TREX PERGOLA INSTALLATION INSTRUCTIONS

RECOMMENDED TOOLS/SUPPLIES:

- -Pencil
- -4' Level
- -Measuring Tape
- -Framing Square/Speed Square
- -8' High Step Ladder

(Two recommended)

- -Hacksaw or Bolt Cutters
- -Socket Wrench with 9/16" Socket and 3/4" Deep Socket
- -Adjustable Wrench
- -Impact Driver With Philips Bit
- -Drill
- -5/8" x 8" Masonry Drill Bit
- -5/8" x 12" Metal Drill Bit
- -Circular Saw With a Fine Tooth Blade
- -Shop Vacuum

(To remove dust from column mounting holes in concrete)

- -Caulk Gun
- -Sika AnchorFix Epoxy

(One 10 oz. tube per 2 columns)

- -High Quality Exterior Latex Caulk
- -Ledger Attachment Bolts
- (For attached models only) -1/4" Metal Drill Bit
- (For lighting option only)
- -Wire Striper

(For lighting option only)

INSTALLATION PROCEDURE:

It is recommended to read through the instructions below and review all sheets and notes completely before beginning installation.

Resizing Column/Squaring Base of Column If Uneven

To cut columns down, measure the desired length from the top of the column and mark in several locations around the column. Apply tape around the column so that the edge of the tape aligns with the marks made. Using a circular saw, cut the column along the tape line. Cut the column with the motor sided of the saw on the cutoff portion of the column to prevent damaging the finish on the good side of the cut line.

Install Columns

Reference: PL01, PL02, EV01, CD01, CD02

Install Beam(s)

Reference: PL01, PL02, EV01, CA01, CA02, CA03, CA04, CA05

For Lighting Option, Reference: LT01

Install Ledger & Rafter Wall Brackets (for attached models only)

Reference: PL02, CS01, EV01, LD01, CA06

Install Rafter Beam Brackets to Rafters

Reference: PL01, PL02, CS01, CA01, CA02, CA03, CA07, CA08

Install Rafters

Reference: PL01, PL02, CS01, EV01, CA01, CA02, CA03, CA06, CA07

Install Stringers

Reference: CS01, EV01, CA01, CA02, CA03, CA08

Install Lighting (optional)

Reference: LT01

For Technical Support:

Contact us at 877.489.8064. Please have your sales order number

available.

It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide, and may not address every circumstance. The installer should determine and implement appropriate installation techniques for each situation. Backyard America shall not be held liable for improper or unsafe installations.

SHEET INDEX:

CV01 - COVER SHEET

CI01 - COMPONENT INDEX

CIO2 - COMPONENT INDEX

CI03 - COMPONENT INDEX

PL01 - PERGOLA LAYOUT - FREESTANDING

PL02 - PERGOLA LAYOUT - ATTACHED

CS01 - COMPONENT SPACING & INFORMATION

EV01 - ELEVATIONS

CD01 - COLUMN ATTACHMENT DETAIL - CONCRETE

CD02 - COLUMN ATTACHMENT DETAIL - DECK FRAMING

LD01 - LEDGER DETAIL

CA01 - COMPONENT ATTACHMENT DETAIL - WIDTH VIEW

CA02 - COMPONENT ATTACHMENT DETAIL - PROJECTION VIEW

CA03 - COMPONENT ATTACHMENT DETAIL

CA04 - BEAM SPLICE ATTACHMENT DETAIL

CA05 - ANGLED BEAM SPLICE ATTACHMENT DETAIL

CA06 - ANGLED RAFTER TO LEDGER ATTACHMENT DETAIL

CA07 - RAFTER SPLICE OVER BEAM ATTACHMENT DETAIL

CA08 - STRINGER SPLICE OVER RAFTER ATTACHMENT DETAIL

LT01 - LIGHTING INSTALLATION

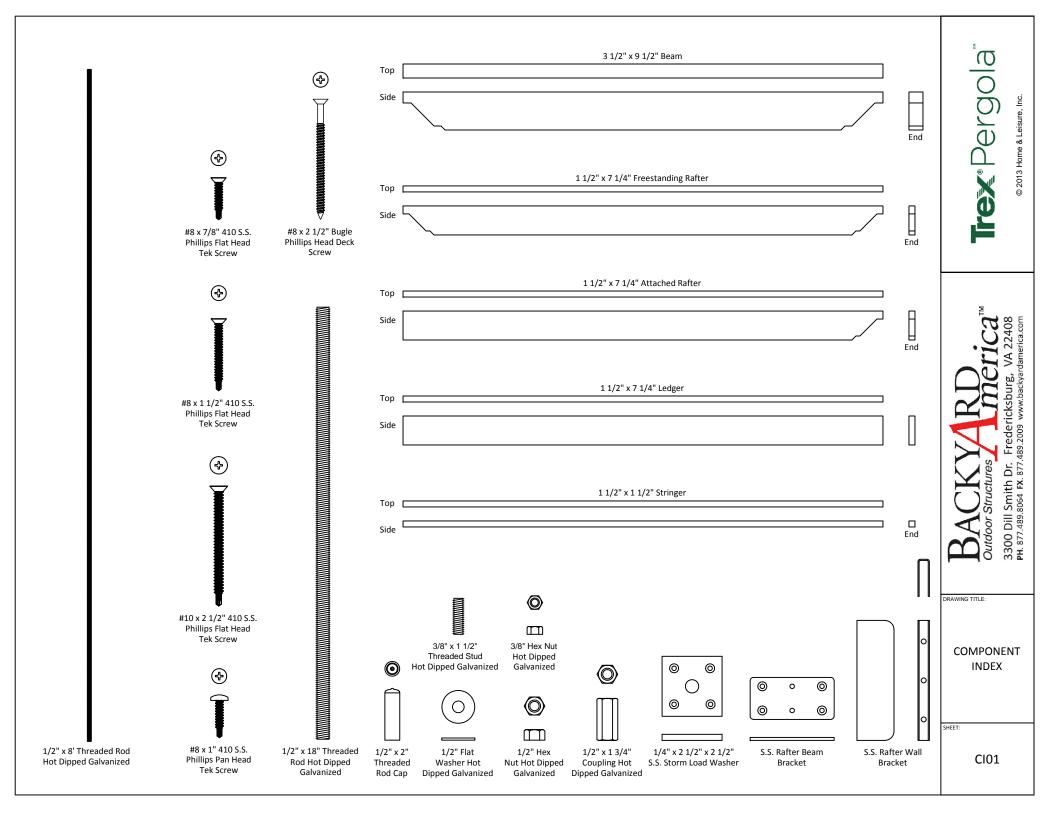
Trex Pergola is enduring and virtually upkeep-free. All exterior building materials require cleaning. We recommend a basic cleaning using a combination of Simple Green All-Purpose Cleaner and hot water with a soft bristle brush. Ideal times to clean are just after installation and then on an annual basis (typically spring or fall is most conducive with the weather). For more difficult to clean marks, Mr. Clean Magic Eraser can be used. Structural attachments should be inspected annually. All ColorLast painted pergolas may require touch up over time. Keep the touch up paint sent with the pergola and in the event of scratching or cracking, touch up the painted surface as needed. It is recommended to apply the paint with a small brush to the affected area and then wipe excess paint with a rag. Leaving paint only in the void that needs to be touched up.

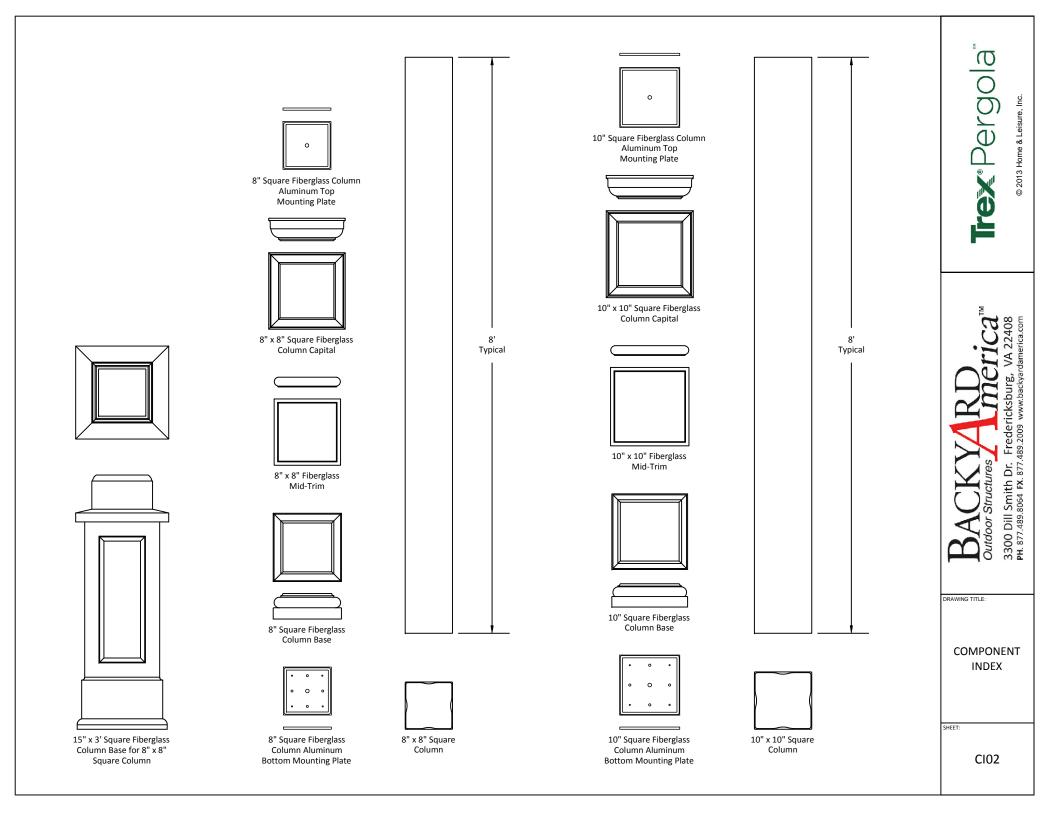
Simple Green® All-Purpose Cleaner is a registered trademark of Sunshine Makers Inc.

DRAWING TITLE

COVER SHEET

CV01





10' Typical





DRAWING TITLE:

COMPONENT **INDEX**

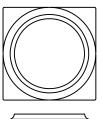
SHEET:

CI03



10" Round Tapered Fiberglass Column Aluminum Top Mounting Plate



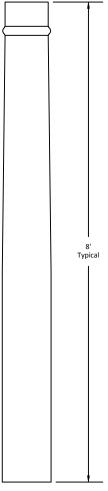




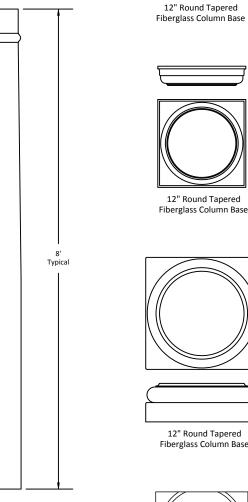
10" Round Tapered Fiberglass Column Base



10" Round Tapered Fiberglass Column Aluminum Bottom Mounting Plate



10" Round Tapered Column



12" Round Tapered Fiberglass Column Aluminum Bottom Mounting Plate





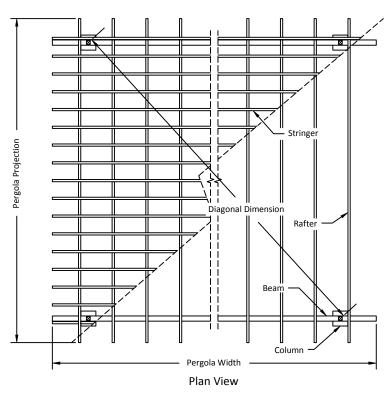
12" Round Tapered Column



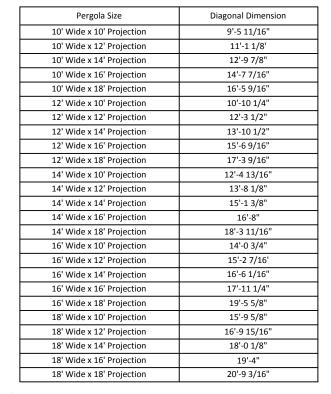
PERGOLA LAYOUT **FREESTANDING**

SHEET:

PL01



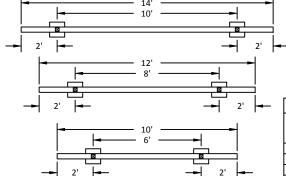
Notes:



12'

9'-4"



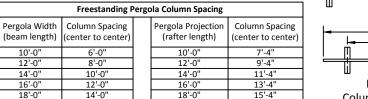


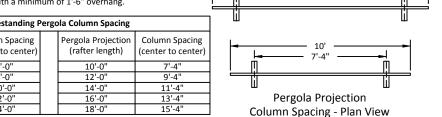
Pergola Width Column Spacing - Plan View

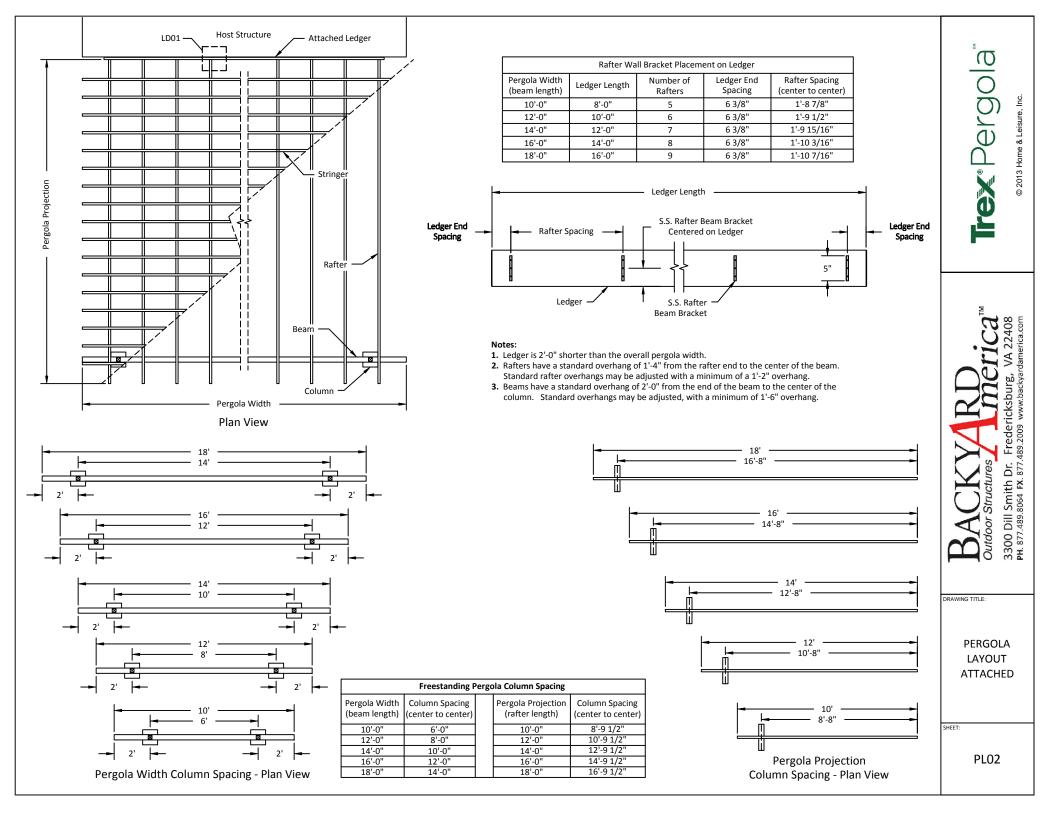
1. Rafters have a standard overhang of 1'-4" from the rafter end to the center of the beam. Standard rafter overhangs may be adjusted with a minimum of 1'-2" overhang.

2. Beam have a standard overhang of 2'-0" from the end of the beam to the center of the column. Standard overhangs may be adjusted, with a minimum of 1'-6" overhang.

	Freestanding Pergola Column Spacing						
	Column Spacing (center to center)		Pergola Projection (rafter length)	Column Spacing (center to center)			
10'-0"	6'-0"		10'-0"	7'-4"			
12'-0"	8'-0"		12'-0"	9'-4"			
14'-0"	10'-0"		14'-0"	11'-4"			
16'-0"	12'-0"		16'-0"	13'-4"			
18'-0"	14'-0"		18'-0"	15'-4"			



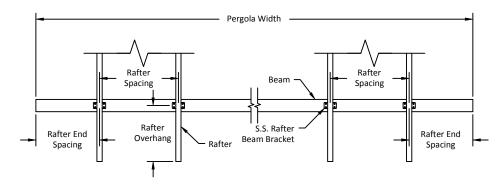




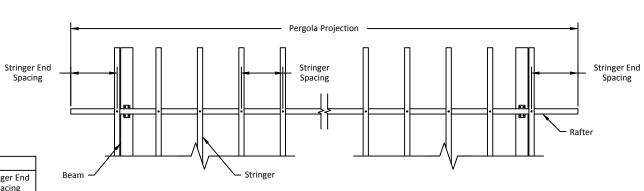
SHEET:

CS01

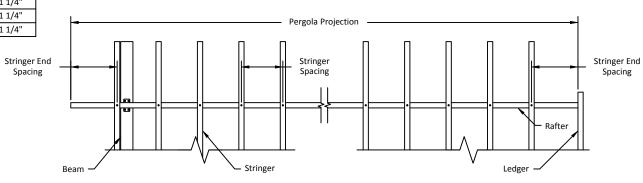
	Rafter Spacing on Beam					
Pergola Width (beam length)	Number of Rafters	Rafter End Spacing	Rafter Spacing (center to center)			
10'-0"	5	1'-6 1/4"	1'-8 7/8"			
12'-0"	6	1'-6 1/4"	1'-9 1/2"			
14'-0"	7	1'-6 1/4"	1'-9 15/16"			
16'-0"	8	1'-6 1/4"	1'-10 3/16"			
18'-0"	9	1'-6 1/4"	1'-10 7/16"			



Rafter & Rafter Beam Bracket Layout



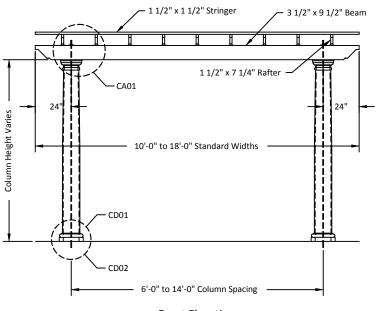
Freestanding Pergola Stringer Layout



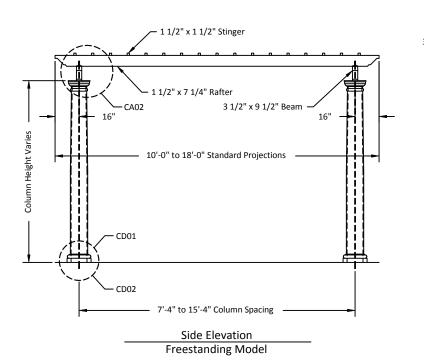
Attached Pergola Stringer Layout

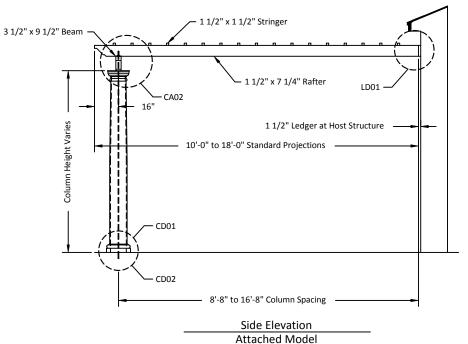
Stringer Spacing						
Pergola Projection (rafter length)	Number of Stringers	Stringer Spacing (center to center)	Stringer End Spacing			
10'-0"	9	11 11/16"	1'-1 1/4"			
12'-0"	11	11 3/4"	1'-1 1/4"			
14'-0"	13	11 13/16"	1'-1 1/4"			
16'-0"	15	11 13/16"	1'-1 1/4"			
18'-0"	17	11 7/8"	1'-1 1/4"			

EV01

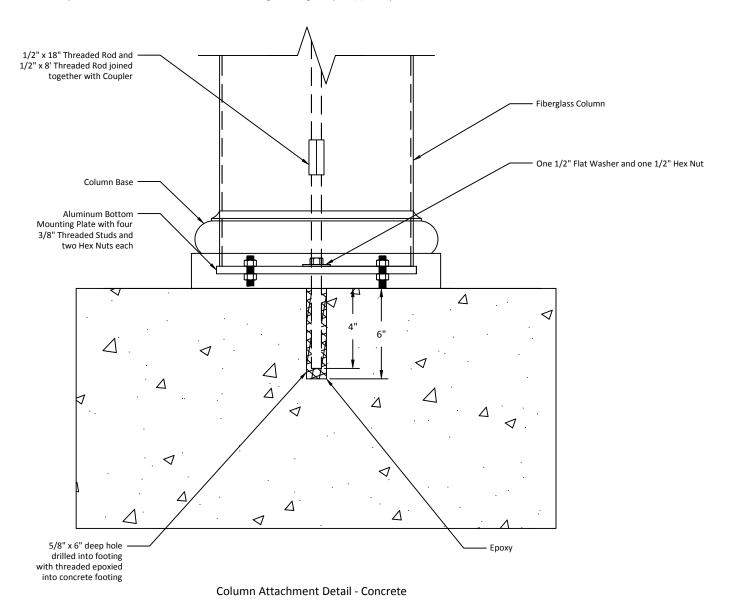


Front Elevation Attached or Freestanding Model





- 1. The 1/2" x 18" threaded rod should be inserted into the epoxy in a twisting motion to ensure the epoxy flows into the threads of the rod.
- 2. Once the bottom aluminum mounting plate has been leveled and installed, screw the coupler on to the top of the 18" threaded rod, (ensure the half of the coupler depth is left to receive the 8' threaded rod). Next, place the column base trim around the mounting assembly on the ground. Then, lift the column shaft over the 18" threaded rod and set it on the bottom aluminum mounting plate and into the column base trim. The 8' threaded rod should then be installed from above using a ladder. Ensure that the 8' threaded rod properly engages the coupler and is fully tightened before proceeding with column assembly. Some column lengths may require more than two pieces of threaded rod per column. Attach any additional threaded rods to the 8' length using coupler(s) and proceed as outlined above.



Pergol

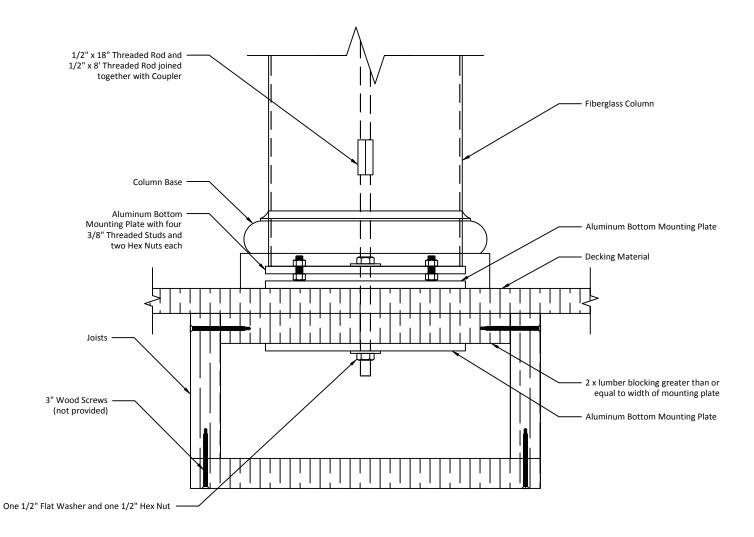
BACKYARD ...

RAWING TITLE

COLUMN ATTACHMENT **DETAIL-CONCRETE**

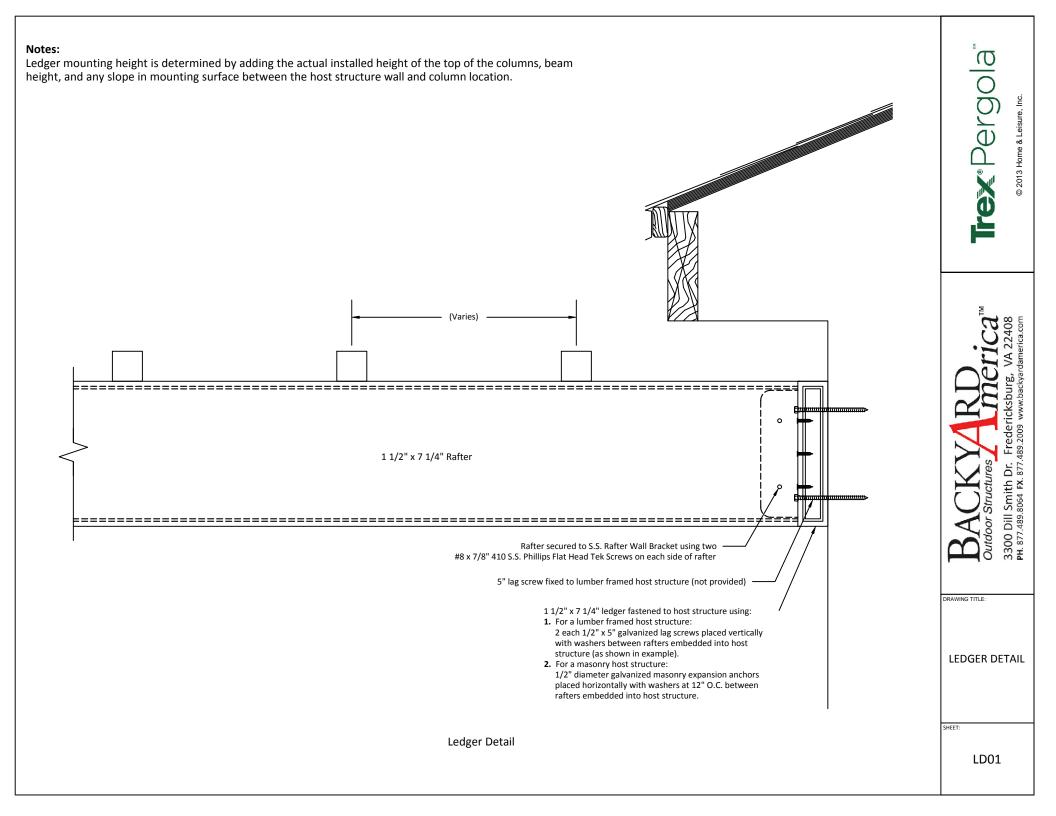
SHE

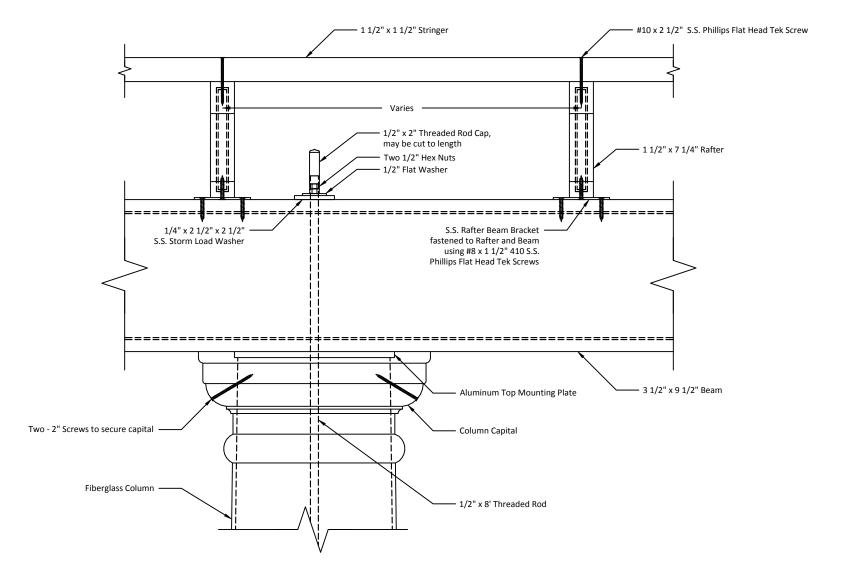
CD01



Column Attachment Detail - Deck Framing

CD02



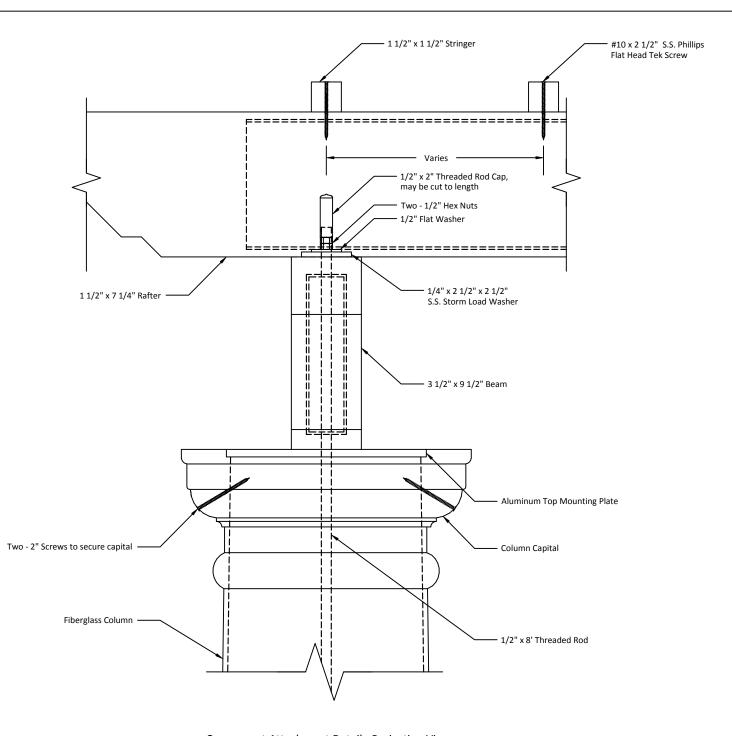


Component Attachment Detail - Width View

PROJECTION VIEW

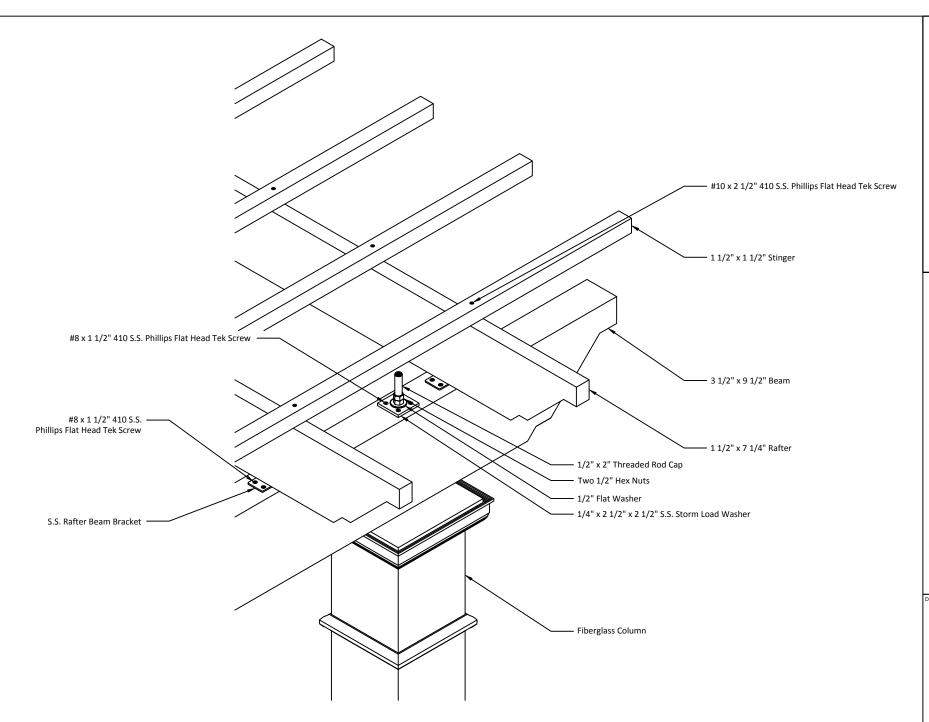
SHEET

CA02

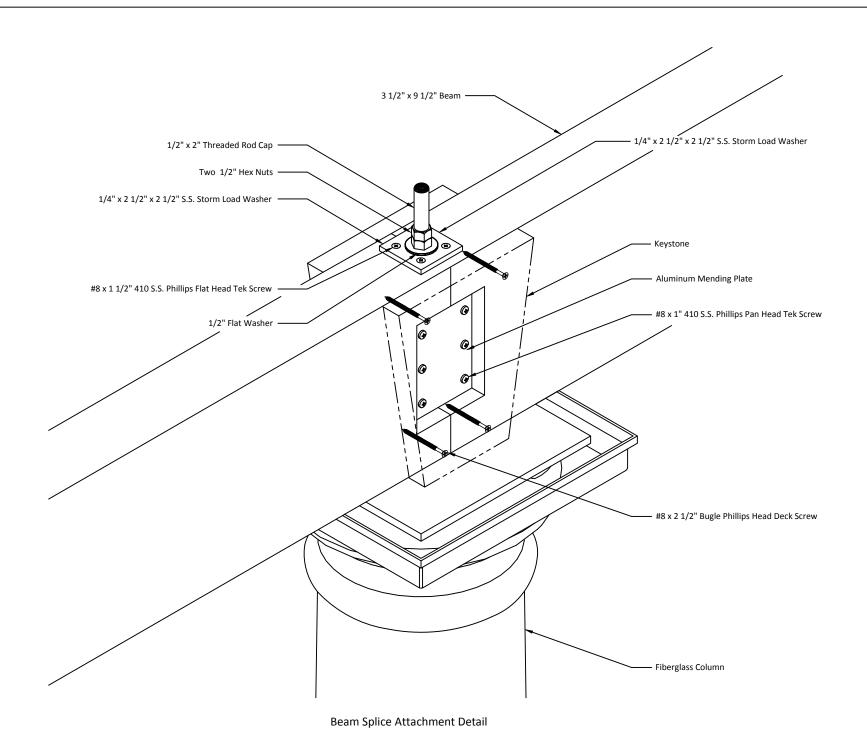


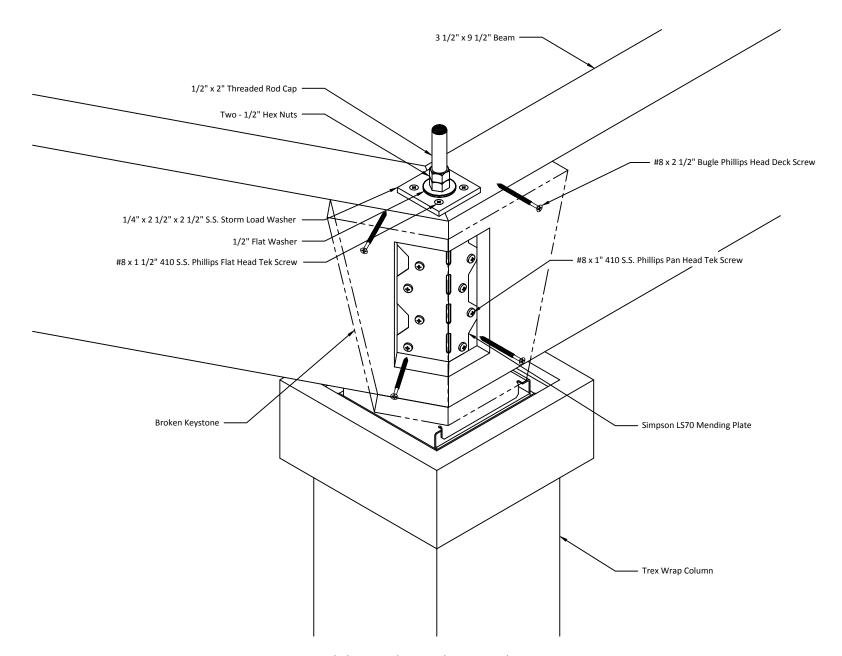
Component Attachment Detail - Projection View

SHEET



CHEE

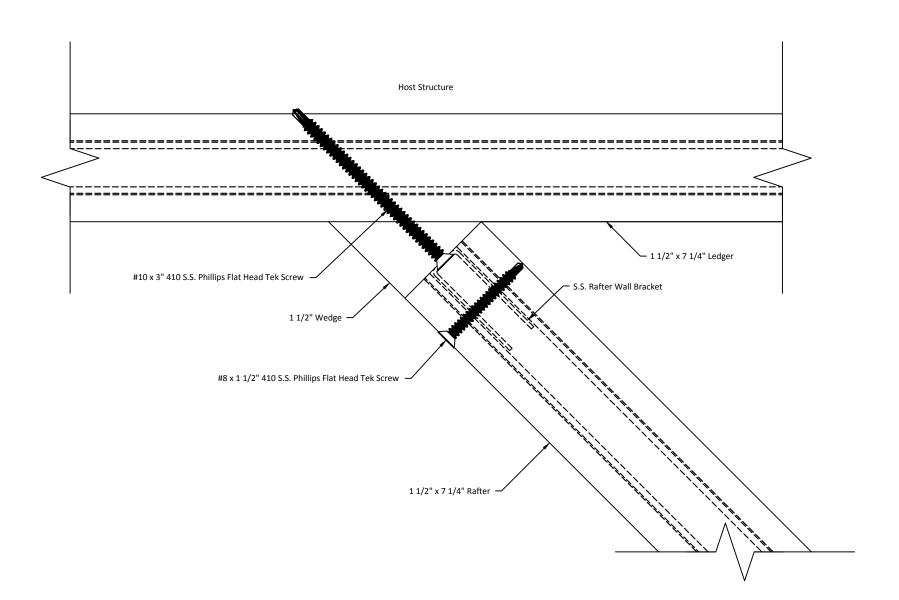




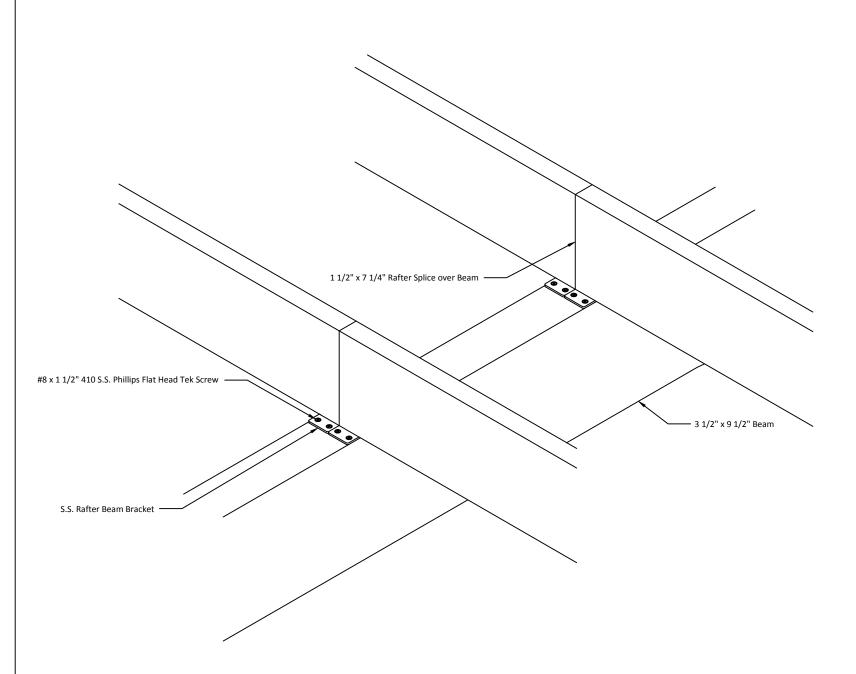
Angled Beam Splice Attachment Detail

ANGLED RAFTER TO LEDGER ATTACHMENT DETAIL

CA06



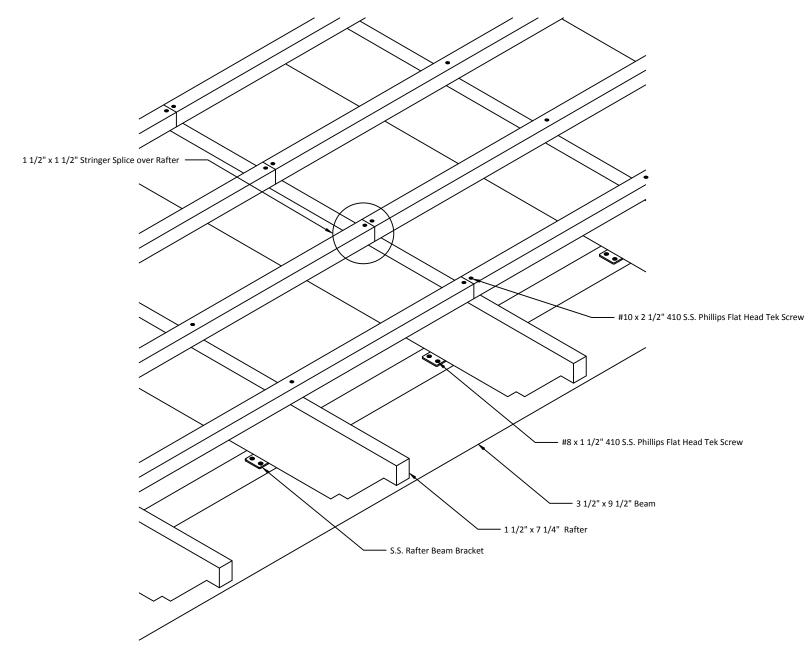
Angled Rafter to Ledger Attachment Detail



RAWING TITLE

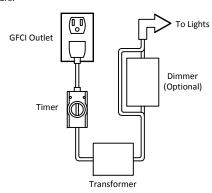
STRINGER SPLICE OVER RAFTER ATTACHMENT DETAIL

SHEET



General Information

- 1. Always consult local codes before beginning a project.
- 2. Straight runs over 100' may require 16 or 14 gauge wire.
- 3. Use Trex Transformer only. Use of any other transformer voids warranty.
- 4. Connection to a GFCI outlet is required.
- 5. The optional dimmer remote will work within a 30' radius of the unit.
- 6. The optional dimmer must be installed in a dry location. Keep dimmer remote ID # in a safe place in case replacement remote is needed.
- The timer must be installed vertically with the receptacle facing downwards. The timer must be in view of the sun to use the dusk/dawn feature.



Select the mode of operation:

- Dusk to Dawn
- 1 8 hours
- Always On
- Off

When power is flowing to lights, the green light above POWER is on.

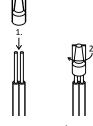
Transformer Capacity				
2.5A Transformer (2.5DL Transformer)				
0				
20				
0				
20				
_				

Making Connections

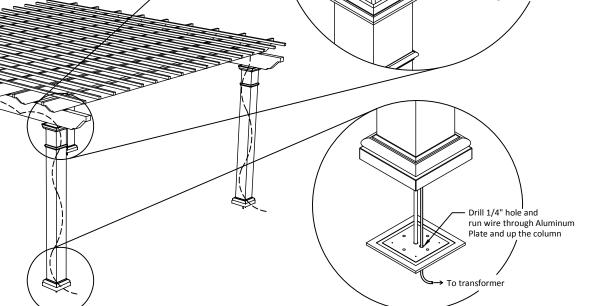
- Polarity must be maintained through wiring system. Always attach the same side of the 18 gauge wire to the red wires on the lights. The red wires are positive.
- The wire nuts supplied are gel-filled and waterproof. These wire nuts can safely attach up to four wires.
- 1. Strip wires to 5/8". Align any frayed strands of the conductors. Pre-twisting is not required.



Place stripped wires together with insulation even. Twist connector onto wires pushing firmly until hand-tight. DO NOT over torque. Wipe sealant in and around conductors and connector opening while tightening. DO NOT reuse.



Be sure to temporary connect transformer to the wire at the bottom of the column(s) to ensure all lights illuminate properly before securing beam and proceeding with pergola installation.







Excess wire from beam

may be cut or inserted

Drill 1/4" hole and run wire through Aluminum Plate

into column shaft

DRAWING TITLE:

LIGHTING INSTALLATION

SHEET:

LT01