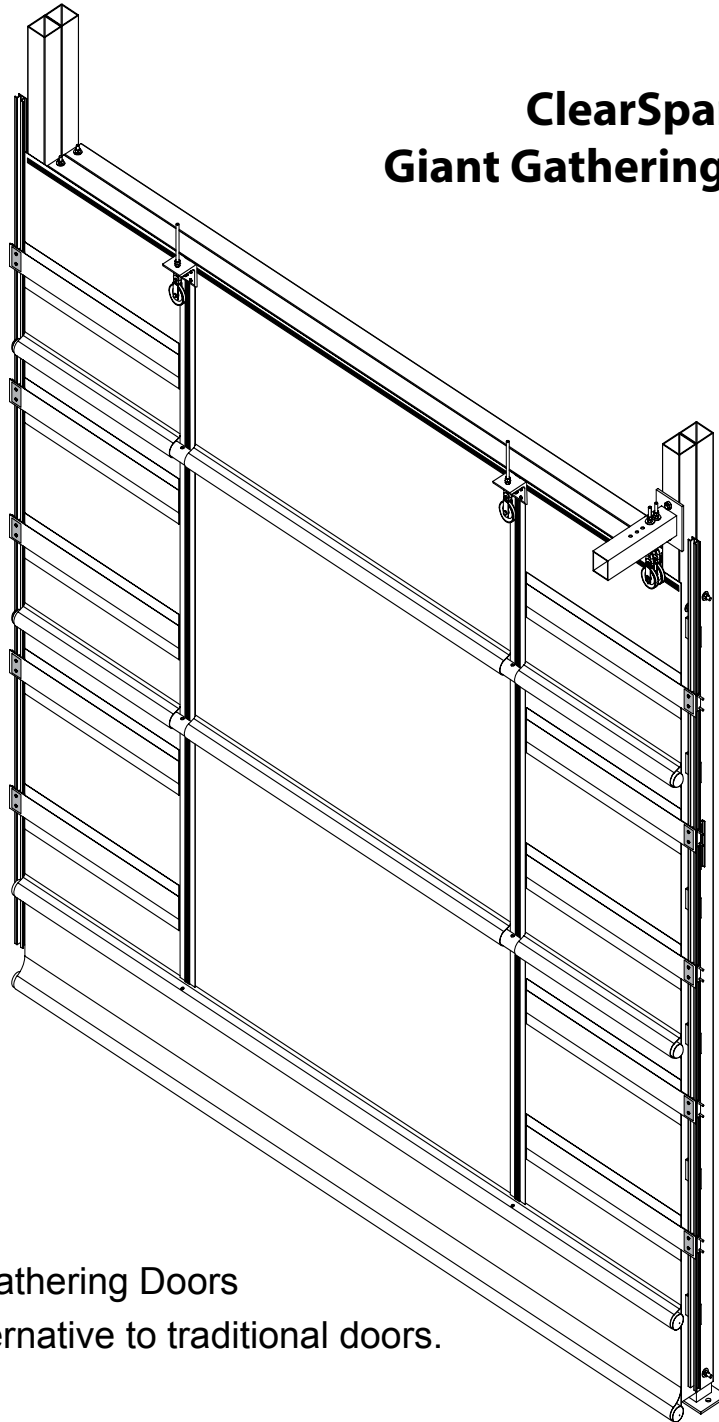




## ClearSpan™ Giant Gathering Door Kit



### Giant Gathering Doors

A great, low-cost alternative to traditional doors.

©2017 ClearSpan™  
All Rights Reserved. Reproduction  
is prohibited without permission.

\*Actual door and frame may differ  
from example shown.



### READ THIS DOCUMENT BEFORE YOU BEGIN

Thank you for purchasing this ClearSpan™ gathering door. When properly assembled and maintained, this door will provide years of reliable service. These instructions include helpful hints and important information needed to safely assemble and properly maintain the door. Please read these instructions **before** you begin.

If you have any questions during the assembly, contact Customer Service for assistance.

### SAFETY PRECAUTIONS

- Wear eye protection.
- Wear gloves when handling cable and steel parts.
- Use a portable GFCI when working with power tools and cords.

### REQUIRED TOOLS

The following list identifies main tools for assembly. Additional tools and supports may be needed depending on the structure, location, and application.

- Metal-cutting saw
- Tape measure or measuring device
- Marker to mark locations on pipes
- Variable speed drill and drill bits (A cordless drill with extra batteries works best.)
- Hammers and gloves
- Wrenches and socket set
- Ladders and/or work platforms
- 10mm wrench or ratchet and socket
- Tool to cut cable
- Impact driver and impact socket set
- Clamps or locking pliers
- Power auger to drill 12" holes for anchor chains
- Lifts and assistants



### UNPACK AND IDENTIFY PARTS

The following steps will ensure that you have necessary parts *before* you begin.

1. Unpack contents of shipment and place where you can easily inventory parts. Refer to Bill of Materials/Spec Sheets.
2. Verify that all parts listed on Bill of Materials/Spec Sheets are present. If anything is missing, or you have questions, consult Pictorial Parts Guide and all diagrams for clarification, or contact Customer Service.

**NOTE:** At this time, do not to open plastic bags containing smaller parts such as fasteners or washers (if equipped).

### ASSEMBLY PROCEDURE

The following instructions are general guidelines. Drawings and photographs contained in these instructions are for reference only. Large size doors may require equipment capable of lifting the weight of door. Read and follow all safety information and instructions. Failing to follow these instructions may result in an improperly assembled door and will void all warranty and protection owner is entitled to.

Steps outlining assembly:

1. Verify that all parts are included in shipment. Notify Customer Service for questions or concerns.
2. Read these instructions and all additional documentation included with shipment *before* you begin.
3. Gather tools, bracing, ladders, lifts, and assistance needed to assemble and install door.
4. Set parts of door near building opening so various components can be easily accessed.
5. Read and follow care and maintenance information near the end of these instructions.
6. Complete all warranty information as instructed.

### MATERIALS SUPPLIED BY CUSTOMER/OWNER

- Concrete for anchor chains.
- Rebar to help secure chains in holes.
- Duct tape to tape cable ends.
- Additional materials as needed.



**WARNING: NEVER STAND IN DOOR OPENING DURING DOOR OPERATION OR WHEN DOOR IS FULLY OR PARTIALLY OPENED.**

Complete the following steps before you begin.

1. Install all end wall framing and door framing.
2. Install end panel.
3. Secure end panel to door framing and cut door opening.
4. Determine winch position and mount winch to frame as instructed using documentation provided by winch manufacturer. Use diagram below to help determine winch position and distance from door based on door height.

**IMPORTANT:** If the WEMK110574 Winch Kit was purchased, read those instructions to better understand required winch position and cable lengths. Winch includes cable; some cable from the original gathering door kit may remain unused when winch kit is installed.

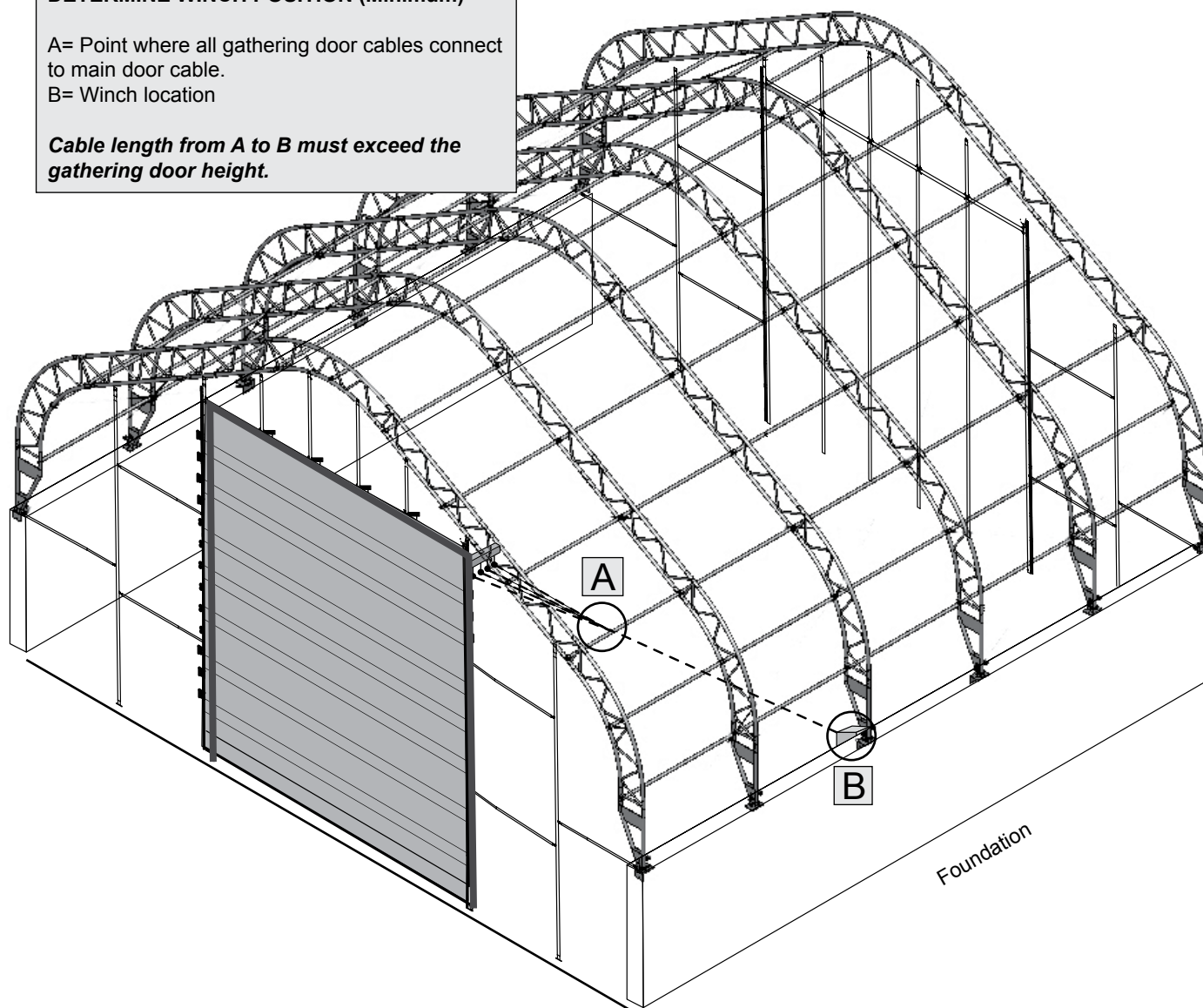
**ATTENTION:** These instructions describe one way to install gathering door and cabling. If you prefer to mount winch in a position that differs from example, modify cable patterns and installation methods as needed. Building size, door size, custom designs, and building use all affect winch location and cable patterns. **Cable quantity sent is based on mounting winch as close to gathering door as door height will allow. See calculation example below.**

Consult services of a professional contractor familiar with installing similar components if needed. *Use these assembly instructions as a guide only. Parts shipped are based on installation method shown below. Winch, winch bracket, and 3/8" connecting hardware are included. Customer-supplied materials may be needed to complete installation of winch, especially for custom buildings and doors.*

**DETERMINE WINCH POSITION (Minimum)**

A= Point where all gathering door cables connect to main door cable.  
B= Winch location

**Cable length from A to B must exceed the gathering door height.**





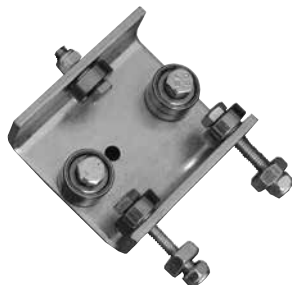
The following graphics and photos help identify the parts. (Some parts are not shown.) Pipe and PVC conduits for door panel are shipped in standard lengths. Field cut as instructed for assembly.

**IMPORTANT:** Compared to actual door, some photos and diagrams throughout these instructions may show a door with different dimensions or features. Assembly procedures are similar regardless of differences.



106427 (16')  
Aluminum Channel

**NOTE:** Channel may also ship in 8' lengths as determined by door dimensions.



102569  
Roller Bearing  
Assembly



Fender Washer  
FAMF12B



Box Bolt (Blind Connection Bolt)  
Actual bolt may differ. See individual  
component installation for correct box bolt.

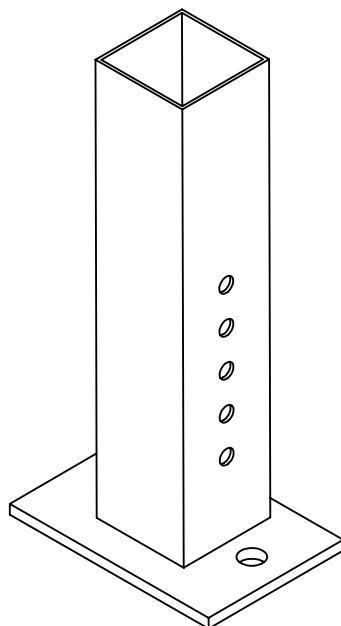
**IMPORTANT:** Installation of blind connection bolts cannot be reversed! Follow instructions when installing these fasteners.

Use Right-Threaded  
Eyebolt for Pulley  
Assembly



AS5011  
Pulley

GW1176  
Turnbuckle



106762 Pulley Bracket



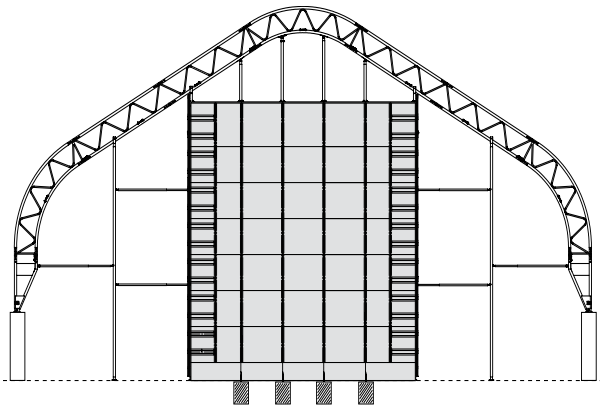
All-Purpose Snap  
AS3156



Cable Thimble  
AS1085



Tek Screw  
FA4482B



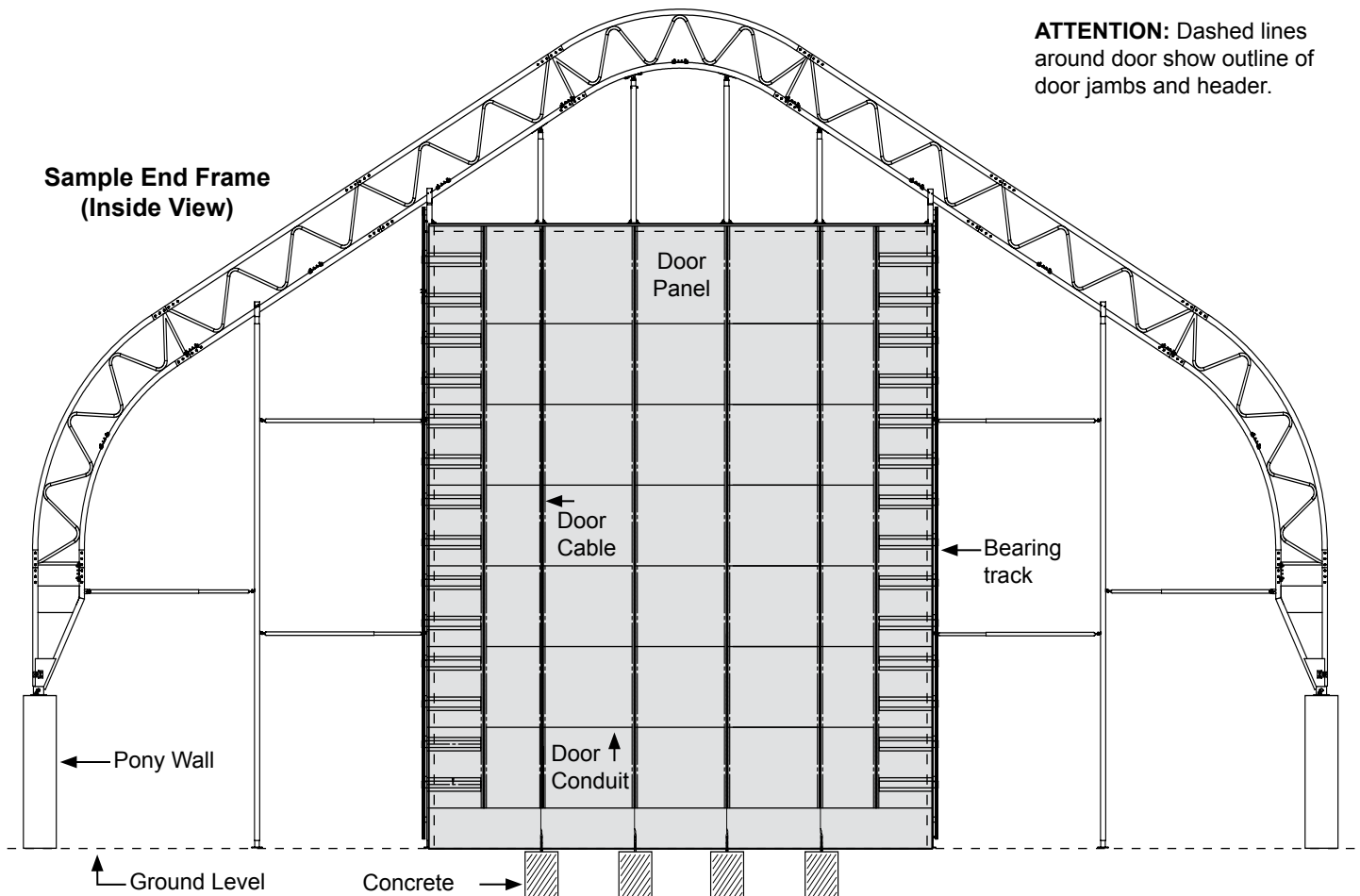
## ClearSpan™ Giant Gathering Door Kit

### OVERVIEW

This section describes how to assemble gathering door. See illustration below to identify main door parts.

1. Locate required parts for each assembly procedure.
2. Assemble building end frame and attach end panel. Cut door opening in end panel and secure panel.
3. Attach track brackets to door jambs and assemble; attach bearing track to brackets.
4. Attach cable pulley brackets to door header and attach pulleys.
5. Attach bearings to door panel, glue PVC door conduits, and cut to required length. As door is pulled into position, insert conduits into door panel pockets and install cable guide sleeves.
6. Secure top of door to header using Tek screws, neo-bonded washers, and aluminum bar stock.
7. Install winch. See comments on Page 3.
8. Drill conduits for cables and thread cables through cable guide sleeves, conduits, and pulleys.
9. Install cable clamps to secure to conduits to cables.
10. Attach main cable to winch according to instructions supplied with winch.
11. Prepare holes for concrete anchors, add anchor chains, and add concrete for door anchors. Allow to set.
12. Test door, clip door to anchor chains, and tighten with winch.

**ATTENTION:** Dashed lines around door show outline of door jambs and header.



# 1

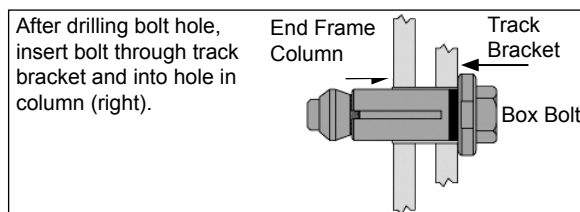
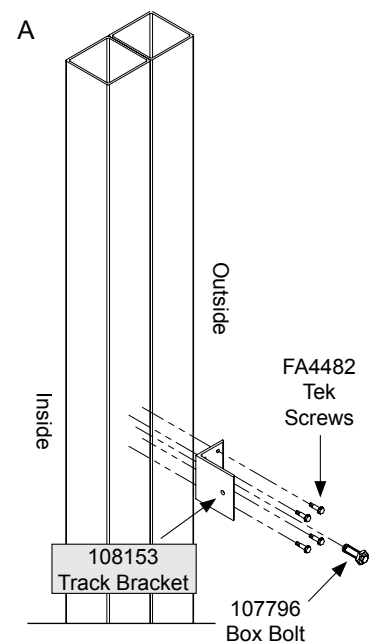
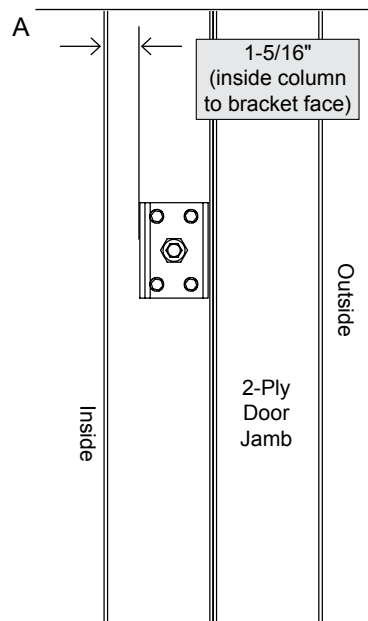
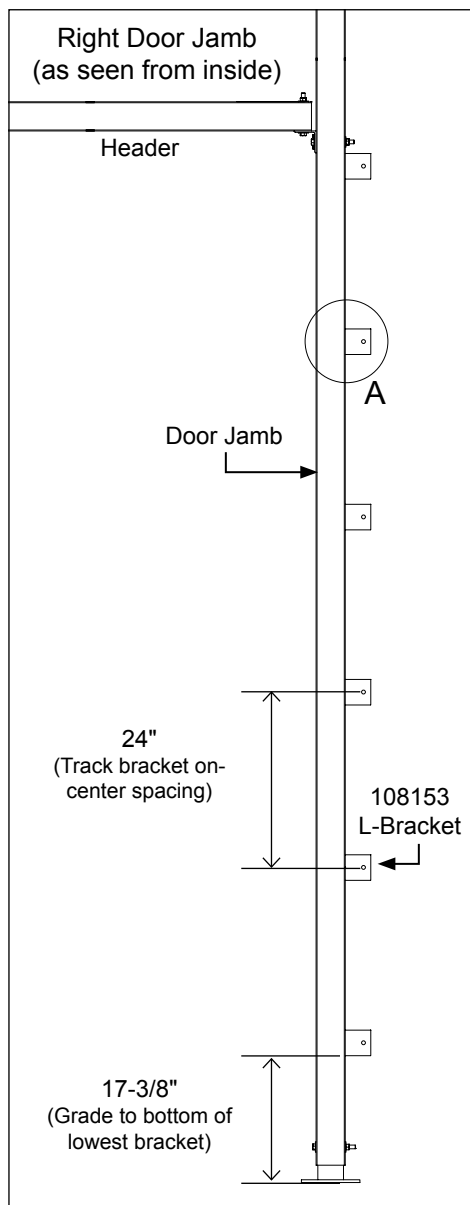
## ATTACH TRACK BRACKETS (108153)

After end frame installation, mark locations for 108153 track brackets on each door jamb. *Set brackets 24" on-center and 1-5/16" back from inside edge of jamb. Distance from grade to lower bracket is 17-3/8". See diagrams below and in Quick Start section near back of this guide.*

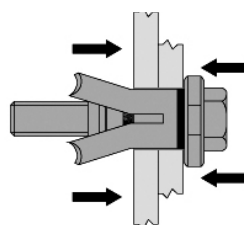
1. At the first location, place bracket on door jamb 1-5/16" back from inside face of jamb, square its position on jamb, and secure using four (4) Tek screws.
2. Next, drill a 5/8" hole in jamb using center hole in bracket as a guide.
3. Insert a 5/16" (107796) box (blind connection) bolt through bracket and into jamb.
4. Verify bracket is positioned correctly and tighten box bolt. See diagrams below for bolt tightening instructions.

**IMPORTANT:** Installation of box bolts cannot be reversed! Install as shown.

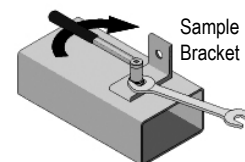
5. Repeat to attach all remaining 108153 track brackets to door jambs.



Screw or clamp tightly together (below diagram).



Hold box bolt collar with a wrench and tighten *center bolt* using wrench or socket. Exercise caution if using an impact driver and socket.





# 2

## ATTACH BEARING TRACK TO 108153 TRACK BRACKETS

Complete these steps to install bearing track:

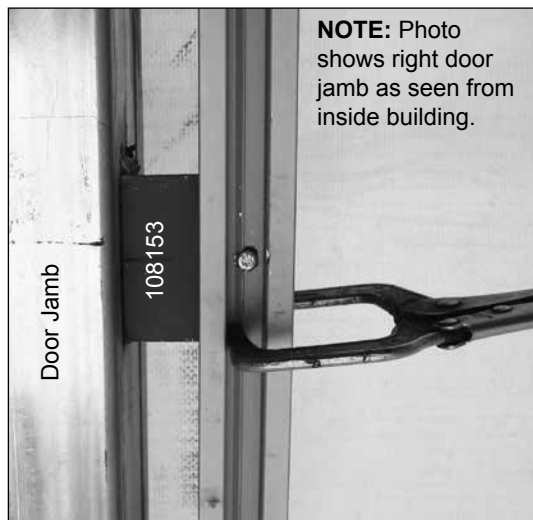
1. With assistance, measure required length and assemble and cut (if needed) the bearing track. See technical diagrams in Quick Start section near back of this guide.

**NOTE:** Bearing track begins 6" above grade and runs 6"-8" above header. Use these dimensions as guides when determining bearing track to length and attaching to 108153 track brackets. See Quick Start section.

To splice two sections of bearing track, cut an 8" section of track channel and secure it to backside of track sections over joint as shown in diagrams.

**If a splice is needed, do not splice where track attaches to bracket.**

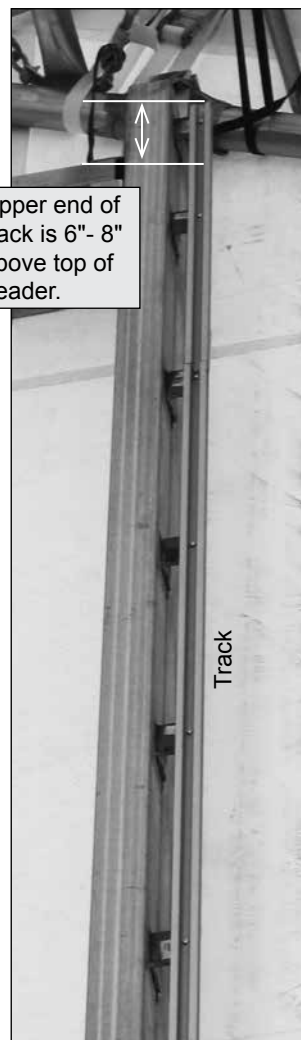
2. Place assembled bearing track against track brackets and clamp in place.



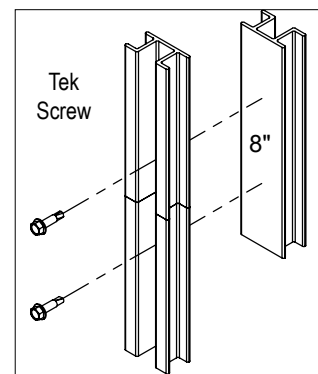
**NOTE:** Photo shows right door jamb as seen from inside building.

**NOTE:** Install bearing track flush with outside edge of each track bracket.

3. Drill a 5/16" hole through bearing track at each bracket using hole in bracket as template.
4. Attach track using 1/4" bolts (FAG304B), flat washers (FAME16B), and lock nuts (FALF35). Tighten all bolts.
5. Repeat steps to assemble and attach remaining bearing track to track brackets.

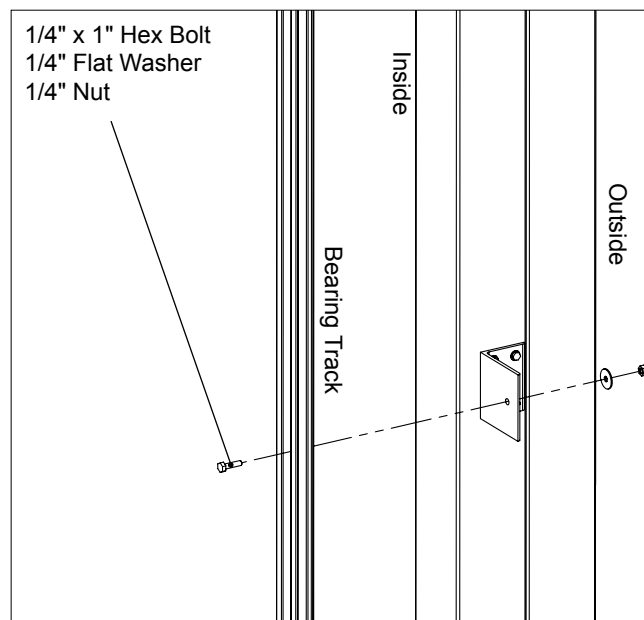


Upper end of track is 6"-8" above top of header.



**NOTE:** Diagram shows how to splice two track sections. Use 1" Tek screws and an 8" section of aluminum track to splice channels.

To avoid conflicts with bearing assemblies, install Tek screws through bearing track into 8" splice section as shown.



Field drill holes in bearing track for 1/4" fastener.

# 3

## ATTACH 106762 PULLEY BRACKET

The 106762 pulley bracket helps guide cables to winch. Pulley bracket may be installed on either side of door, depending on customer preference. Regardless of position, *install pulley bracket on side where winch is located*. Typical position is inside building.

Complete these steps to attach pulley bracket:

1. Measure 4" to 10" from top of header and mark location on door jamb.
2. Mark center of bracket mounting plate (top to bottom) and align center mark with mark on column (Step 1).
3. Center bracket mounting holes on door jamb and mark hole positions.
4. Set bracket aside and drill mounting bolt holes in jamb using a drill and 13/16" drill bit.
5. Clamp bracket to jamb and secure using 1/2" (107798) box bolts. Refer to Procedure 1 to correctly install box bolts if needed.
6. With bracket secured to jamb, install each pulley assembly. See diagram for correct nut and washer placement.

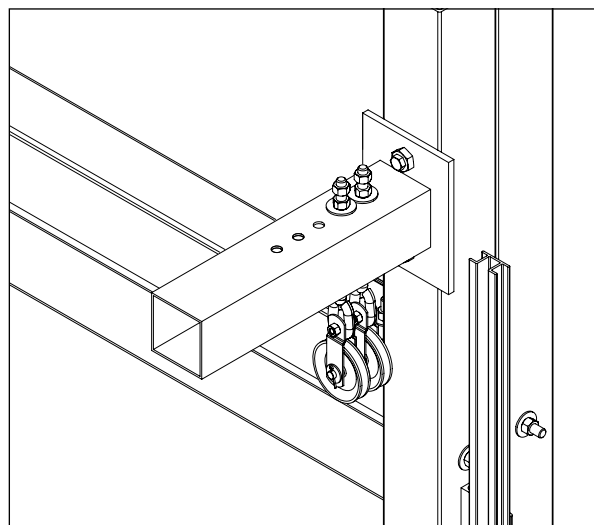
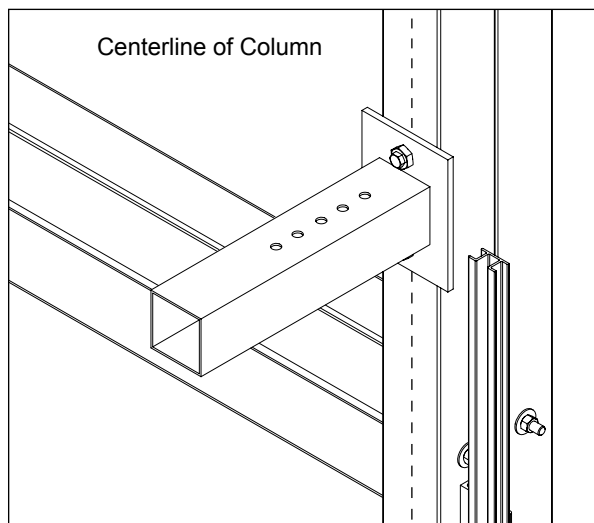
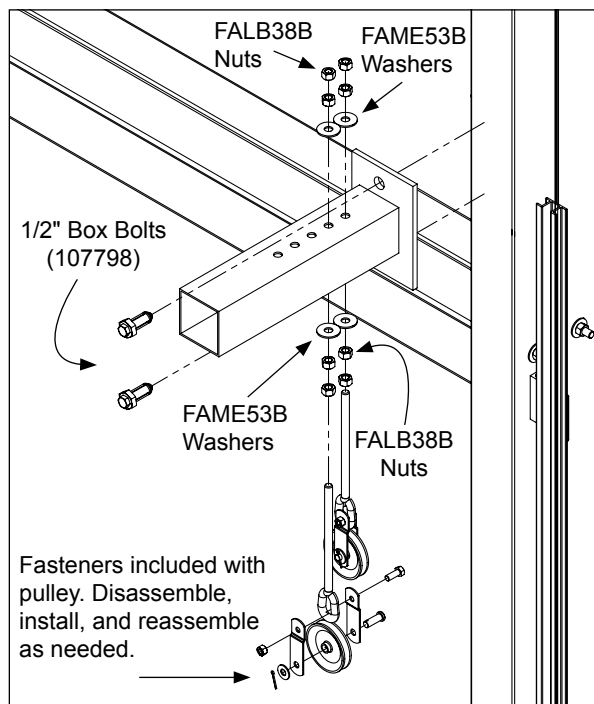


**NOTE:** Remove right-threaded eyebolt from turnbuckle (GW1176) and attach to cable pulley. Use fastener hardware shown in top diagram.

7. Install one pulley for each door cable. When installed correctly, pulleys swivel freely to keep cables aligned during operation.
8. Adjust nuts on threaded eyebolt to extend pulleys to lowest possible position with all nuts installed to allow maximum adjustment of pulleys to tension cables when installed.

**NOTE:** Do not tighten locking nuts at this time.

9. Continue by preparing door panel for installation.





# 4

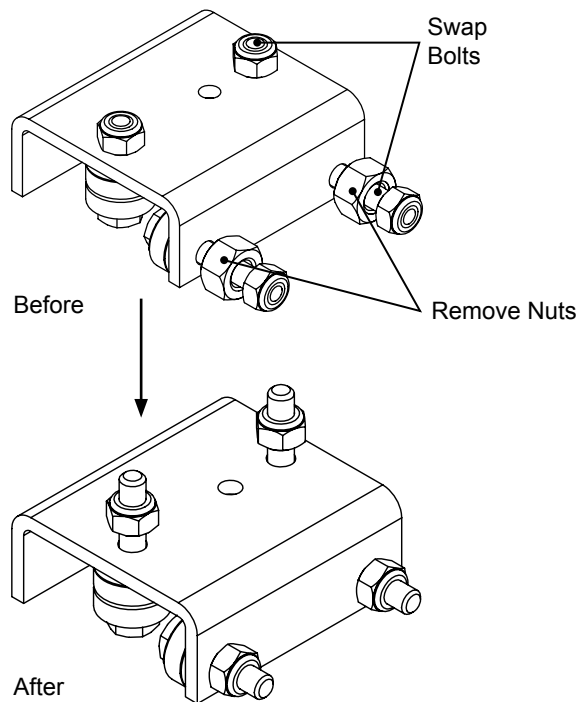
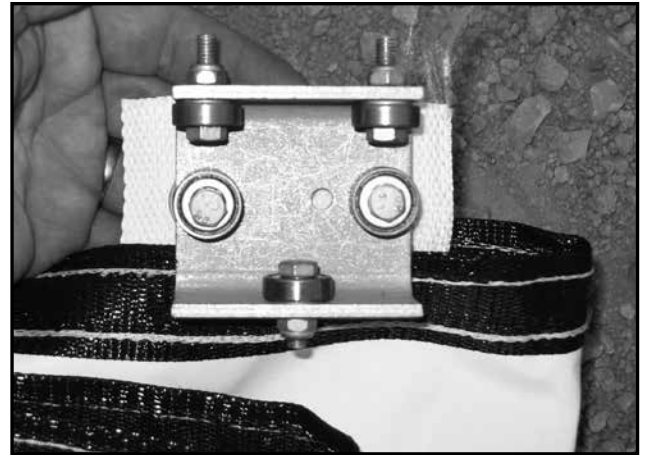
## ATTACH BEARINGS TO DOOR PANEL

Complete these steps:

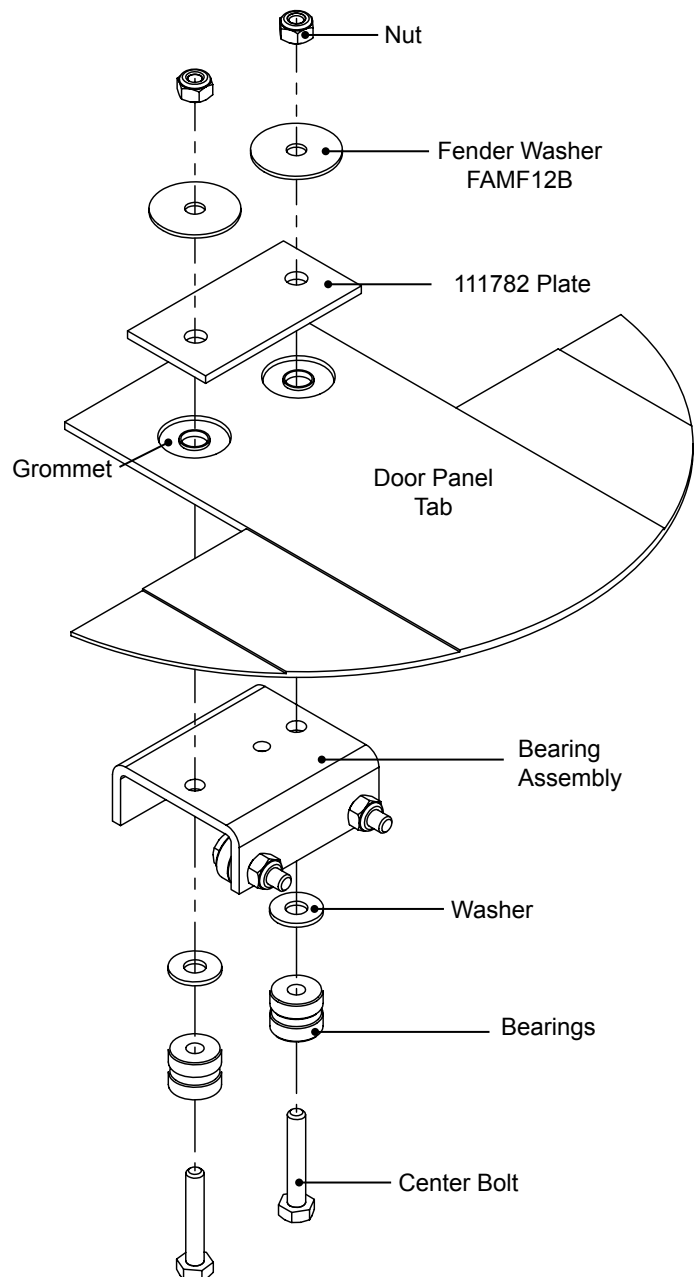
1. Spread door panel out on a smooth, flat, clean surface with *conduit pockets and straps facing up*.
2. Swap bearing bolts as shown below.

**NOTE:** Depending on how original bearing was assembled, it may be necessary to switch positions of long and short bolts. See diagrams below and swap bolts if needed so longer bolts are in center position.

3. Attach bearings to panel tabs (right diagram). Tighten using a 10mm socket or wrench.
4. Repeat steps until all bearings are attached to door panel tabs.



**IMPORTANT:** When correctly installed, 111782 plates, nuts, and fender washers of each bearing assembly are visible from inside the building when door panel is installed and closed.



# 5

## PREPARE PVC AND 2.375" CONDUITS

**ATTENTION:** Actual number of horizontal pockets may differ. Sample panel is 14' x 14'.

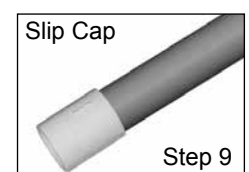
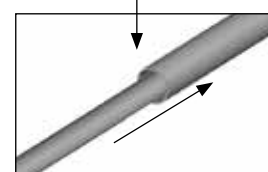
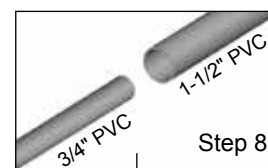
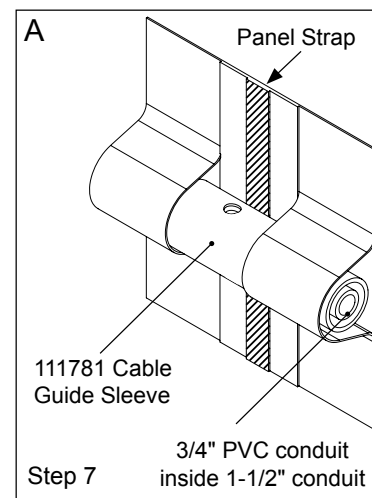
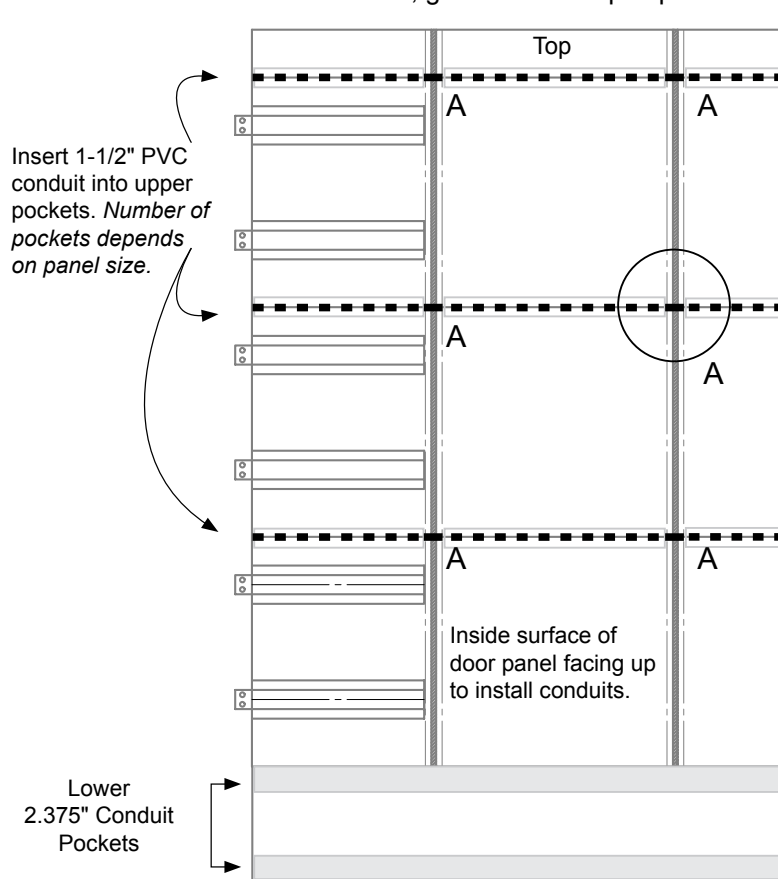
1. Connect individual sections of 3/4" (108128) and 1-1/2" (WF4140) PVC conduit, glue joints, and allow to dry.
2. For all PVC conduits (upper panel pockets), measure door frame (**outside-to-outside of jambs**) to determine required PVC conduit length. *PVC conduits ride on door jambs once door is installed.*
3. Cut each 1-1/2" and 3/4" PVC conduit assembly to the length determined in Step 2 and set assemblies aside.
4. Next, measure the **inside-to-inside door frame** dimension to determine required 2.375" metal conduit length. *Metal 2.375" conduits rest between door jambs once door panel is installed.*
5. Locate the 2.375" pipe and cut to length determined in Step 4. Create two (2) conduits for lower two (2) pockets.

**NOTE:** When connecting 2.375" pipe, secure each joint using two (2) Tek screws and wrap duct tape over screws and joint to protect panel pocket. *Cut metal conduits to the inside-to-inside dimension of door frame (Step 4).*

6. With all conduits assembled, position door panel inside building at base of door opening. Cover site with plastic or other material to protect panel. Place unfinished panel edge at door frame with pockets and straps facing up.
7. Insert the 1-1/2" PVC conduits into upper pockets. Sample door shown below. *Actual number of panel pockets depends on panel dimensions.*

**NOTE:** Review details below and in Quick Start section and install a 111781 cable guide sleeve at each black strap location on panel where there is an opening in conduit pocket. For best results, have an assistant slide conduit into pocket while another slides cable guide over PVC at each strap location. Center conduit in pocket.

8. After installing all 1-1/2" conduits and cable guides, slide one 3/4" PVC assembly into each 1-1/2" PVC conduit.
9. Once PVC conduits are installed, glue a 1-1/2" slip cap to the end of each 1-1/2" PVC conduit.



## 6

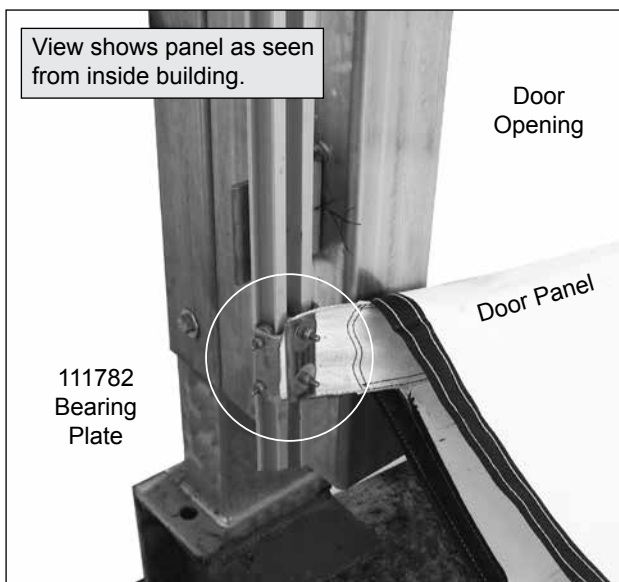
# ATTACH DOOR PANEL TO HEADER

Complete these steps:

1. With PVC conduit installed and door panel spread out at door opening inside building, verify that plain edge (no pockets) is at base of door jambs.
2. Tie ropes (customer-supplied) to upper PVC conduits at each cable sleeve location and toss free rope ends over door header.

**NOTE:** Depending on panel size and weight, have assistants pull panel into position, or employ other means to pull/lift panel.

3. Fold panel top back to reach first set of bearings and align these with bearing tracks attached to door jambs. Panel is correctly positioned when flat 111782 plate is visible and toward the inside of the building.
4. Carefully lift/pull panel and align first set of bearings with bearing tracks.



5. Slowly continue pulling panel into place while aligning and guiding each set of bearings onto tracks. Repeat until all bearings are on bearing tracks and panel covers door opening.

**IMPORTANT:** To prevent damage, do not force or pull too hard on door panel. Bearings should move freely on each track during and after installation.

**WARNING:** To prevent damage to door panel and to prevent serious personal injury, **DO NOT** attempt to install panel on windy or stormy days.

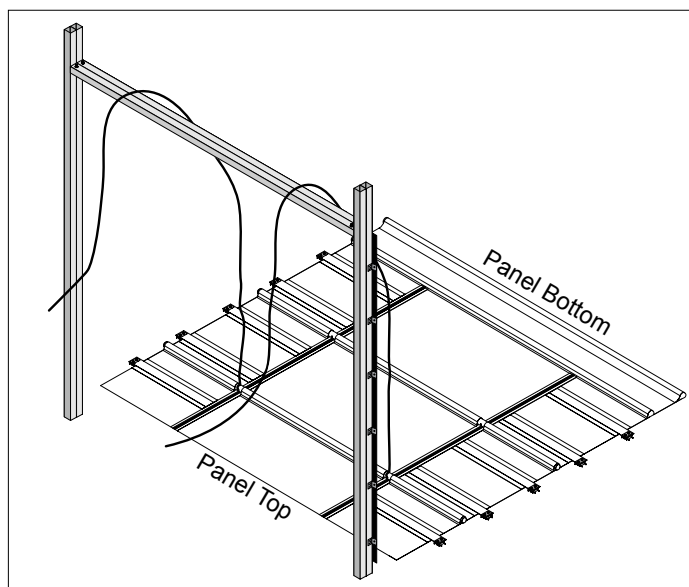


Diagram shows panel staged inside building with ropes tied to upper PVC conduit of panel and tossed over header to pull panel into position.

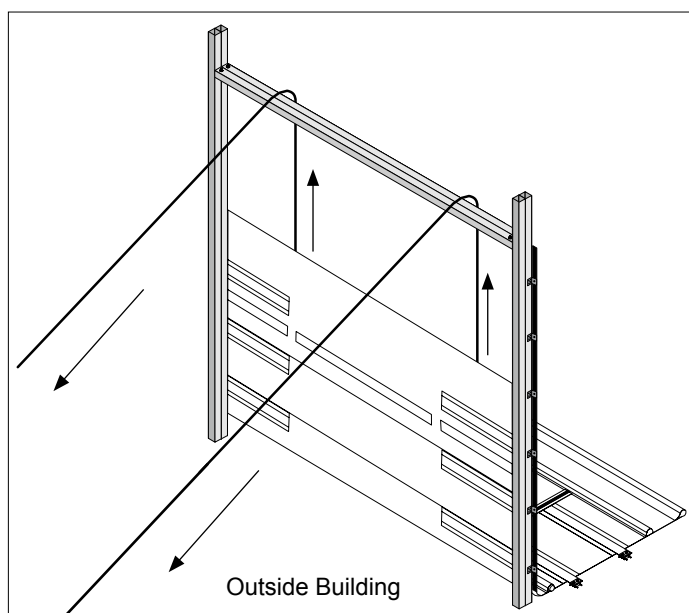
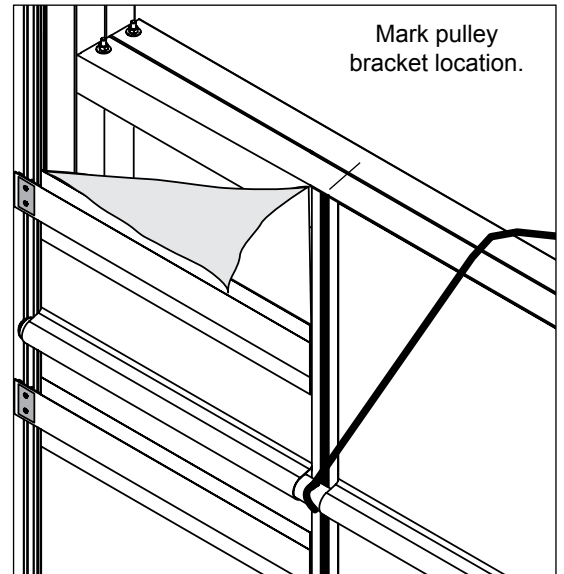
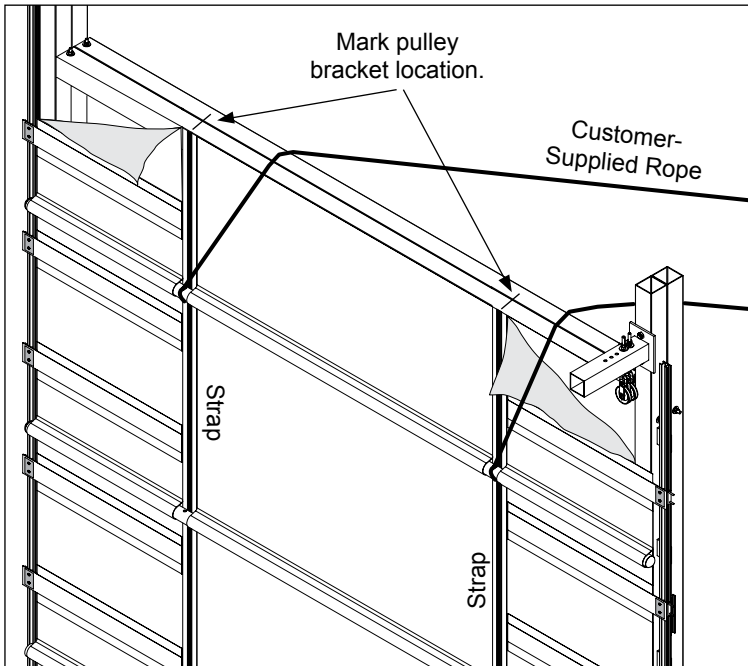


Diagram shows panel partially pulled into place. As panel is pulled, side bearings are guided into bearing tracks.

# 6

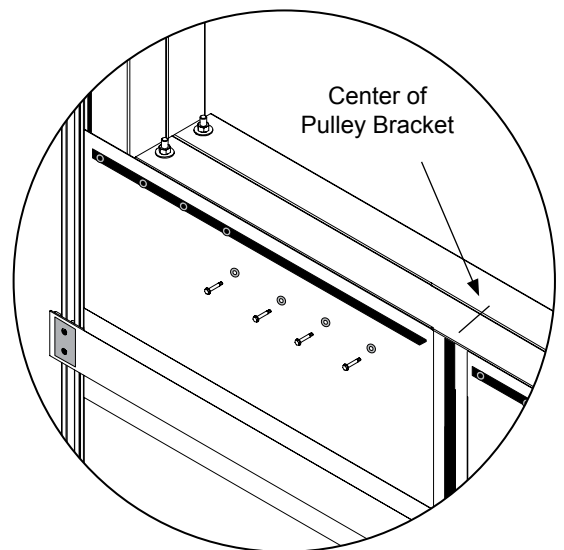
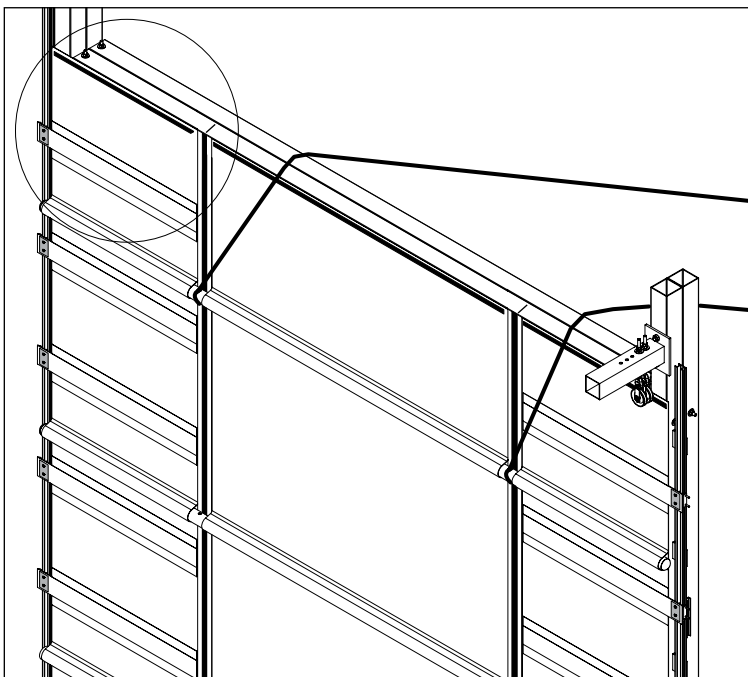
## ATTACH DOOR PANEL TO HEADER – continued

6. Move to header and mark pulley bracket (108155) locations using panel straps as guides.



Pull panel flap up and place flat against header. Use black strap on door panel to mark center of pulley bracket on top of header.

7. With assistance, take upper edge of panel and secure to header using 1/4" x 1-1/4" aluminum bar stock, FA4482B Tek screws, and 102921B neo-bonded washers. Keep panel stretched evenly as panel top is attached.



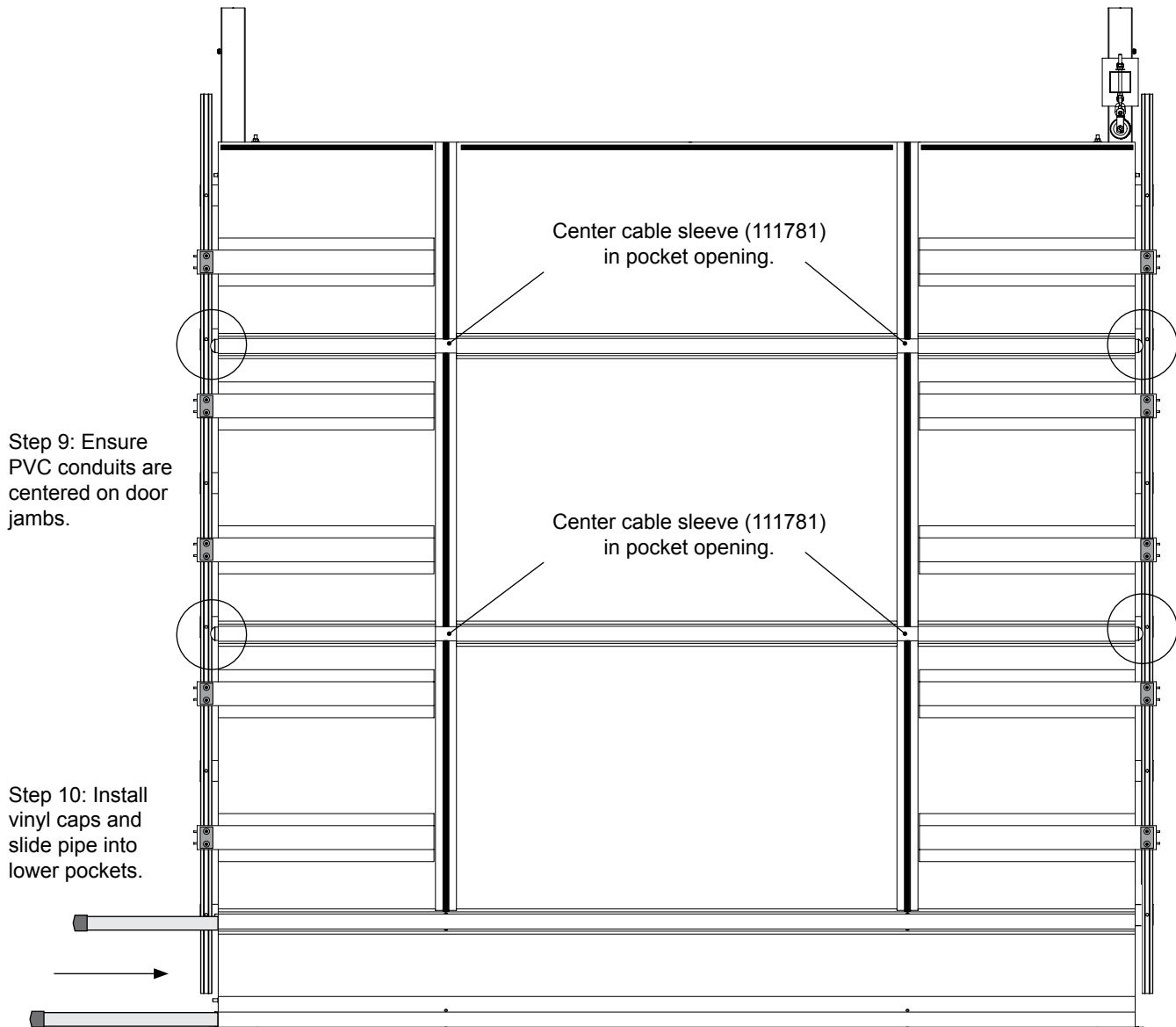
Use FA4482B Tek screws and 102921B neo-bonded washers to secure aluminum strap to header.

**ATTENTION:** Do not install aluminum strap in areas where 108155 pulley brackets will be installed. Positions of these brackets align with vertical straps of panel as marked in Step 6.

# 6

## ATTACH DOOR PANEL TO HEADER – continued

8. With panel attached at top, remove all ropes and allow panel to hang from header in closed position. Move to bottom of panel and evenly spread panel between bearing tracks.
9. Verify that all PVC conduits are centered in door panel pockets. Conduit ends should be against door jambs with an equal length on each jamb. Reposition cable sleeves as needed so each is centered in panel pocket opening.



10. Install 112160 vinyl caps on 2.375" conduits and slide conduits into lower pockets. Center between door jambs.
11. Continue by attaching 108155 pulley brackets to header.

# 7

## ATTACH PULLEY BRACKETS (108155) TO HEADER

Complete these steps:

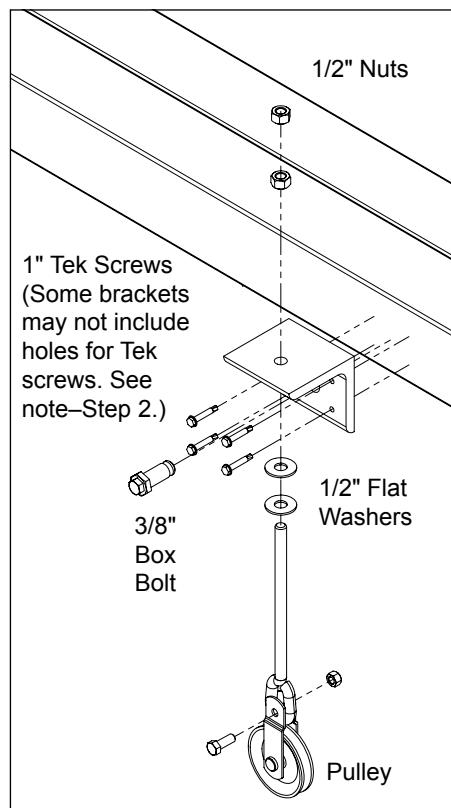
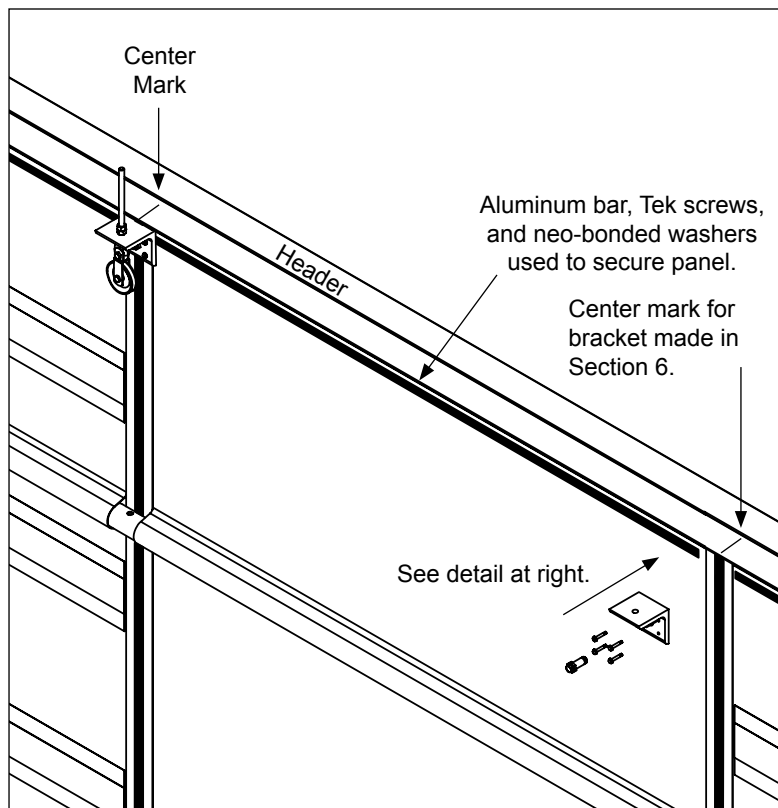
1. With panel installed, align a 108155 bracket with first reinforcing strap in door panel. See marks on header made in Procedure 6 if needed.

**NOTE:** The number of 108155 pulley brackets matches number of vertical reinforcing straps in door panel. (Example shows two (2) pulley brackets attached to header.) Verify number using table below, or simply count straps on panel and compare. (May not apply to custom panels or door widths not shown in table.)

2. Place bracket on installed door panel between aluminum straps with bracket edge flush with bottom of header and secure using four (4) Tek screws.

**ATTENTION:** If bracket does not include 1/4" holes for Tek screw installation (as shown in diagrams), clamp bracket to header, or mark center of 3/4" hole and continue with next step.

3. Using bracket hole as a guide (or the mark made in previous step), drill a 3/4" hole through panel and header.
4. Insert a 3/8" (107797) box bolt through hole in pulley bracket and header. (Clamp bracket to header if Tek screws are not used.) Tighten box bolt using instructions presented in Procedure 1.
5. Assemble and attach pulley as shown. When mounted properly, pulley will swivel. Set a small gap between bracket and flat washers by adjusting first nut. Next, tighten second nut against first to maintain and lock.
6. Repeat steps to attach remaining pulley brackets and install pulleys. See below.



DOOR WIDTH	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"
NUMBER OF PULLEY & CABLE RUNS	2	3	3	3	3	4	4	4	4	5
PULLEY & CABLE SPACING	6'-5"	4'-2 1/2"	5'-2 1/2"	6'-2 1/2"	7'-2 1/2"	5'-5 11/16"	6'-1 11/16"	6'-9 11/16"	7'-5 11/16"	6'-1 1/4"



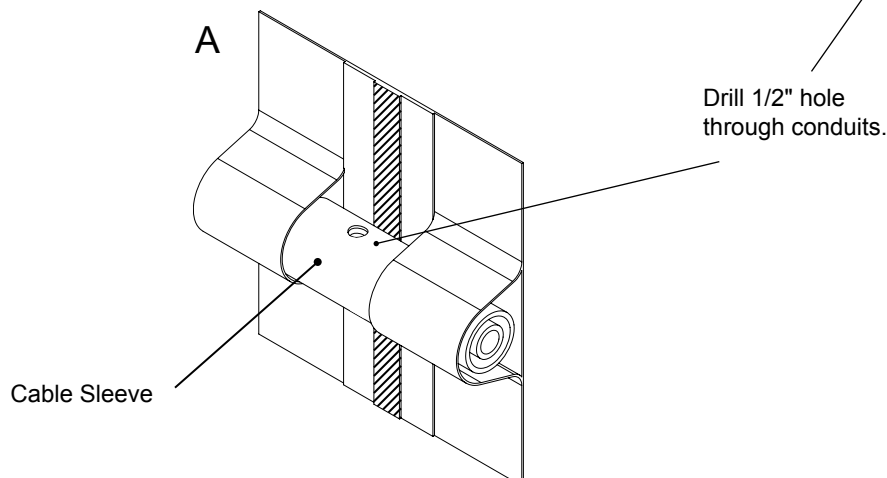
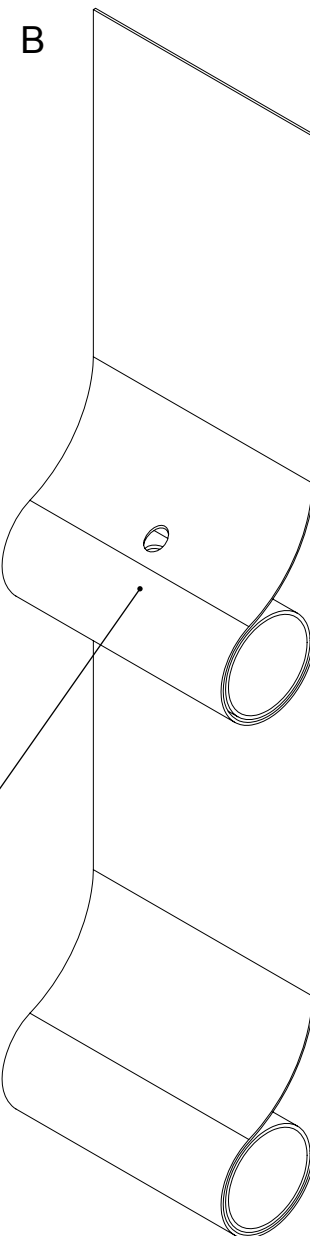
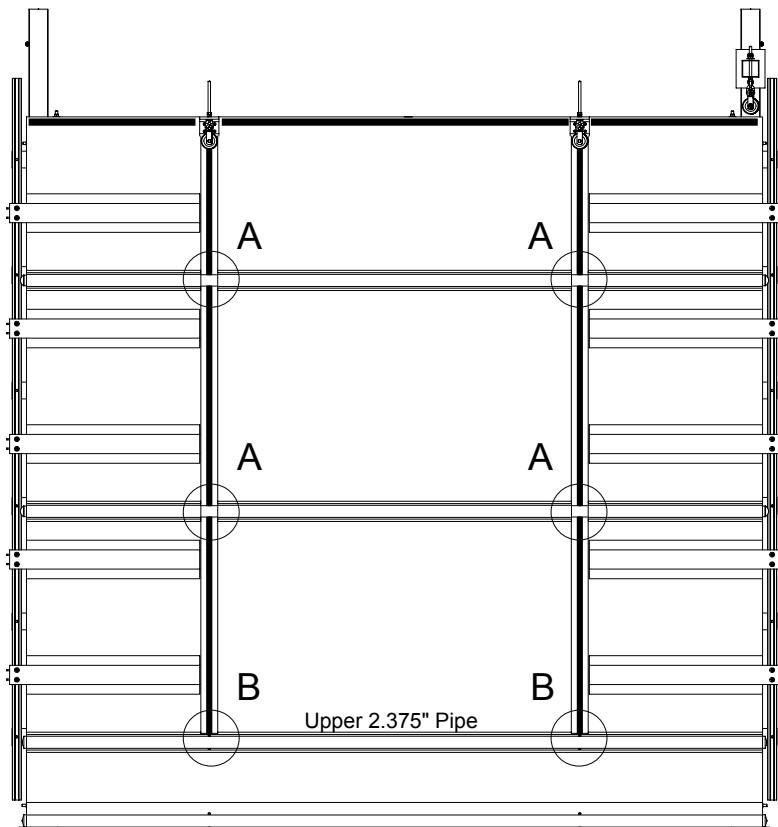
# 8

## INSTALL CABLES

**IMPORTANT:** If the WEMK110574 Winch Kit was purchased, read those instructions to better understand required winch position and cable lengths. Winch includes cable; some cable from the original gathering door kit may remain unused when winch kit is installed.

Cables connected to a winch are used to open and close the gathering door. (*Procedure that follows assumes winch is installed according to instructions presented earlier in this guide – page 3.*) Complete these steps to install cables:

1. Drill a 1/2" hole in each PVC conduit using the metal cable sleeve as a guide. Drill hole through top of conduit and out bottom. Exercise caution to prevent damaging door panel. Hole should align with center of black strap. See diagrams below and in Quick Start section.
2. Move to upper 2.375" conduit from top and drill a 1/2" hole through that pipe in each cable location. Align holes with straps and holes in upper PVC conduits. If needed, mark cable hole location, then remove pipe from pocket to drill. Insert conduit back into pocket and realign holes to prepare for cable installation.

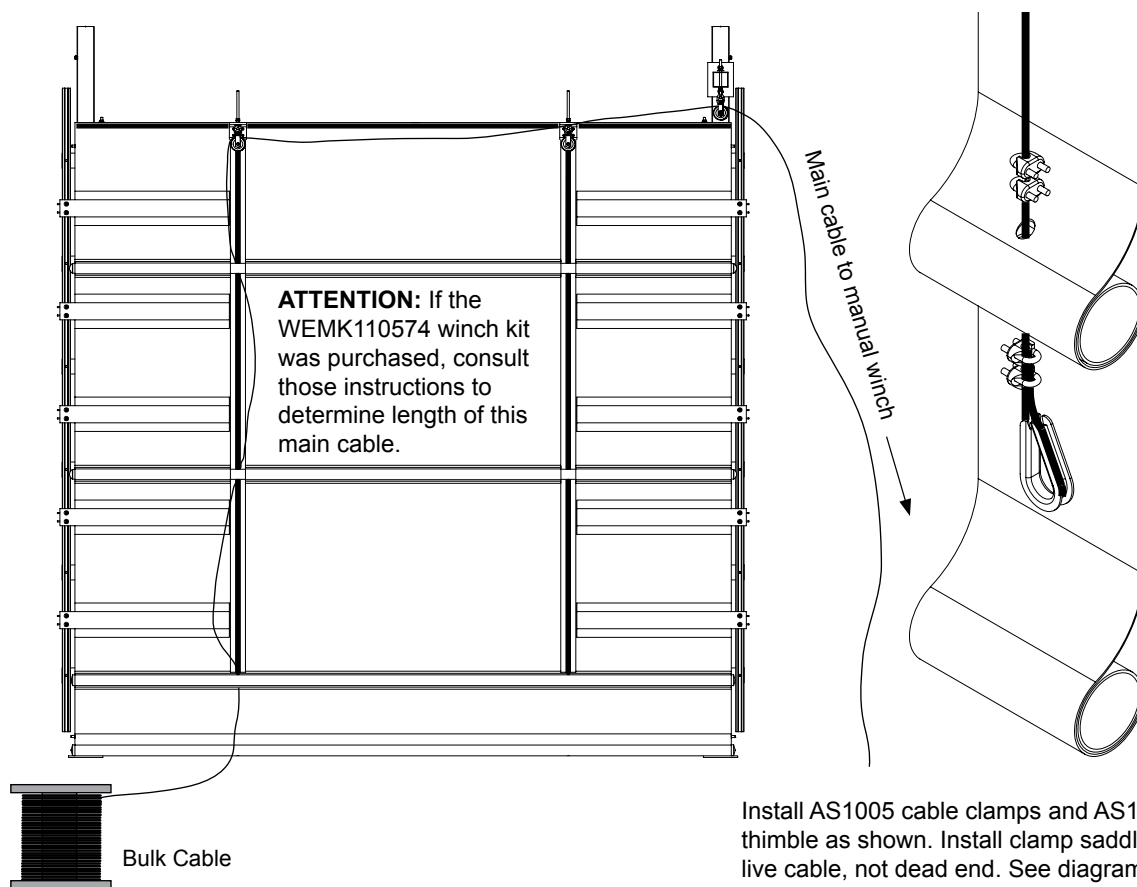


# 8

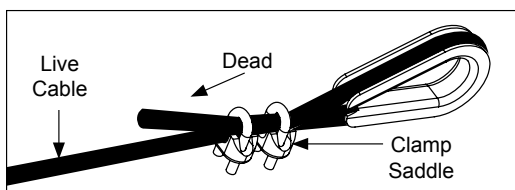
## INSTALL CABLES – continued

3. Beginning at panel edge *farthest* from the 106762 pulley bracket (installed in Procedure 3), set bulk cable at base of door frame. *Assistance is recommended when installing cable.*
4. Thread free end of cable up and through 1/2" holes in 2.375" metal conduit in panel pocket. Continue threading cable up through PVC conduits to top of panel.
5. Run cable up to and over pulley attached to 108155 bracket at header. Continue pulling cable over innermost pulley (closest to header) attached to 106762 universal pulley bracket. Finally, pull cable down to mounted manual winch (included with gathering door) and connect as instructed by winch manufacturer.

**ATTENTION:** If winch is electric (additional purchase required), *verify that power supply to winch is disconnected.* If the WEMK110574 Winch Kit was purchased, review those instructions to determine where main gathering door cable stops and how to finish the end of that cable. It does not run down to the winch. **Winch includes cable.**



6. After connecting cable to manual winch, crank winch as needed to wrap cable around winch reel a few times. **(For electric winch, disconnect power after wrapping cable. Winch with WEMK110574 kit includes cable.)**
7. Move back to bulk cable spool and cut cable to length allowing approximately 12" extra to install cable thimble and clamps. Using diagram (above), install clamps and thimble to secure first cable. *This is main cable to winch.*

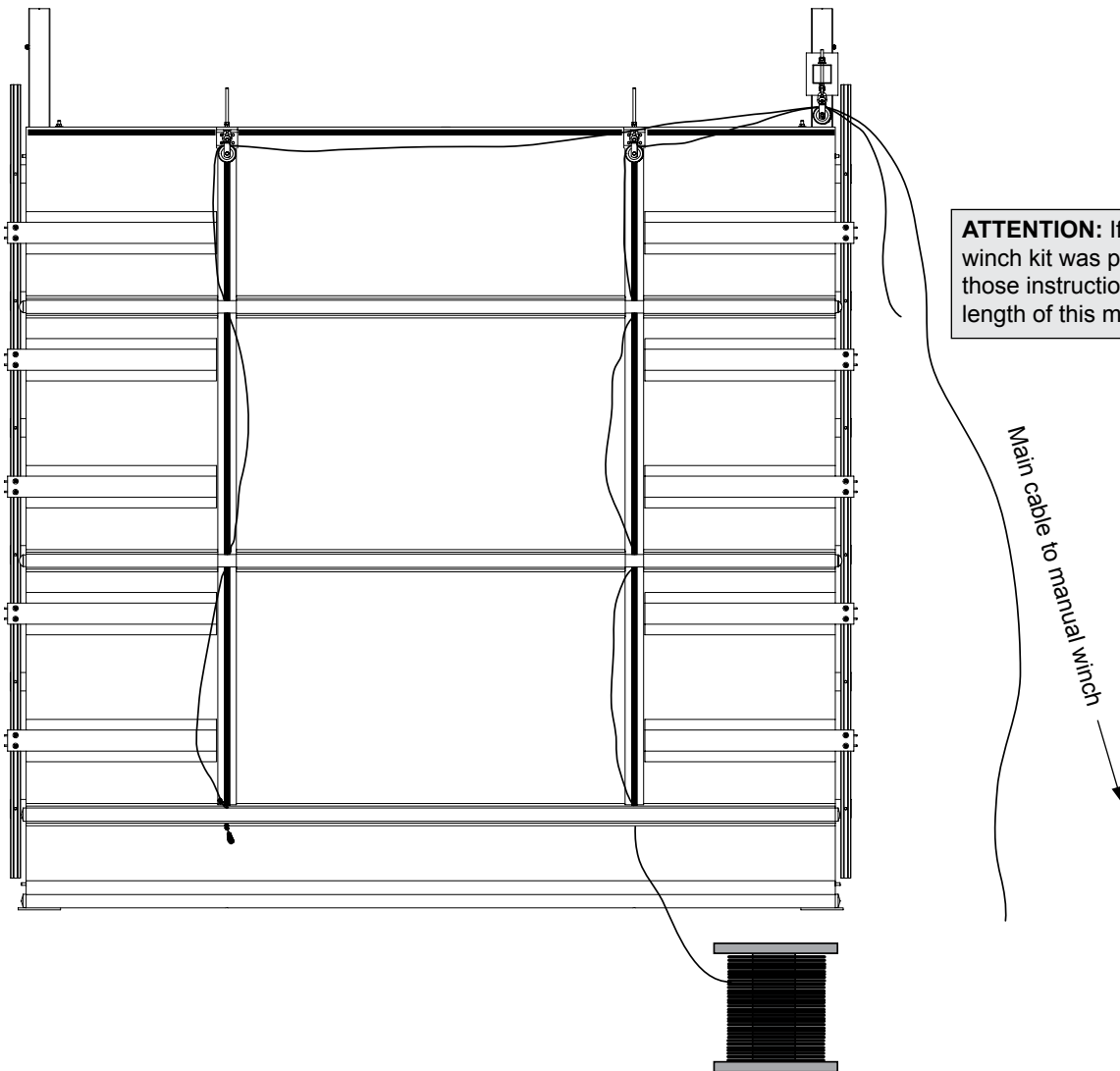


**ATTENTION:** Install clamp saddle over live cable end.

## 8

## INSTALL CABLES – continued

8. Move bulk cable to next pulley position and thread cable through 1/2" holes in conduits. Run cable through pulley attached to header and over to next pulley attached to 106762 bracket (moving outward from header).
9. Pull approximately 2' – 3' of cable through pulley and temporarily tape loose cable end to main cable to keep cable from feeding back through pulleys.



10. Return to bulk cable, cut cable to length, and secure as described and shown on previous page.
11. Repeat Steps 8 & 9 to install all remaining gathering door cables.
12. Once all cables are threaded through conduits and pulleys, continue with next procedure.

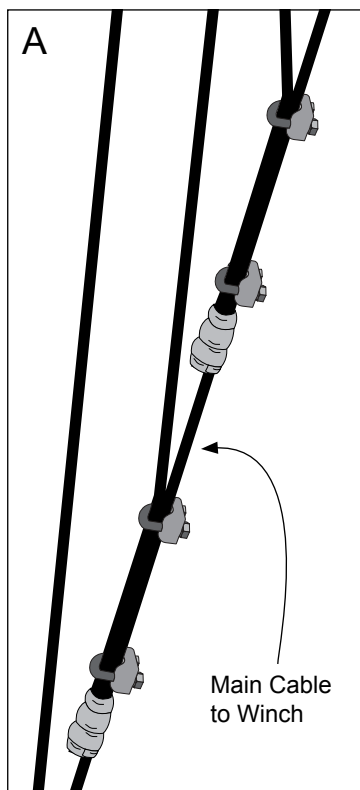
# 9

## ATTACH CABLES TO MAIN WINCH CABLE

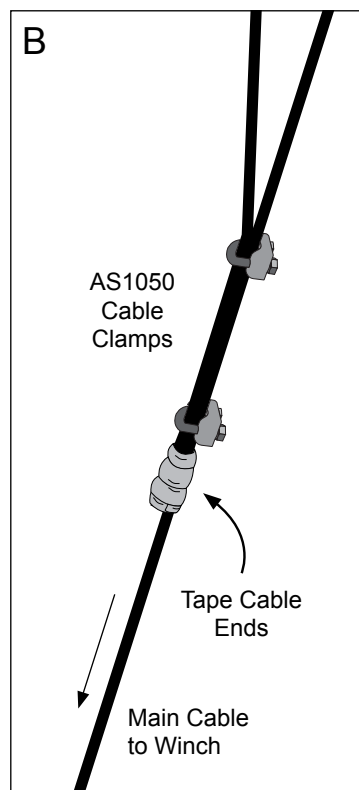
**ATTENTION:** If the WEMK110574 winch kit was purchased, consult those instructions to determine how to complete this connection.

After installing all cables (Procedure 8), attach cable free ends to main cable attached to manual winch.

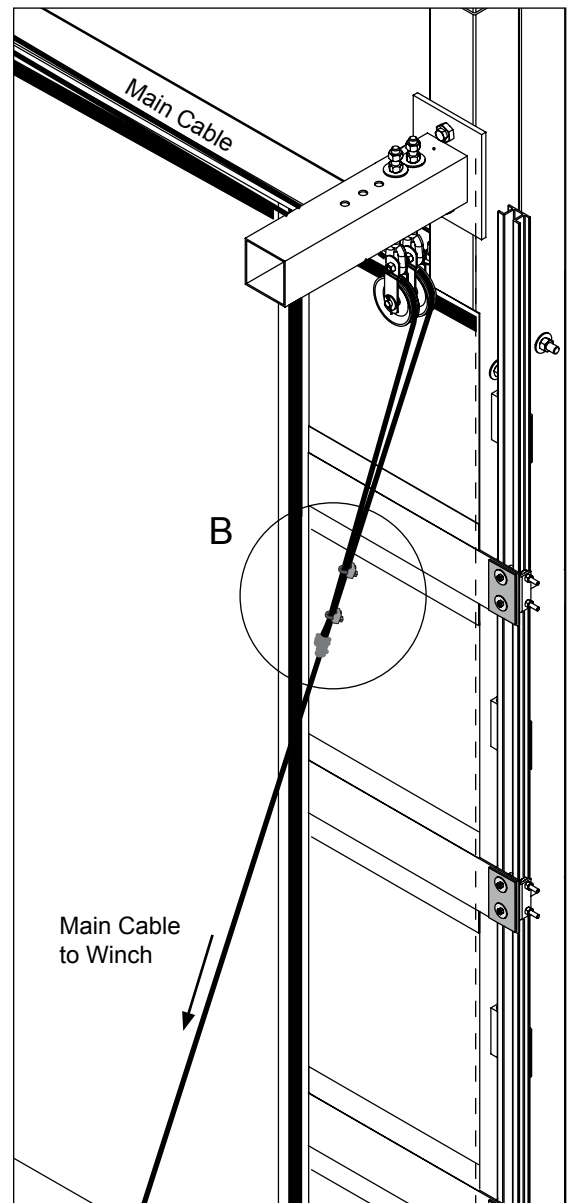
1. Verify that all cables are seated properly in each pulley. Check pulleys to ensure each can swivel in bracket and that all are fully extended to allow for maximum adjustment.
2. Slightly tighten *main cable* using winch (if needed) to remove all slack. Ensure door panel remains closed during this step.
3. Move to each remaining cable and pull to remove slack from each of these cables.
4. Attach each cable to main cable using one cable clamp per cable positioned 3"– 4" from free end of each cable. Stagger connection points as needed. Trim cable ends to allow cables to mate properly with main cable if needed.
5. Attach another cable clamp to each cable 5"- 6" from first clamp.
6. Tape free end of each cable to main cable to prevent tangles and fraying.
7. Test operation of door and adjust cables as needed so each has comparable tension. **See Procedure 10 to adjust cables.**
8. Continue by constructing anchors for gathering door.



**NOTE:** Diagram A (above) shows additional cables. Stagger connection points (Step 4).



**ATTENTION:** Example shows a gathering door with two (2) pulleys/cables. Actual door and pulley positions (in 106762 bracket) may differ. **See WEMK110574 kit instruction if kit was purchased to finish the end of main door cable shown in diagrams.**

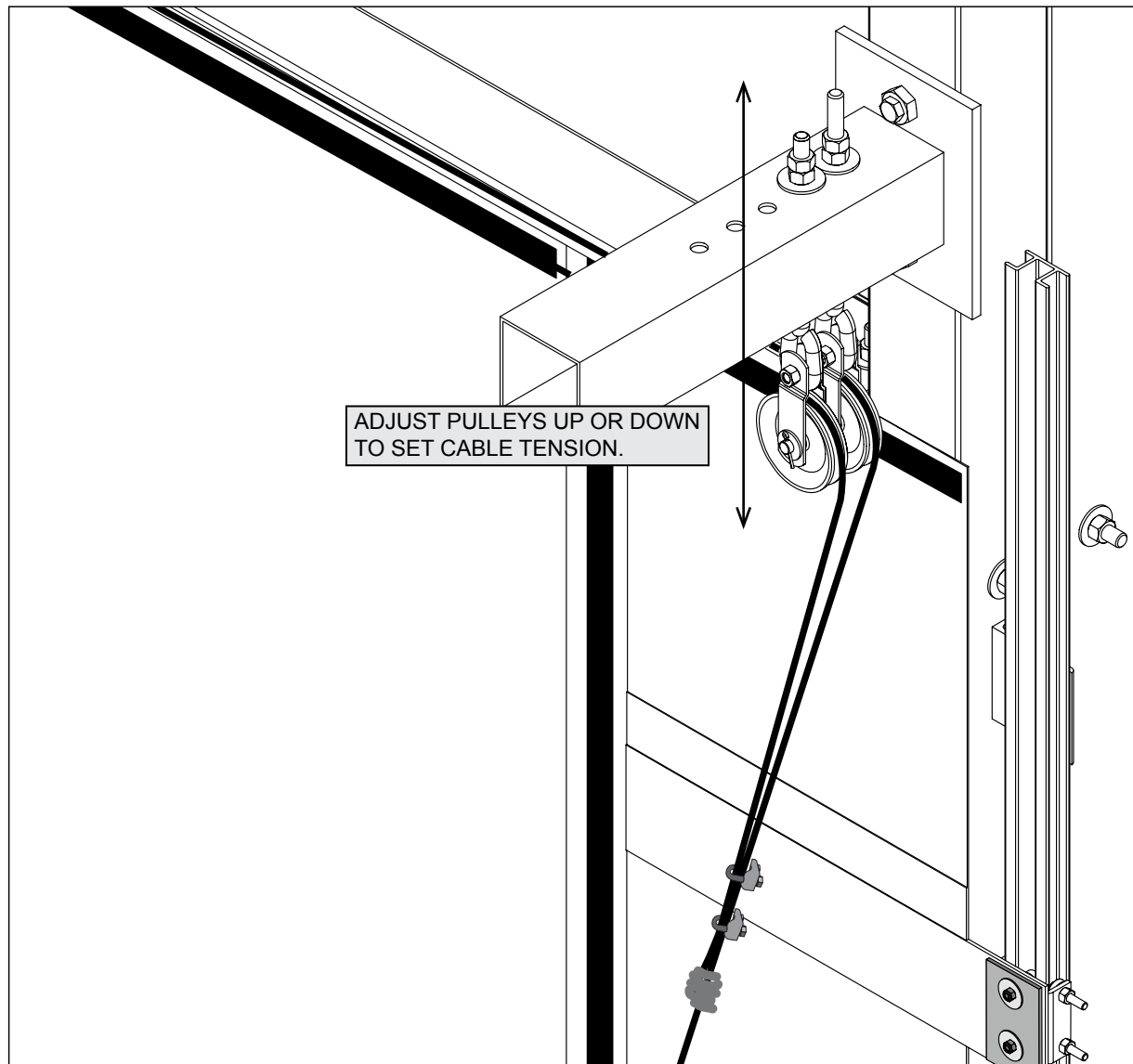


## 10

## ADJUST GATHERING DOOR CABLES

After cable installation it is important to adjust cable tension so all cables share door weight equally. Complete these steps to make final cable adjustments.

1. Lower door to closed position.
2. Verify that each pulley assembly is installed with two (2) nuts and a washer above the 106762 bracket and a washer and two (2) nuts below the bracket.
3. Move to the cable (or cables) that need additional adjustment and tighten nut closest to top of 106762 bracket on each pulley assembly.
4. Once cables are tensioned, lock pulley adjustment in place by tightening upper nut against lower nut.
5. Move to nuts on underside of bracket, adjust so pulley swivels, and tighten one nut against the other to maintain clearance. Pulley should swivel in bracket to allow cable alignment.
6. With all pulleys adjusted, test door operation.



# 11

## CONSTRUCT CONCRETE DOOR ANCHORS

Gathering door is locked closed using chains anchored in concrete footings. **Customer is responsible for preparing these footings and installing chains.** Consult services of an experienced professional contractor if needed to properly prepare footings.

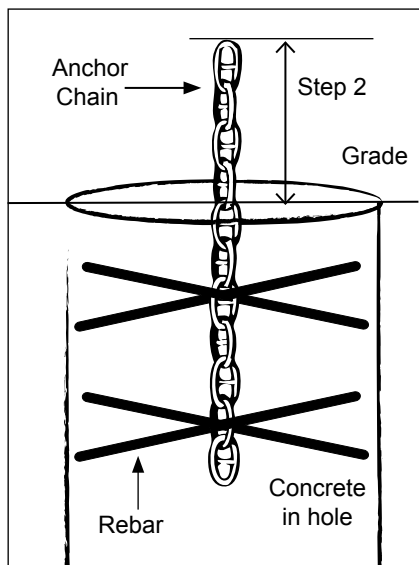
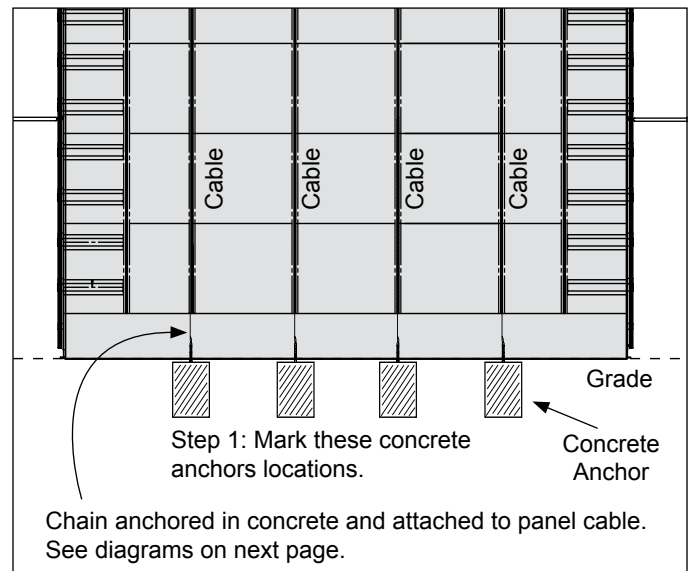
**NOTE:** You must install anchor chains! These instructions describe setting anchor chains in concrete footings dug into the site. If a concrete floor exists, or footings or walls are present, owner/builder must take additional steps to set anchor chains. Consult services of an experienced professional contractor if needed to properly secure anchor chains to site.

Complete these steps:

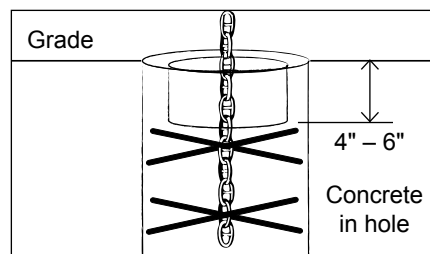
1. With door closed, mark each cable location on site.
2. Measure and record distance from grade to cable thimble at end of each panel cable. After measuring, raise door so it is opened and out of the way.
3. Directly below each cable, use a 12" auger to auger a 4' anchor hole. Remove soil to clear site.
4. Locate the AR5030Z02 anchor chains supplied with gathering door kit.

**NOTE:** Use one chain per lock location. For example, if door has three (3) cables, there will be three anchor chains for door.

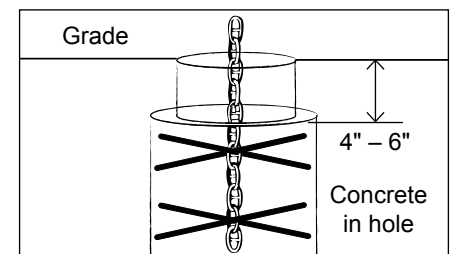
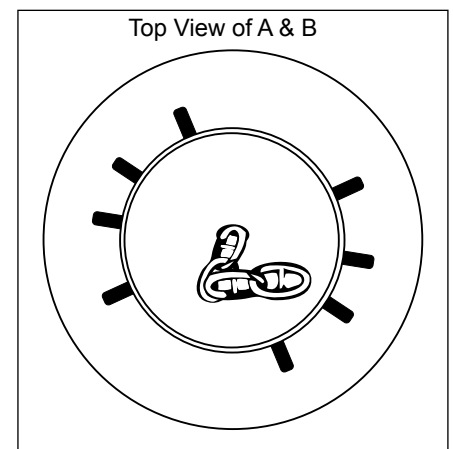
5. Using diagram below, insert rebar (or similar bar stock) through lower chain links of one chain.
6. Lower chain into hole leaving enough length *above grade* to reach thimble at end of panel cable *when door is closed* (Step 2). Fill hole with concrete and allow concrete to set.
7. Repeat steps anchor remaining chains in concrete.



**ATTENTION:** Examples A & B show alternative ways to set anchor chains below grade to prevent driving or walking on them. Sections of schedule 40 PVC, metal casing, or similar customer-supplied materials can be used to create a cavity for chain. Adjust the above steps as needed to construct a below-grade housing for anchor chains. Clean periodically to remove dirt, water, & debris from cavity.



Example A shows the inner cylinder encased in concrete which is at grade.



Example B shows setting cylinder on top of cured anchor buried at grade.



## 12

## SECURE DOOR WHEN CLOSED

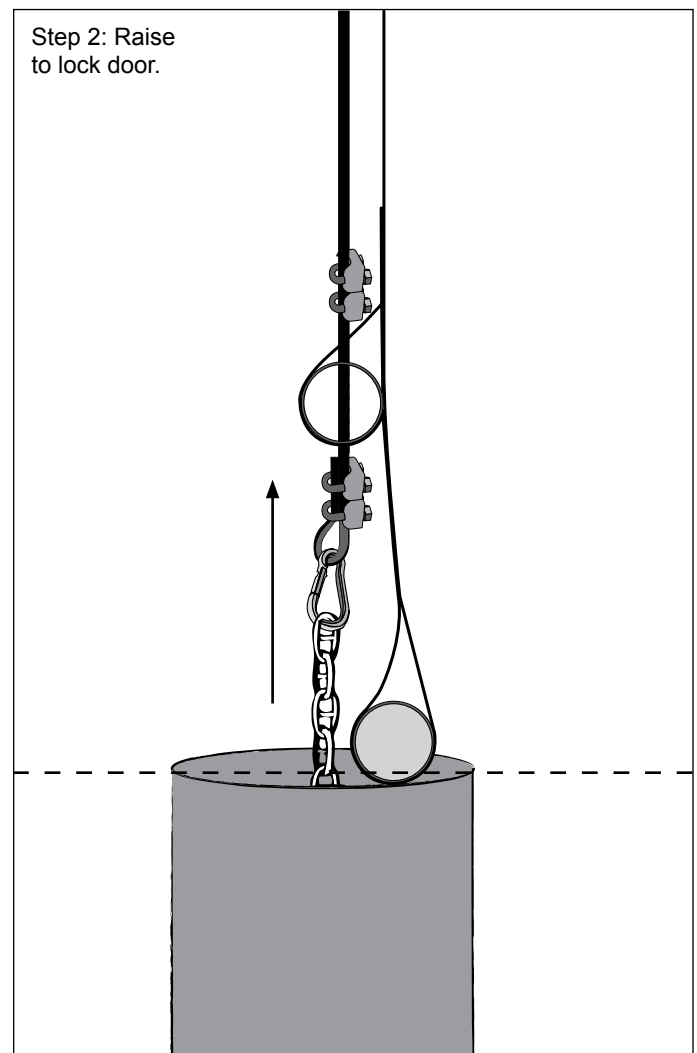
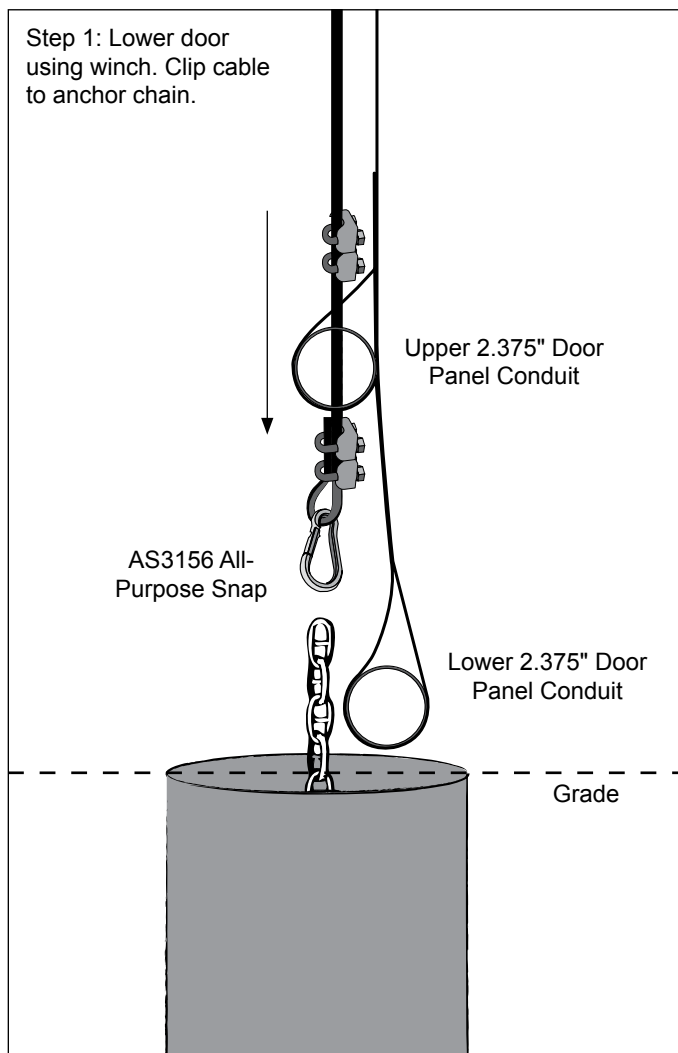
Once concrete has set, complete these steps to secure door.

**ATTENTION:** To prevent damage and possible injury, always secure door to anchor chains when it is down/closed. *Door must be either fully open when in use or fully closed and secured to chain anchors as described below. To prevent damage and possible injury, never allow door to remain partially open.*

1. Using winch, lower door until fully closed. Connect each gathering door cable to chain anchor using AS3156 clips.
2. Move back to winch and open door just enough to tension anchor chains.

**WARNING:** To prevent damage to door and winch, do not overtighten cables! Tighten just enough to tension cables and keep door in place during windy conditions.

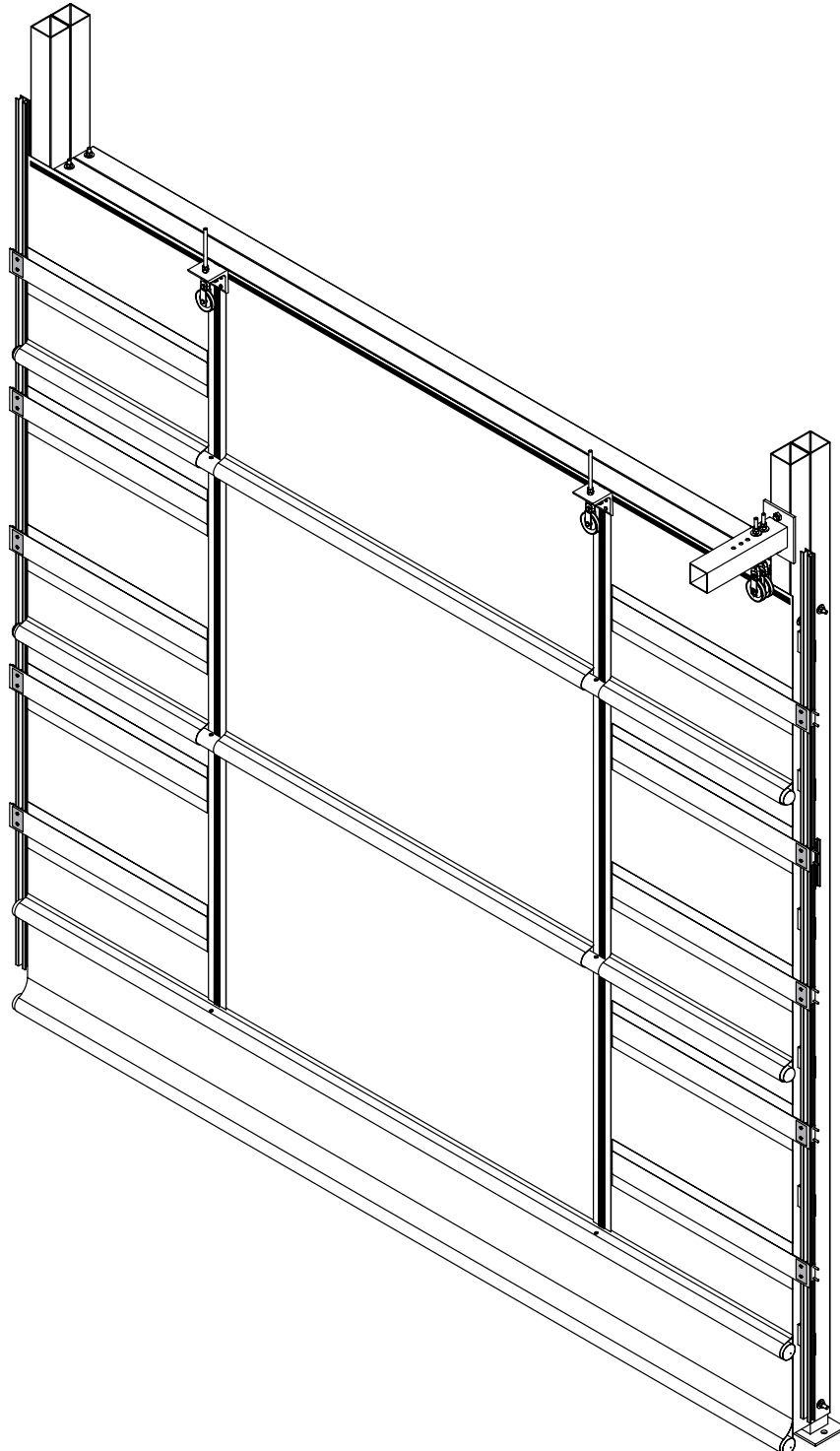
3. To open door, lower door to loosen anchors, unhook cables, and fully open door.



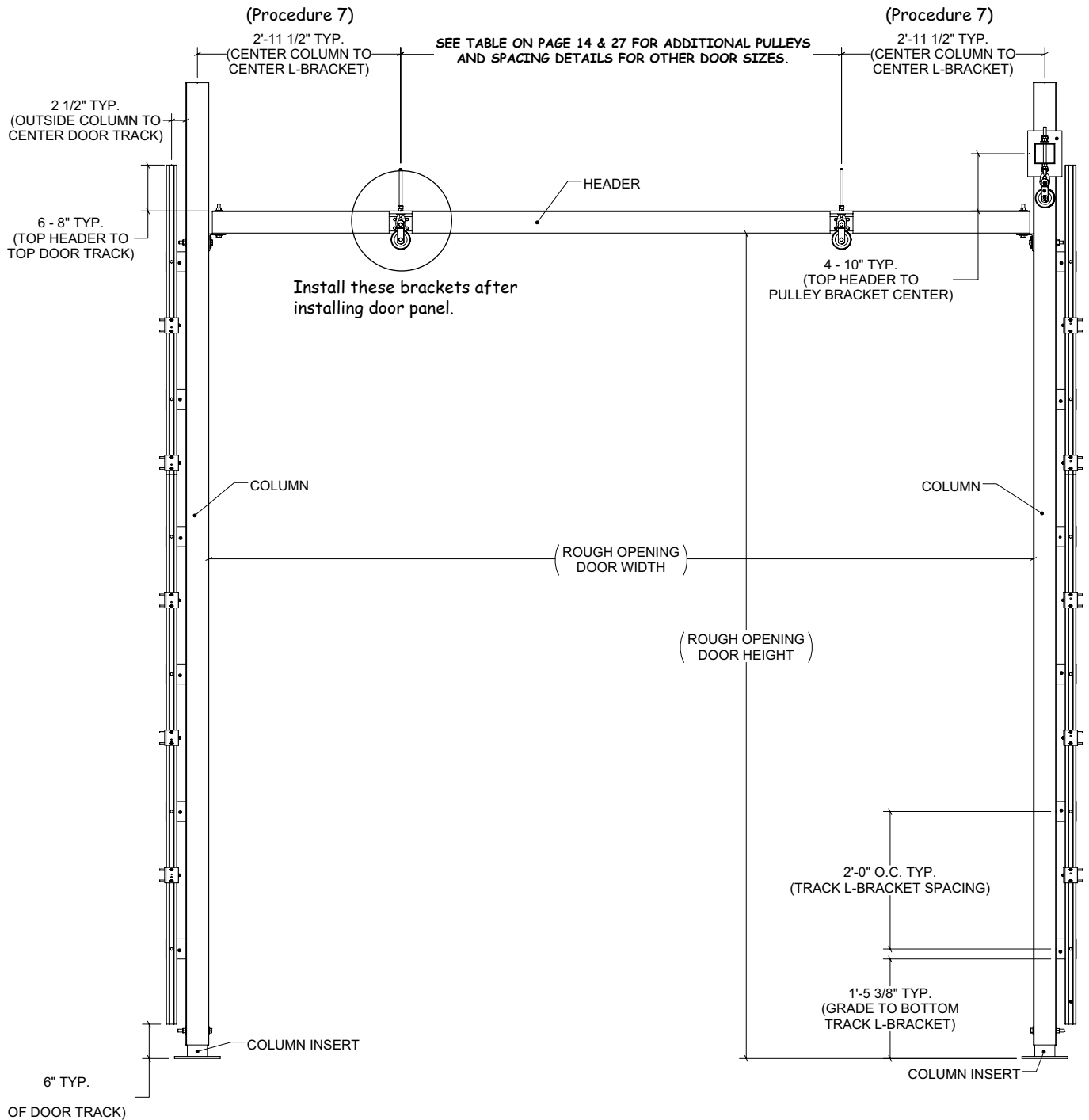


**QUICK START GUIDE**

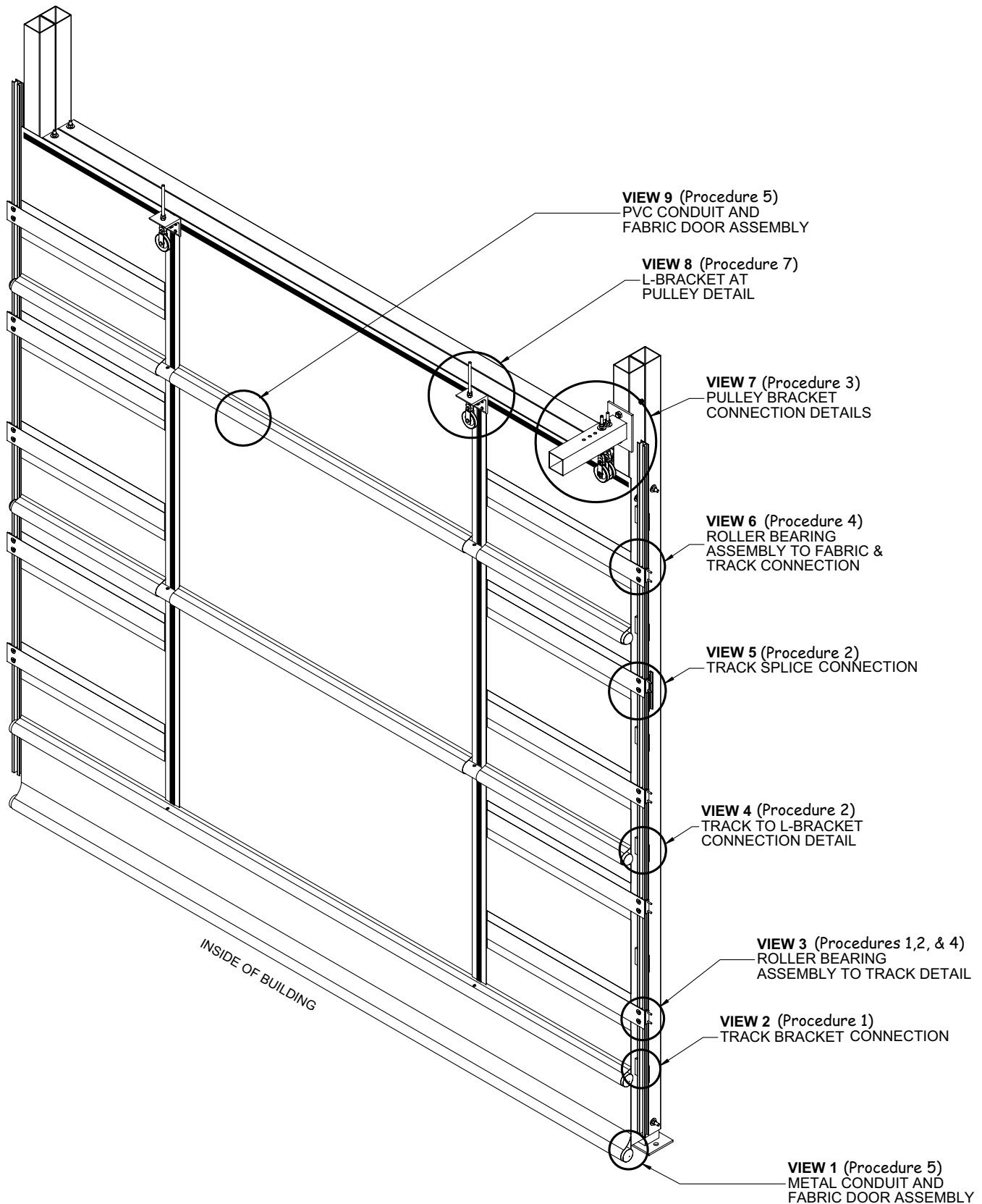
Giant Gather Door Kit — Sample Kit Shown



# Giant Gathering Door — Basic Layout

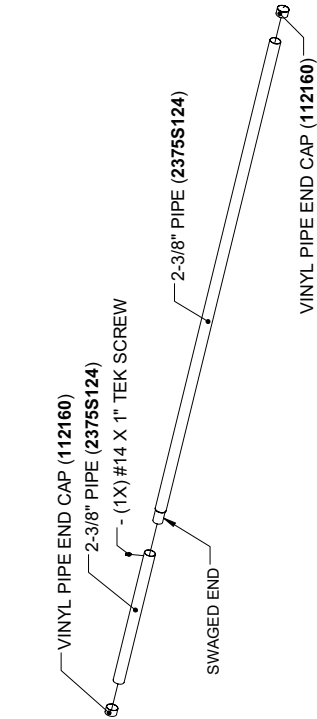


# Giant Gathering Door Details

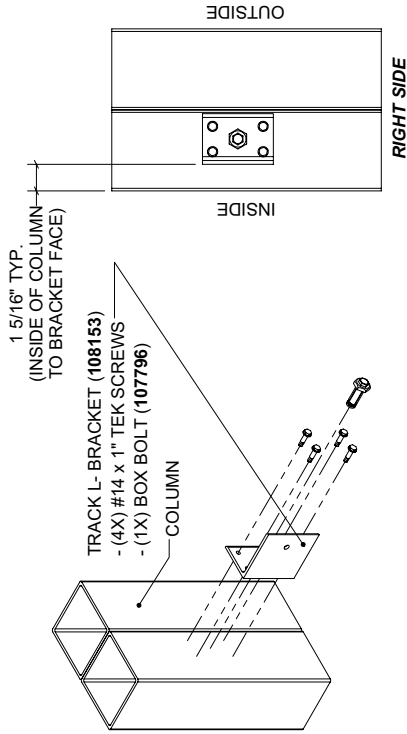


# Giant Gathering Door Details (1-5)

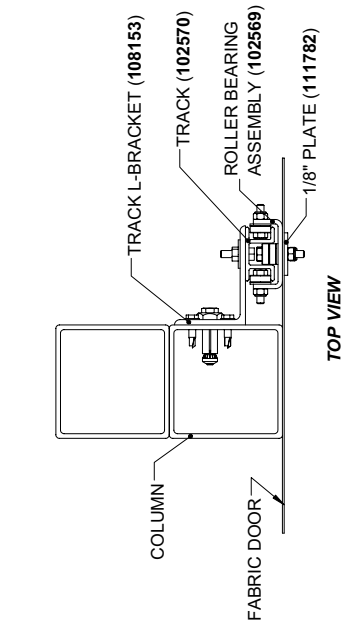
- Field cut 2.375" pipe as needed.
- Door width determines whether pipe has splice.



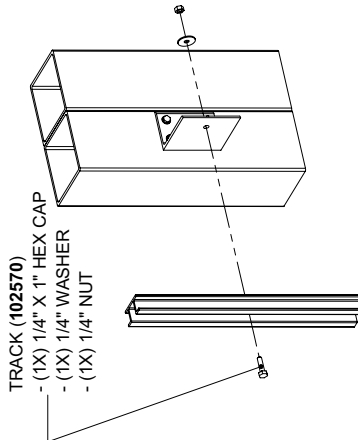
**VIEW 1**  
METAL CONDUIT AND FABRIC DOOR ASSEMBLY



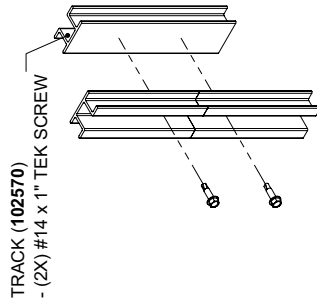
**VIEW 2**  
TRACK BRACKET CONNECTION



**VIEW 3**  
ROLLER BEARING ASSEMBLY TO TRACK DETAIL  
**NOTE:** Panel installed inside building.

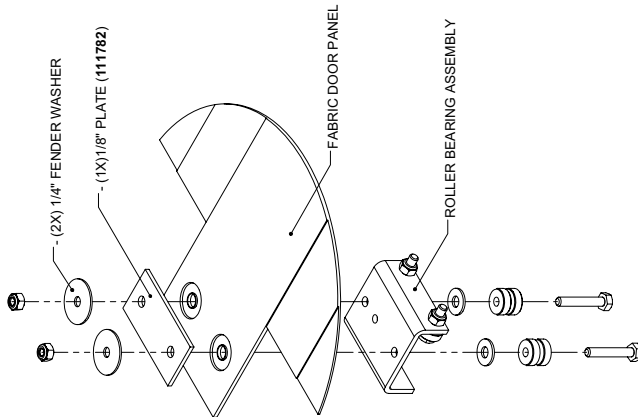


**VIEW 4**  
TRACK TO L-BRACKET  
CONNECTION DETAIL

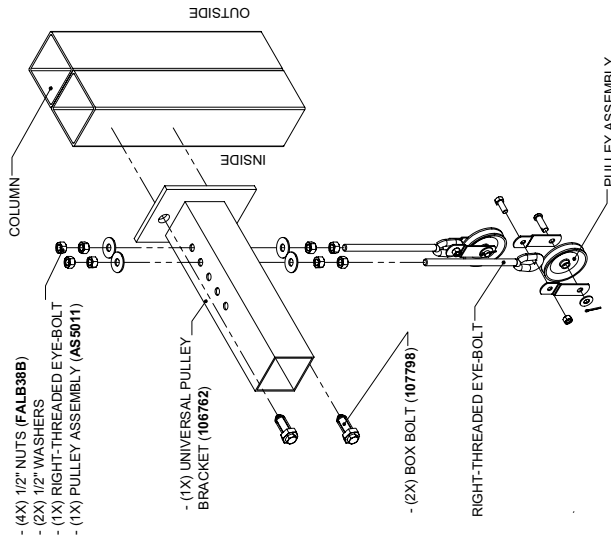


**VIEW 5**  
TRACK SPLICE CONNECTION

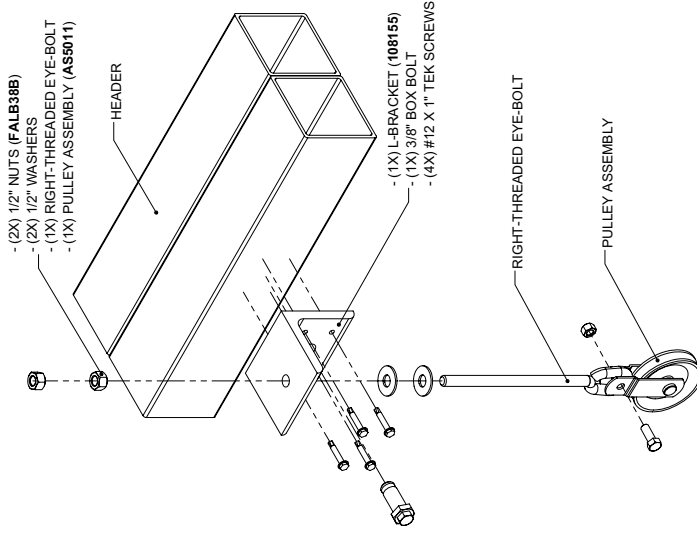
# Giant Gathering Door Details (6-9)



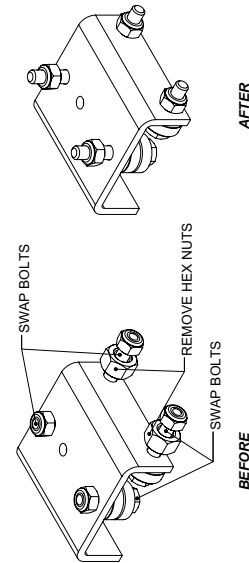
**VIEW 6**  
ROLLER BEARING ASSEMBLY  
TO FABRIC & TRACK CONNECTION



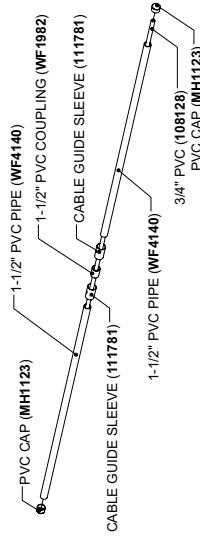
**VIEW 7**  
PULLEY BRACKET CONNECTION DETAILS



**VIEW 8**  
L-BRACKET AT PULLEY DETAIL



**NOTE:** DEPENDING ON ORIGINAL BEARING ASSEMBLY, IT MAY BE NECESSARY TO SWITCH POSITIONS OF LONG AND SHORT BOLTS IF CENTER BOLTS ARE TOO SHORT TO COMPLETE AS SHOWN IN DETAIL ABOVE.

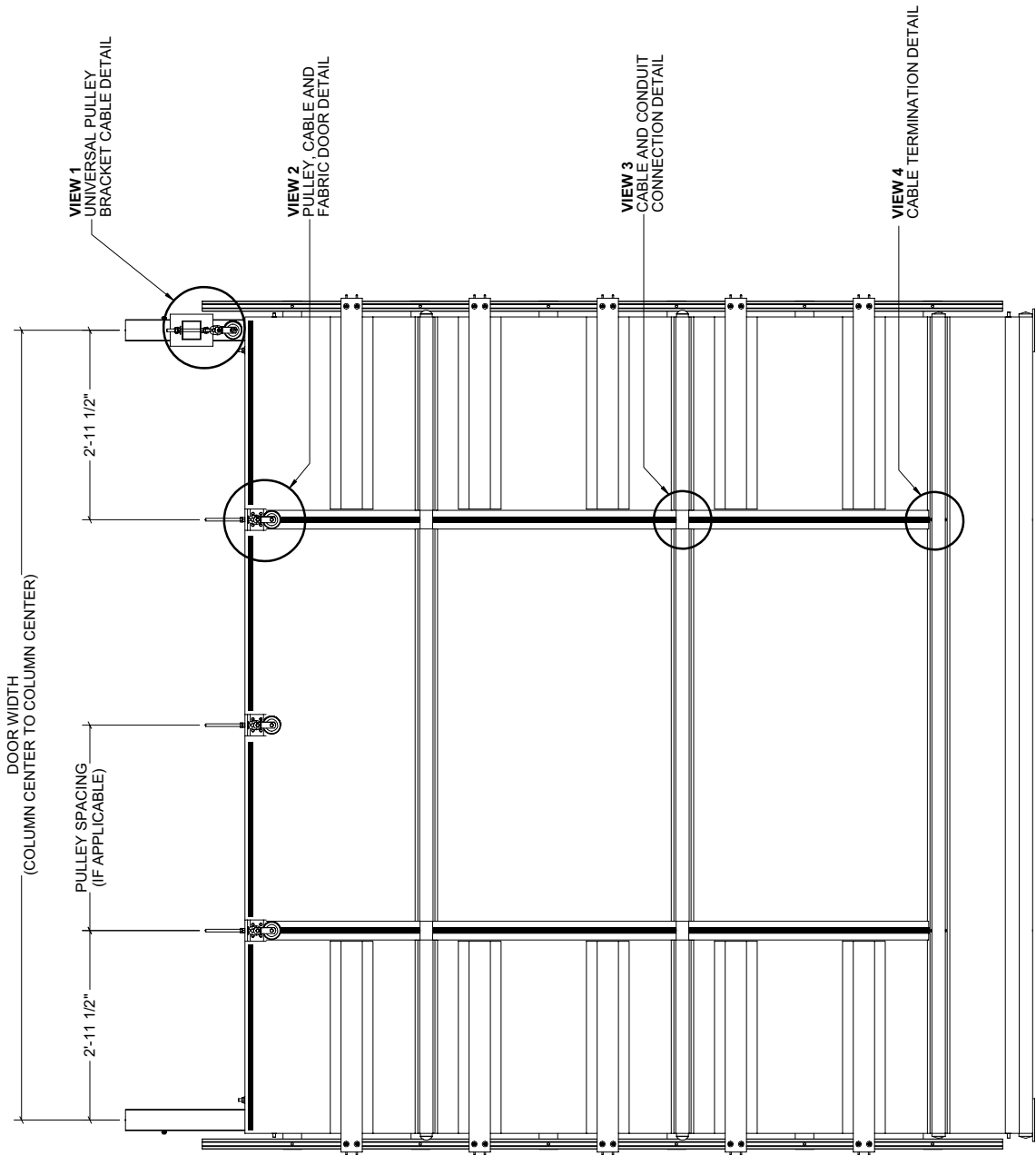


**VIEW 9**  
PVC CONDUIT AND FABRIC DOOR ASSEMBLY

- Field cut PVC to length.
- Ensure PVC joints do not interfere with the installation of any cable sleeves.

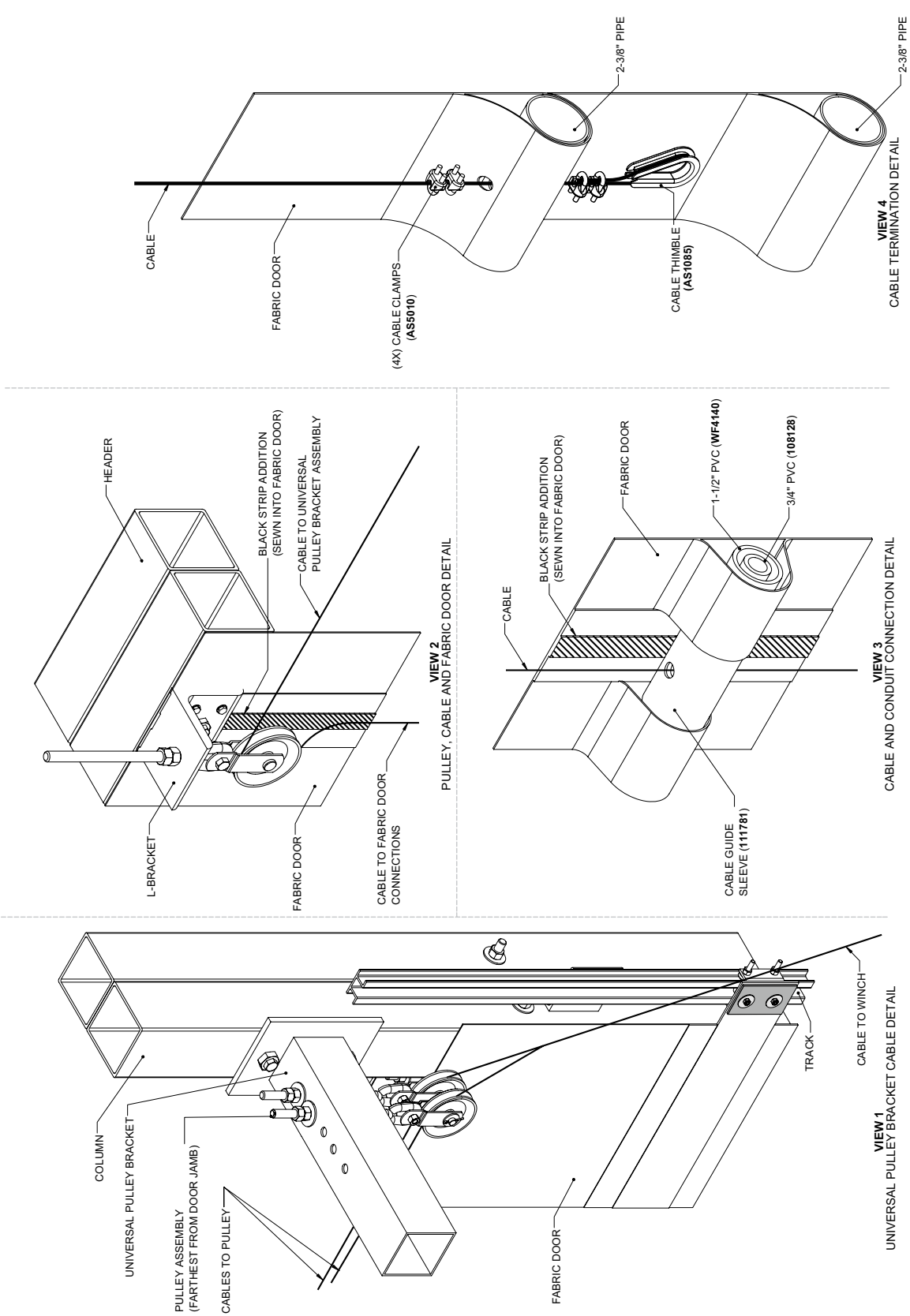


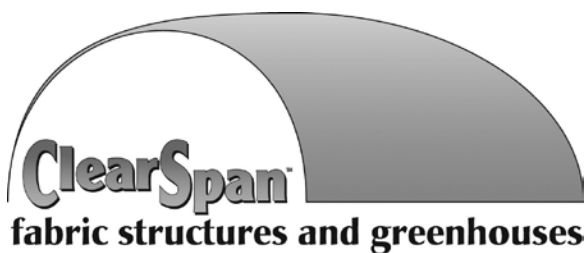
# PULLEY & CABLE DETAILS



DOOR WIDTH	12'-0"	14'-0"	16'-0"	18'-0"	20'-0"	22'-0"	24'-0"	26'-0"	28'-0"	30'-0"
NUMBER OF PULLEY & CABLE RUNS	2	3	3	3	3	4	4	4	4	5
PULLEY & CABLE SPACING	6'-5"	4'-2 1/2"	5'-2 1/2"	6'-2 1/2"	7'-2 1/2"	5'-5 11/16"	6'-1 11/16"	6'-9 11/16"	7'-5 11/16"	6'-1 1/4"

PULLEY & CABLE DETAILS





### CARE AND MAINTENANCE AND USE

Complete these procedures periodically and frequently to maintain and care for gathering door and kit components.

- Check all cables weekly to ensure all are tight and in good repair. *Replace broken or frayed cables immediately.*

#### **⚠ NEVER OPERATE DOOR WHEN ANY CABLE IS MISSING OR BROKEN!**

- Tighten all cable clamps. Replace broken or missing clamps immediately.
- Inspect winch and winch mounting bracket. Tighten all bolts. *Replace missing bolts immediately.*
- Repair all tears or punctures in door panel immediately. Contact your customer service representative for suggested repair methods.
- Inspect anchor chains and repair if any link is damaged.
- Inspect pulleys weekly. Replace worn or damaged pulleys immediately.

#### **⚠ DO NOT OPERATE DOOR IF ANY PULLEY IS DAMAGED OR MISSING.**

- Improper cable adjustment can lead to premature cable and pulley wear. Adjust cable tension as needed to ensure each cable is lifting its share of the door during operation.
- Inspect all bearing track mounting bolts and brackets. Tighten loose bolts and replace missing bolts as needed.
- Check bearing track splices. Tighten any loose fasteners.
- Ensure all bearing mounting bolts are tight.
- Clean door panel using water sprayed from a garden hose. Do not use a pressure washer or steam to clean door panel.

#### **⚠ WARNING: NEVER STAND IN DOOR OPENING DURING DOOR OPERATION OR WHEN DOOR IS FULLY OR PARTIALLY OPENED.**



Photo above shows bearing plate and door panel as seen from inside the building.

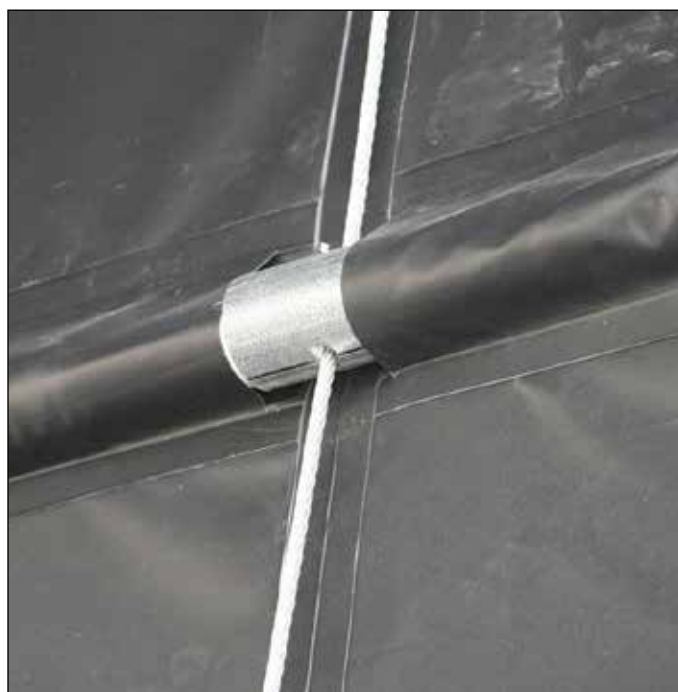


Photo above shows cable running through cable sleeve installed over the 1-1/2" PVC conduit, which is inside an upper panel pocket.