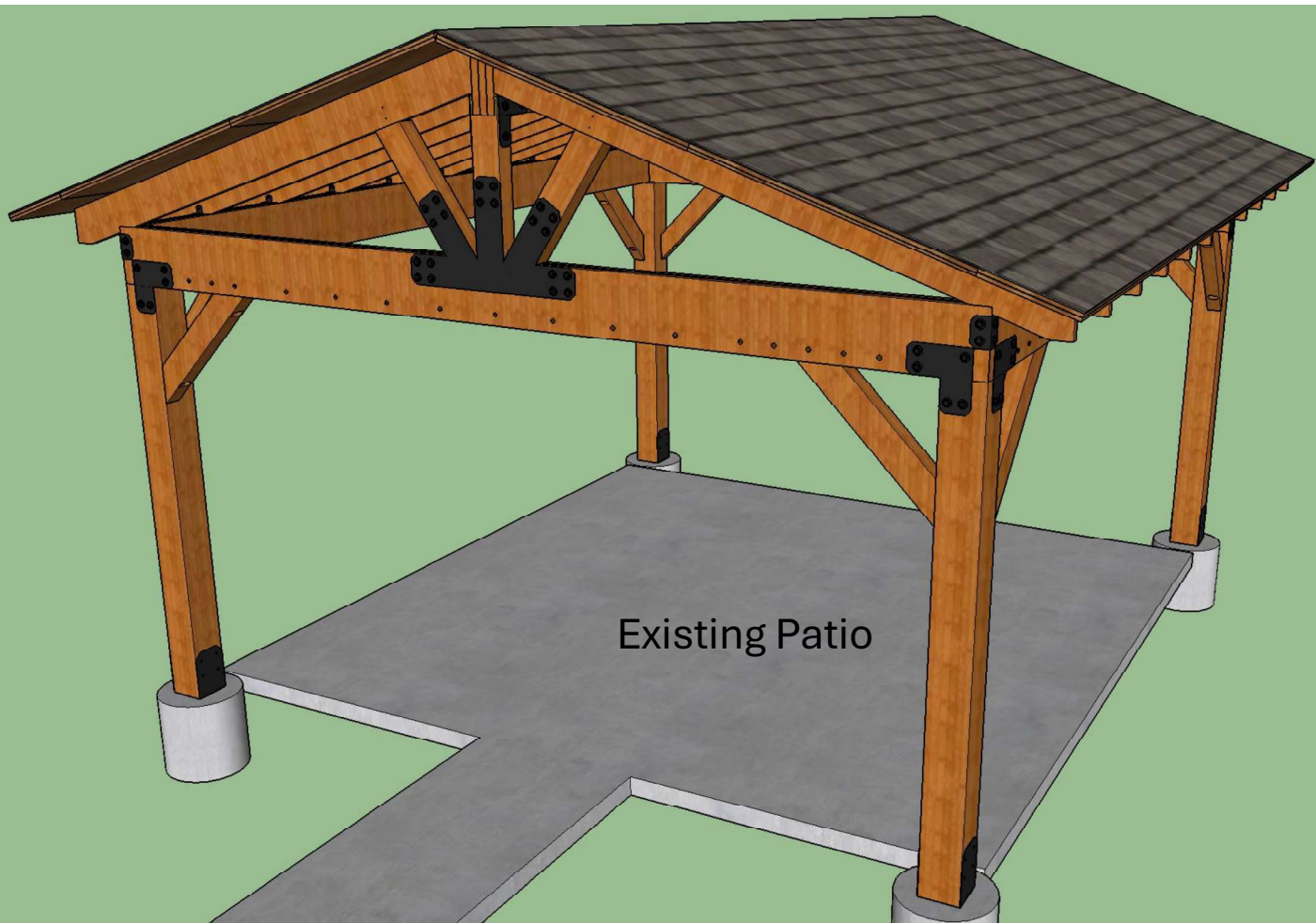
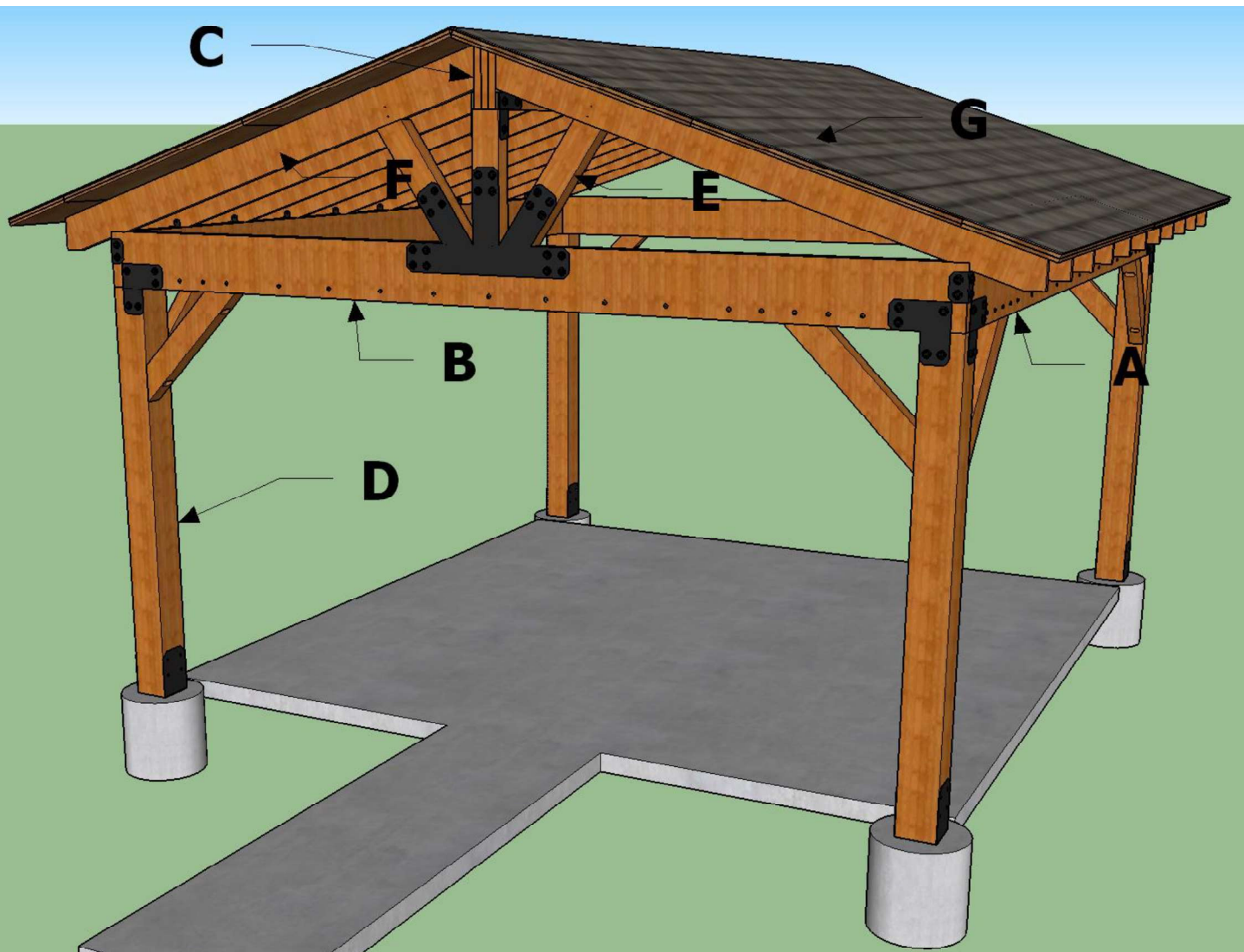


Proposed Pergola



Hardware

- 1: GRK Rugged Structural Screw, 1/4" x 3-1/8" (158x)
- 2: GRK Rugged Structural Screw, 1/4" x 4" (42x)
- 3: GRK Rugged Structural Screw, 5/16" x 6" (32x)
- 4: Simpson Outdoor Accents Hex Head Washer (156x)
- 5: Simpson Outdoor Accents Structural Wood Screw, 3-1/2" (72x)
- 6: Simpson Outdoor Accents Structural Wood Screw, 5-1/2" (76x)
- 7: Simpson Outdoor Accents Connector Screw (372x)
- 8: Simpson Outdoor Accents Structural Wood Screw, 2" (8x)
- 11: Simpson Outdoor Accents APVL6 (8x)
- 12: Simpson Outdoor Accents APVA6 (4x)
- 13: Simpson Outdoor Accents APVP88 (4x)
- 14: Simpson Outdoor Accents APVL4 (4x)
- 15: Simpson Outdoor Accents APVGP812 (2x)
- 16: Simpson Outdoor Accents APDJT2R-4 (4x)
- 17: Simpson Outdoor Accents APLH26 (18x)
- 18: Simpson Outdoor Accents APVA21 (48x)

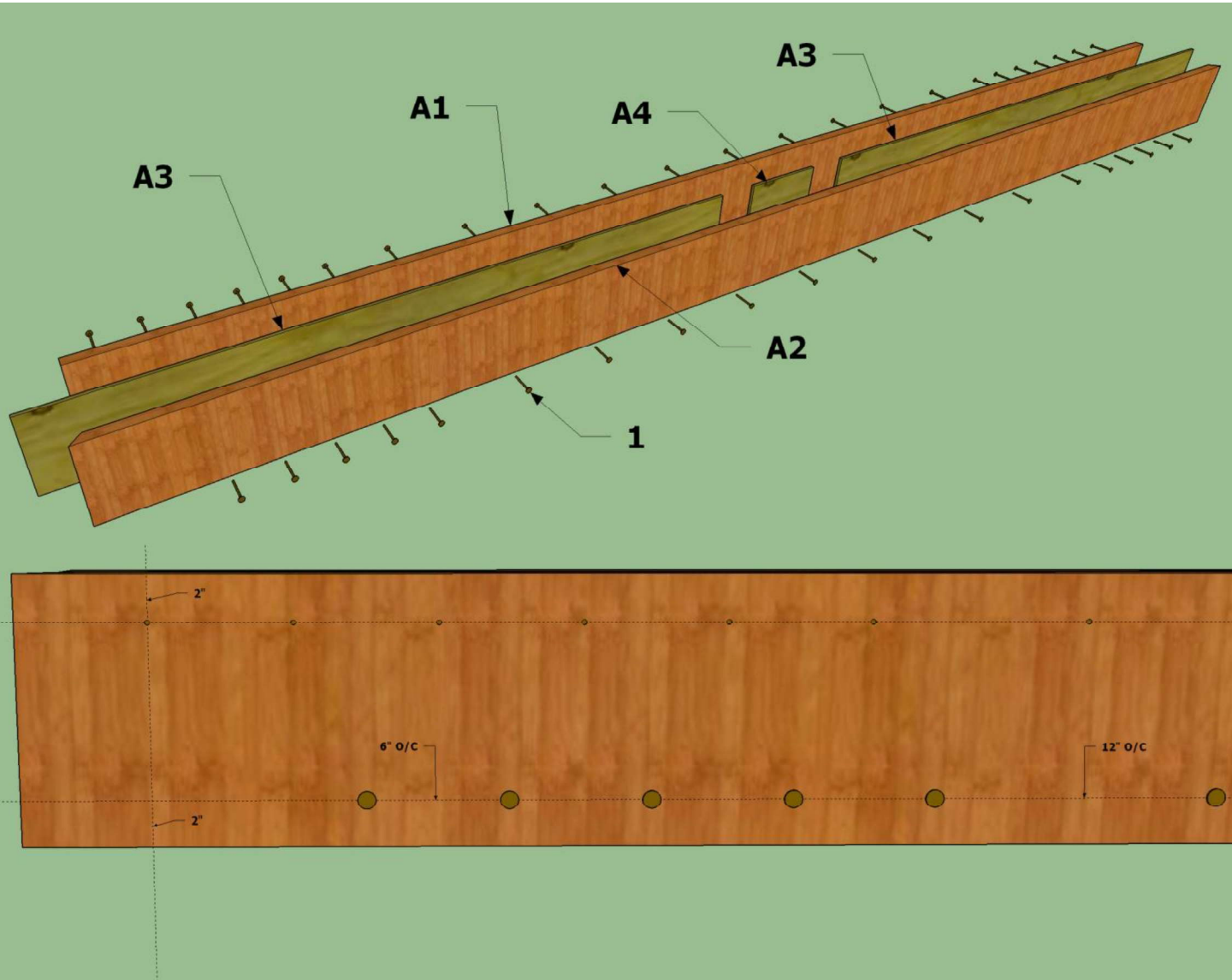


(A): Long Perimeter Beam

(2x) 2x12 beams with 1/2" plywood between to form a 3-1/2" x 11-1/2" multiply beam. Secured with structural screws every 12" O/C. Spacing reduces to 6" O/C above the post and knee braces. Inside screws are 2" from the top and outside screws are 2" from the bottom. Combined they form a staggered pattern.

Components

- 1: GRK Rugged Structural Screw, 1/4" x 3-1/8" (43x)
- A1: 2" x 12" x 17' PT Pine (1x)
- A2: 2" x 12" x 17'3" PT Pine (1x)
- A3: 11-1/2" x 8' x 1/2" Exterior CDX Plywood (2x)
- A4: 11-1/2" x 12" x 1/2" Exterior CDX Plywood (1x)

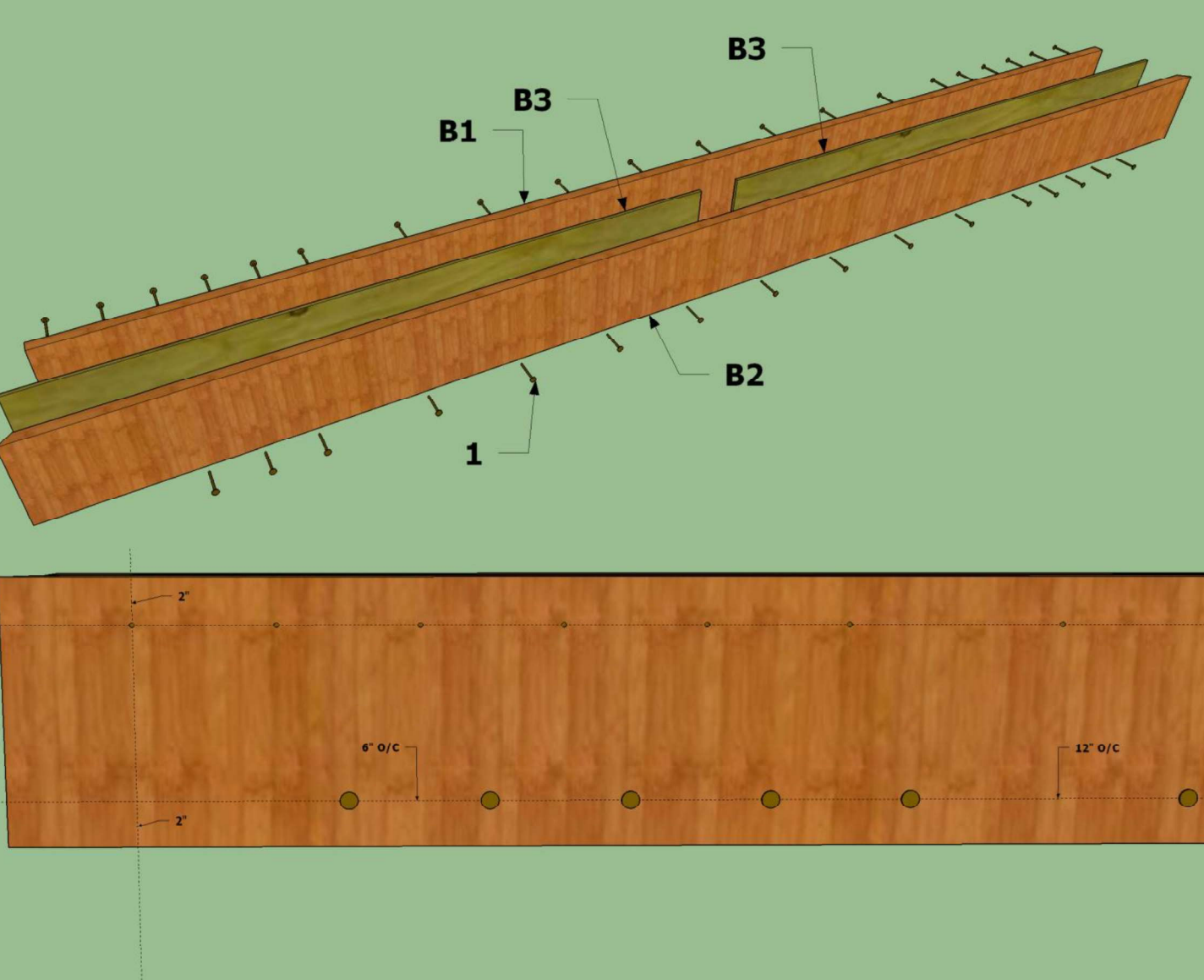


(B): Short Perimeter Beam

(2x) 2x12 beams with 1/2" plywood between to form a 3-1/2" x 11-1/2" multiply beam. Secured with structural screws every 12" O/C. Spacing reduces to 6" O/C above the post and knee braces. Inside screws are 2" from the top and outside screws are 2" from the bottom. Combined they form a staggered pattern.

Components

- 1: GRK Rugged Structural Screw, 1/4" x 3-1/8" (36x)
- B1: 2" x 12" x 15' PT Pine (1x)
- B2: 2" x 12" x 14'5" PT Pine (1x)
- B3: 11-1/2" x 7'2-1/2" x 1/2" Exterior CDX Plywood (2x)

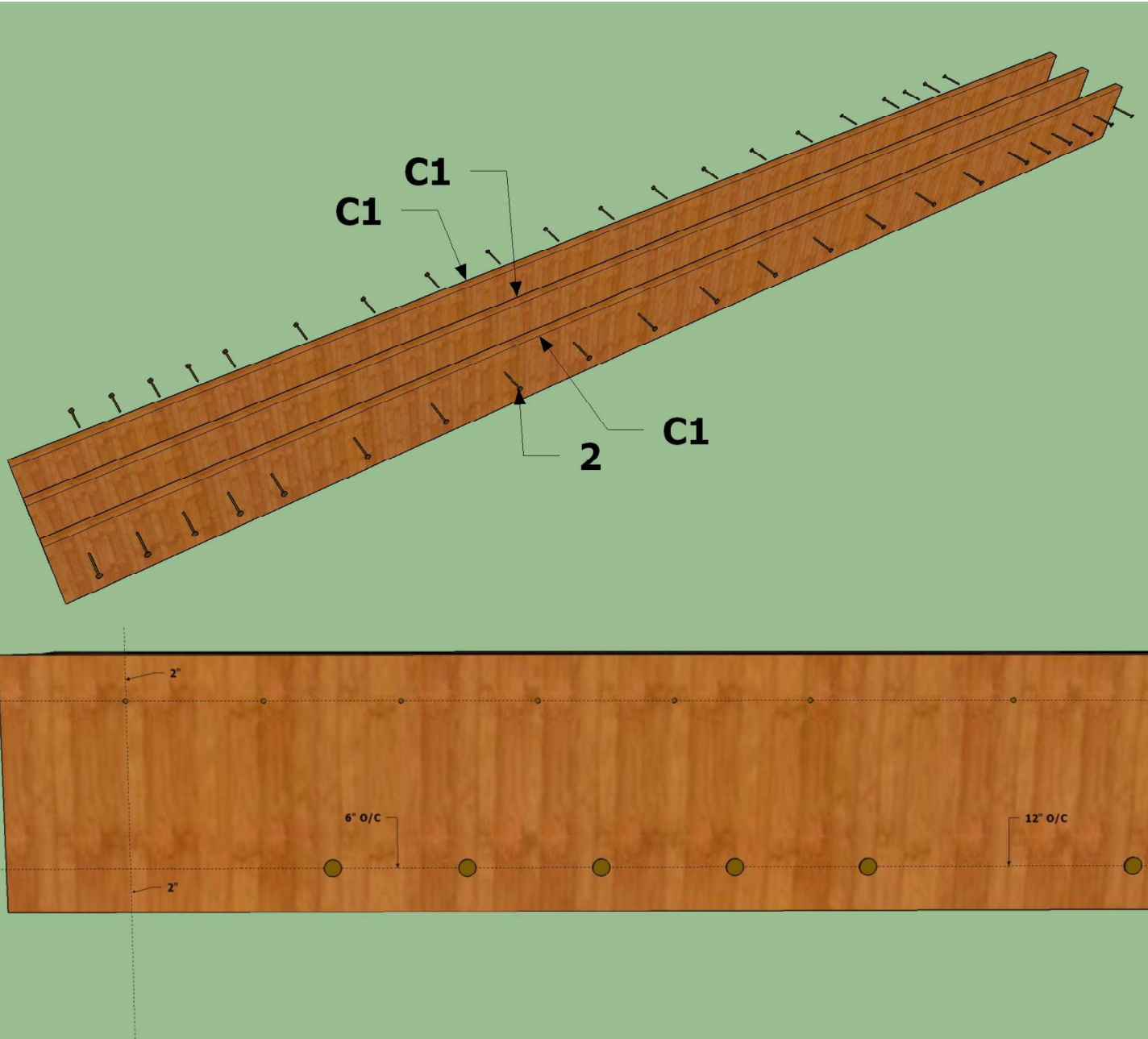


(C): Ridge Beam

(3x) 2x12 beams to form a 4-1/2" x 11-1/2" multiply beam. Secured with structural screws every 12" O/C. Spacing reduces to 6" O/C at the ends. Side (A) screws are 2" from the top and Side (B) screws are 2" from the bottom. Combined they form a staggered pattern.

Components

- 2: GRK Rugged Structural Screw, 1/4" x 4" (42x)
- C1: 2" x 12" x 17'3" PT Pine (3x)

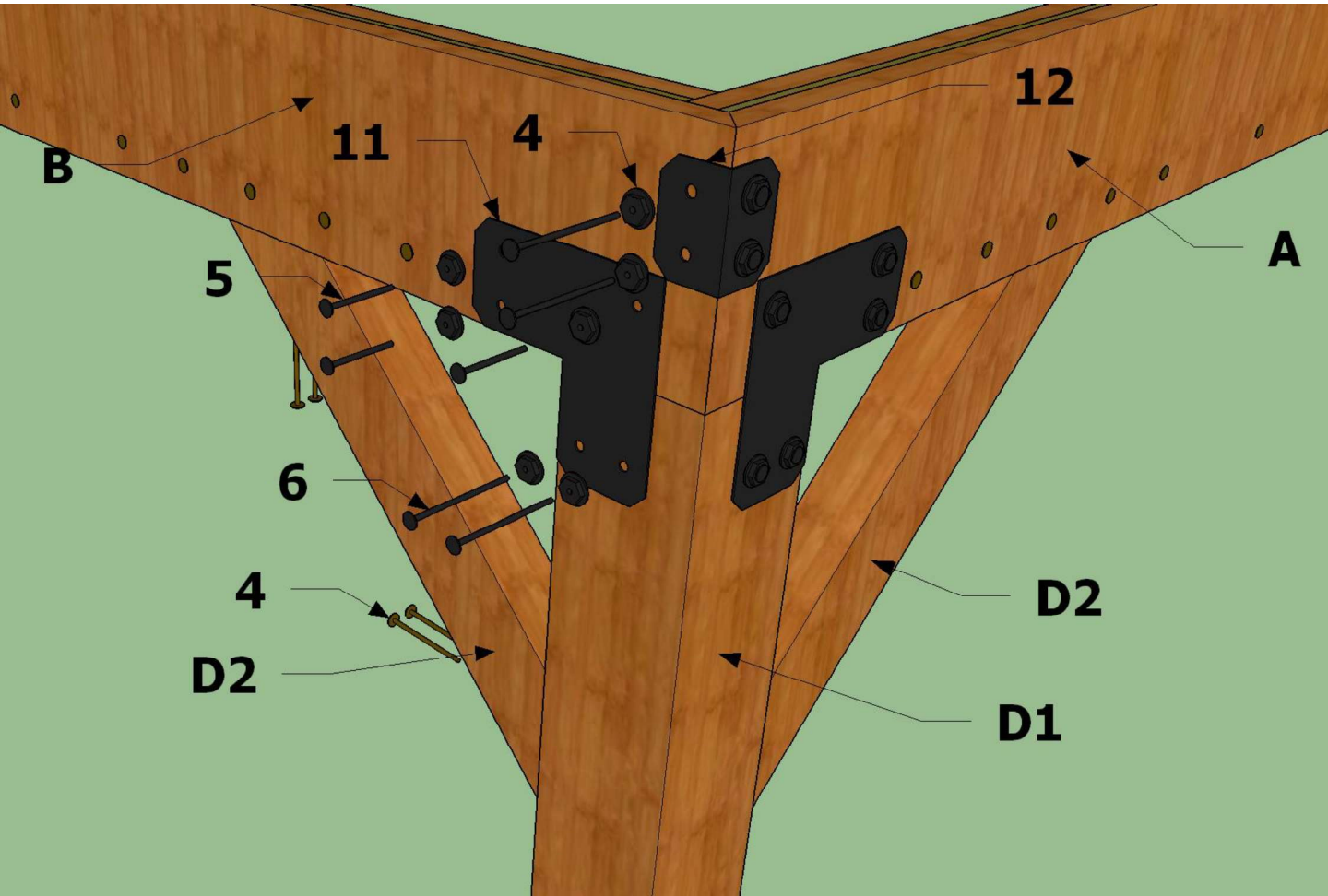


(D): Corner Post Assembly

Post bases are secured to 18"x18"x18" concrete footers using structural threaded rods and epoxy. Perimeter beams A & B sit directly on top of the 8"x8"x8' posts and are secured using Simpson Outdoor Accents hardware and structural screws. 4"x6" knee braces extend 24" from the posts to provide additional stability.

Components

- 3: GRK Rugged Structural Screw, 5/16" x 6" (8x)
- 4: Simpson Outdoor Accents Hex Head Washer (22x)
- 5: Simpson Outdoor Accents Structural Wood Screw, 3-1/2" (6x)
- 6: Simpson Outdoor Accents Structural Wood Screw, 5-1/2" (16x)
- 11: Simpson Outdoor Accents APVL6 (2x)
- 12: Simpson Outdoor Accents APVA6 (1x)
- 13: Simpson Outdoor Accents APVP88 (1x)
- D1: 8" x 8" x 8' PT Pine (1x)
- D2: 4" x 6" x 2'10" PT Pine (2x)

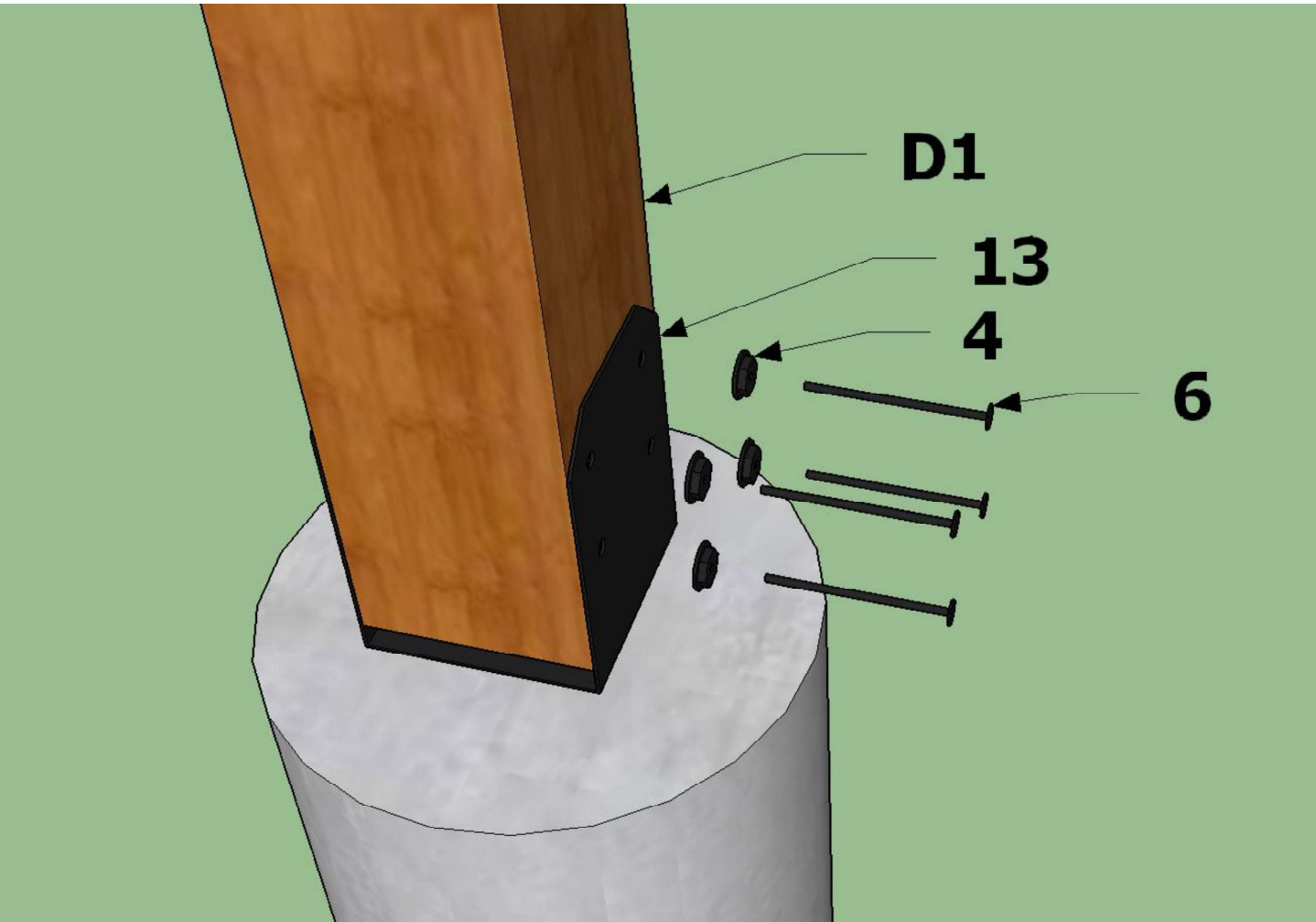


(D): Corner Post Assembly (continued)

Post bases are secured to 18"x18"x18" concrete footers using drilled threaded rods secured with epoxy. Perimeter beams A & B sit directly on top of the 8"x8"x8' posts and are secured using Simpson Outdoor Accents hardware and structural screws. 4"x6" knee braces extend 24" from the posts to provide additional stability.

Components

- 3: GRK Rugged Structural Screw, 5/16" x 6" (8x)
- 4: Simpson Outdoor Accents Hex Head Washer (22x)
- 5: Simpson Outdoor Accents Structural Wood Screw, 3-1/2" (6x)
- 6: Simpson Outdoor Accents Structural Wood Screw, 5-1/2" (14x)
- 11: Simpson Outdoor Accents APVL6 (2x)
- 12: Simpson Outdoor Accents APVA6 (1x)
- 13: Simpson Outdoor Accents APVP88 (1x)
- D1: 8" x 8" x 8' PT Pine (1x)
- D2: 4" x 6" x 2'10" PT Pine (2x)

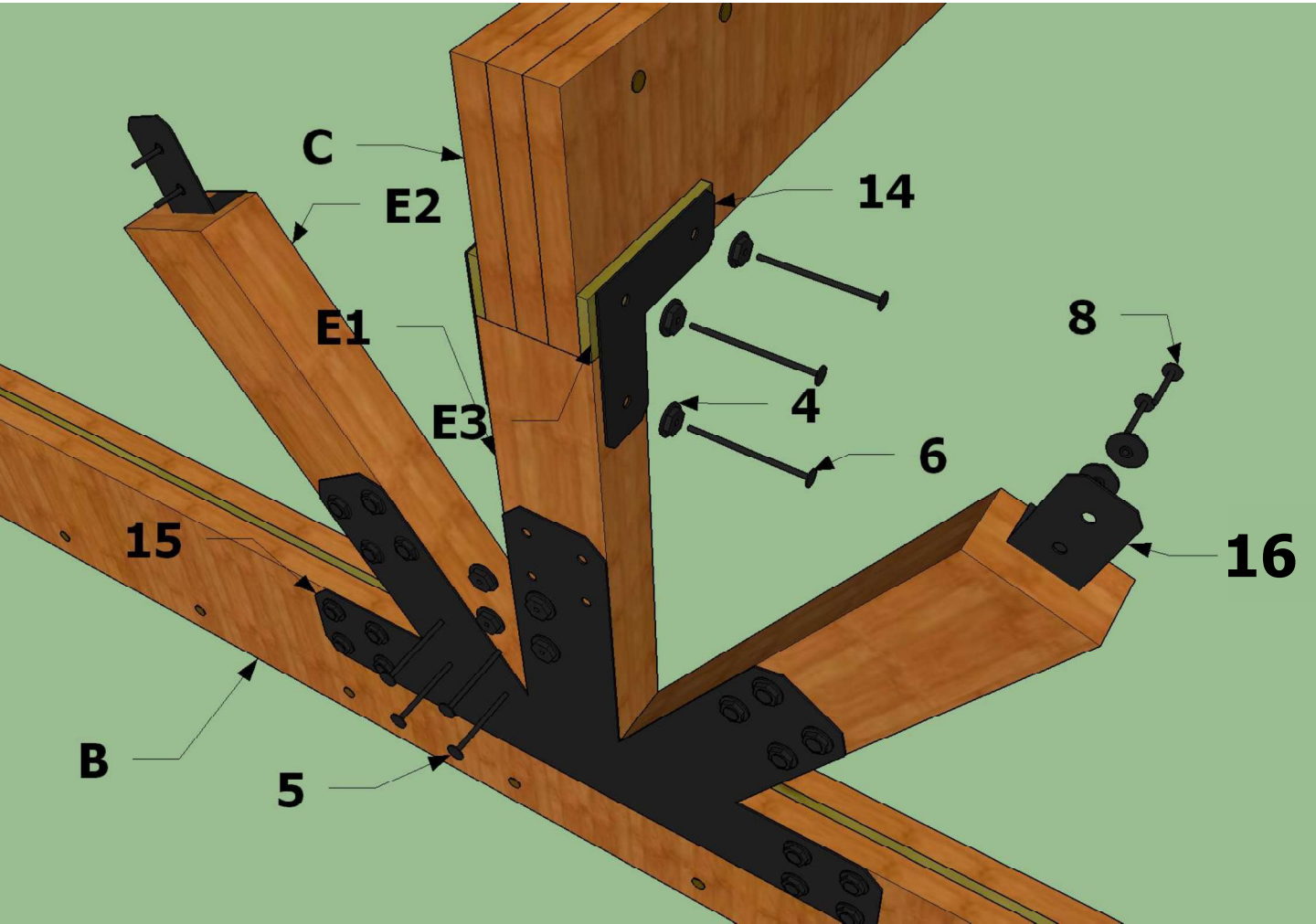


(E): Gable Assembly

4"x6" gable posts and Simpson Outdoor Accents Hardware secure the ridge beam (C) to the short perimeter beam (B)

Components

- 4: Simpson Outdoor Accents Hex Head Washer (34x)
- 5: Simpson Outdoor Accents Structural Wood Screw, 3-1/2" (24x)
- 6: Simpson Outdoor Accents Structural Wood Screw, 5-1/2" (6x)
- 8: Simpson Outdoor Accents Structural Wood Screw, 2" (4x)
- 14: Simpson Outdoor Accents APVL4 (2x)
- 15: Simpson Outdoor Accents APVGP812 (1x)
- 16: Simpson Outdoor Accents APDJT2R-4 (2x)
- E1: 4" x 6" x 2'-1/2" PT Pine (1x)
- E2: 4" x 6" x 2'6" PT Pine (2x)
- E3: 8-3/4" x 3" x 1/2" Exterior CDX Plywood (2x)

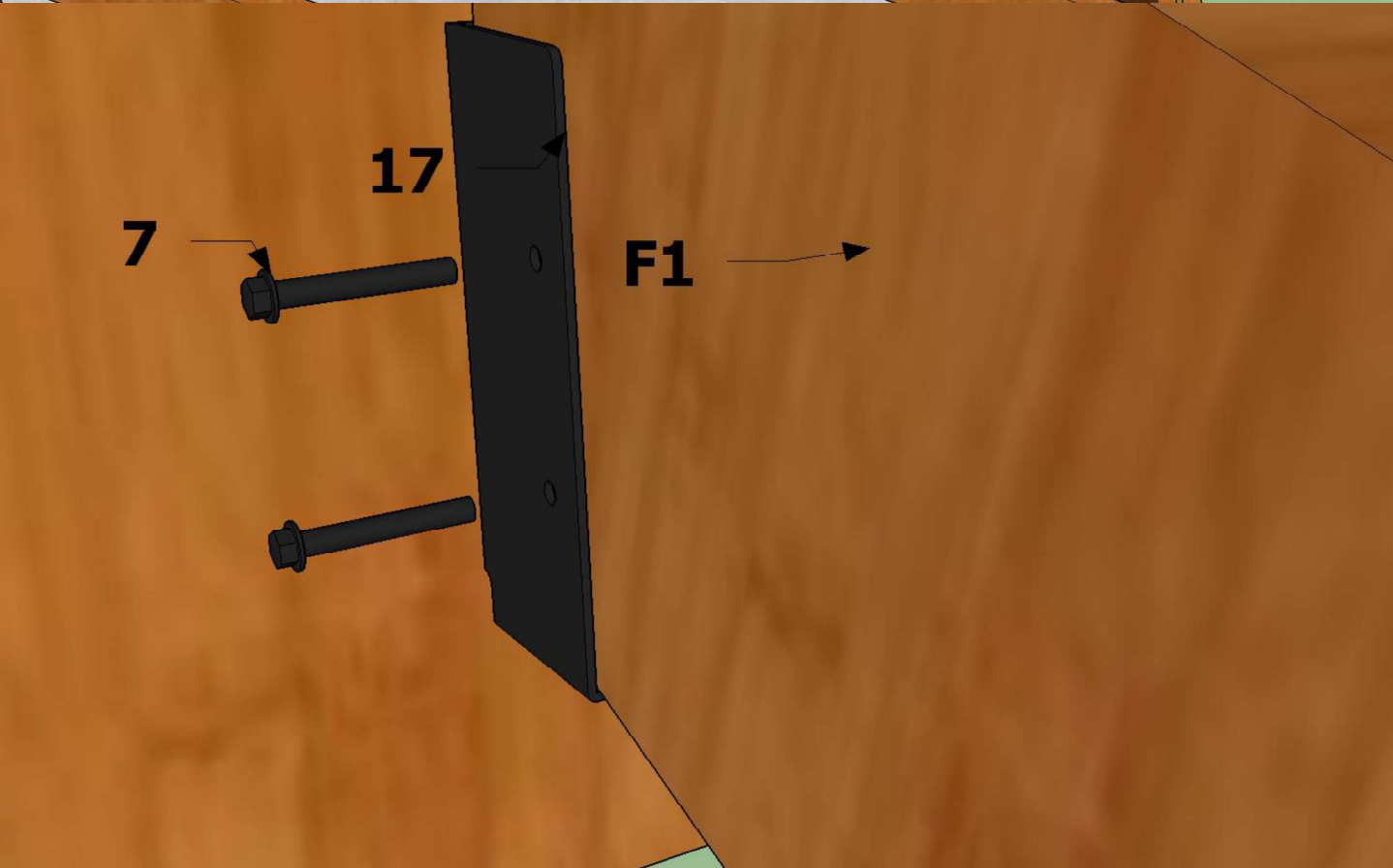
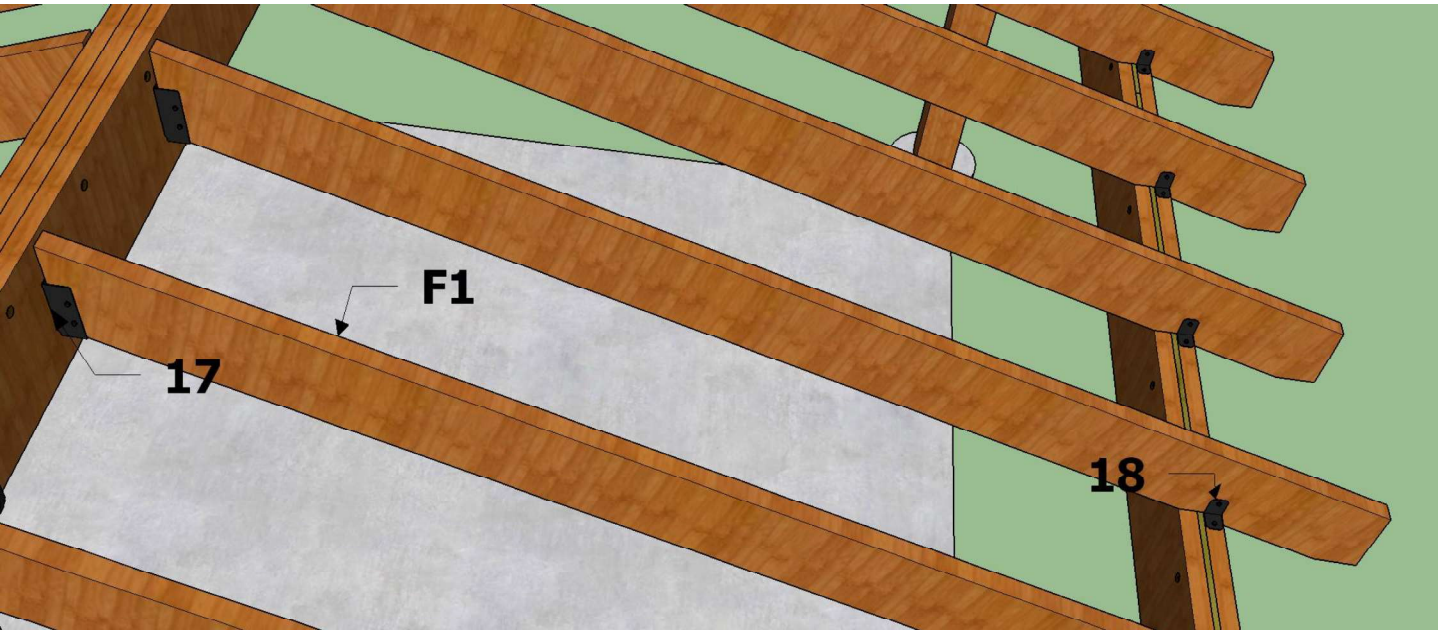


(F): Rafter Assembly

2"x8" rafters secured to ridge beam and long perimeter beam using Simpson Outdoor Accents hardware. Rafters form a 4:12 pitch with 20.55" O/C spacing. Overhang of the long perimeter beam is 12".

Components

- 7: Simpson Outdoor Accents Connector Screw (372x)
- 17: Simpson Outdoor Accents APLH26 (18x)
- 18: Simpson Outdoor Accents APVA21 (48x)
- F1: 2" x 8" x 8'9-1/2" PT Pine (22x)



(G): Roof Assembly

Exterior rated T1-11 19/32" plywood is placed above rafters for appearance, with an additional layer of 19/32" sheathing above that. Asphalt triple tab shingles are secured to the sheathing. Roof extends 12" past the rafter assembly and 3" past rafter tails.

Components

G1: 4'x8'x19/32" T1-11 Plywood (12x)

G2: 4'x8'x19/32" Exterior Sheathing (12x)

G3: Asphalt Shingles (360 sqft)

