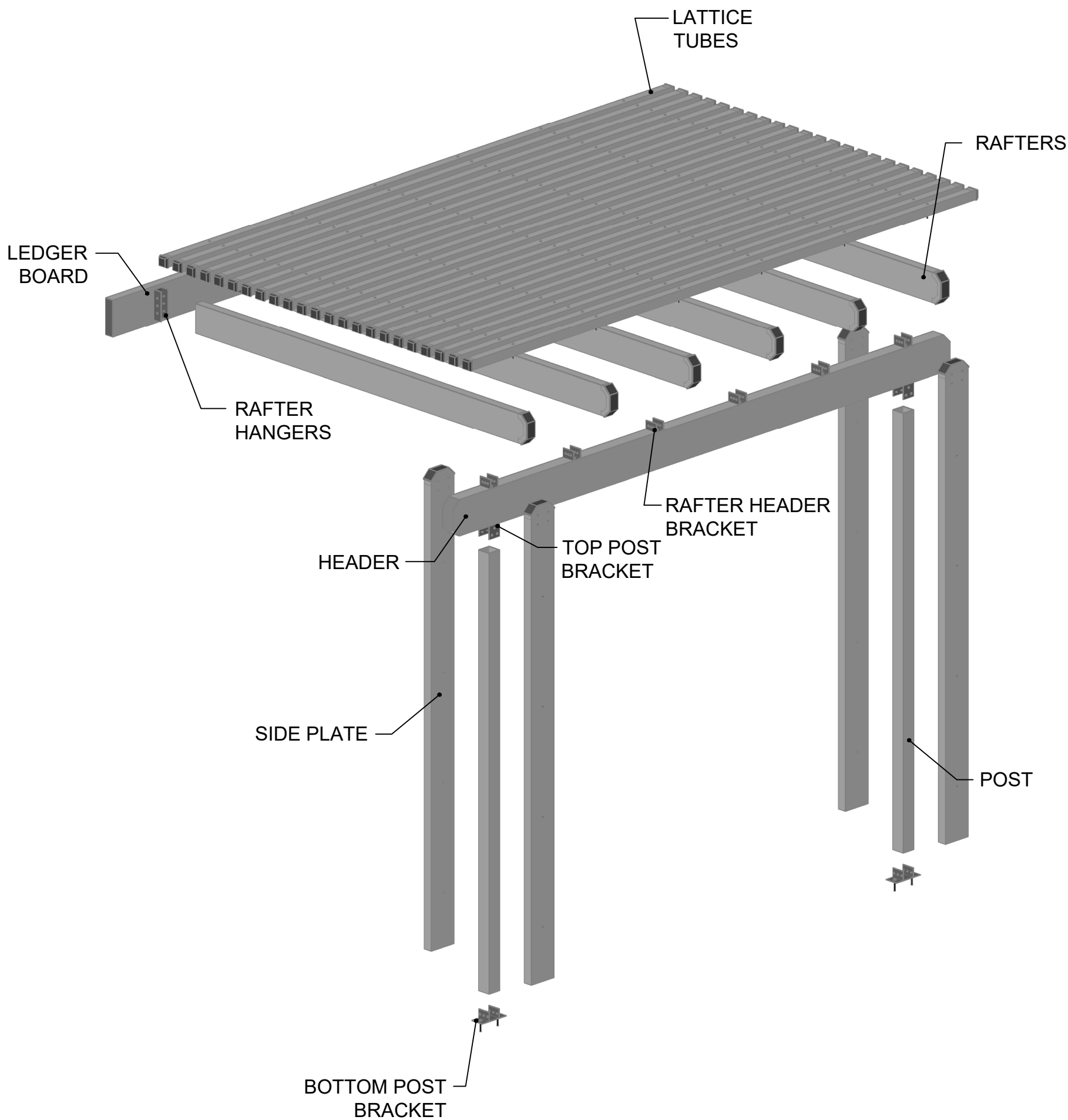
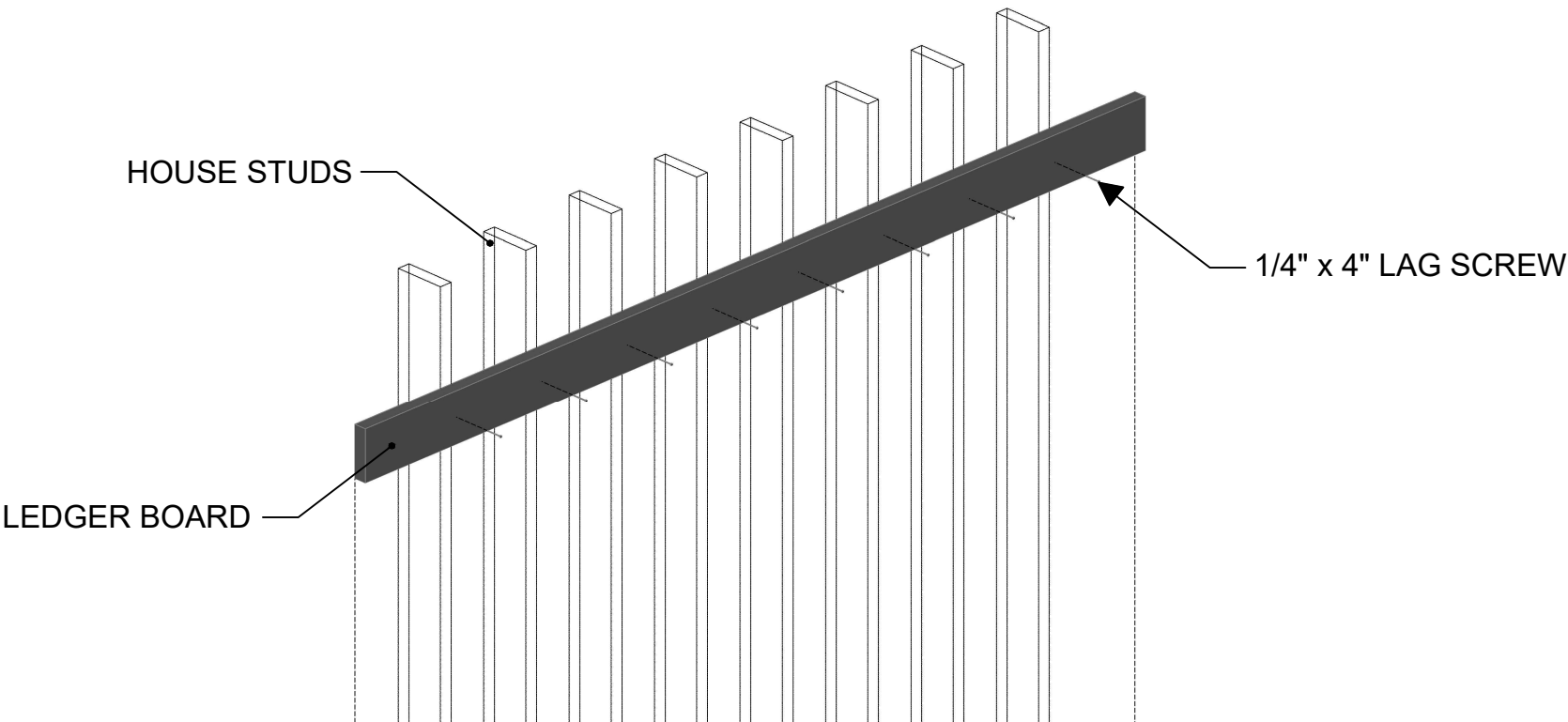


NATUREWOOD PERGOLA INSTALLATION INSTRUCTIONS



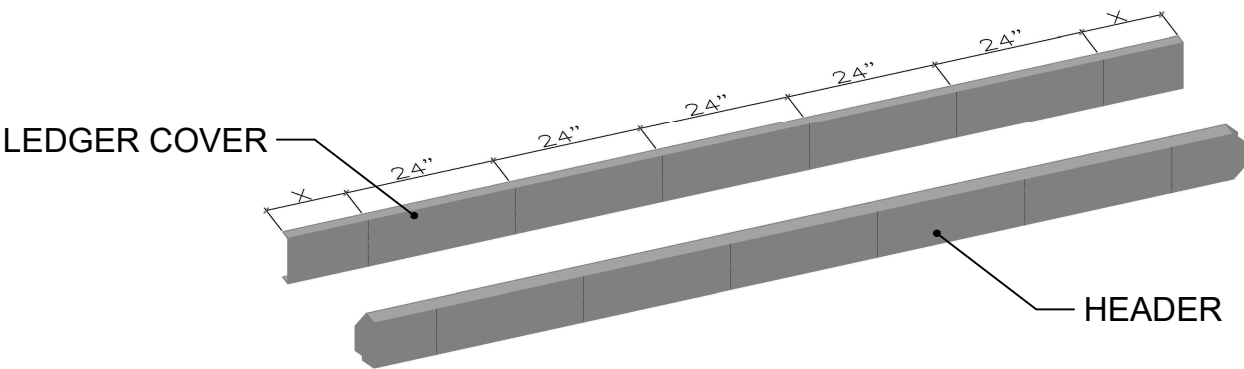
STEP 1. INSTALLATION OF LEDGER BOARD

ATTACH A 2" x 8" LEDGER BOARD TO THE SIDE OF THE HOUSE OR THE HOUSE ROOF
RAFTERS AT THE REQUIRED HEIGHT. FASTEN THE LEDGER BOARD TO THE HOUSE STUDS
USING 1/4" x 4" LAG SCREW.



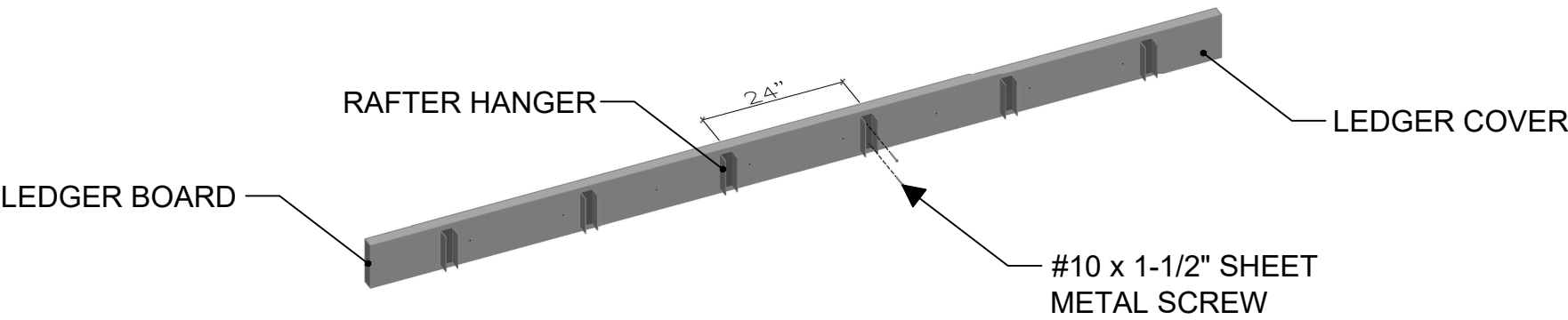
STEP 2. MARK HEADER AND LEDGER COVER

- A. MARK THE LEDGER COVER AS SHOWN AT 24" ON CENTER AND
ENDS AT EQUAL LENGTHS.
- B. MARK HEADER, SEAM SIDE UP WITH THE SAME MEASUREMENTS.



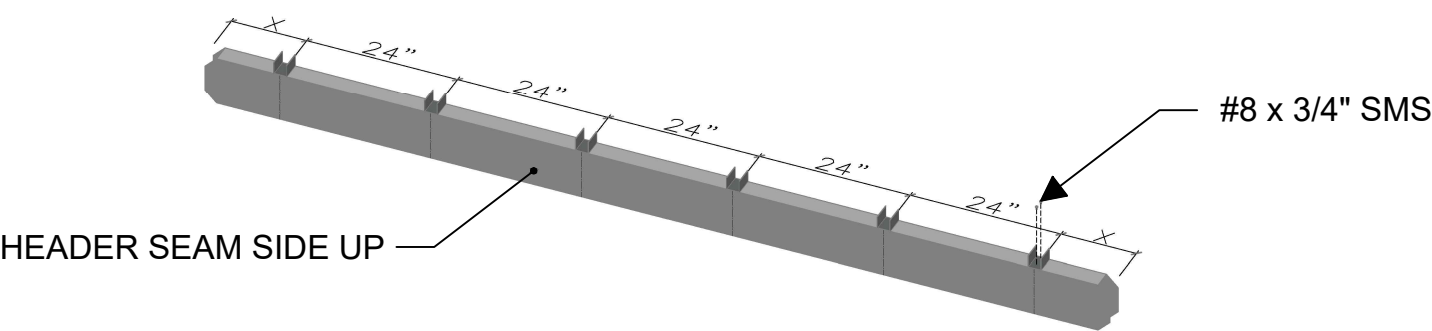
STEP 3. MOUNTING RAFTER HANGERS

PRE-DRILL THE RAFTER HANGERS USING 1/8" BIT. ALIGN THE HANGERS ON CENTER
MARKS MADE IN STEP 2. INSTALL SCREWS OF EACH BRACKET USING #10 x 1-1/2" SMS
SCREW.



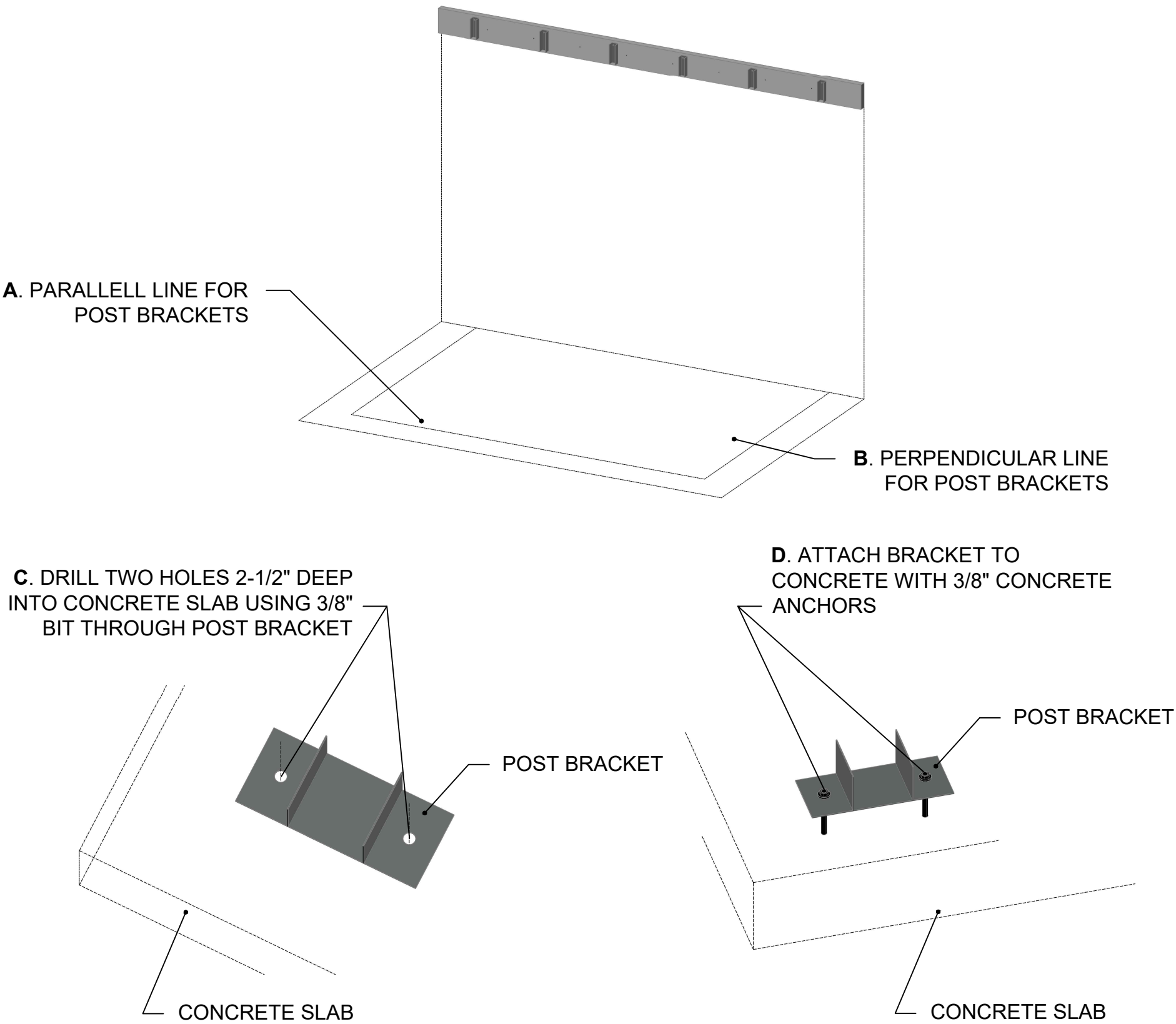
STEP 4. INSTALLING RAFTER BRACKETS TO HEADER

ATTACH THE RAFTER HEADER BRACKETS, SEAM SIDE UP ON THE HEADER USING TWO #8 x 3/4" SMS PER BRACKET. USE THE MARKS MADE IN STEP 2 TO SPACE BRACKETS CORRECTLY. (24" O.C AND ENDS AT EQUAL LENGTHS)



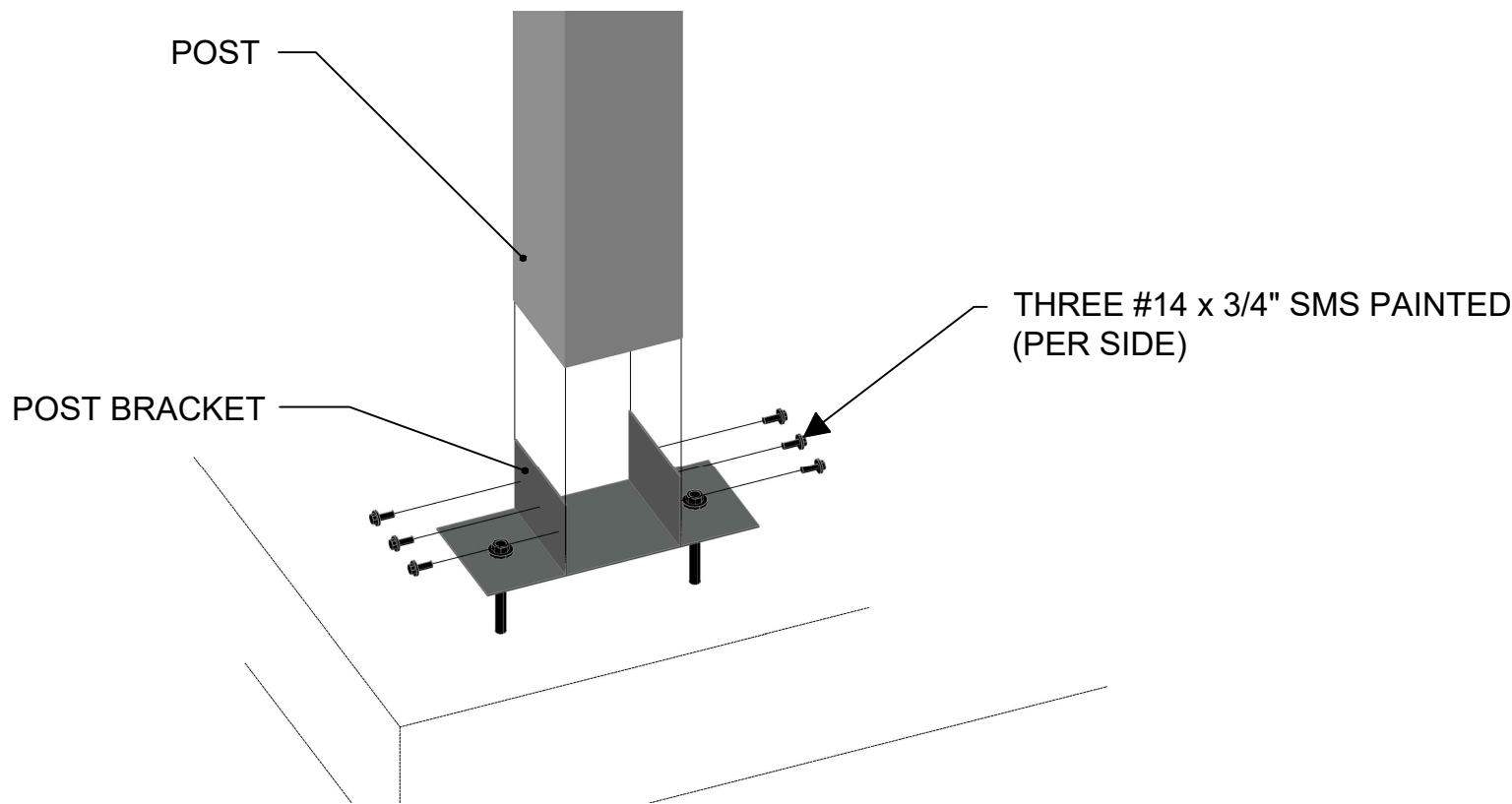
STEP 5. INSTALLATION OF POST BRACKETS

- A. MARK A LINE ON THE SLAB PARALLEL TO THE LEDGER BOARD. THE DISTANCE IS TYPICALLY 12" LESS THAN THE LENGTH OF THE RAFTERS.
- B. MARK A LINE ON THE SLAB PERPENDICULAR TO THE BUILDING ALONG THE CENTER LINES OF THE FIRST AND LAST RAFTER HANGERS (FOR POST SPACING REFER TO PAGE X)
- C. DRILL TWO HOLES 2-1/2" DEEP INTO THE CONCRETE SLAB USING 3/8" BIT THROUGH THE POST BRACKET.
- D. ATTACH THE POST BRACKET TO THE CONCRETE WITH 3/8" CONCRETE ANCHOR.



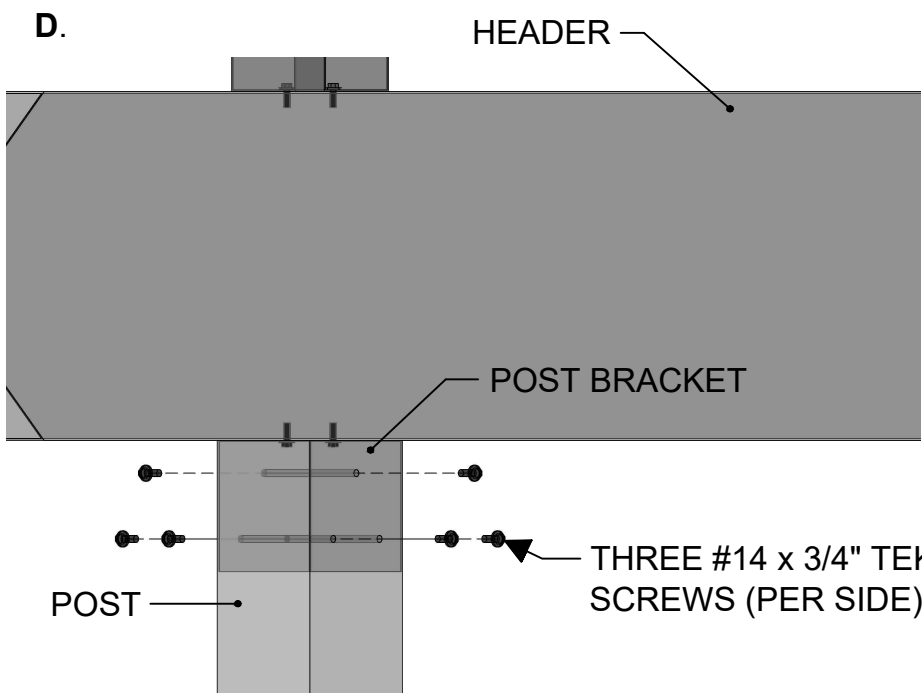
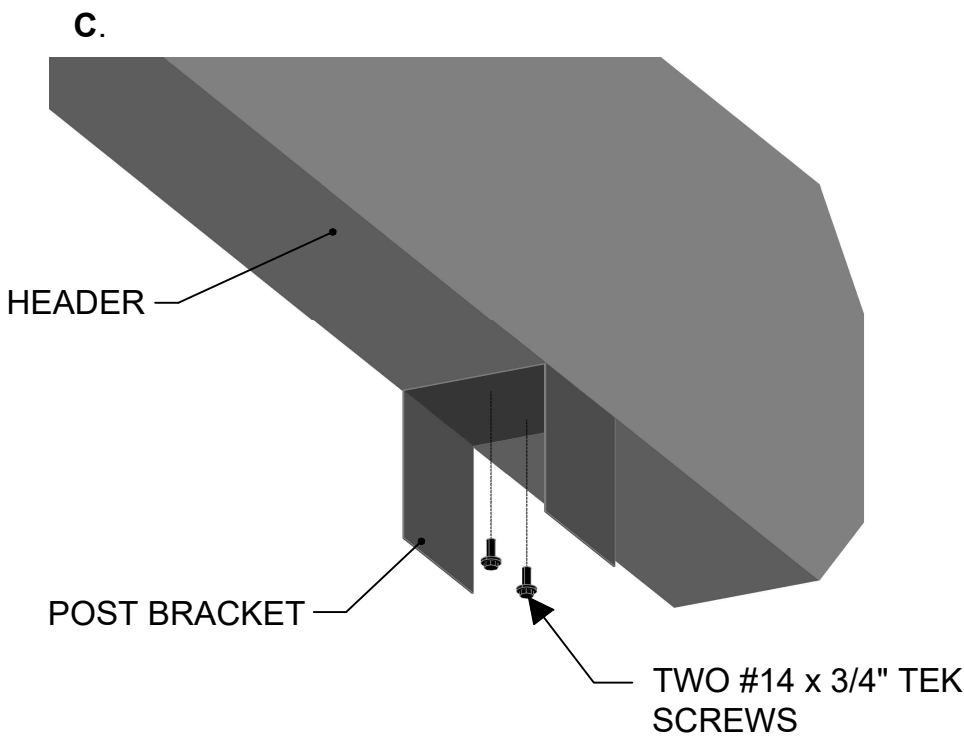
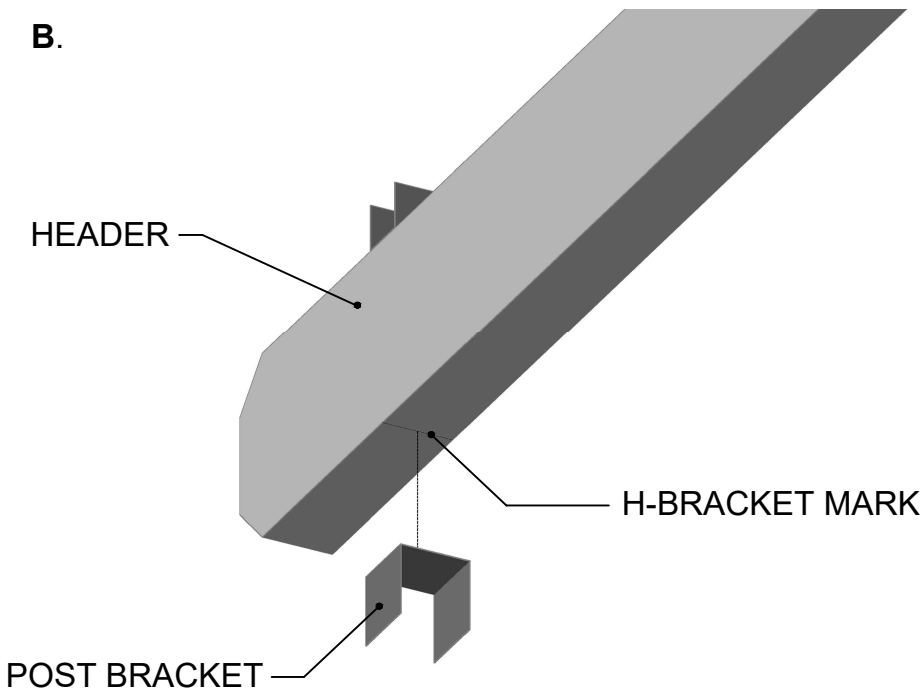
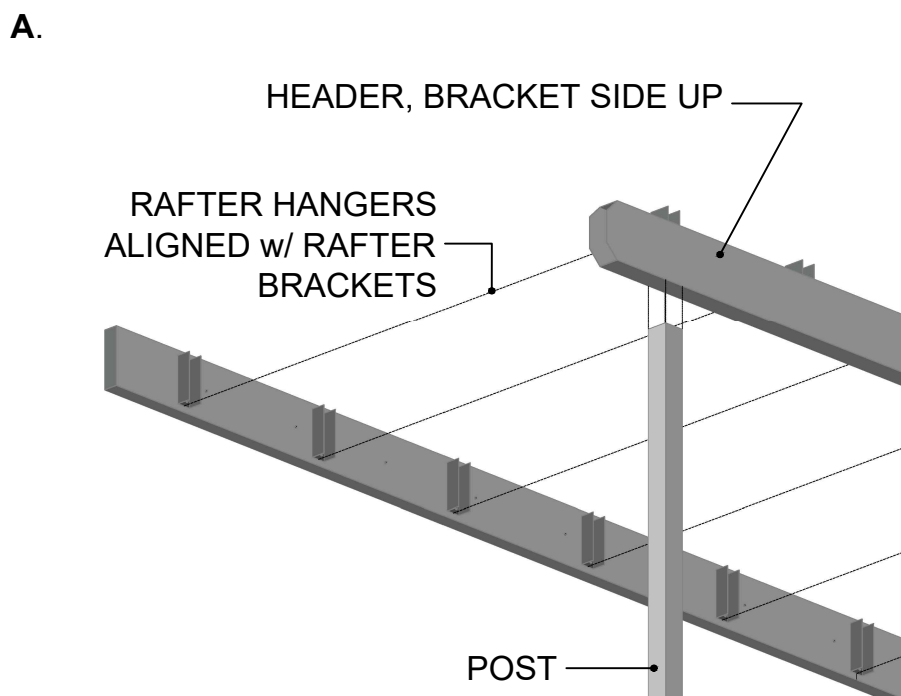
STEP 6. POST INSTALLATION

SET THE POST OVER THE POST BRACKET. INSTALL THREE PAINTED #14 x 3/4" SMS PER SIDE.



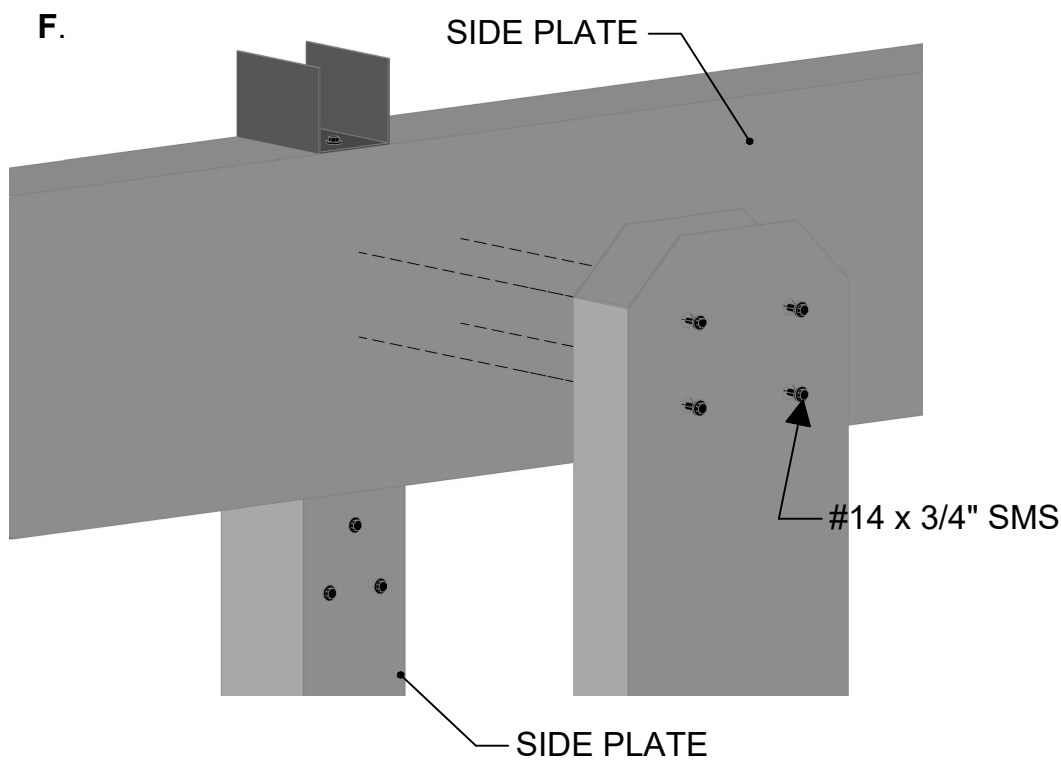
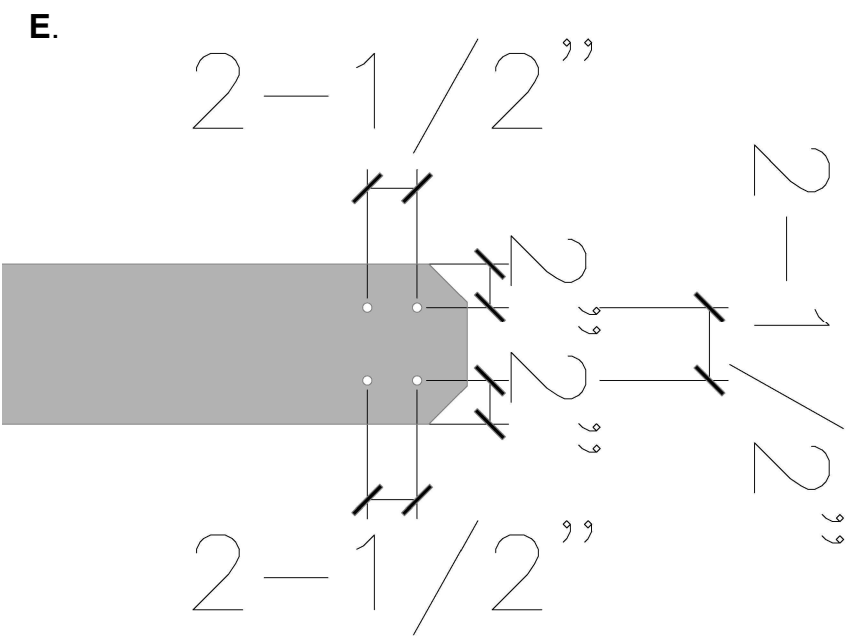
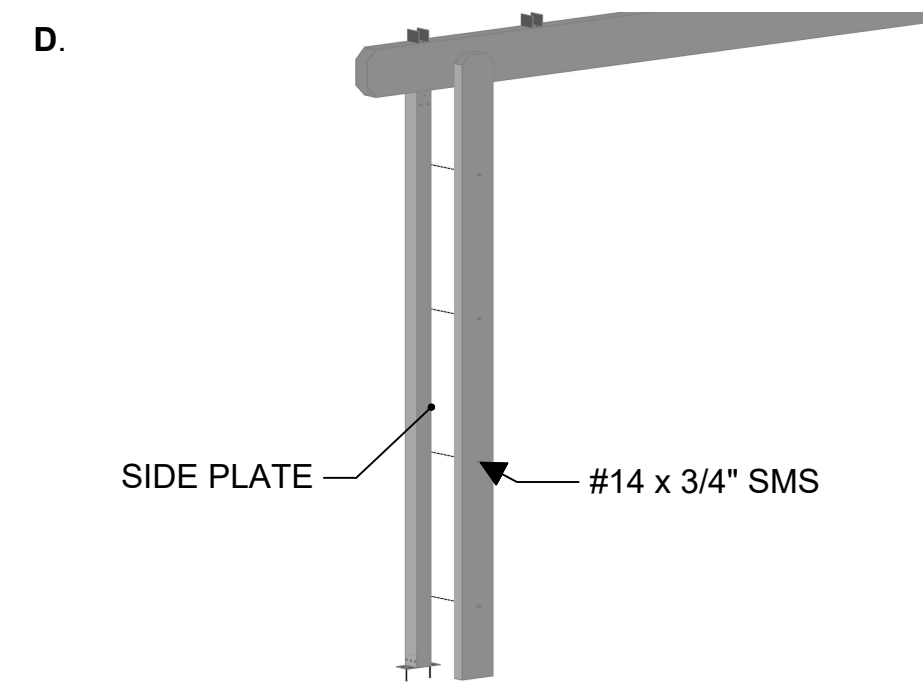
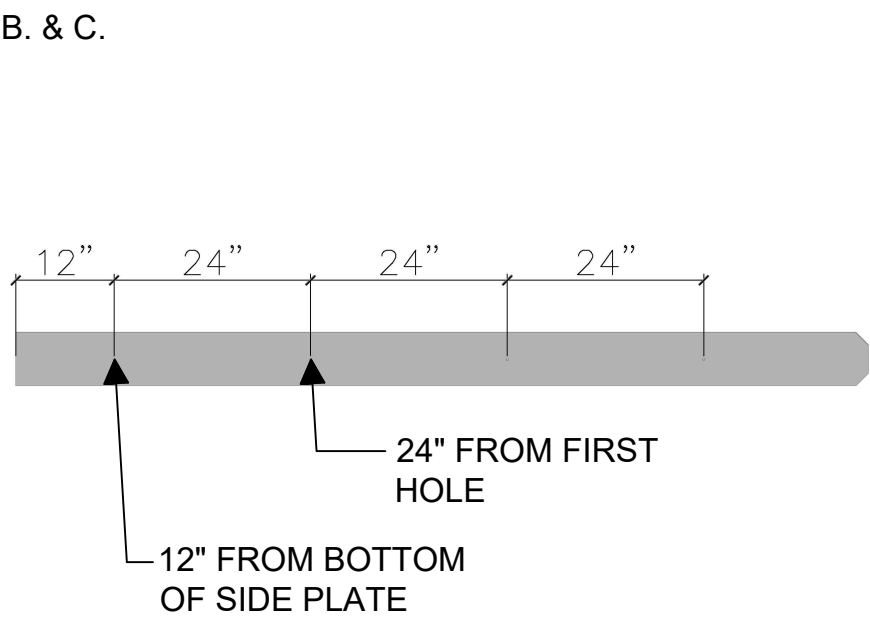
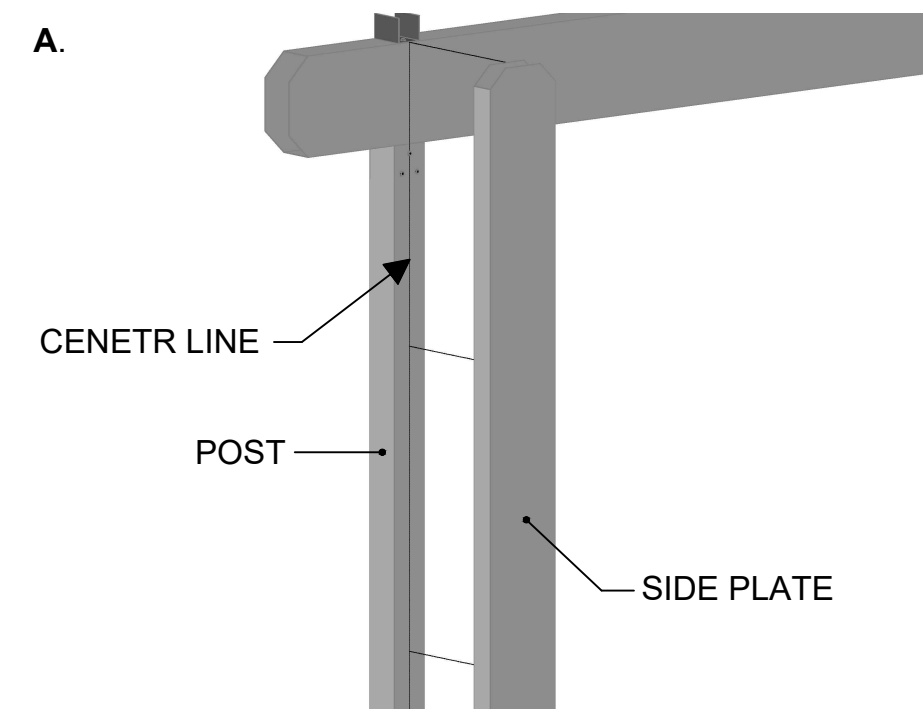
STEP 7. HEADER INSTALLATION

- A. SET THE HEADER, BRACKET SIDE UP, ON TOP OF THE POSTS. ALIGN THE RAFTER HANGERS WITH THE RAFTER BRACKETS ON THE HEADER.
- B. MARK THE HEADER WHERE THE POST TO HEADER BRACKETS WILL BE PLACED.
- C. INSTALL THE POST TO HEADER BRACKET ON THE BOTTOM SIDE OF THE HEADER WITH TWO #14 x 3/4" TEK SCREWS. REPEAT FOR EVERY POST THAT IS NEEDED.
- D. INSTALL THE HEADER ON TOP OF THE POSTS USING THREE #14 x 3/4" TEK SCREWS IN A TRIANGULAR PATTERN. REPEAT FOR EVERY POST THAT IS NEEDED.



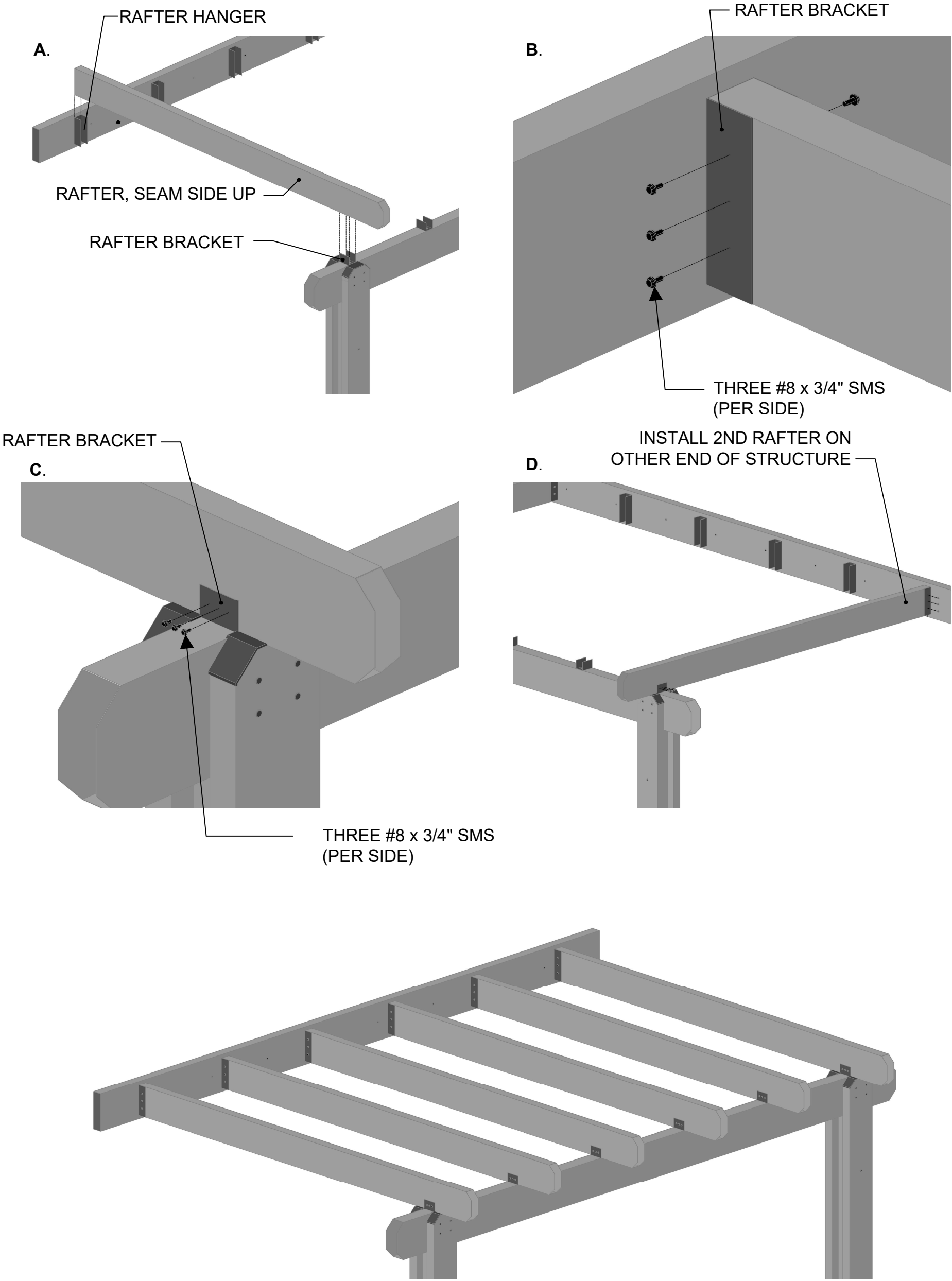
STEP 8. SIDE PLATE INSTALLATION

- A. CENTER THE SIDE PLATE ON THE POST.
- B. MEASURE UP 12" ON CENTER FROM THE BOTTOM OF THE SIDE PLATE AND USE A 5/8" DRILL BIT TO MAKE A HOLE.
- C. MEASURE UP 24" ON CENTER FROM THE HOLE MADE IN **STEP B** AND MAKE ANOTHER HOLE. CONTINUE FOR EVERY HOLE THAT IS NEEDED.
- D. INSTALL A #14 x 3/4" SMS THROUGH EACH HOLE MADE, CONNECTING THE SIDE PLATE TO THE POST.
- E. DRILL FOUR MORE HOLES AT THE TOP OF THE SIDE PLATE AS SHOWN.
- F. INSTALL A #14 x 3/4" SMS THROUGH EACH HOLE MADE, CONNECTING THE SIDE PLATE TO THE HEADER.



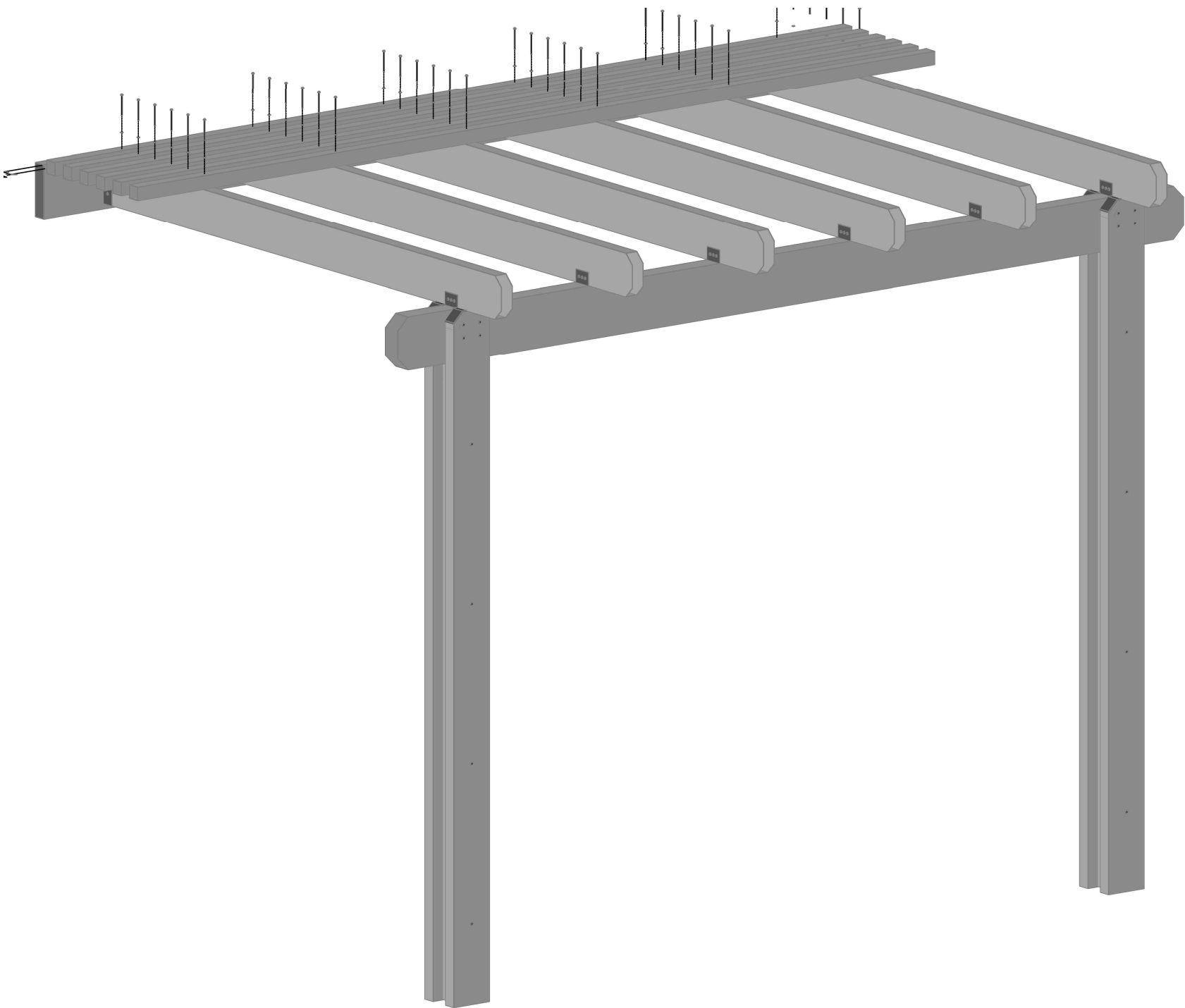
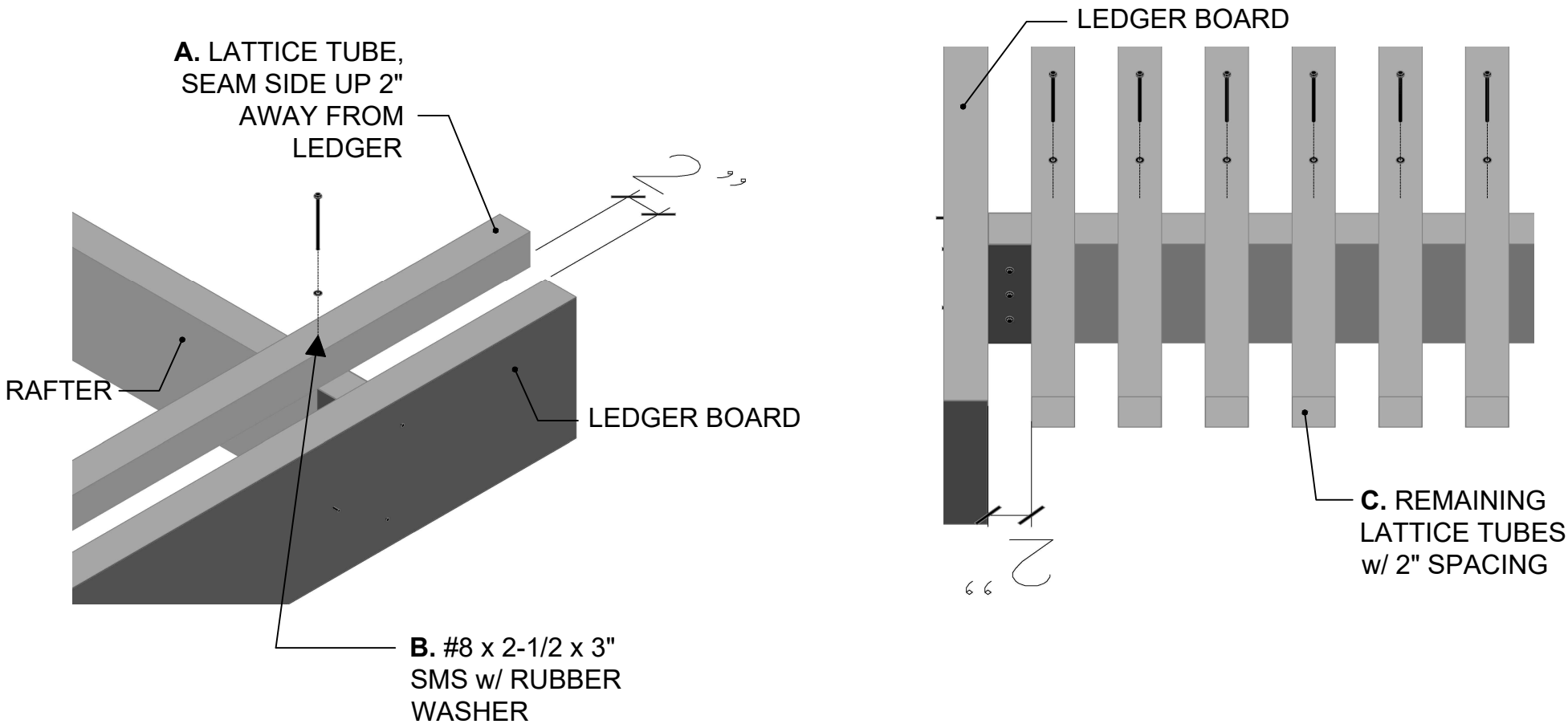
STEP 9. INSTALLATION OF RAFTERS

- A. PLACE A RAFTER, SEAM SIDE UP ON A RAFTER HANGER AND IN A RAFTER BRACKET ON THE END OF THE STRUCTURE.
- B. SECURE THE RAFTER TO THE RAFTER HANGER USING THREE #8 x 3/4" SMS PER SIDE.
- C. SECURE THE RAFTER TO THE RAFTER BRACKET USING THREE #8 x 3/4" SMS PER SIDE.
- D. PLACE ANOTHER RAFTER, SEAM SIDE UP ON A RAFTER HANGER AND IN A RAFTER BRACKET ON THE OTHER END OF THE STRUCTURE. (REPEAT B. & C. FOR EVERY RAFTER)



STEP 9. PERGOLA TUBE INSTALLATION

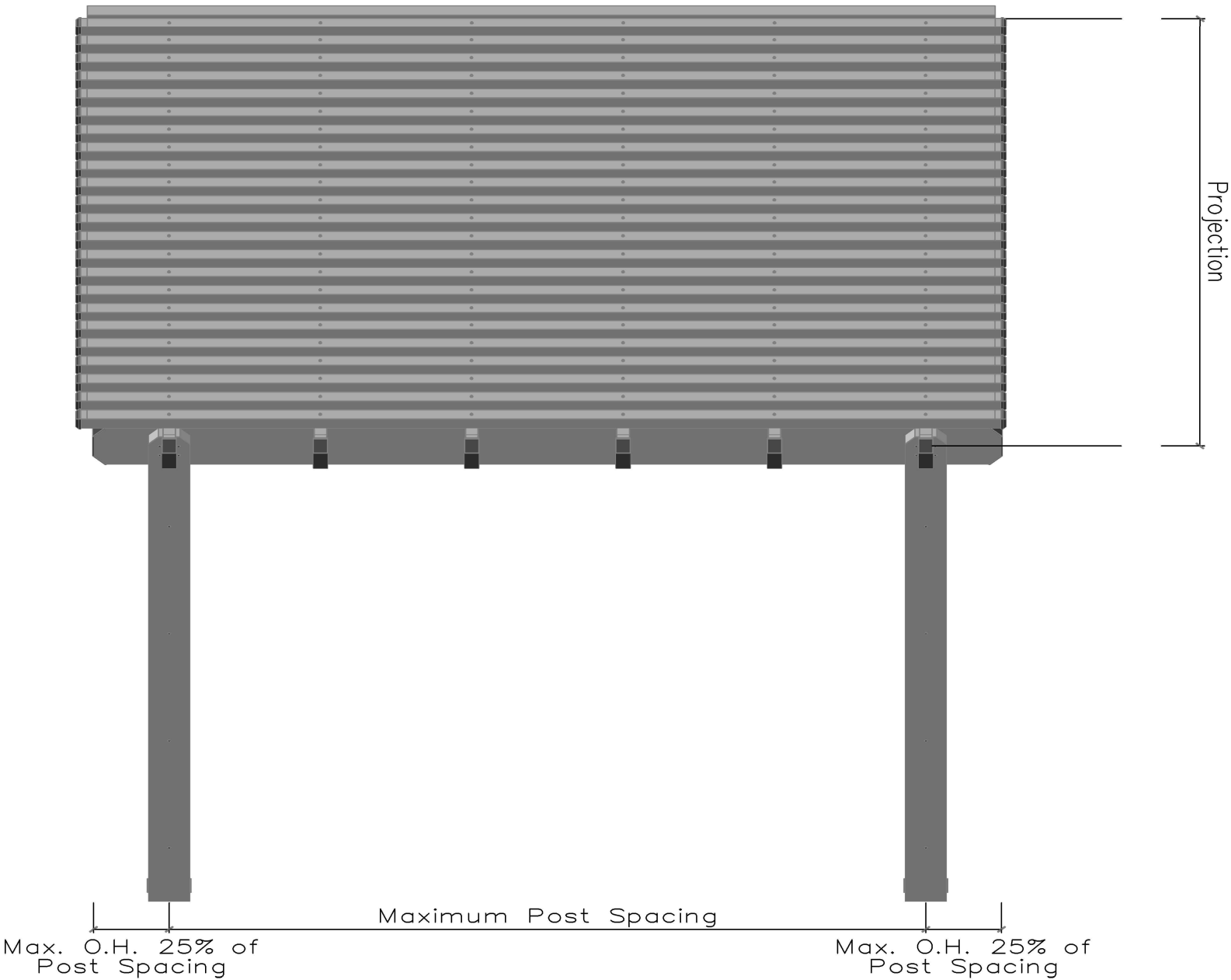
- A. SET THE FIRST LATTICE TUBE, SEAM SIDE UP 2" AWAY FROM THE LEDGER BOARD.
- B. SECURE THE LATTICE TUBE TO THE RAFTER USING ONE #8 x 2-1/2" x 3" SMS WITH A RUBBER WASHER.
- C. INSTALL THE REMAINING LATTICE TUBES WITH A 2" SPACE BETWEEN EACH LATTICE TUBE.



POST SPACING

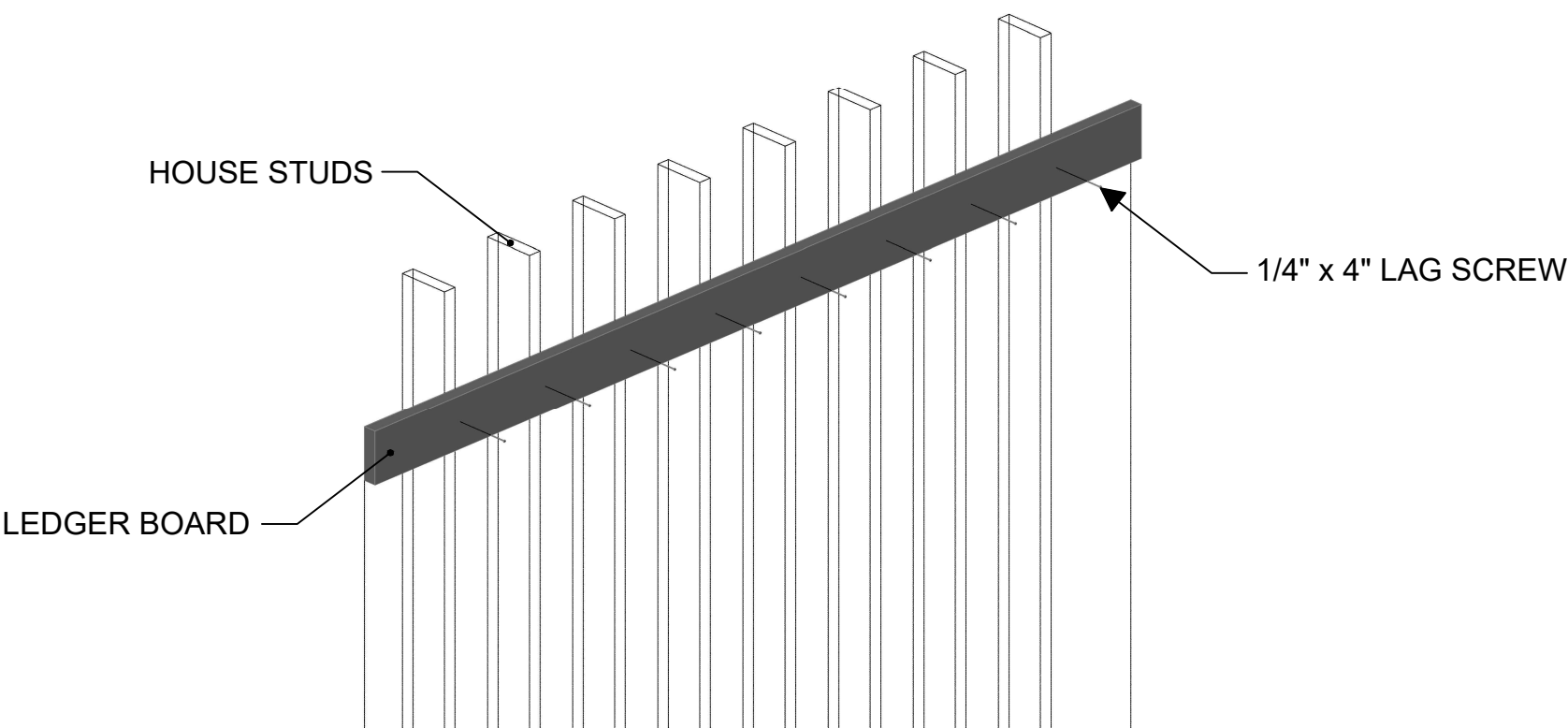
MAXIMUM POST SPACING			
PROJECTION	10 PSF SNOW LOAD	20 PSF SNOW LOAD	30 PSF SNOW LOAD
8 Ft	14'-3"	7'-2"	18'-3"*
10 Ft	11'-11"	6'-1"	18'-3"*
12 Ft	10'-2"	19'-1"	18'-3"*
14 Ft	8'-11"	17'-10"*	17'-6"*

* REQUIRES STEEL C-BEAM, STEEL POSTS AND FOOTING



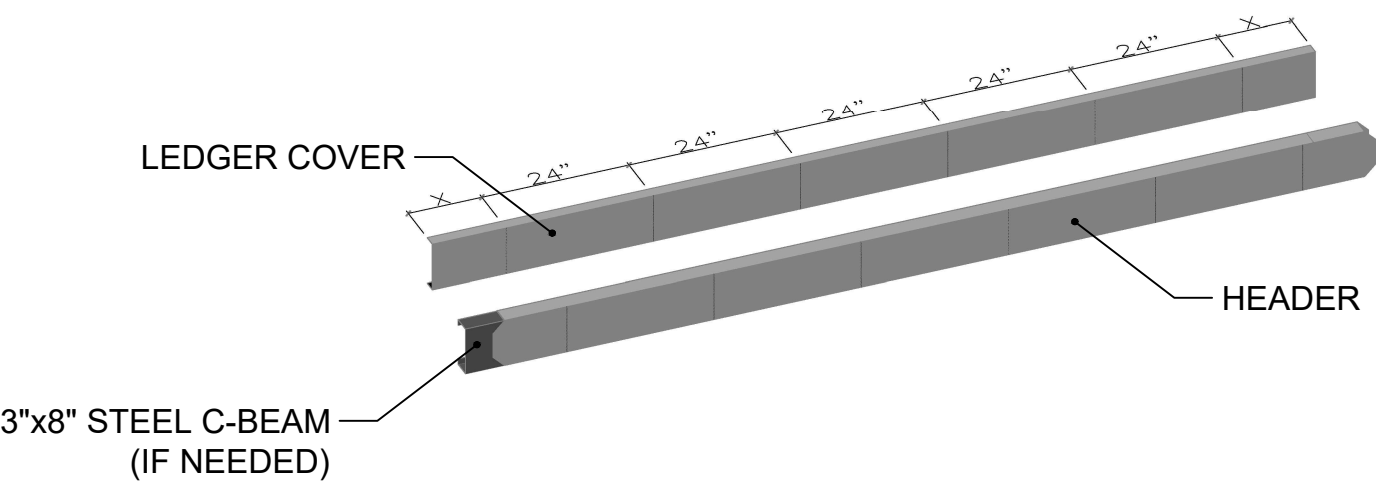
STEP 1. INSTALLATION OF LEDGER BOARD

ATTACH A 2" x 8" LEDGER BOARD TO THE SIDE OF THE HOUSE OR THE HOUSE ROOF
RAFTERS AT THE REQUIRED HEIGHT. FASTEN THE LEDGER BOARD TO THE HOUSE STUDS
USING 1/4" x 4" LAG SCREW.



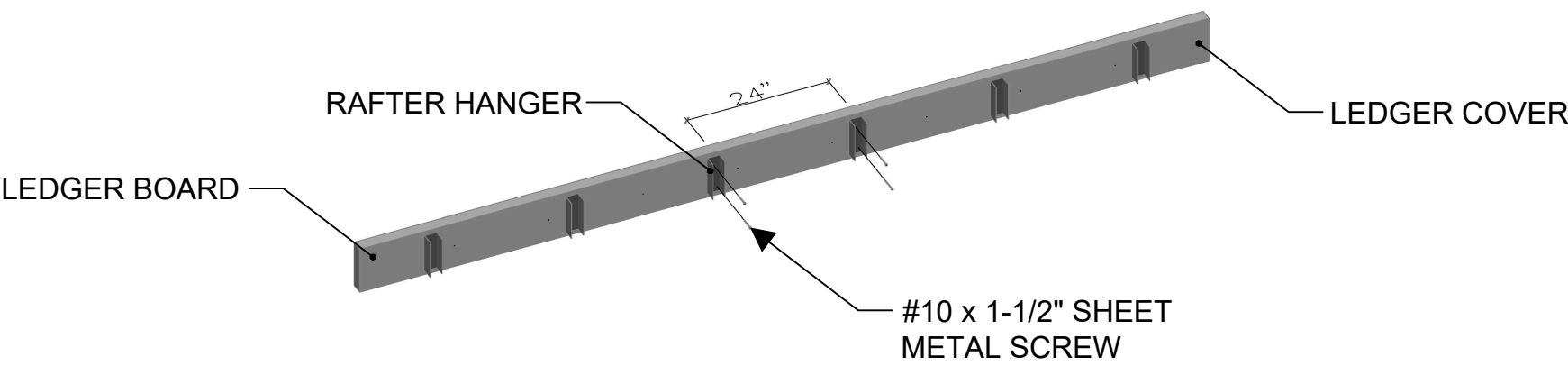
STEP 2 MARK HEADER AND LEDGER COVER

- A. MARK THE LEDGER COVER AS SHOWN AT 24" ON CENTER AND
ENDS AT EQUAL LENGTHS.
- B. MARK HEADER, SEAM SIDE UP WITH THE SAME MEASUREMENTS.
- C. INSERT 3"x8" STEEL C-BEAM INTO HEADER. (IF NEEDED)



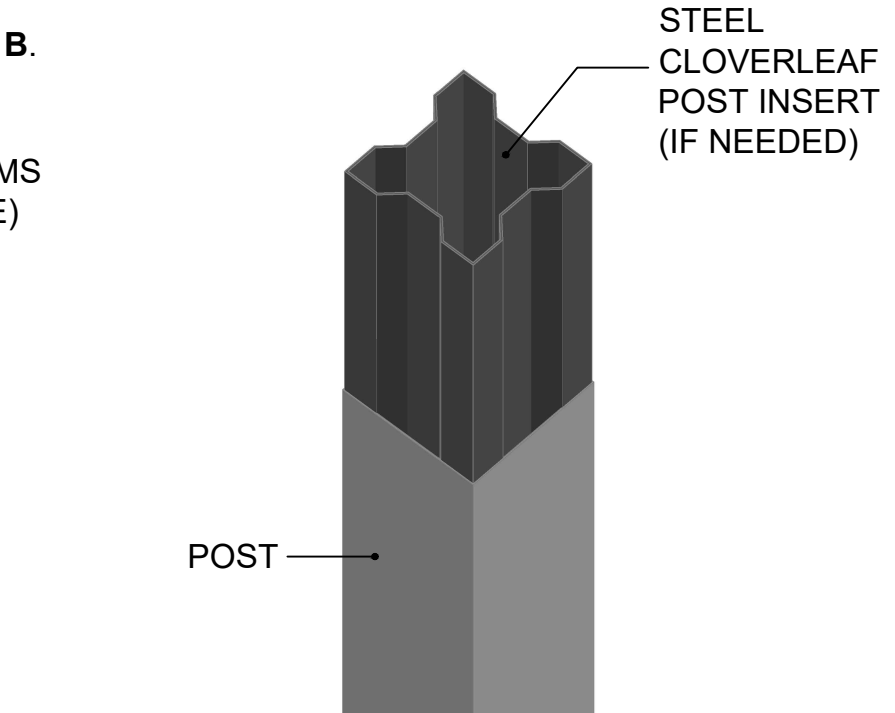
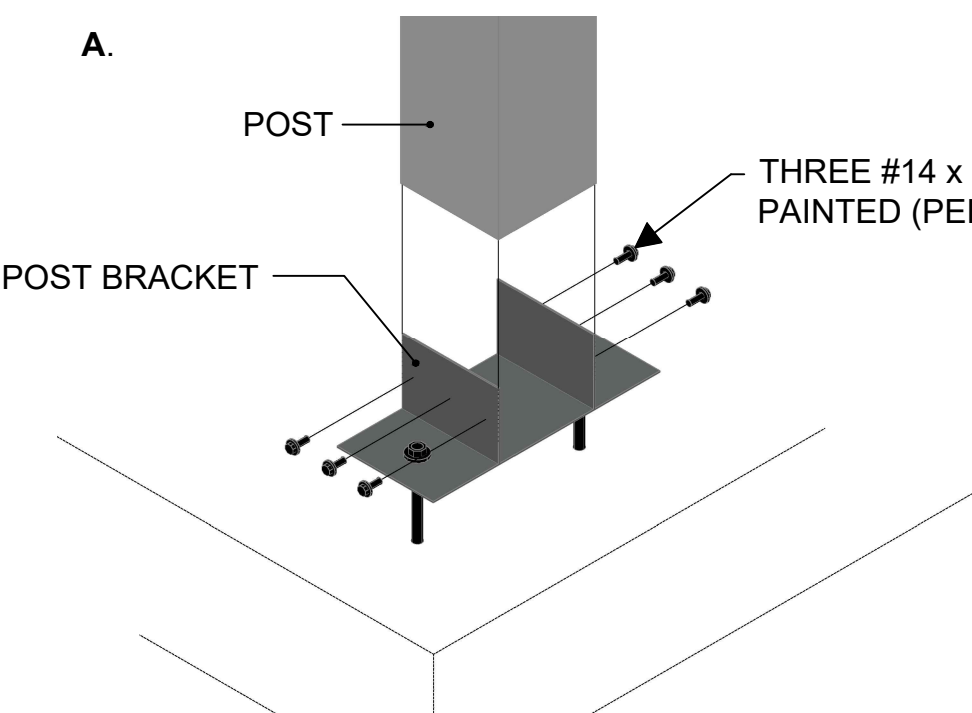
STEP 3. MOUNTING RAFTER HANGERS

PRE-DRILL THE RAFTER HANGERS USING 1/8" BIT. ALIGN THE HANGERS ON CENTER
MARKS MADE IN STEP 2. INSTALL SCREWS OF EACH BRACKET USING #10 x 1-1/2" SMS
SCREW.



STEP 6 POST INSTALLATION (WITH POST INSERT)

- A. SET THE POST OVER THE POST BRACKET. INSTALL THREE PAINTED #14 x 3/4" SMS PER SIDE.
- B. INSERT STEEL CLOVERLEAF POST INSERT INTO THE POST. (IF NEEDED)



STEP 7 HEADER INSTALLATION (WITH POST BRACKET)

- A. SET THE HEADER, BRACKET SIDE UP, ON TOP OF THE POSTS. ALIGN THE RAFTER HANGERS WITH THE RAFTER BRACKETS ON THE HEADER.
- B. MARK THE HEADER WHERE THE POST BRACKETS WILL BE PLACED.
- C. INSTALL THE POST BRACKET ON THE BOTTOM SIDE OF THE HEADER WITH FOUR #14 x 3/4" TEK SCREWS. REPEAT FOR EVERY POST THAT IS NEEDED.
- D. INSTALL THE HEADER ON TOP OF THE POSTS USING THREE #14 x 3/4" TEK SCREWS (PER SIDE) IN A TRIANGULAR PATTERN. REPEAT FOR EVERY POST THAT IS NEEDED.

