal that tension is too tight or unbalanced. Fabric should be smooth. After corners are tensioned, proceed to mid tensioning points. Check that all tension points look level across the side. Again, watch for wrinkles.

Figure 10b

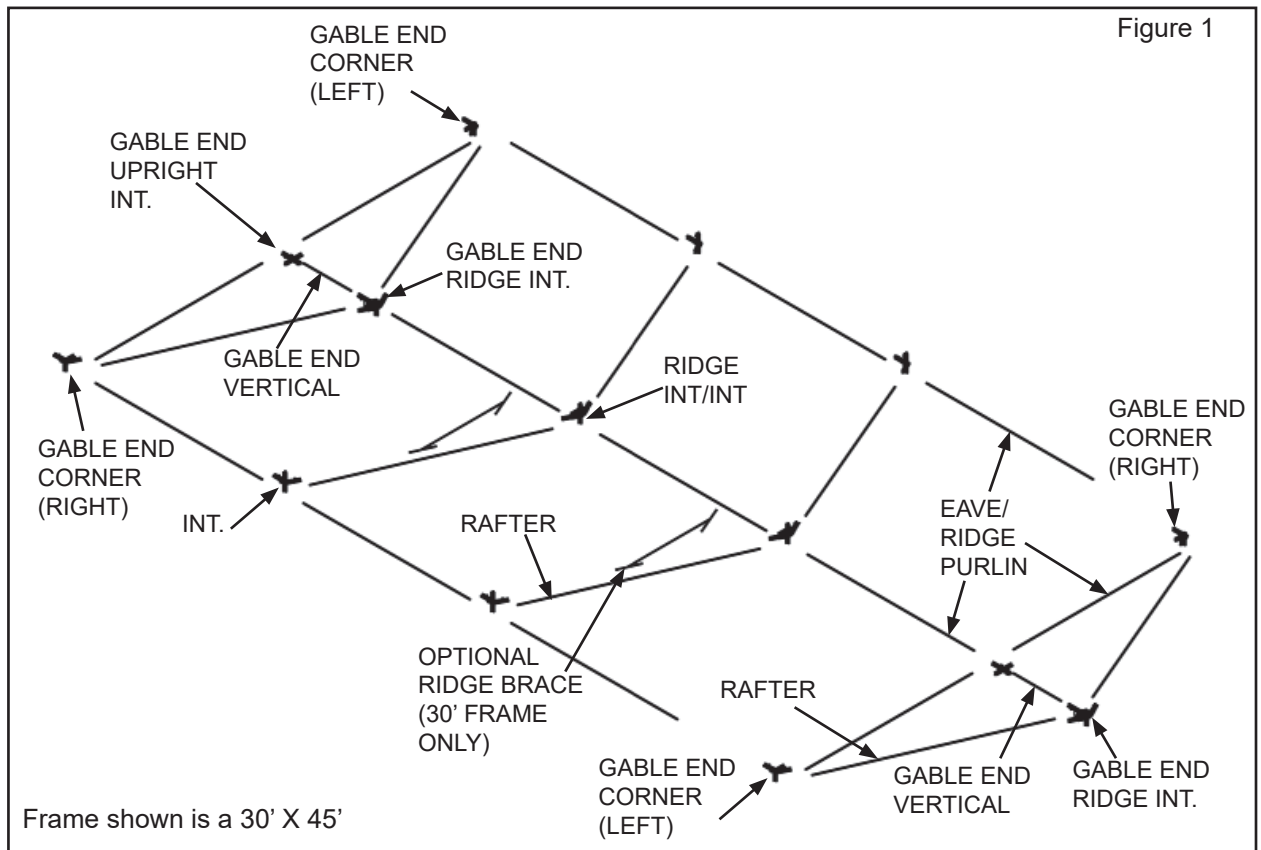
# COMPONENT LIST - GABLE END FRAME

		Description	QUANTITIES					
			20' x 20'	20' x 30'	20' x 45'*	30' x 30'	30' x 45'	30' x 60'
WELDMENTS		Gable End Ridge Intermediate	2	2	2	2	15' MID 2	15' MID 2
		Ridge Intermediate/Intermediate	1	1	2	1	2	3
		Gable End Upright Intermediate	2	2	2	2	2	2
		Intermediate	2	2	4	2	4	6
		Gable End (Left/Right) Corner (Left Shown)	2 Right 2 Left	2 Right 2 Left	2 Right 2 Left	2 Right 2 Left	2 Right 2 Left	2 Right 2 Left
		Adjustable Baseplate	8	8	10	8	10	12
FRAME	Fixed Upright	7' - 6'-6 3/8" 8' - 7'-6 3/8" 10' - 9'-6 3/8"	8	8	10	8	10	12
	20' Rafter	10'-7 7/16"	6	6	8	-	-	-
	30' Rafter	16'-2 1/2"	-	-	-	6	8	10
	10' Eave/Ridge Purlin	9'-5 1/2"	10	4	4	-	-	-
	15' Eave/Ridge Purlin	14'-5 1/2"	-	6	9	10	13	16
	20' Gable End Vertical	3'-11 1/2"	2	2	2	-	-	-
	30' Gable End Vertical	6'-4 3/4"	-	-	-	2	2	2
	Ridge Brace (Optional)	9'-0"	-	-	-	1	2	3
HARD-WARE	Base Plate Pin	-	8	8	10	8	10	12
	Web Guys	-	8	8	10	8	10	12

\* Frames are configured to use 15' mids where feasible, however, 10' mids may be used, and quantities will change accordingly.

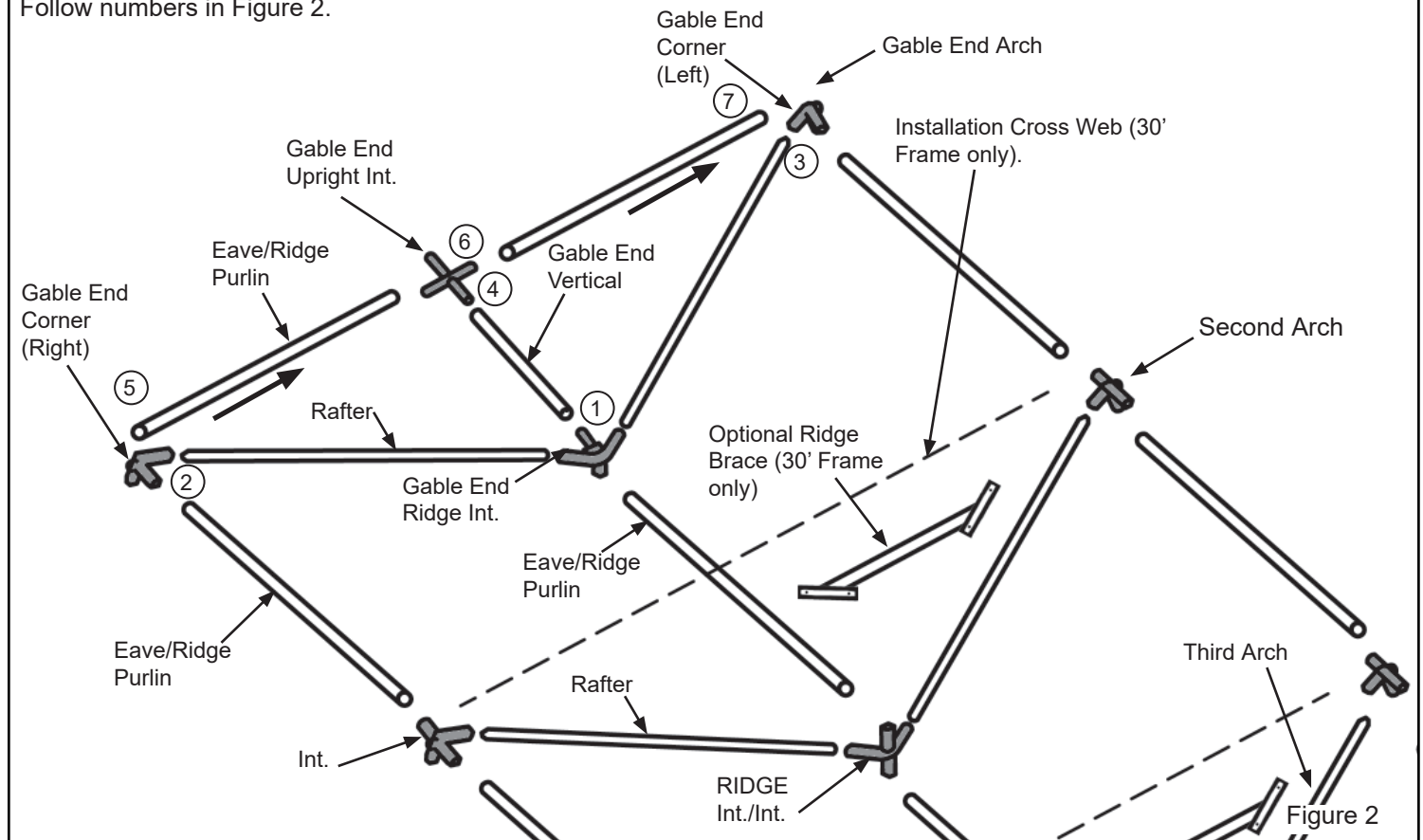
## STEP 1 Gable End - Layout Components for Assembly

Layout components as shown for your particular size tent.



## STEP 2 Begin connection of components

Begin by assembling the first gable end arch. Attach Gable End Vertical to Gable End Ridge. Attach Rafters to Gable End Ridge. Attach bottom of rafters to their respective corner Weldments. Attach Gable End Vertical to Gable End Upright Int. Start at one corner and attach the Gable End Eave to the Corner, then attach other end of Eave to Gable End Upright Int. Attach other side of Upright Int. to the next Gable End Eave. Attach that last loose Eave to the last Corner Weldment. Follow numbers in Figure 2.



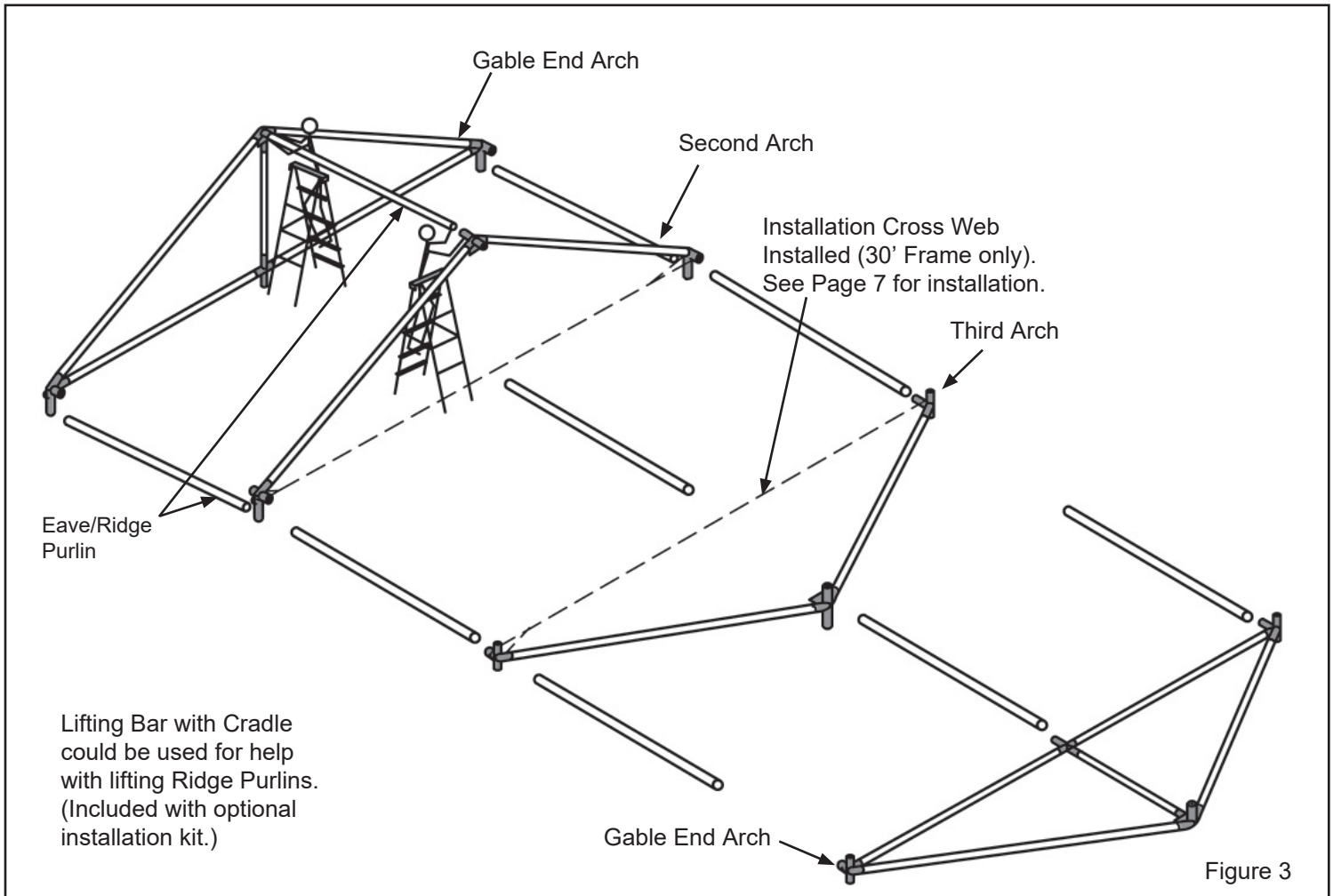
## STEP 2 Begin connection of components Cont'd

Once the Gable End Arch is completely assembled, Start on the Second Arch. Connect rafters to Ridge weldment, then connect Eave/Ridge purlins.

Continue in like manner until all arches are assembled.

## STEP 3 Connect Arches

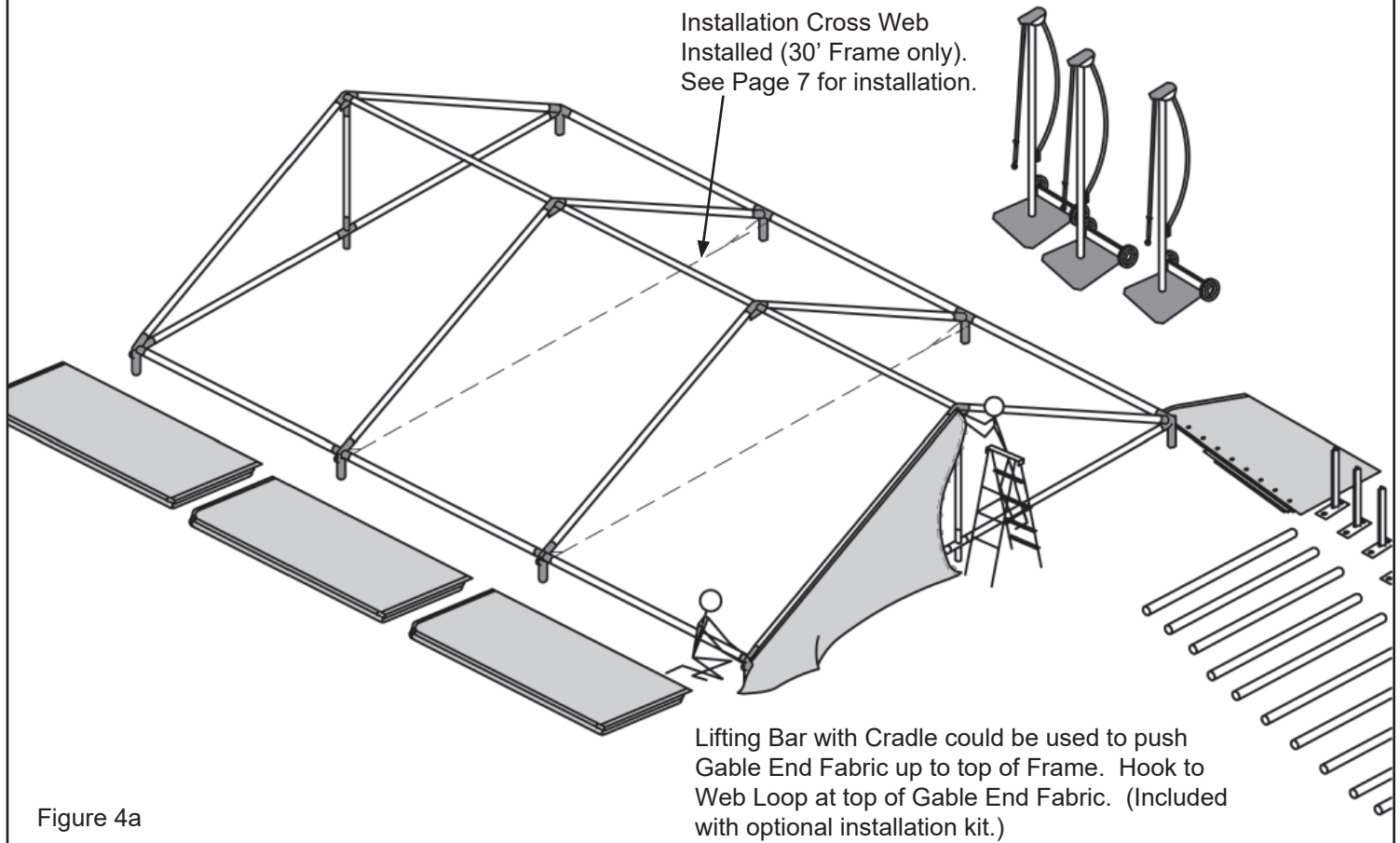
Beginning at one of the gable ends, raise the Gable end Arch and then the Second Arch. Connect Eave and ridge purlins so the Arches are standing and stable. Continue swinging arches upright and connecting purlins until the upper frame is complete. Optional Ridge Brace for 30' frame not shown.





## STEP 4 Install Fabric

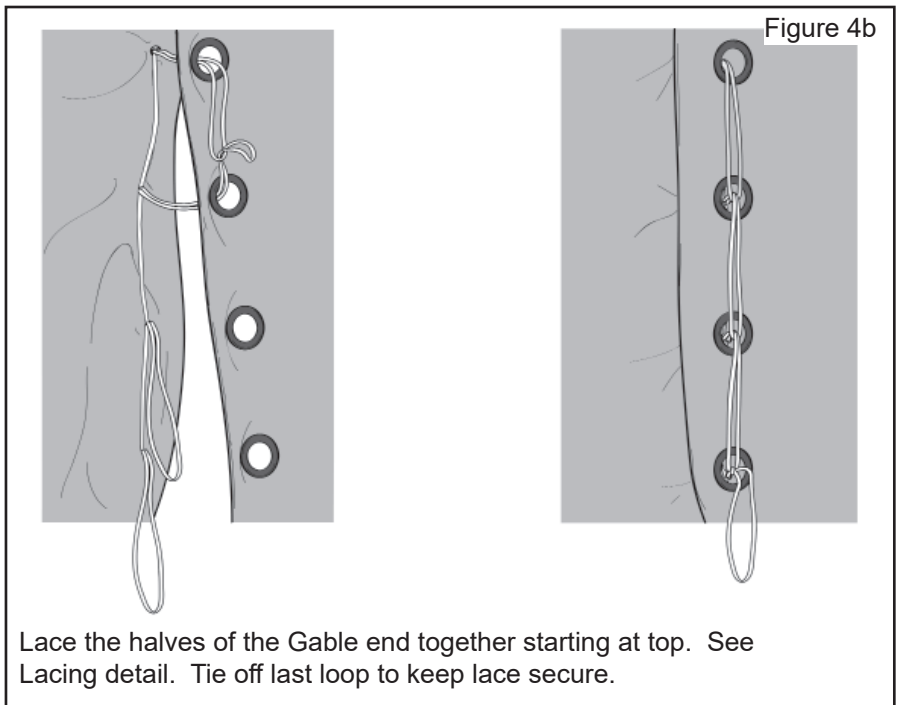
Install Gable Ends. Insert End of Kedar (at top of Gable End Fabric) into bottom of channel at End of frame. Using pull web loop, pull Gable end up until it is at the peak. Pull other half of Gable end up until both halves meet at center. See Lace detail below. Optional Ridge Brace for 30' frame not shown.



## STEP 4 Install Mids and Raise Frame

Install mid fabric as shown on page 9.

Instructions for Raising Frame, Staking & Guying Tent and Tensioning Fabric may be found on pages 10 and 11.





**PHONE NUMBER**

**812 · 867 · 2421**

**FAX NUMBER**

**812 · 867 · 1429**

Anchor products are of superior design and operate best within the parameters of these instructions. It is imperative that the instructions be carefully read and **COMPLETELY FOLLOWED**. Please read installation instructions before the installation or removal of this product. Installation instructions are available online at [www.anchorinc.com](http://www.anchorinc.com) or by calling 1-800-544-4445.



**WARNING**

1. For each installation, the installer is solely responsible for evaluating the site and the proper securing method determined. Some soils require different staking or securing than that provided with the tent. Due to this variety of soil conditions, these are the manufacturer's suggested sequence of installation procedures. Anchor's responsibility is limited to the manufacture of the tent parts and materials. We are not responsible for methods that installers may choose to erect and secure the tent to the ground.
2. The number of stakes suggested in the installation instructions do not necessarily meet all or any relevant codes on the site of the tent installation. The number of stakes suggested **will, in many cases, keep the tent erected**, however, due to various soil conditions; these stakes will be insufficient **to keep the tent secure in high winds**. It is the tent installer's responsibility, not the manufacturer, to determine the appropriate number of stakes to meet the necessary wind loads on the site. Regardless of the number of stakes we suggest, we make no representation or warranty as to whether this specific number of stakes will meet the local tent code. Anchor does not, nor can it make any suggestions, representation, or warranties about the adequate staking required at each specific installation site. Staking information provided in the installation instructions **is not a suggestion about what is necessary to meet a site-specific load**.

**For additional important information, consult: "The IFAI Procedural Handbook For the Safe Installation and Maintenance of Tentage" and the IFAI Pocket Guide "Pullout Capacity of Tent Stakes", both available from the IFAI Tent Rental Division on their website ([www.ifai.com](http://www.ifai.com)).**

3. Inasmuch as the weather is unpredictable, good judgment and common sense must be incorporated within installation guidelines. It is the responsibility of the tent installer/maintainer to determine the severity of the weather, proper time and method of installation and/or erection and disassembly. **Note: We recommend that snow and ice be removed from the tent surface as soon as possible because accumulation will damage the tent or fabric structure. Please consult with our Engineering Department about the maximum loads for each product.**

This product has been manufactured for use as a temporary structure. For the safety of all occupants, evacuation is recommended if threatening weather occurs, or if there is any doubt concerning the safe use of this product.

4. Proper safety equipment should be used at all times to insure a safe installation and take down. We suggest a careful evaluation be made to determine safety equipment needed, such as hard hats, steel-toe shoes, safety glasses and other as required. It is our desire that all installations are safe. Please be aware of hidden dangers both underground, i.e., gas lines, water lines, electrical lines, etc. and above the tent such as power lines and telephone lines.
5. Anchor stands behind its products in accordance with its standard Terms and Conditions of sale. A copy of our Terms and Conditions of Sale can be obtained by contacting Anchor at the telephone number and/or address on this document.