



# TIMBERHAVEN

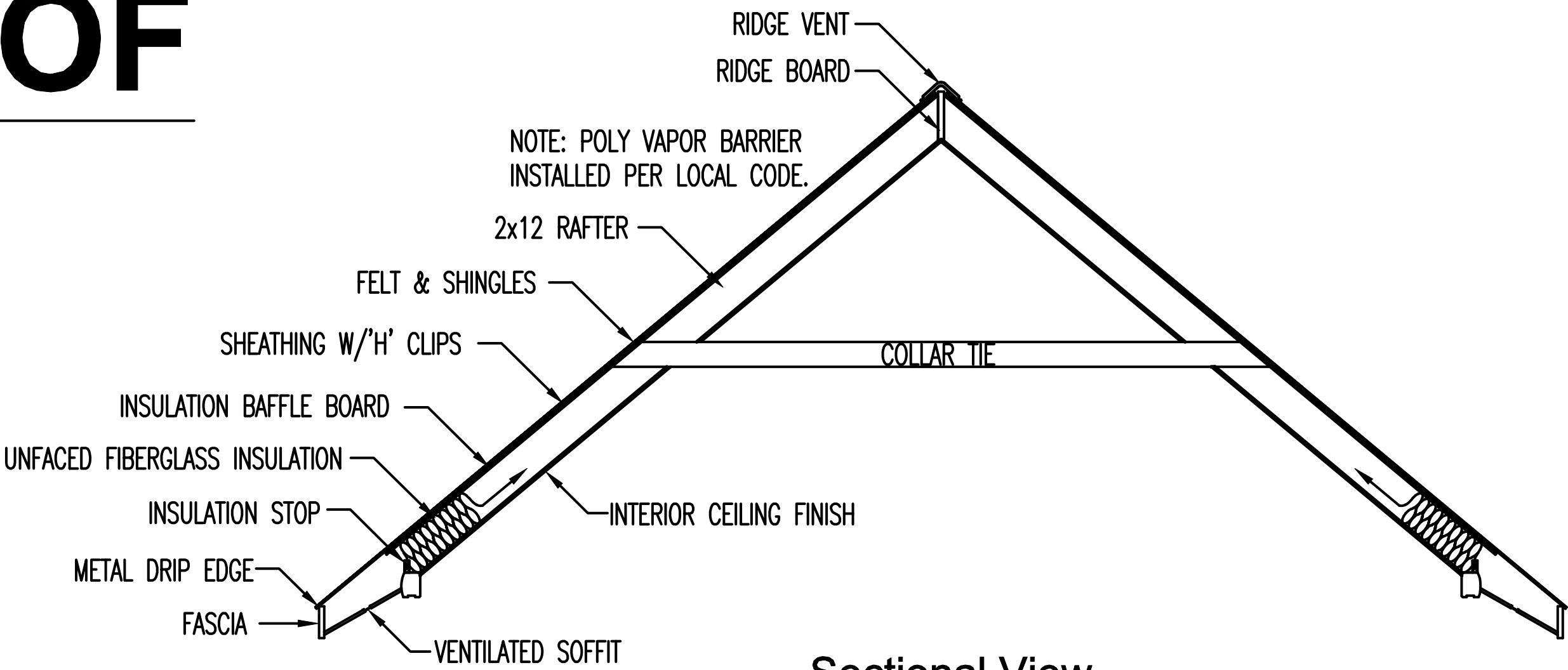
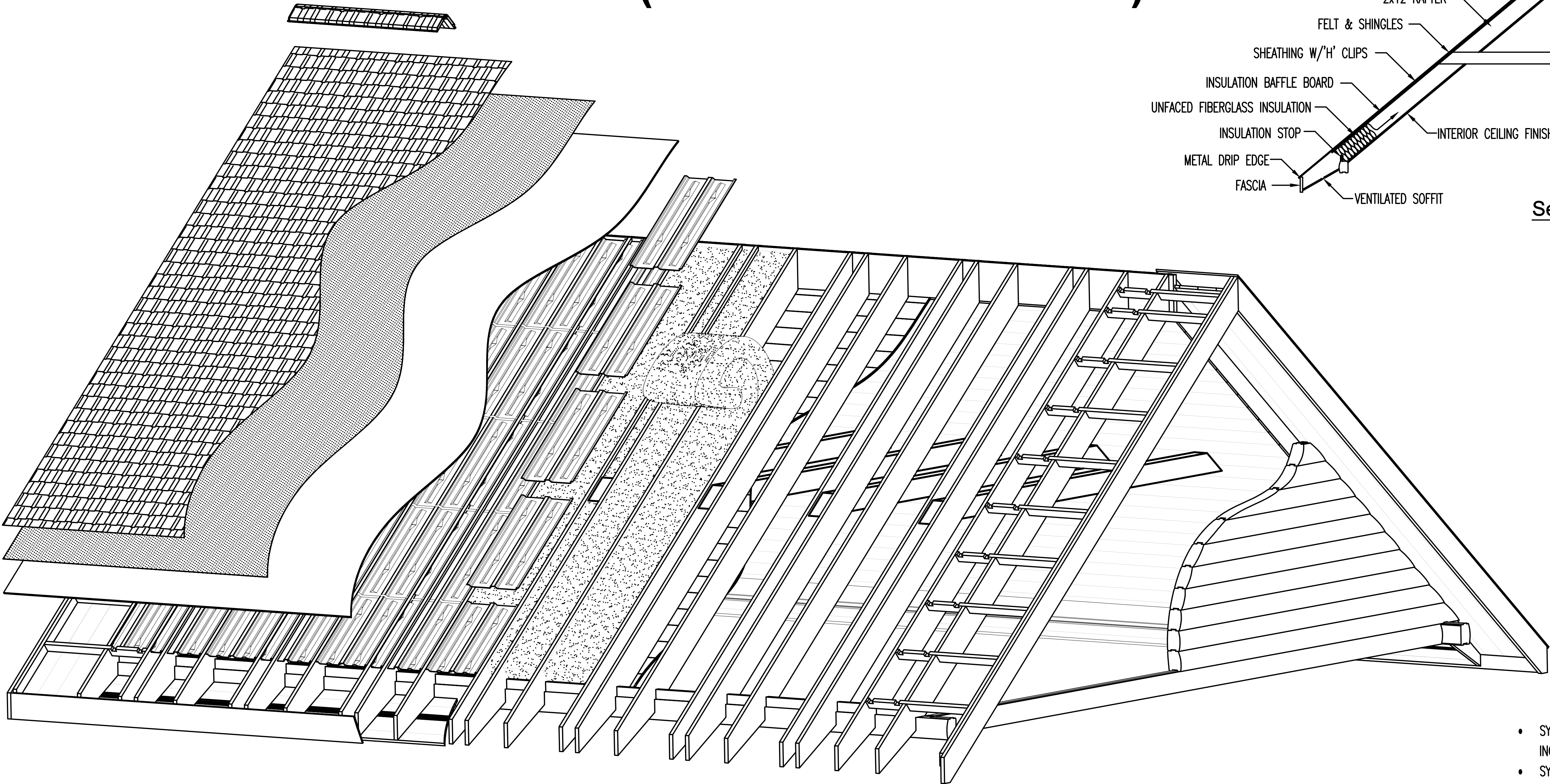
## Typical Roof Framing Diagrams

### TABLE OF CONTENTS

### PAGES

2 x 12 Rafter Roof (CATHEDRAL CEILING).....	1
2 x 12 Rafter Roof (VAULTED CEILING).....	2
2 x 12 Rafter Roof (FLAT CEILING).....	3
2 x 12 Rafter (SALTBOX) Roof (CATHEDRAL CEILING).....	4
2 x 12 Rafter (SALTBOX) Roof (VAULTED CEILING).....	5
2 x 12 Rafter (GAMBREL) Roof (CATHEDRAL CEILING).....	6
2 x 12 Rafter (GAMBREL) Roof (VAULTED CEILING).....	7
Pre-Fab Flat Truss.....	8
Pre-Fab Attic Truss.....	9
Pre-Fab Scissors Truss.....	10
Beam & Purlin ("A" TRUSS).....	11
Beam & Purlin ("W" TRUSS).....	12
Beam & Purlin ("KING" TRUSS).....	13
Beam & Purlin ("SALTBOX" TRUSS).....	14
Beam & Purlin ("GAMBREL" TRUSS).....	15
6 x 8 Rafter Roof.....	16
8"Ø Rafter Roof.....	17

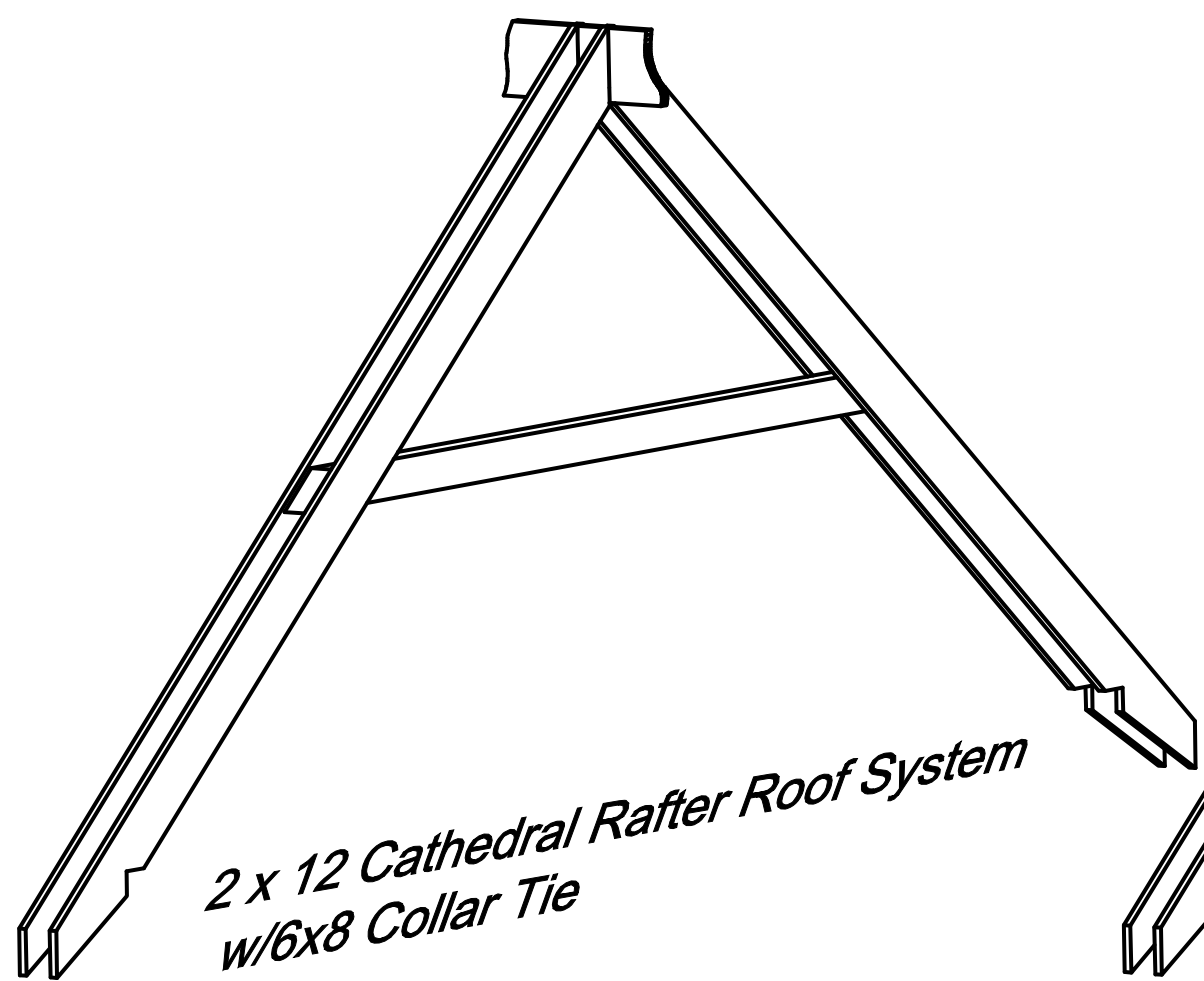
# 2 x 12 RAFTER ROOF (CATHEDRAL CEILING)



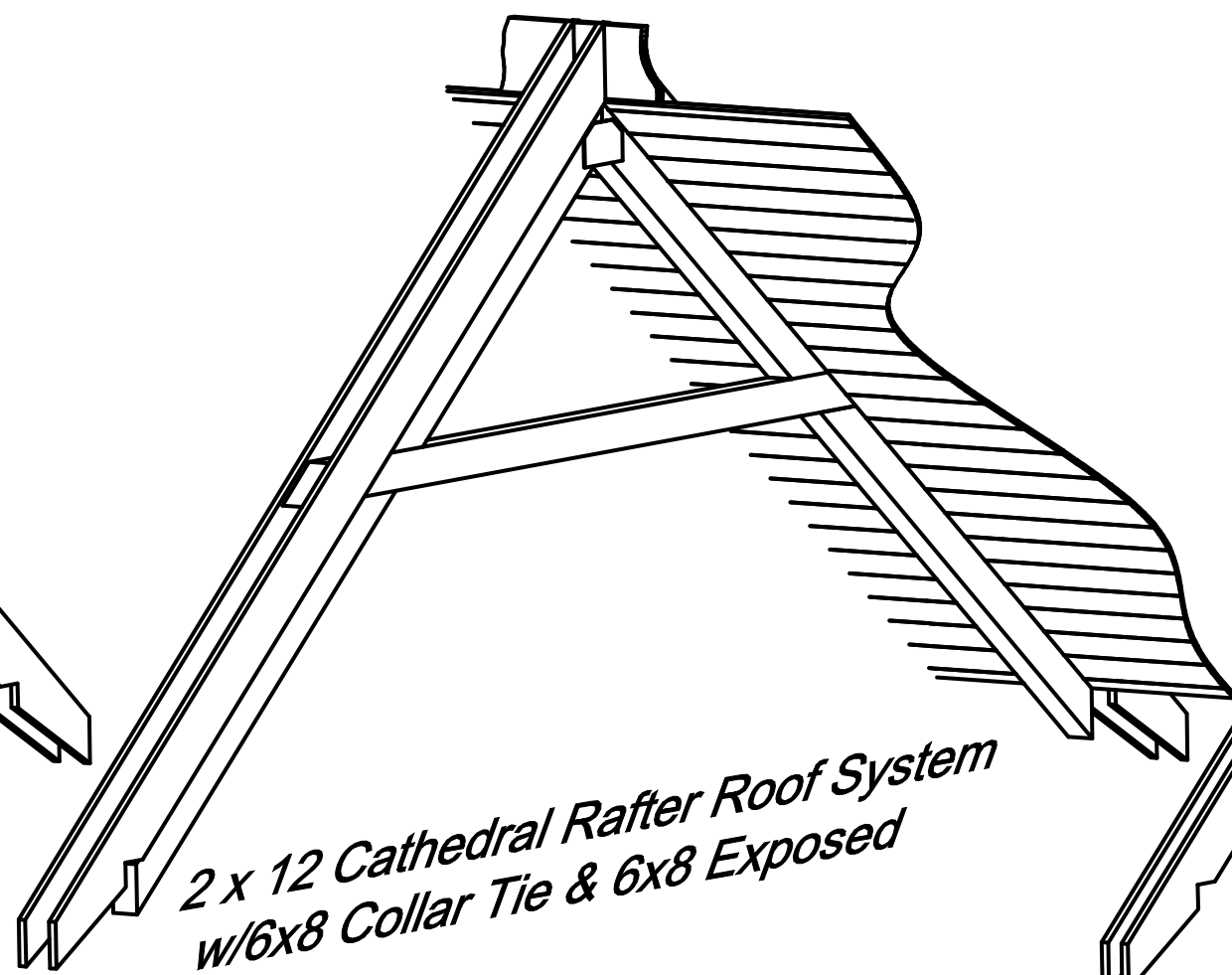
Sectional View

## DESIGN SPECIFICATIONS

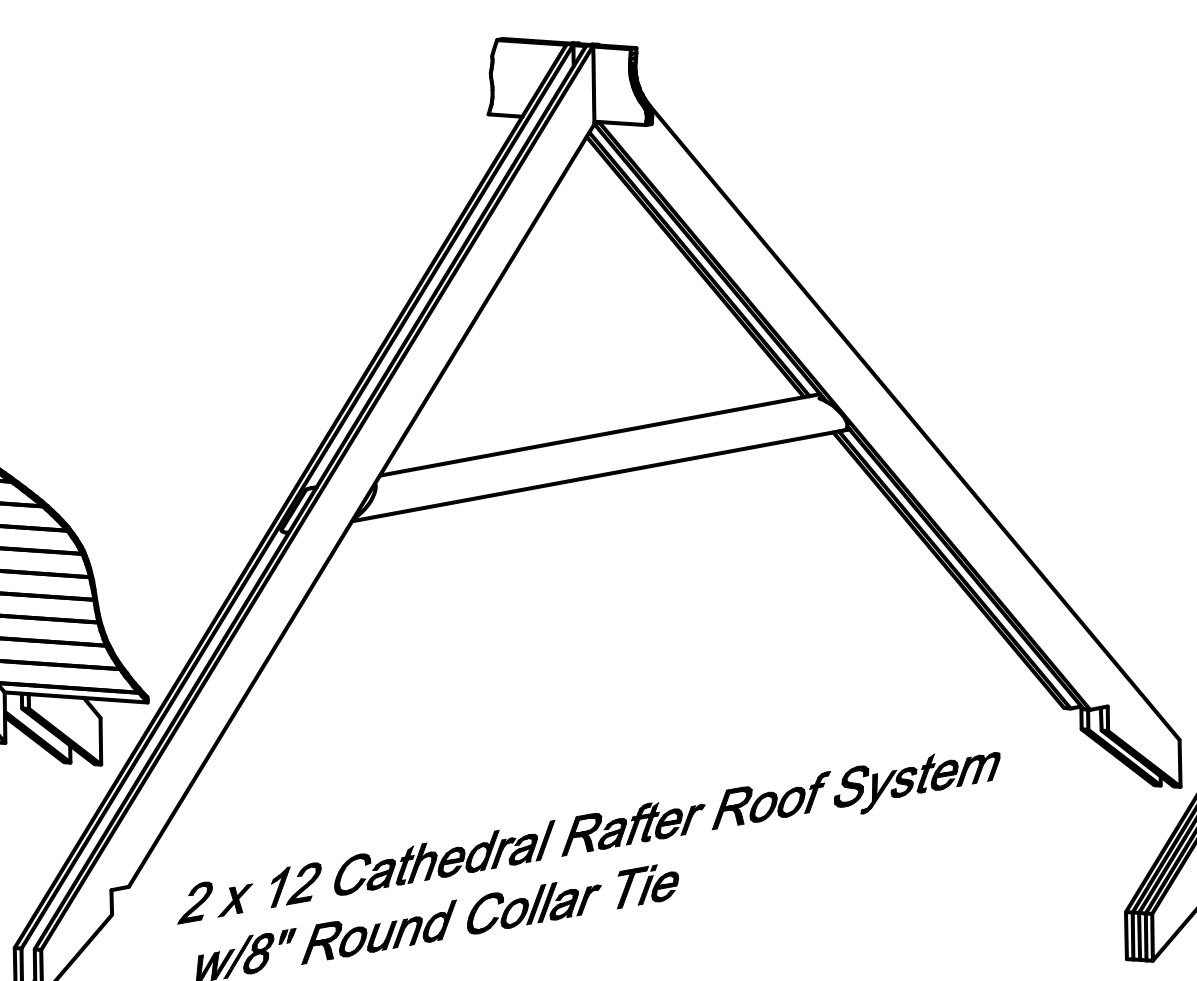
- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH STRUCTURAL COLLAR TIES SPACED 4'-0" O.C. COLLAR TIES ARE PLACED BETWEEN (2) RAFTERS AND THROUGH-BOLTED. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.



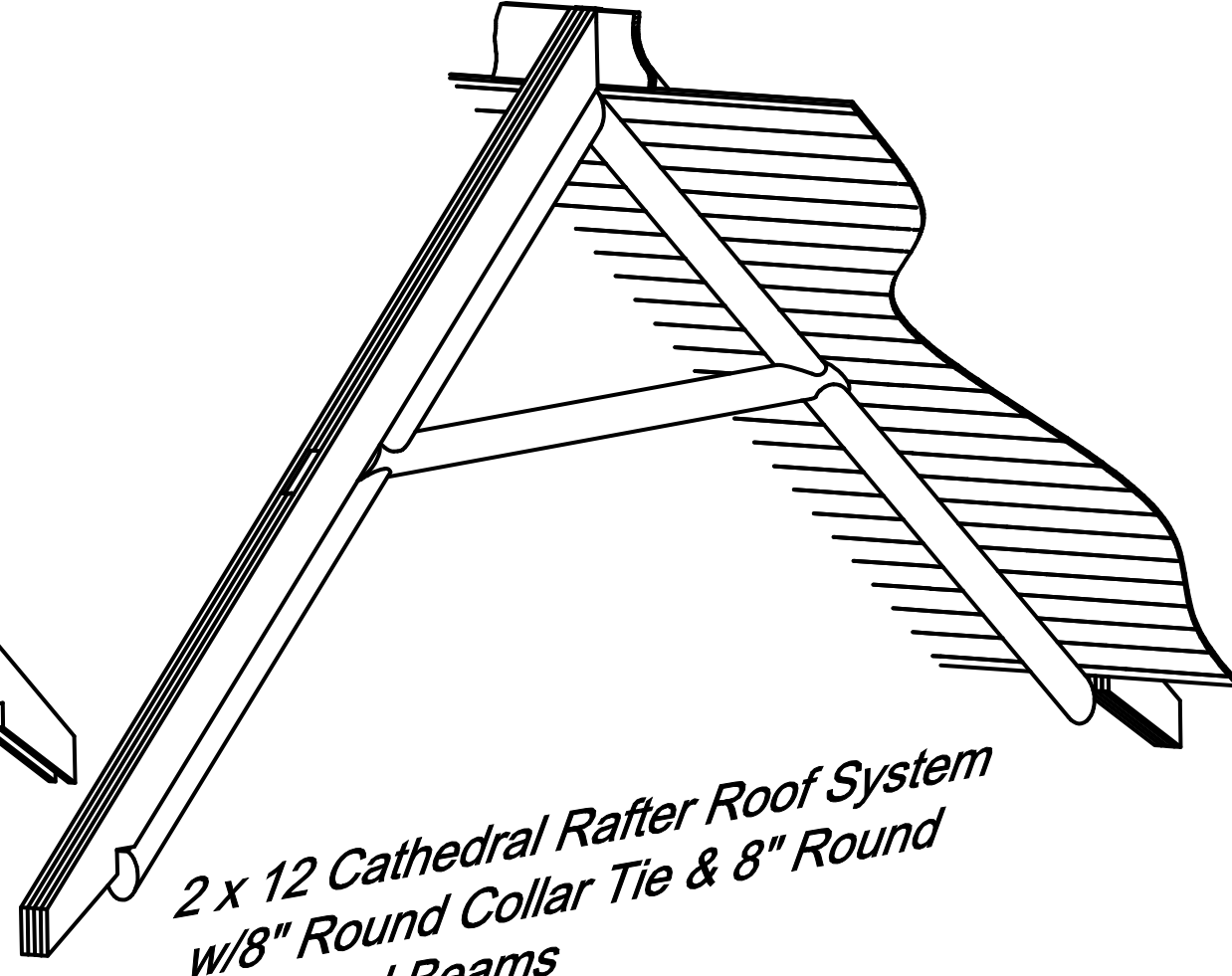
2 x 12 Cathedral Rafter Roof System  
w/6x8 Collar Tie



2 x 12 Cathedral Rafter Roof System  
w/6x8 Collar Tie & 6x8 Exposed  
Beams



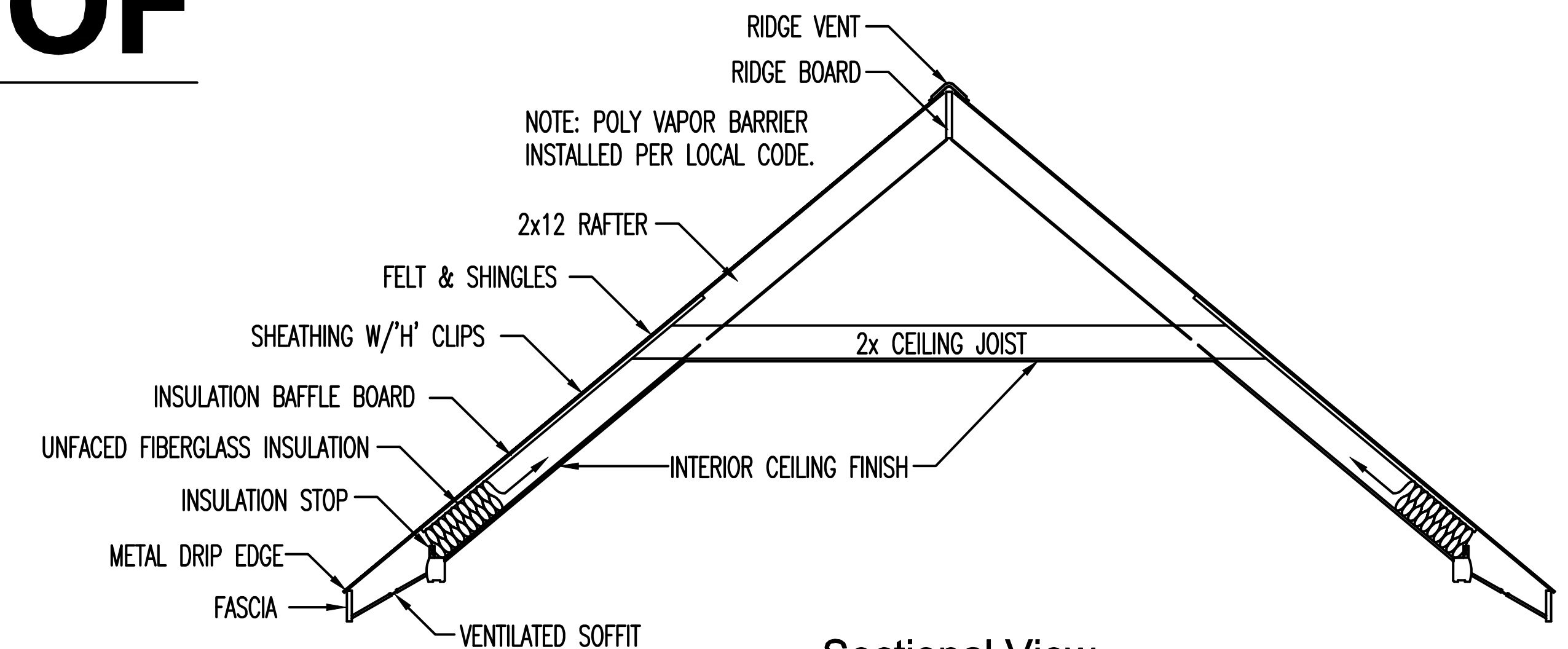
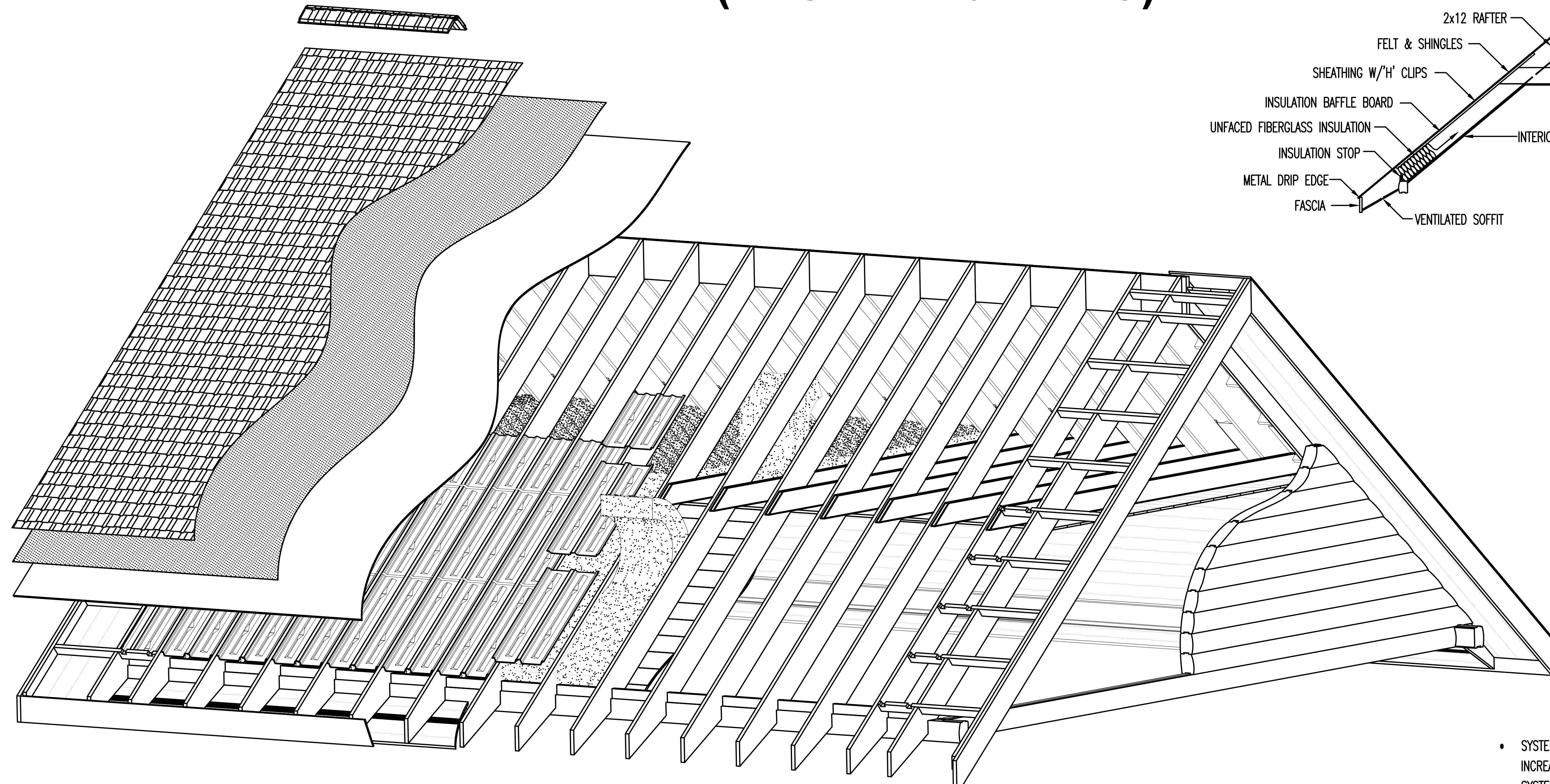
2 x 12 Cathedral Rafter Roof System  
w/8" Round Collar Tie



2 x 12 Cathedral Rafter Roof System  
w/8" Round Collar Tie & 8" Round  
Exposed Beams

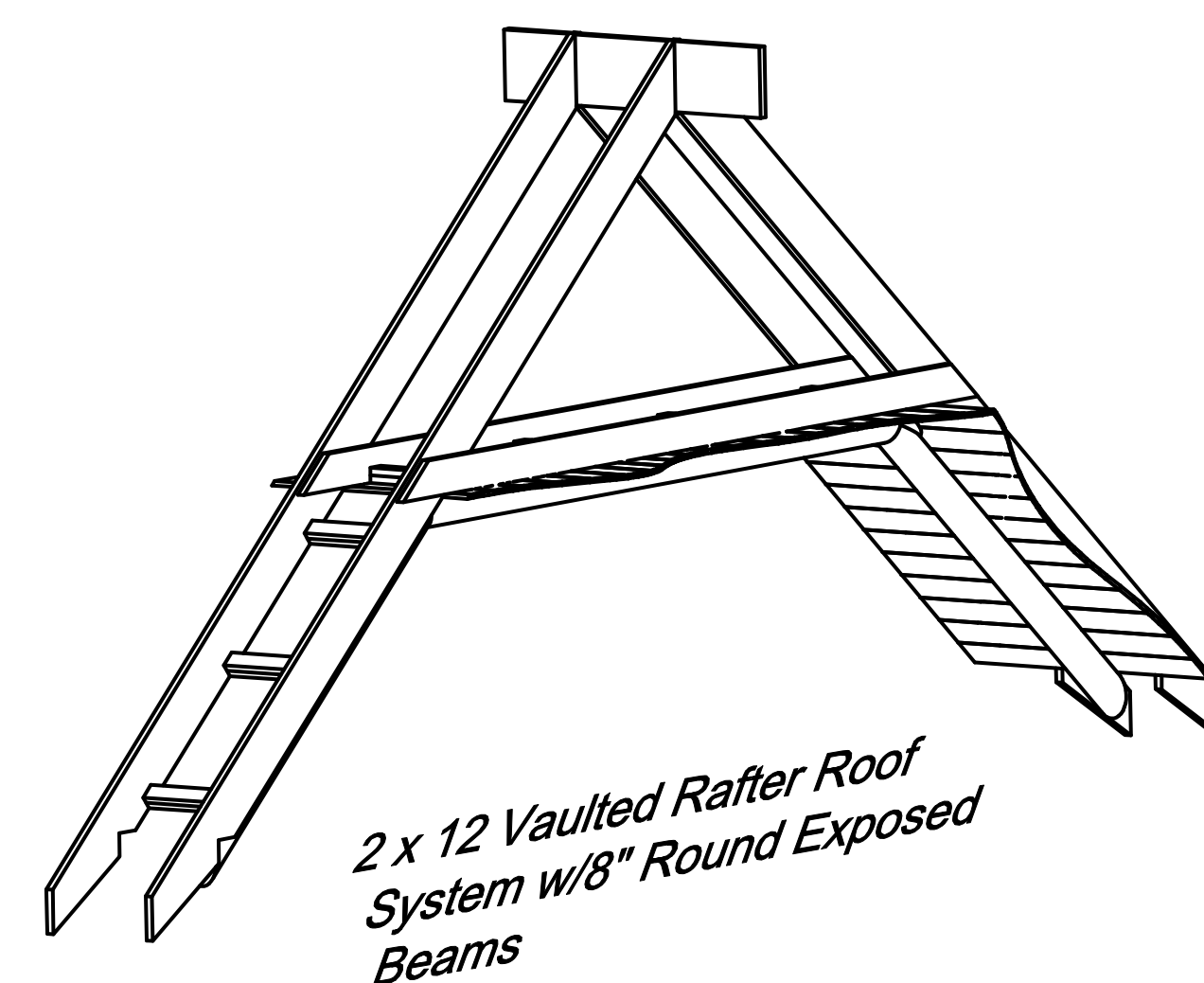
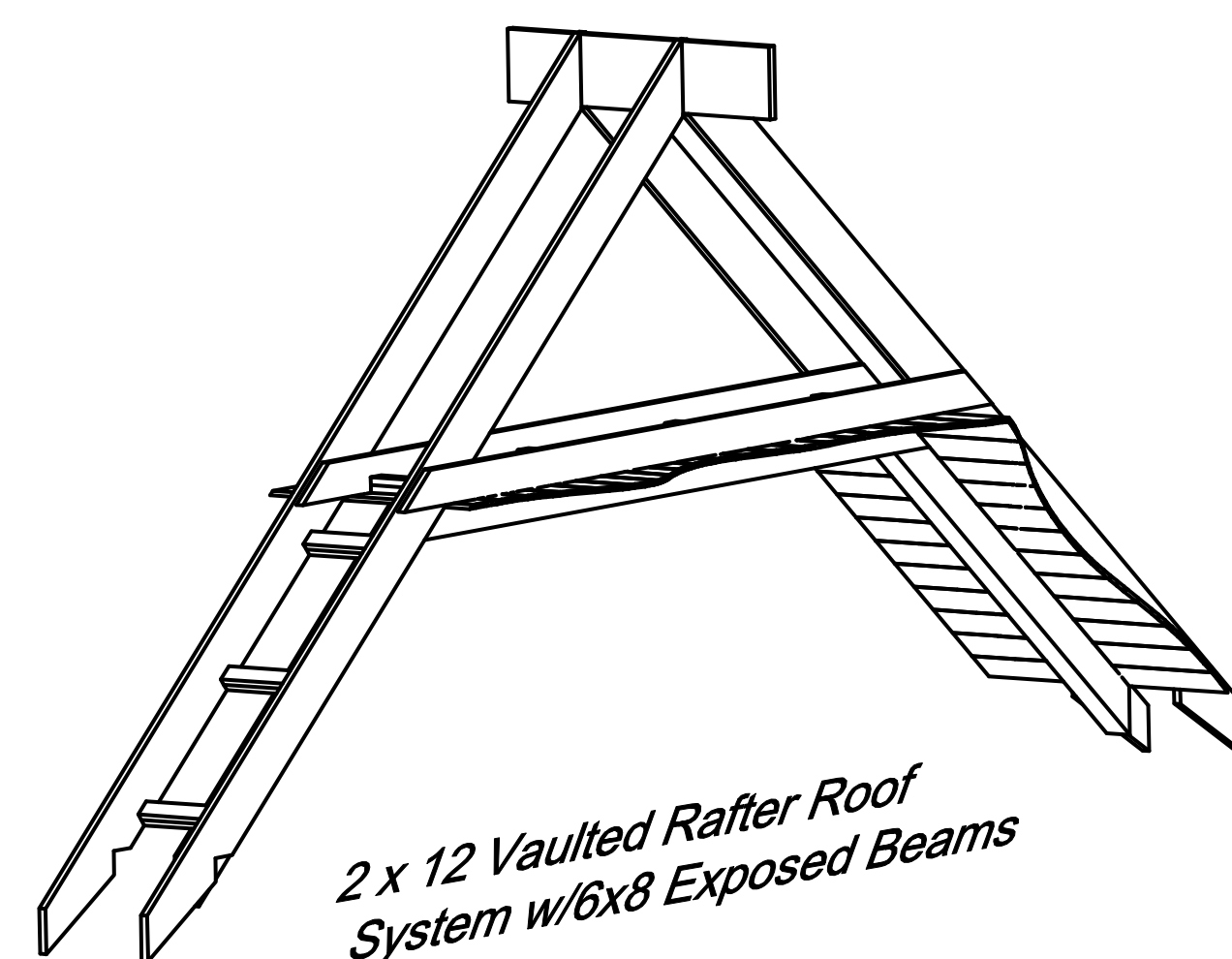


# 2 x 12 RAFTER ROOF (VAULTED CEILING)



## DESIGN SPECIFICATIONS

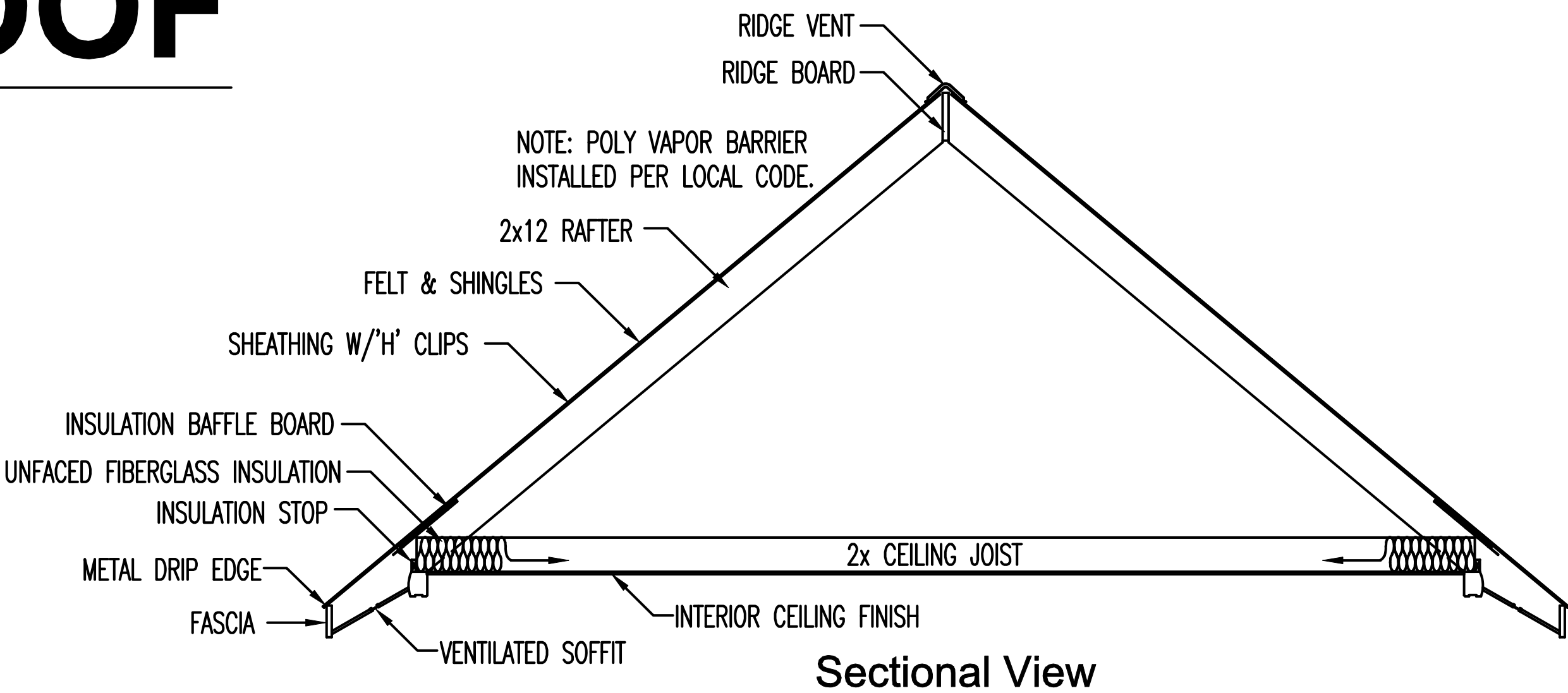
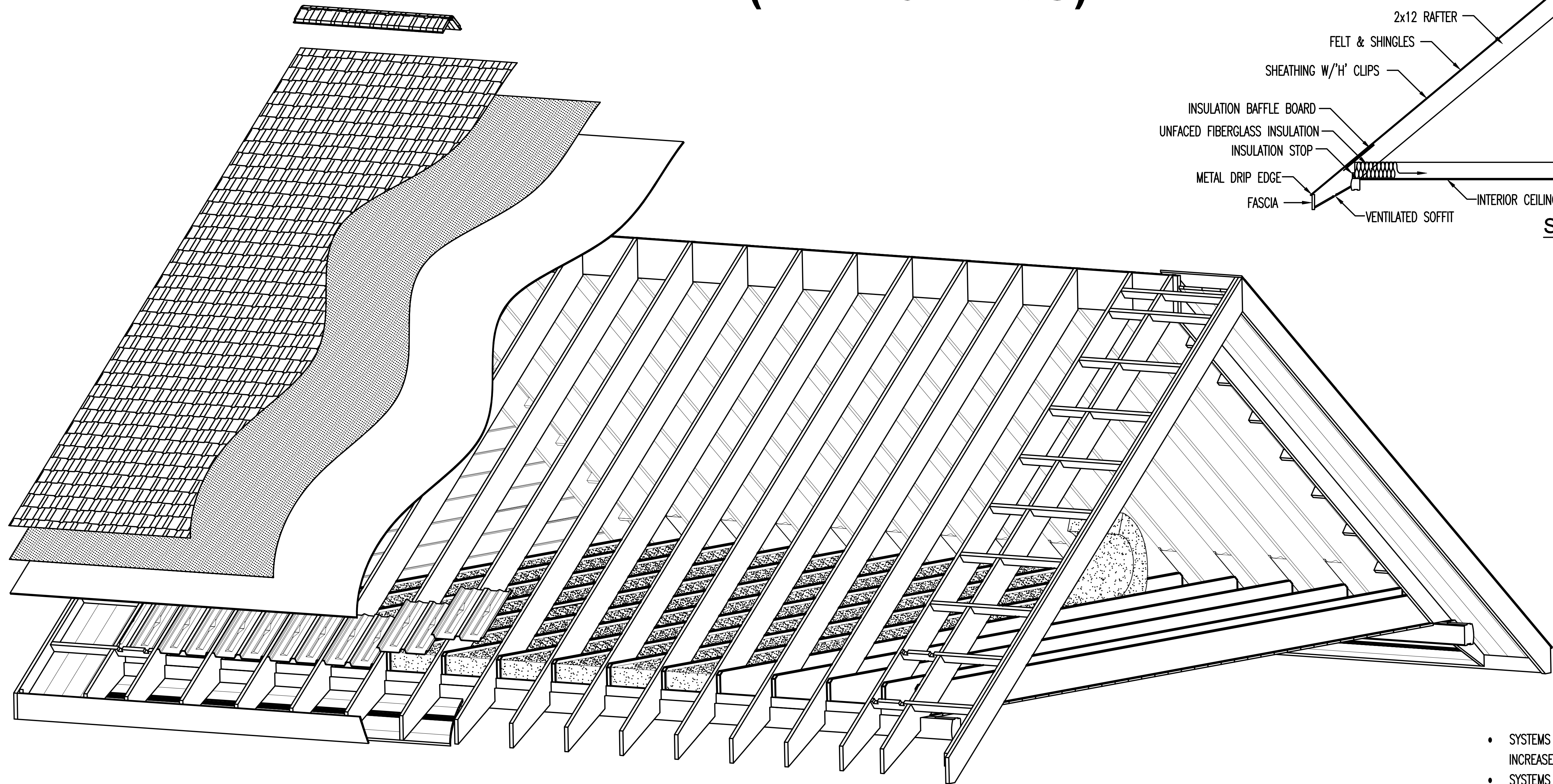
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- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH CEILING JOIST SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.





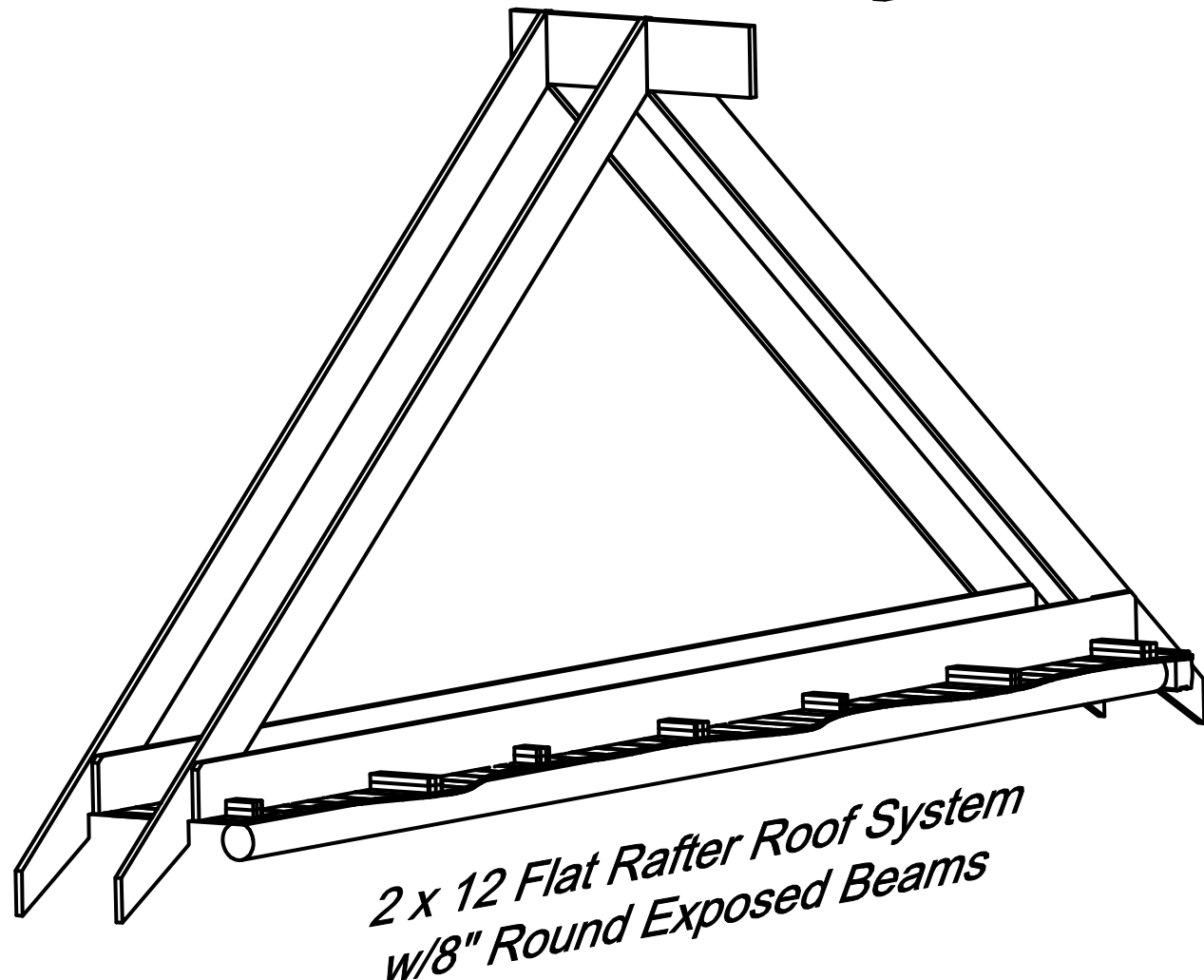
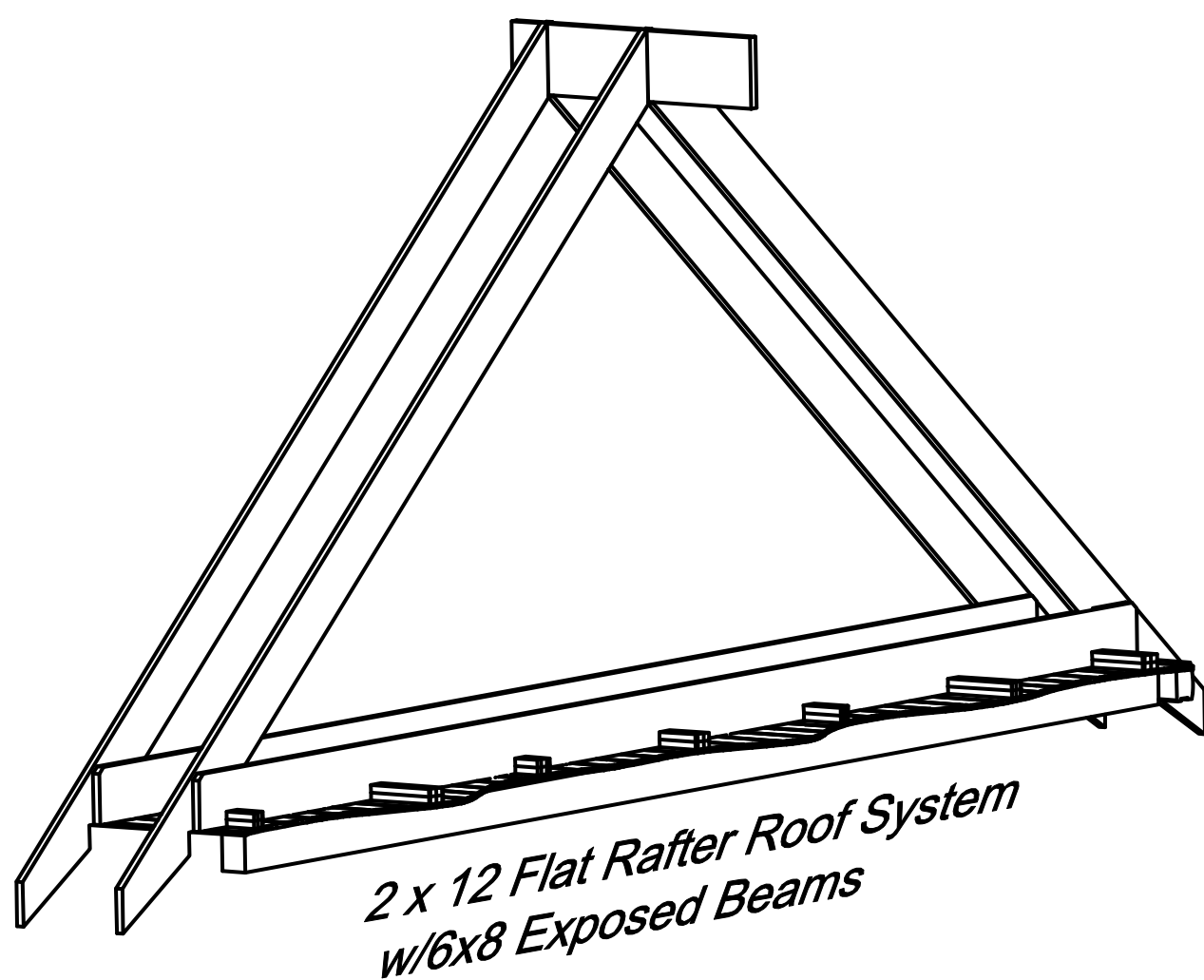
# 2 x 12 RAFTER ROOF

## (FLAT CEILING)



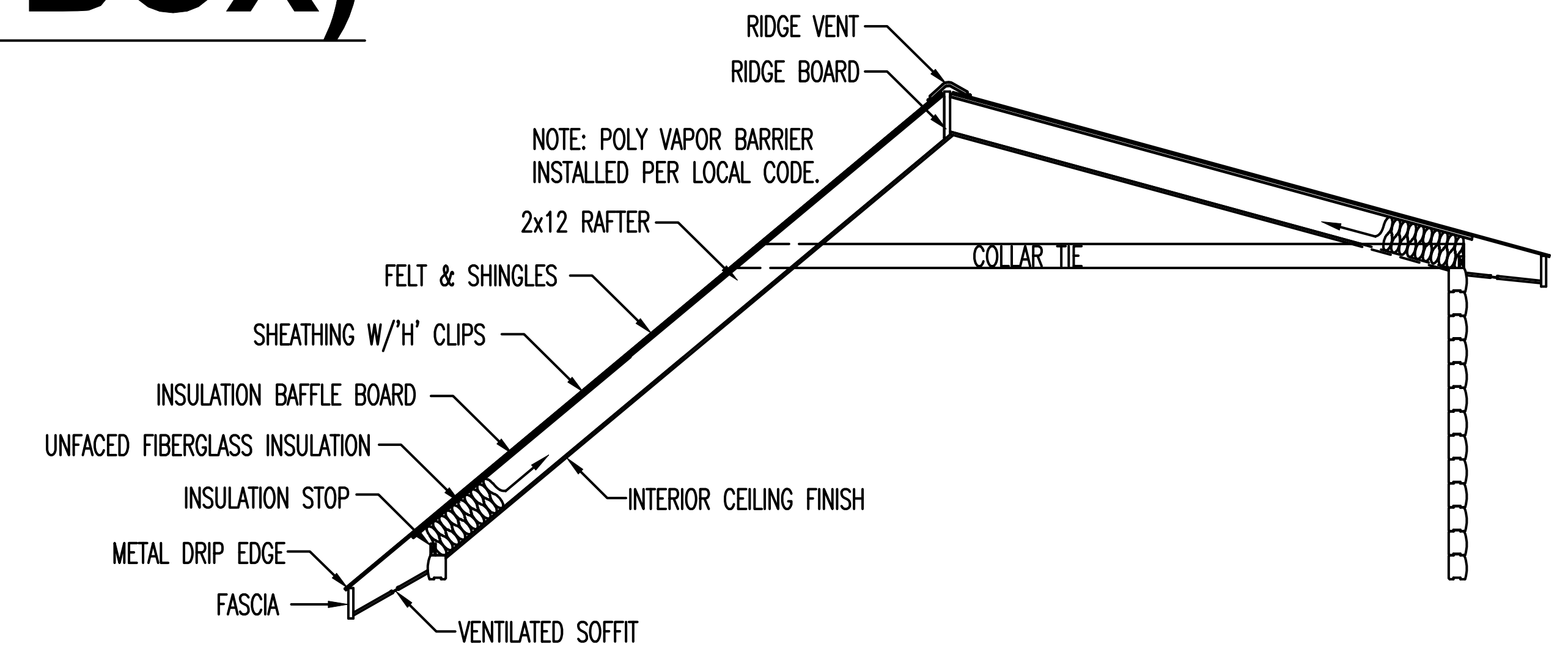
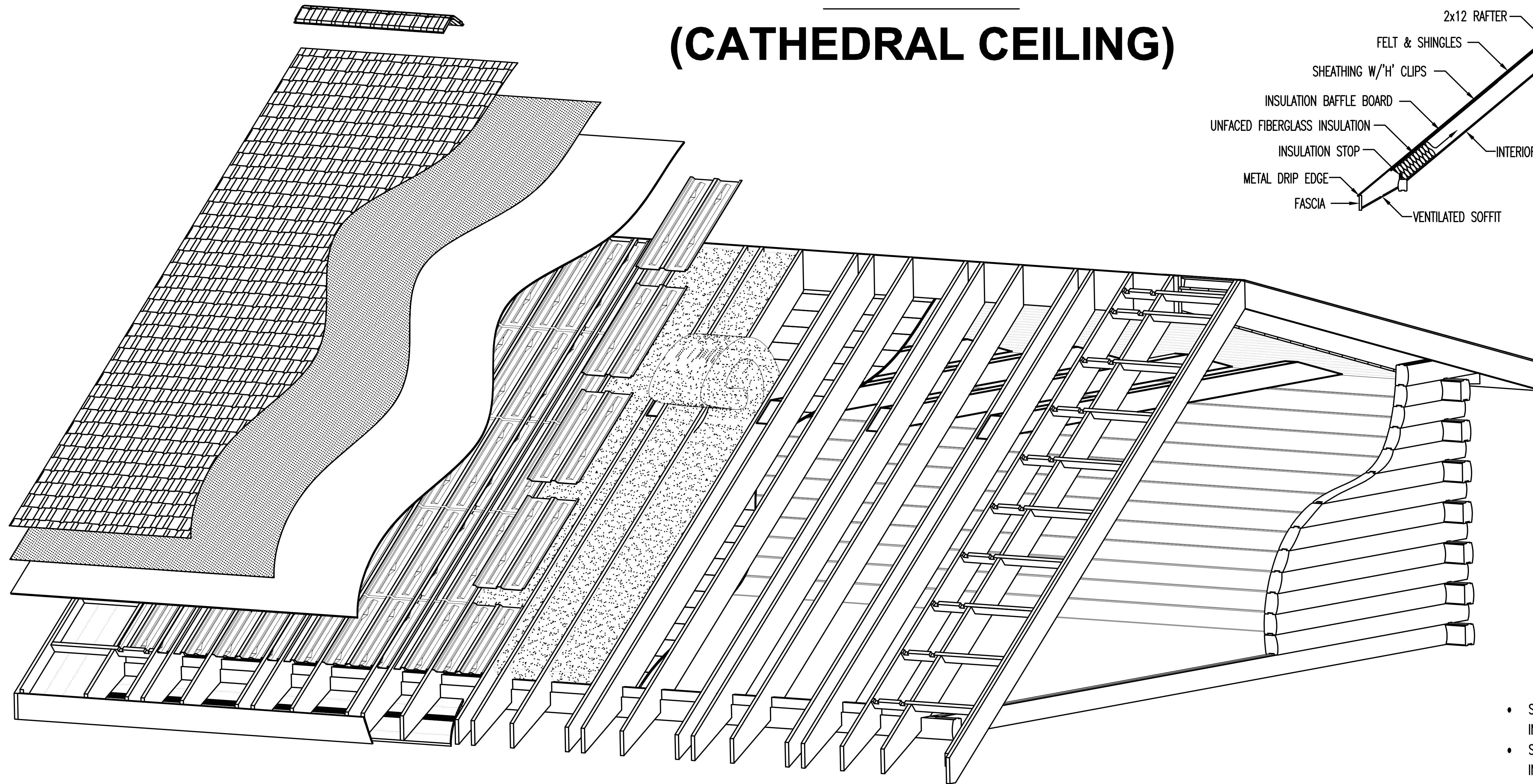
### DESIGN SPECIFICATIONS

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- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH CEILING JOIST SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.





# 2 x 12 RAFTER (SALTBOX) ROOF (CATHEDRAL CEILING)



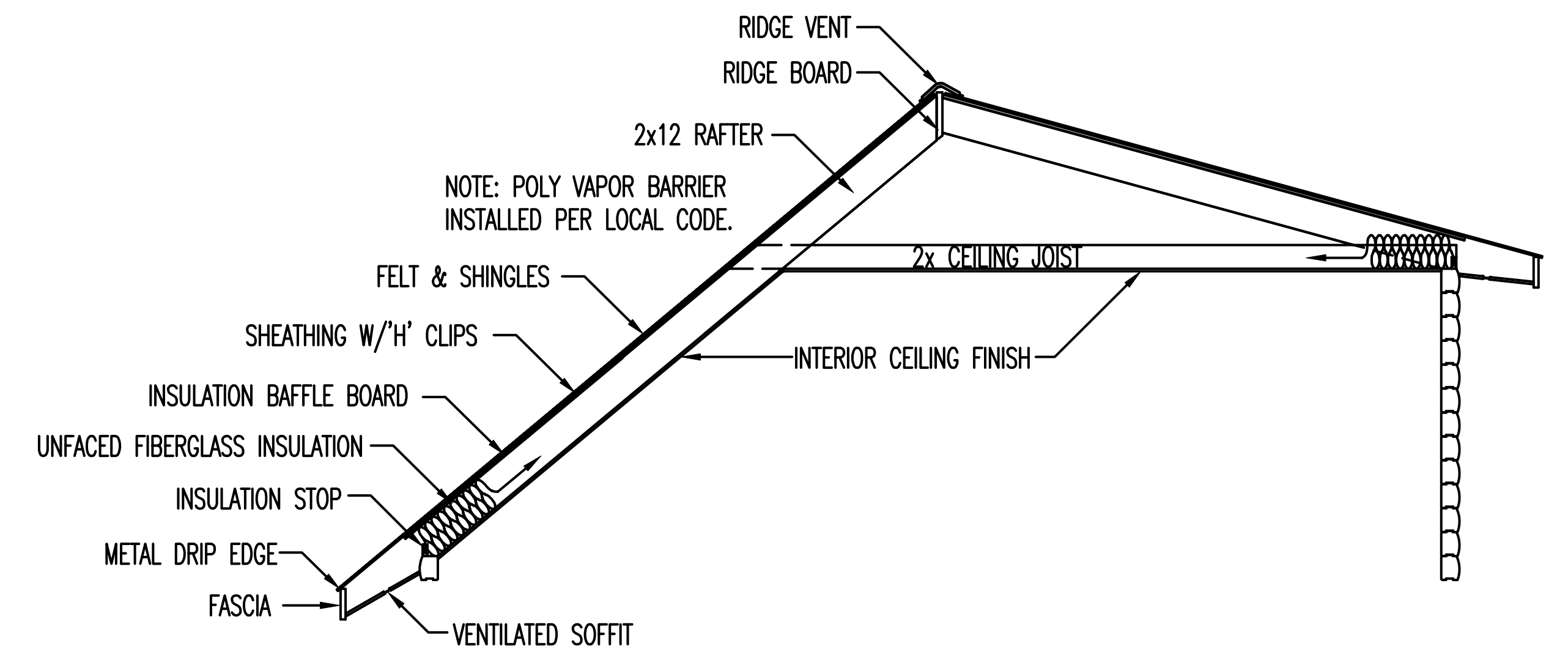
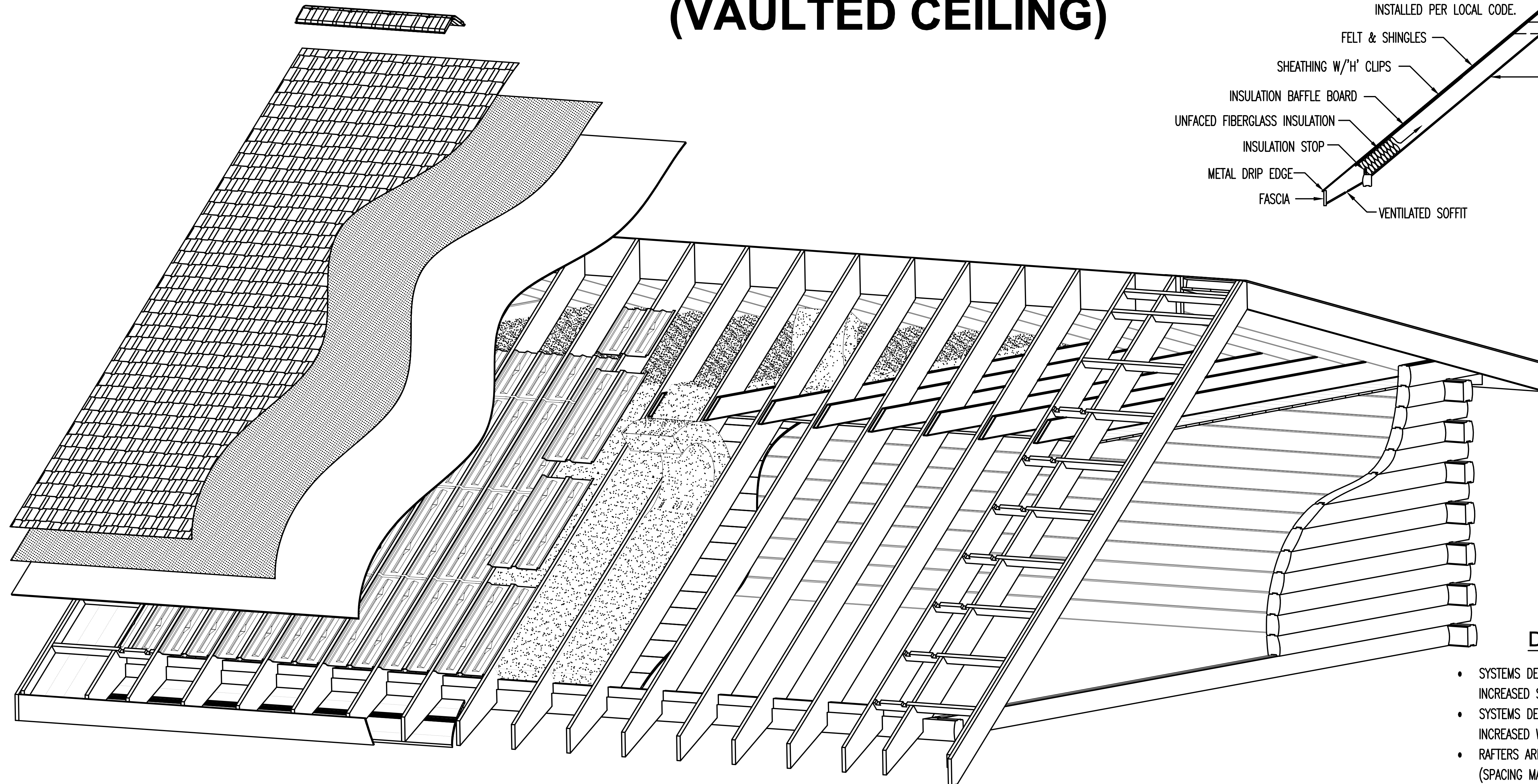
Sectional View

## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH STRUCTURAL COLLAR TIES SPACED 4'-0" O.C. COLLAR TIES ARE PLACED BETWEEN (2) RAFTERS AND THROUGH-BOLTED. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.



# 2 x 12 RAFTER (SALTBOX) ROOF (VAULTED CEILING)

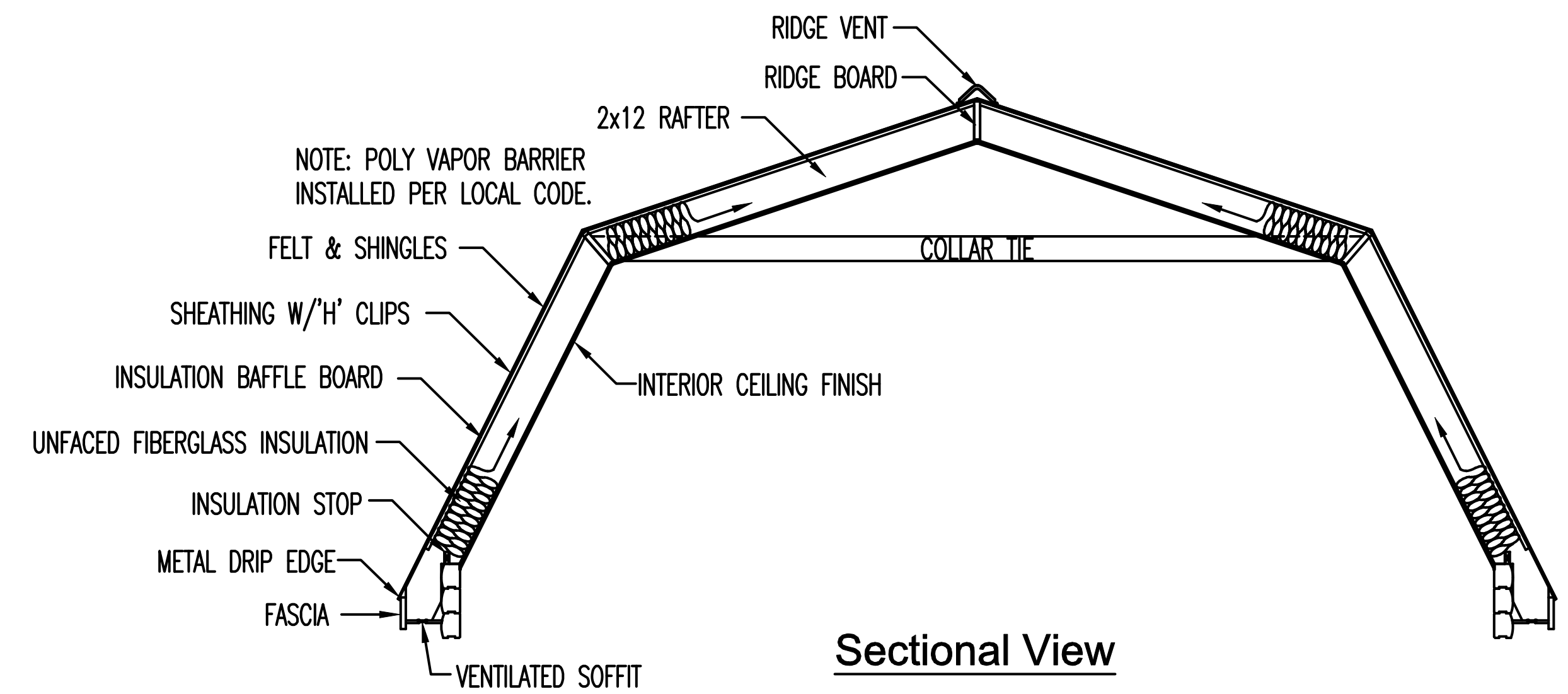
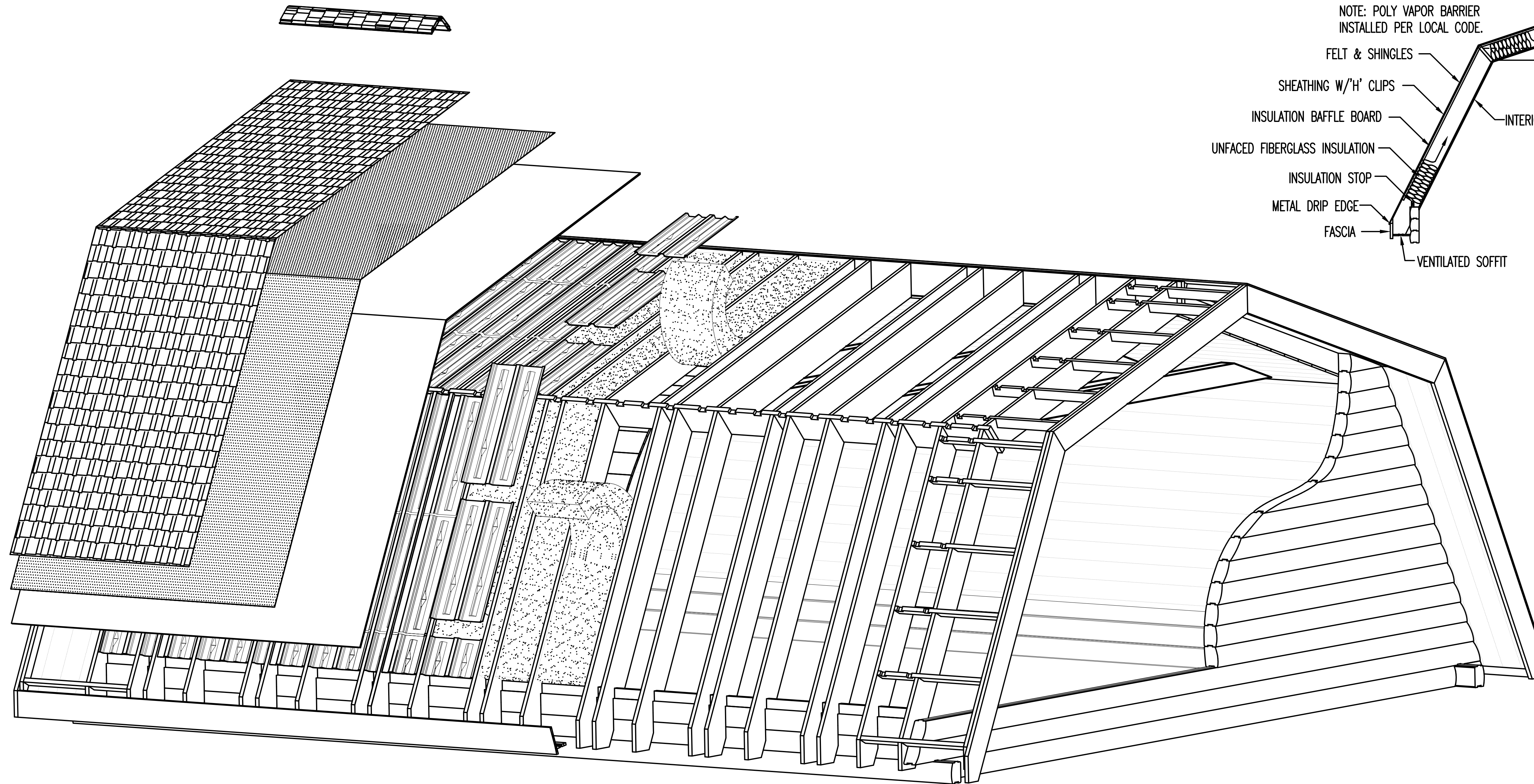


Sectional View

## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH CEILING JOIST SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO **NOT** INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.

# 2 x 12 RAFTER (GAMBREL) ROOF (CATHEDRAL CEILING)



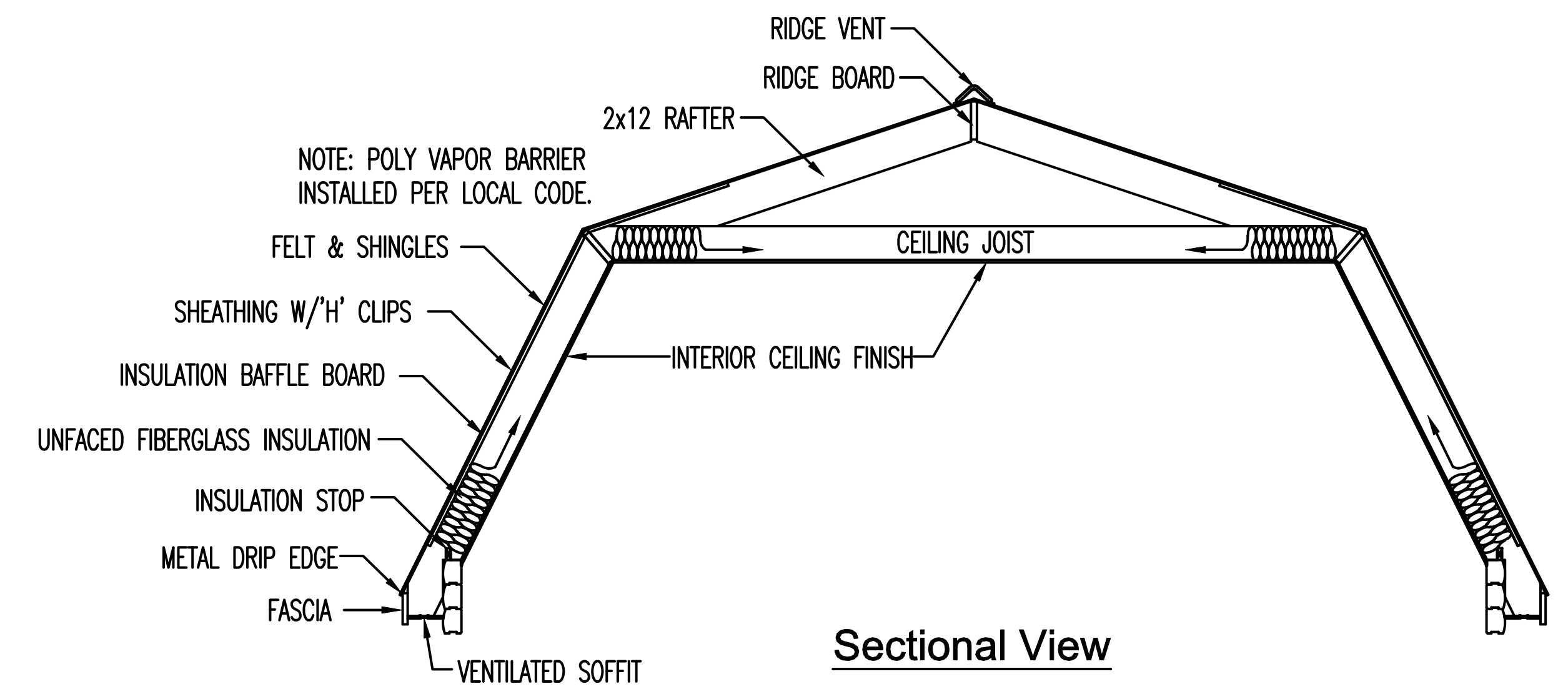
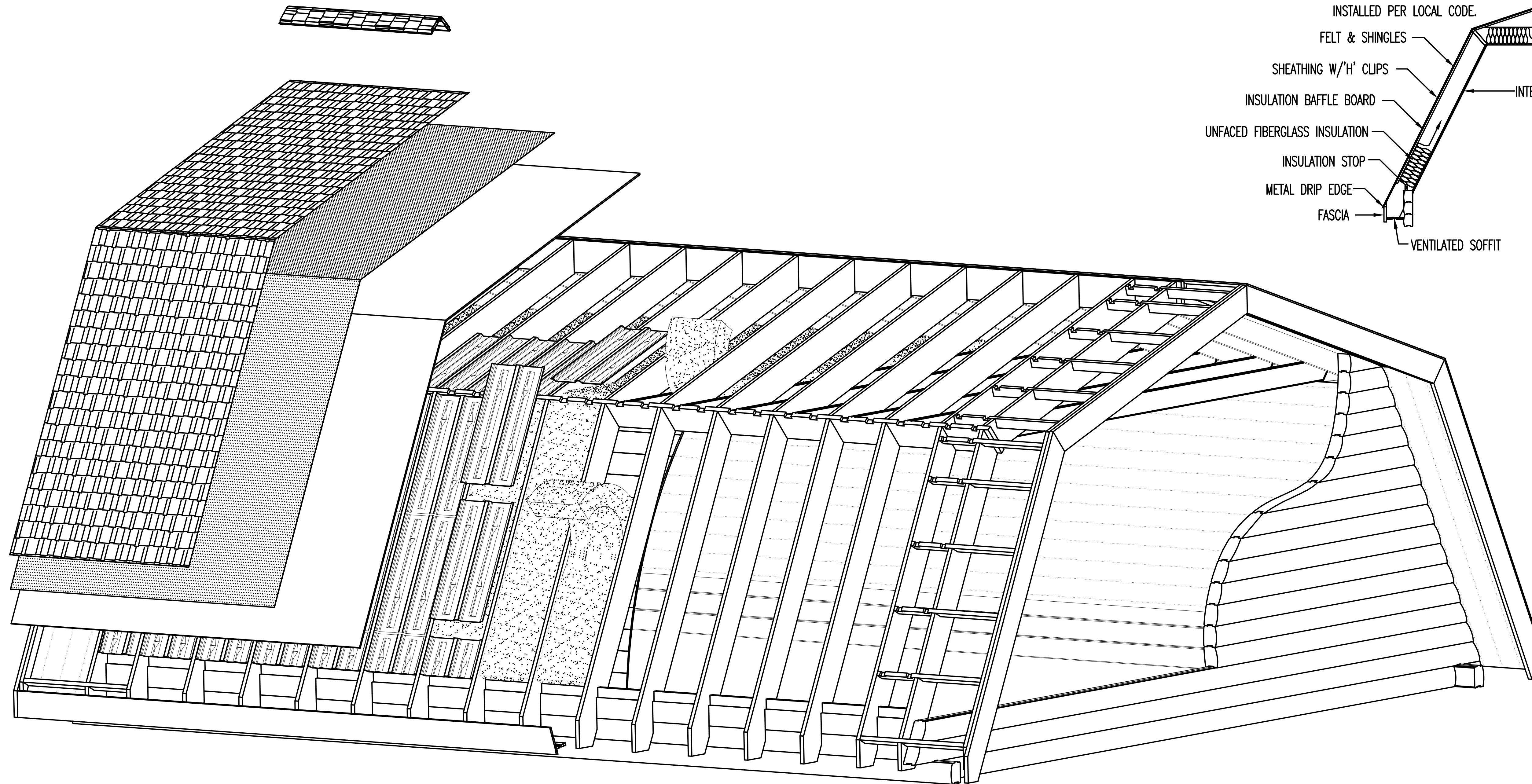
**Sectional View**

## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 16" O.C. WITH STRUCTURAL COLLAR TIES SPACED 4'-0" O.C. COLLAR TIES ARE PLACED BETWEEN (2) RAFTERS AND THROUGH-BOLTED. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO **NOT** INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.



# 2 x 12 RAFTER (GAMBREL) ROOF (VAULTED CEILING)



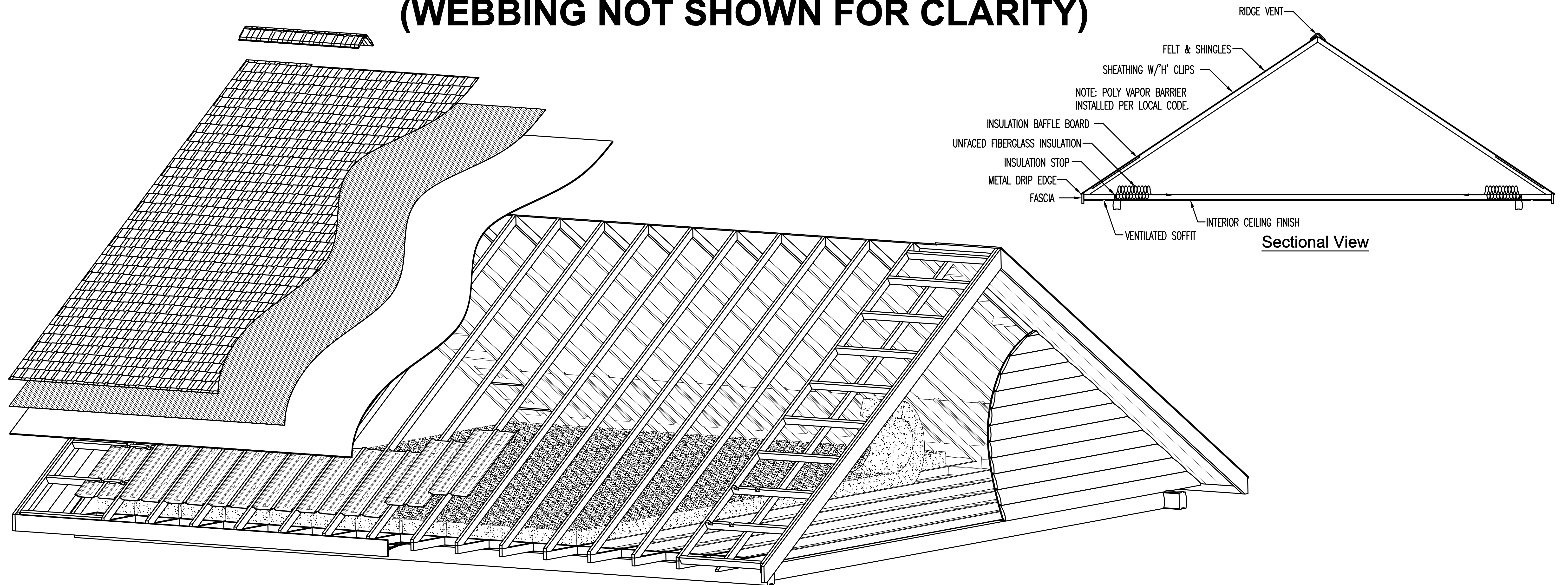
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- ROOF PITCHES VARY PENDING DESIGN.
- RIDGE BOARDS VARY PENDING DESIGN (DESIGNS WITH WIDTH OF 28'-0" OR GREATER MAY REQUIRE A GLU-LAM RIDGE BEAM).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- STANDARD 2 x 12 RAFTER ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST).
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.



# PRE-FAB FLAT TRUSS

(WEBBING NOT SHOWN FOR CLARITY)

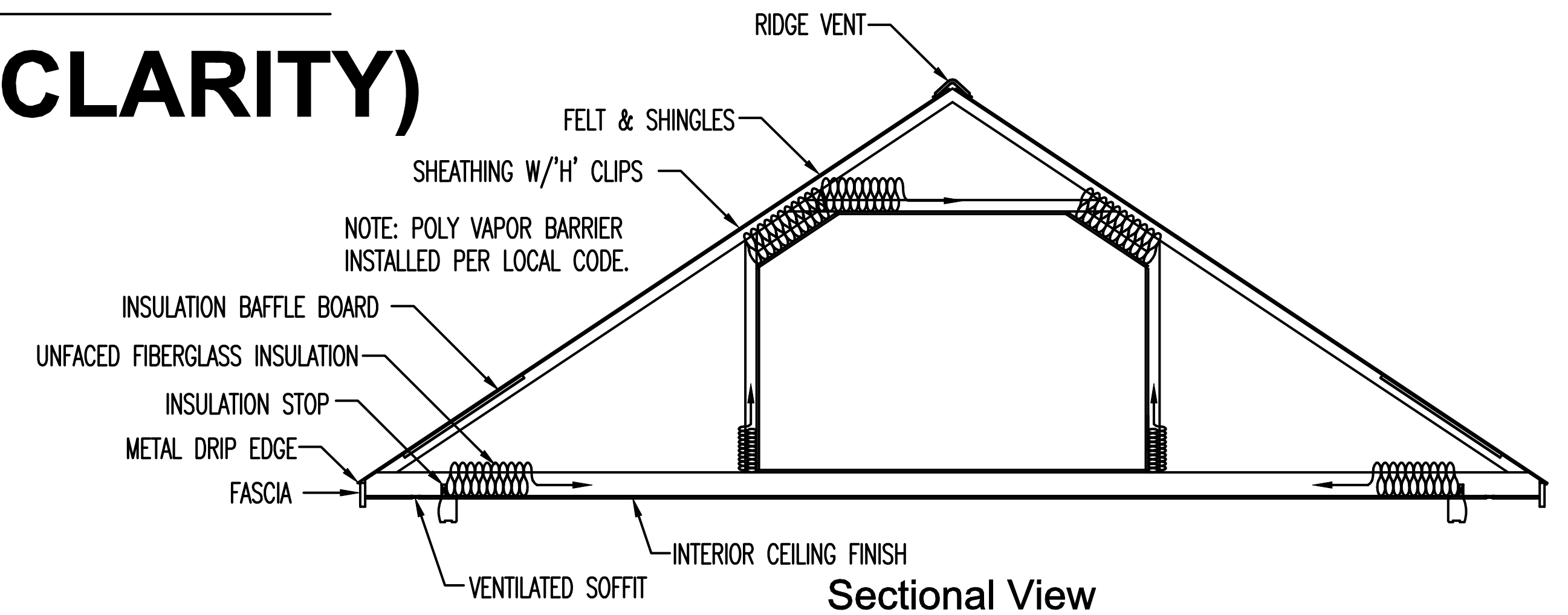
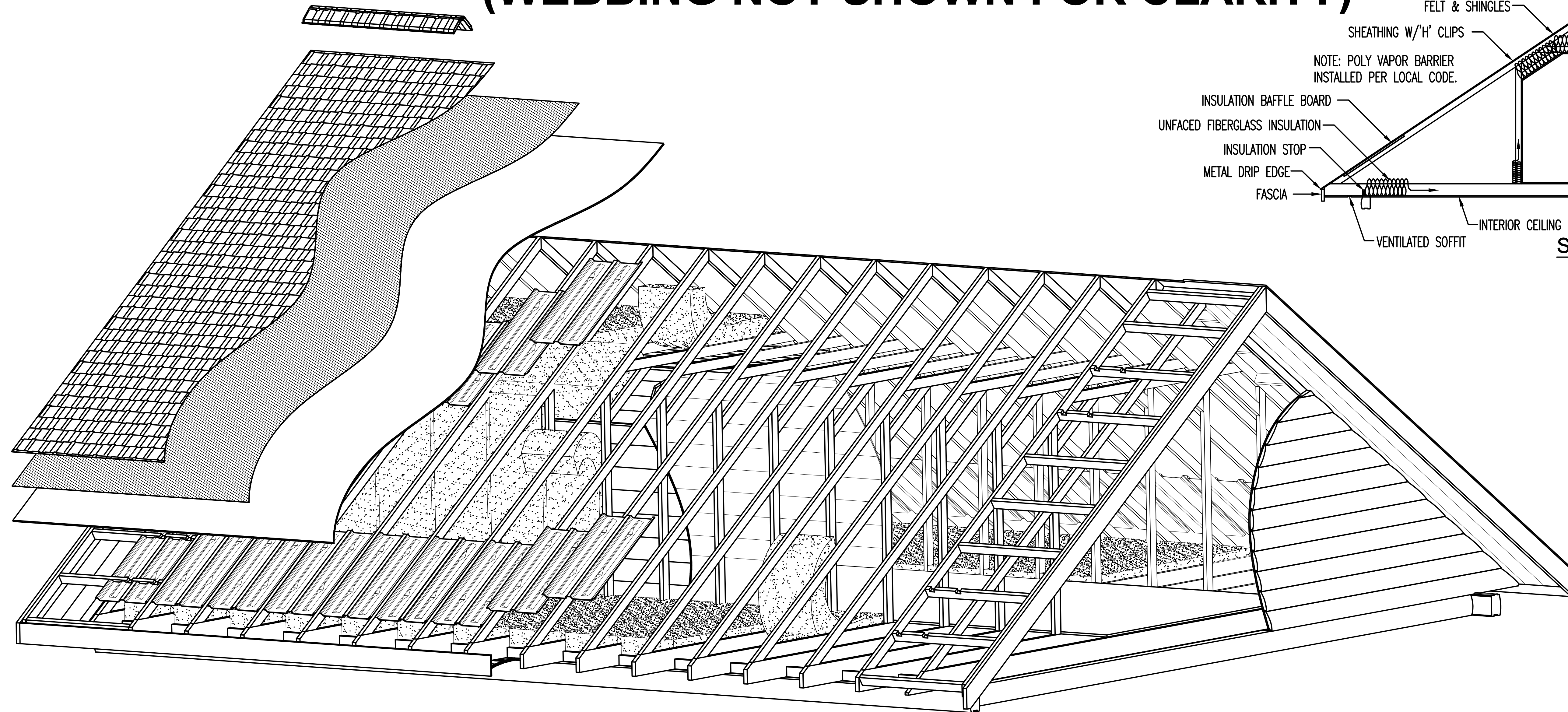


## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- TRUSSES ARE TYPICALLY SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- INSULATION VALUE = R-38.
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE TRUSSES.
- STANDARD TRUSS ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST)
- AREAS WITH A TRUSS ROOF SYSTEM ARE TYPICALLY 14 COURSES TO SQUARE.
- TYPICALLY HAVE A SIDED GABLE.
- FLAT TRUSSES ARE NOT DESIGNED FOR USE AS STORAGE.

# PRE-FAB ATTIC TRUSS

## (WEBBING NOT SHOWN FOR CLARITY)



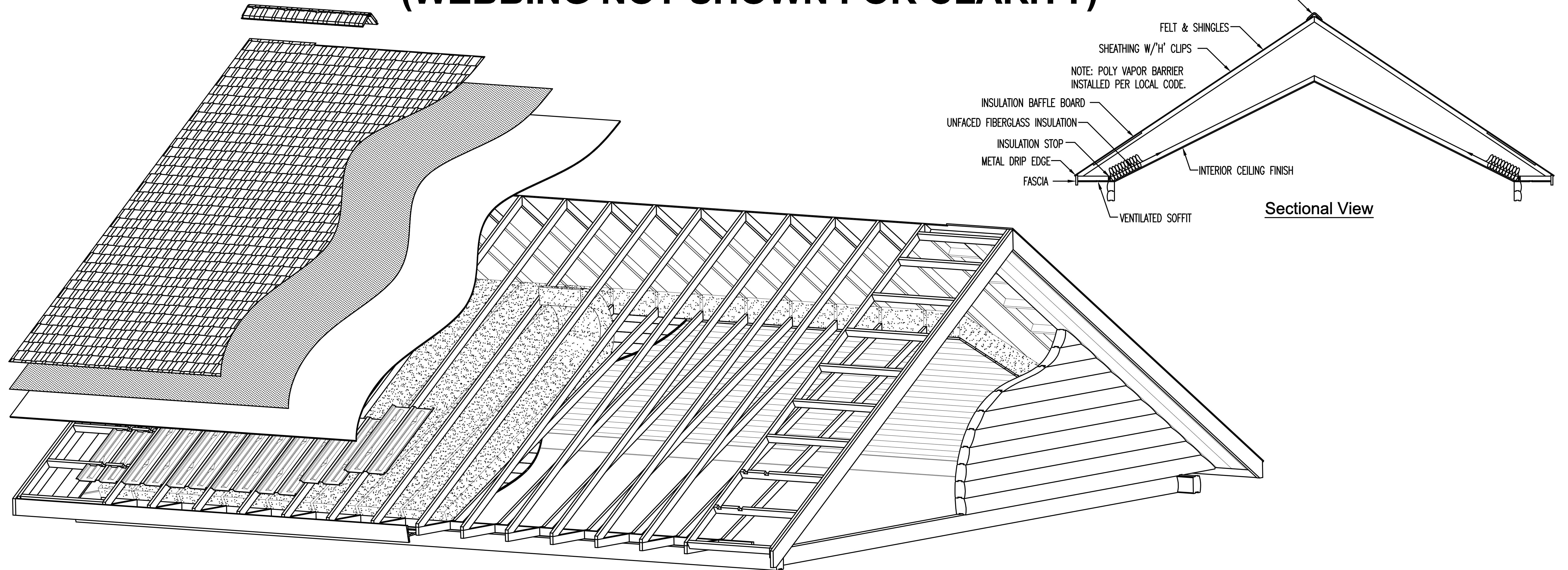
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- TRUSSES ARE TYPICALLY SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- INSULATION VALUE = R-38.
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE TRUSSES.
- STANDARD TRUSS ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST)
- AREAS WITH A TRUSS ROOF SYSTEM ARE TYPICALLY 14 COURSES TO SQUARE.
- TYPICALLY HAVE A SIDED GABLE.



# PRE-FAB SCISSORS TRUSS

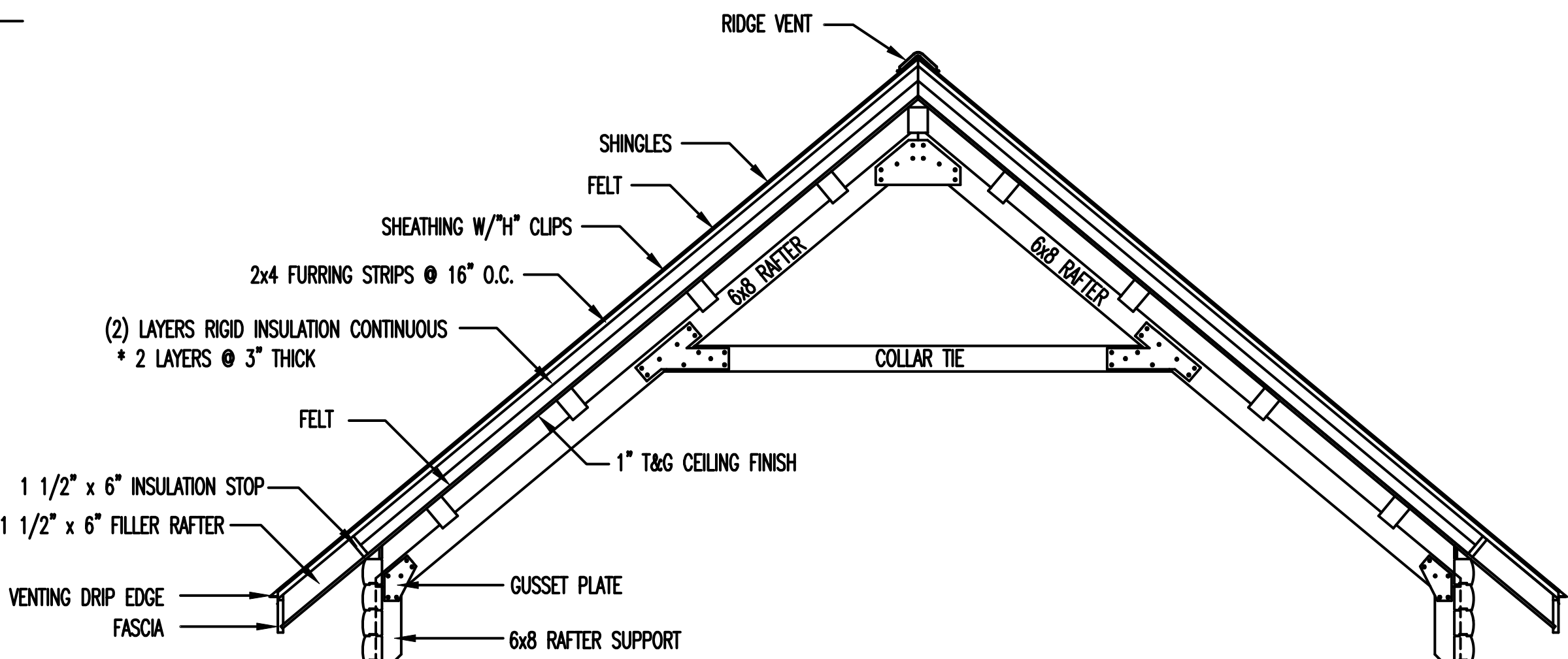
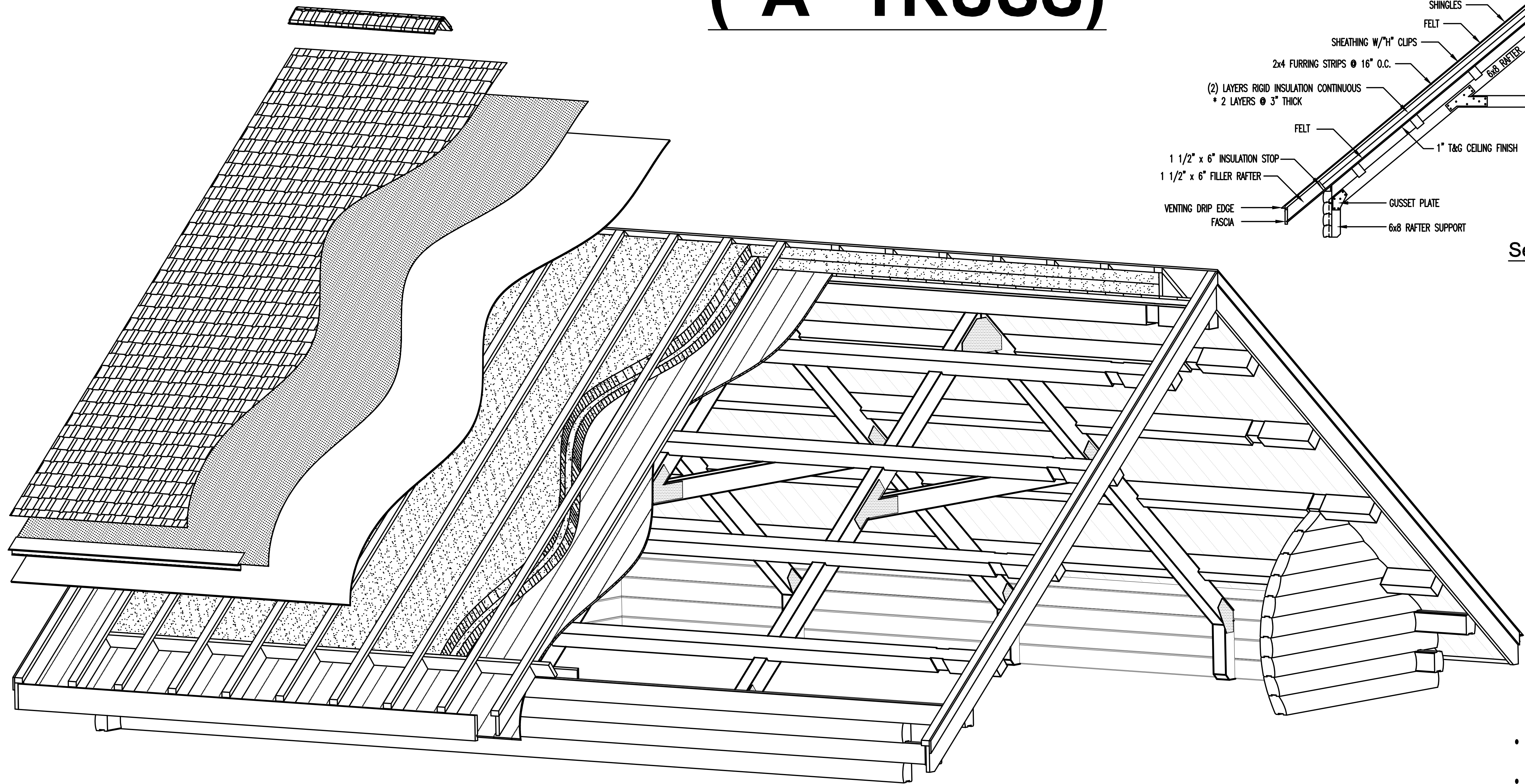
## (WEBBING NOT SHOWN FOR CLARITY)



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- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- TRUSSES ARE TYPICALLY SPACED 16" O.C. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- ROOF PITCHES VARY PENDING DESIGN.
- INSULATION VALUE = R-38.
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE TRUSSES.
- STANDARD TRUSS ROOF SYSTEMS DO NOT INCLUDE EXPOSED BEAMS (AVAILABLE UPON REQUEST)
- AREAS WITH A TRUSS ROOF SYSTEM ARE TYPICALLY 14 COURSES TO SQUARE.
- TYPICALLY HAVE A SOLID LOG GABLE.

# BEAM & PURLIN ("A" TRUSS)



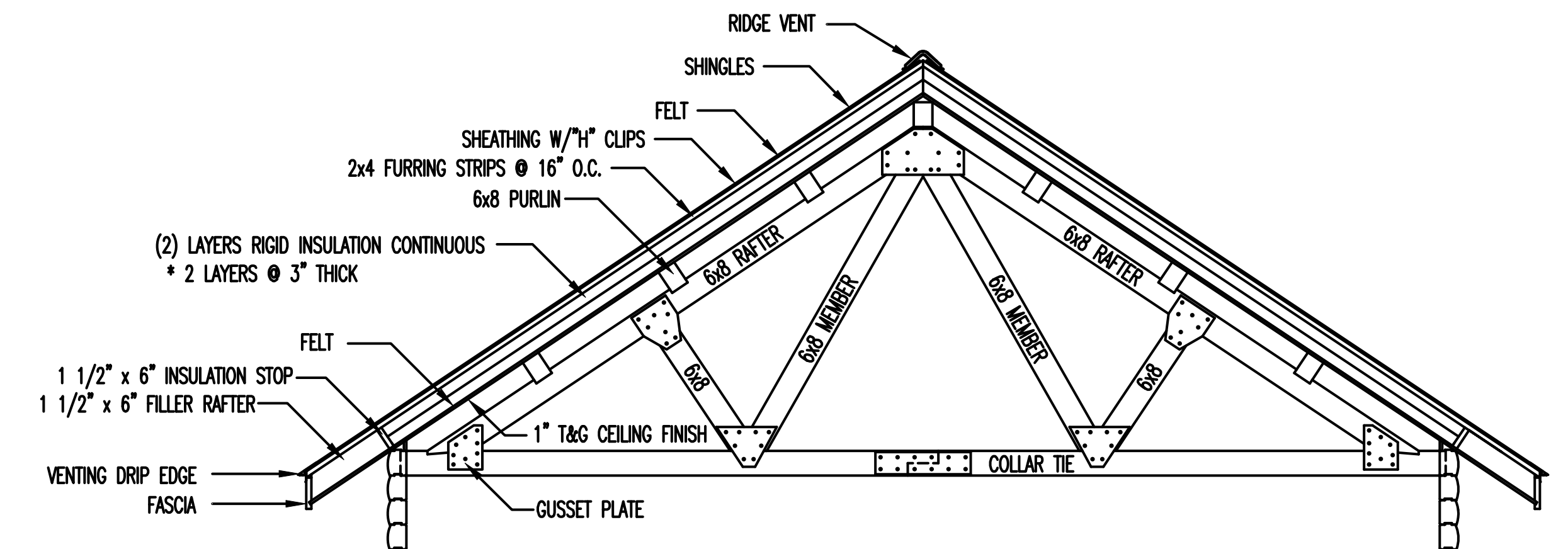
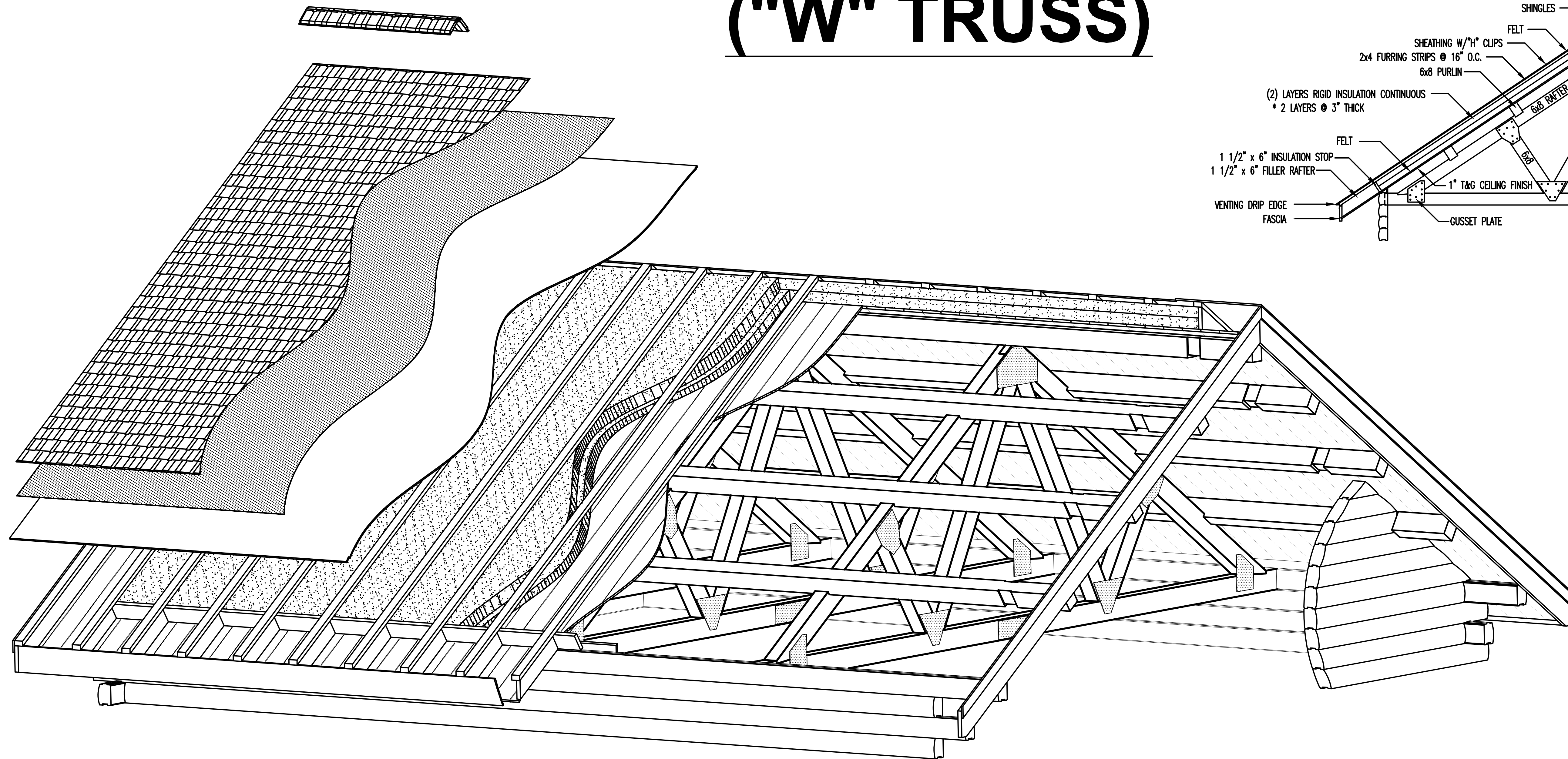
Sectional View

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- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 5'-0" TO 10'-0" APART WITH STRUCTURAL COLLAR TIE AT EACH ASSEMBLY. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- TRUSS ASSEMBLY DESIGNED FOR A ROOF PITCH GREATER THAN 8/12.
- TRUSS ASSEMBLY DESIGNED FOR HOMES LESS THAN 28'-0" WIDE.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE PURLINS.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 16 LOG/SIDING COURSES TO SQUARE.



# BEAM & PURLIN ("W" TRUSS)

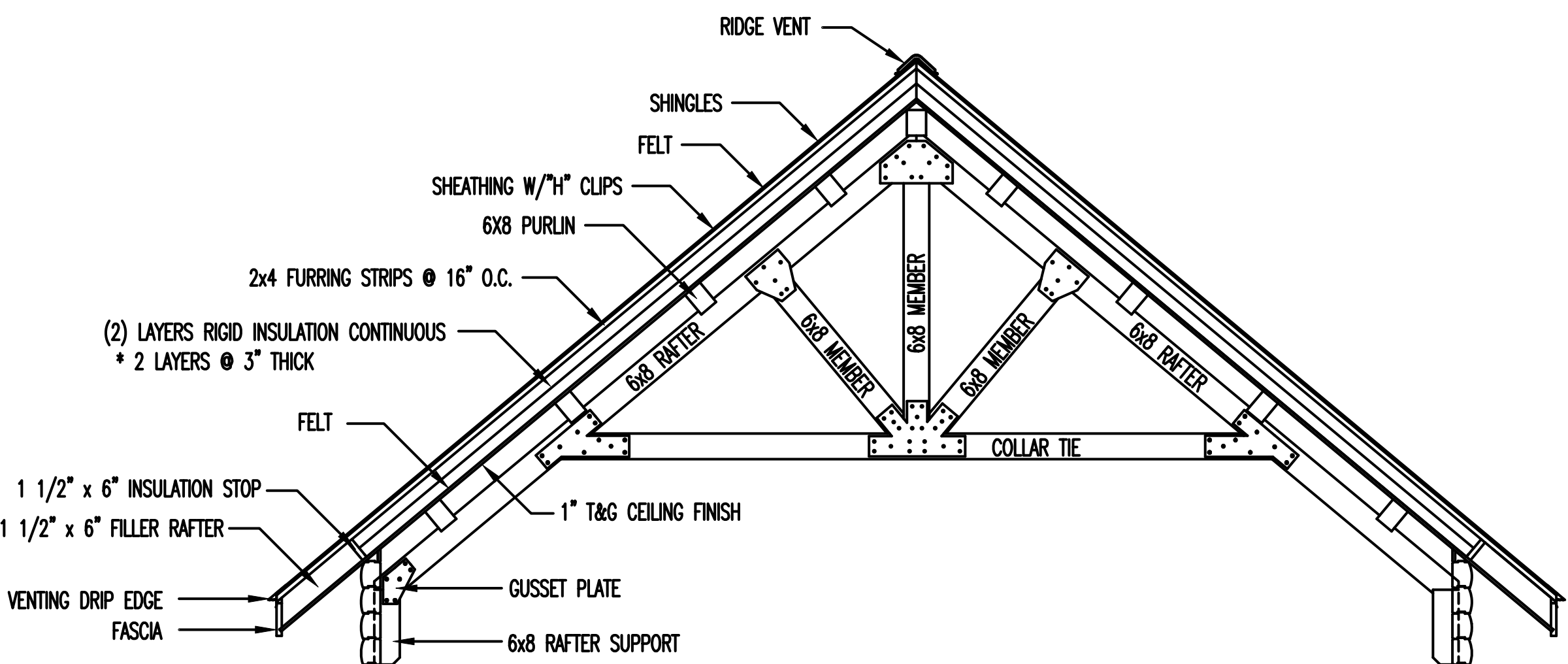
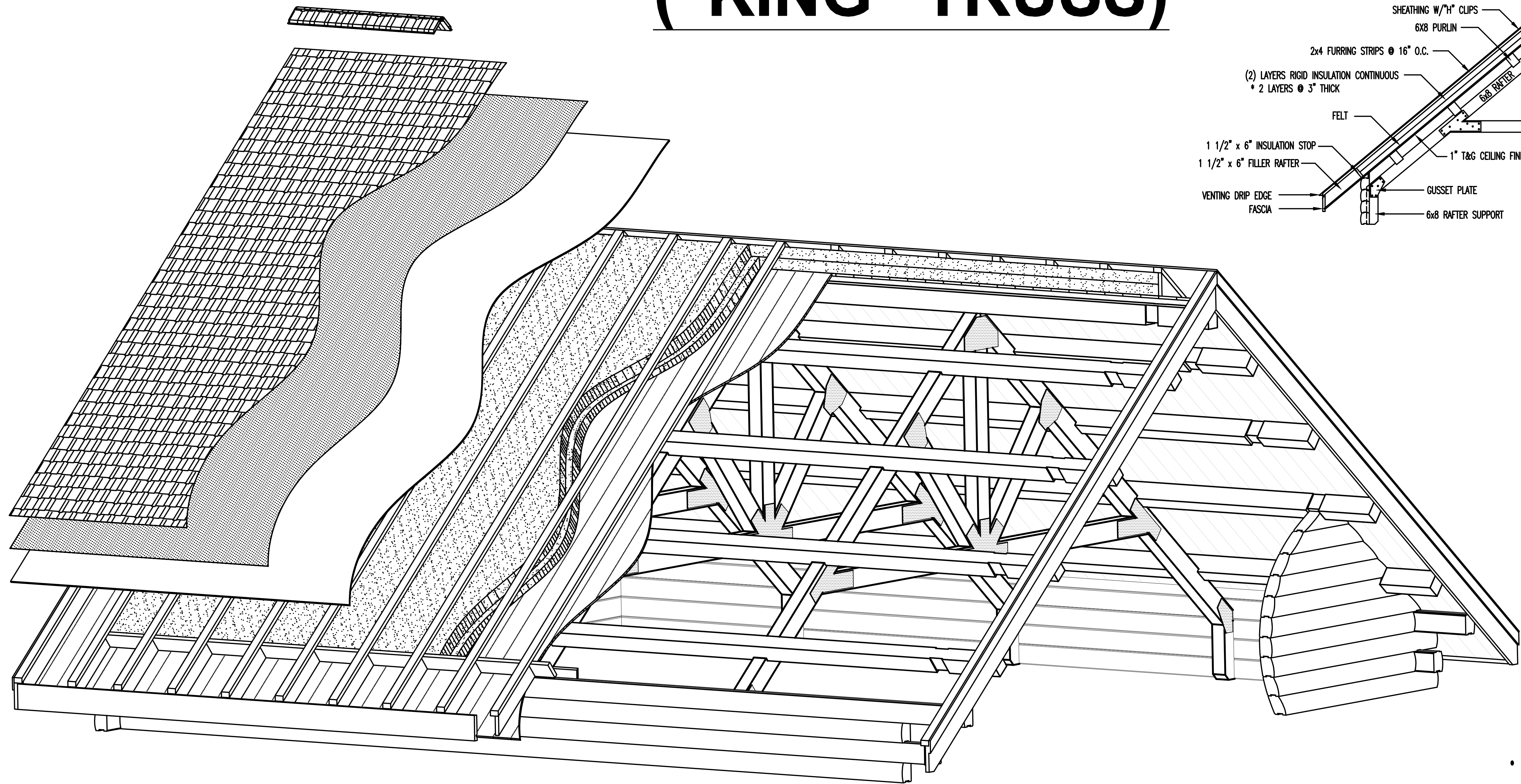


Sectional View

## DESIGN SPECIFICATIONS

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- RAFTERS ARE TYPICALLY SPACED 5'-0" TO 10'-0" APART WITH STRUCTURAL COLLAR TIE AT EACH ASSEMBLY. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- TRUSS ASSEMBLY DESIGNED FOR A ROOF PITCH LESS THAN 8/12.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE PURLINS.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 27 LOG/SIDING COURSES TO SQUARE.

# BEAM & PURLIN ("KING" TRUSS)



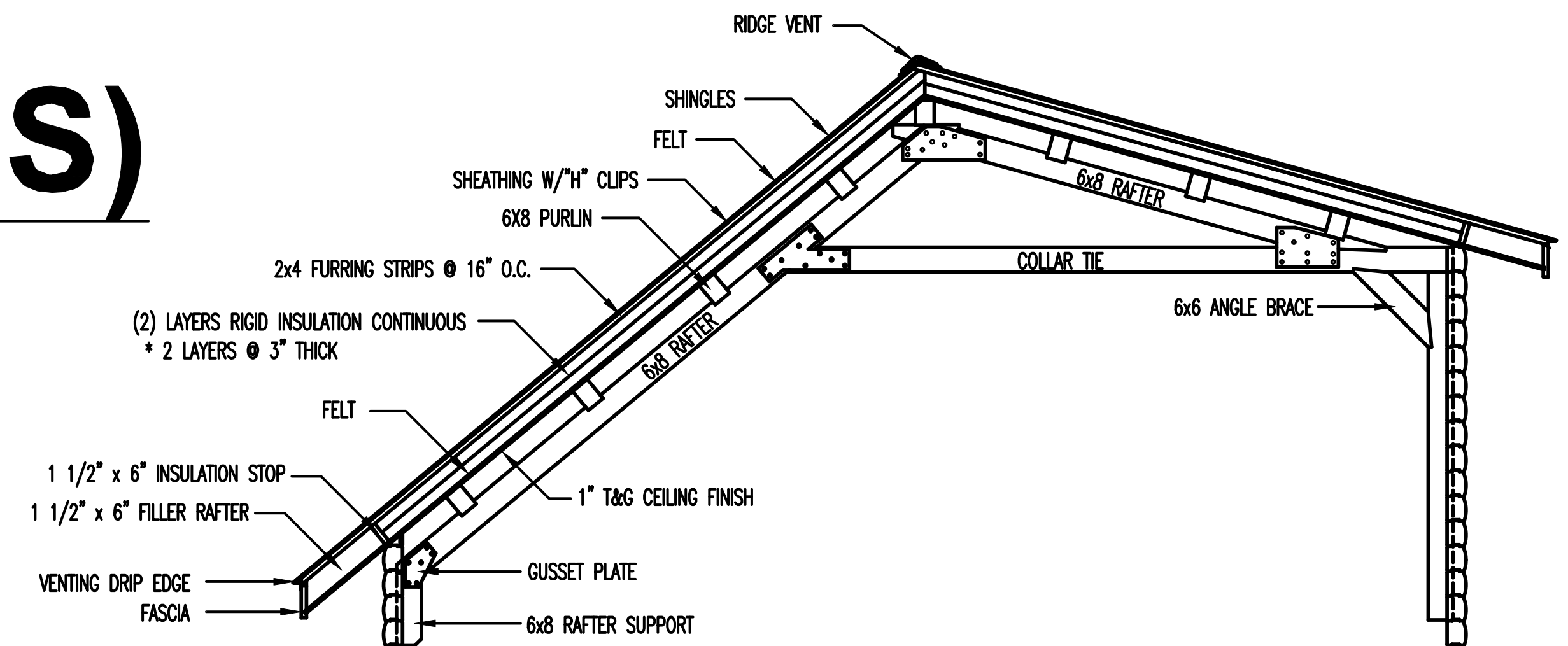
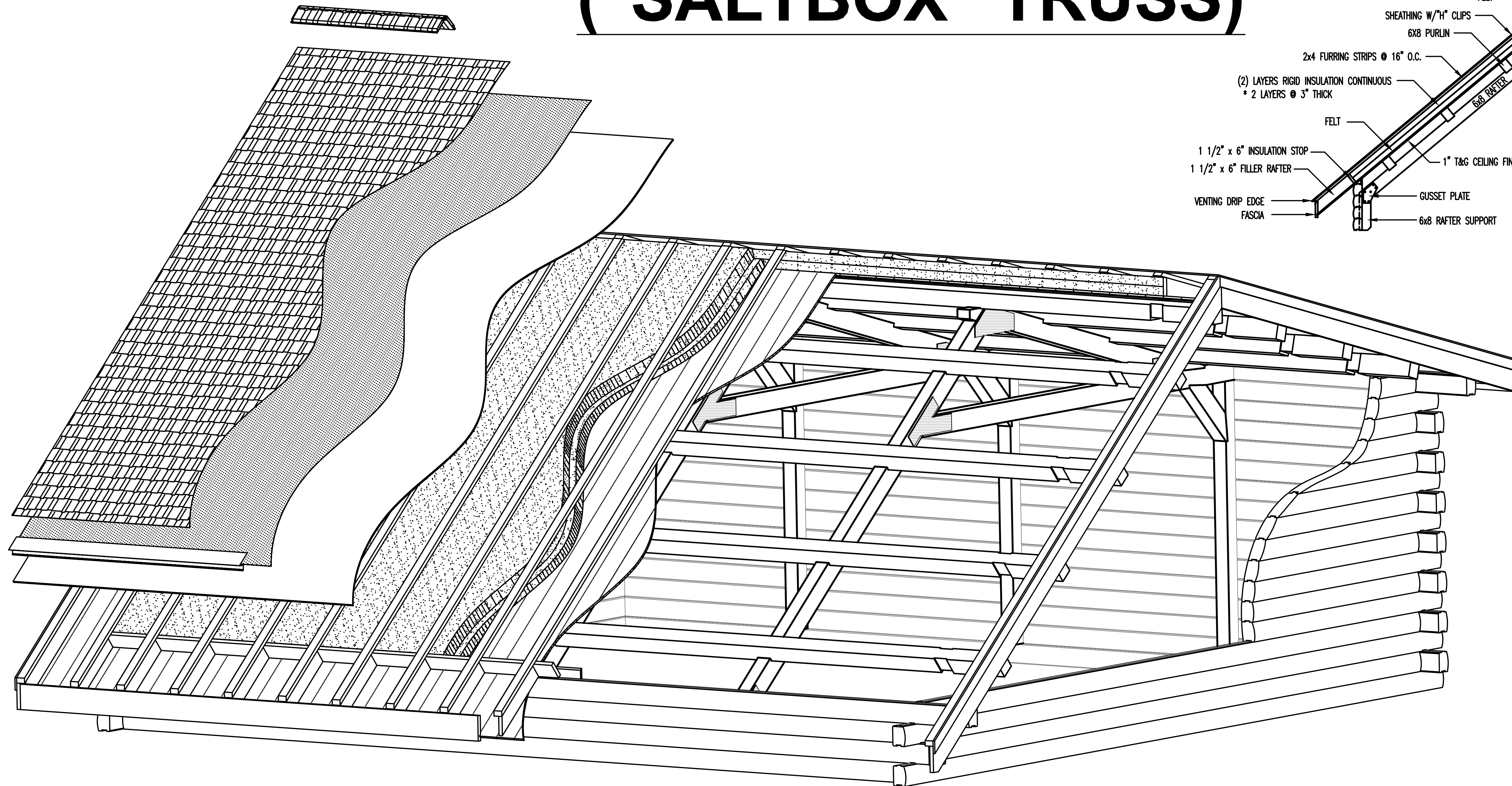
Sectional View

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- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 5'-0" TO 10'-0" APART WITH STRUCTURAL COLLAR TIE AT EACH ASSEMBLY. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- TRUSS ASSEMBLY DESIGNED FOR A ROOF PITCH GREATER THAN 8/12.
- TRUSS ASSEMBLY DESIGNED FOR HOMES LESS THAN 28'-0" WIDE.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE PURLINS.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 16 LOG/SIDING COURSES TO SQUARE.



# BEAM & PURLIN ("SALTBOX" TRUSS)

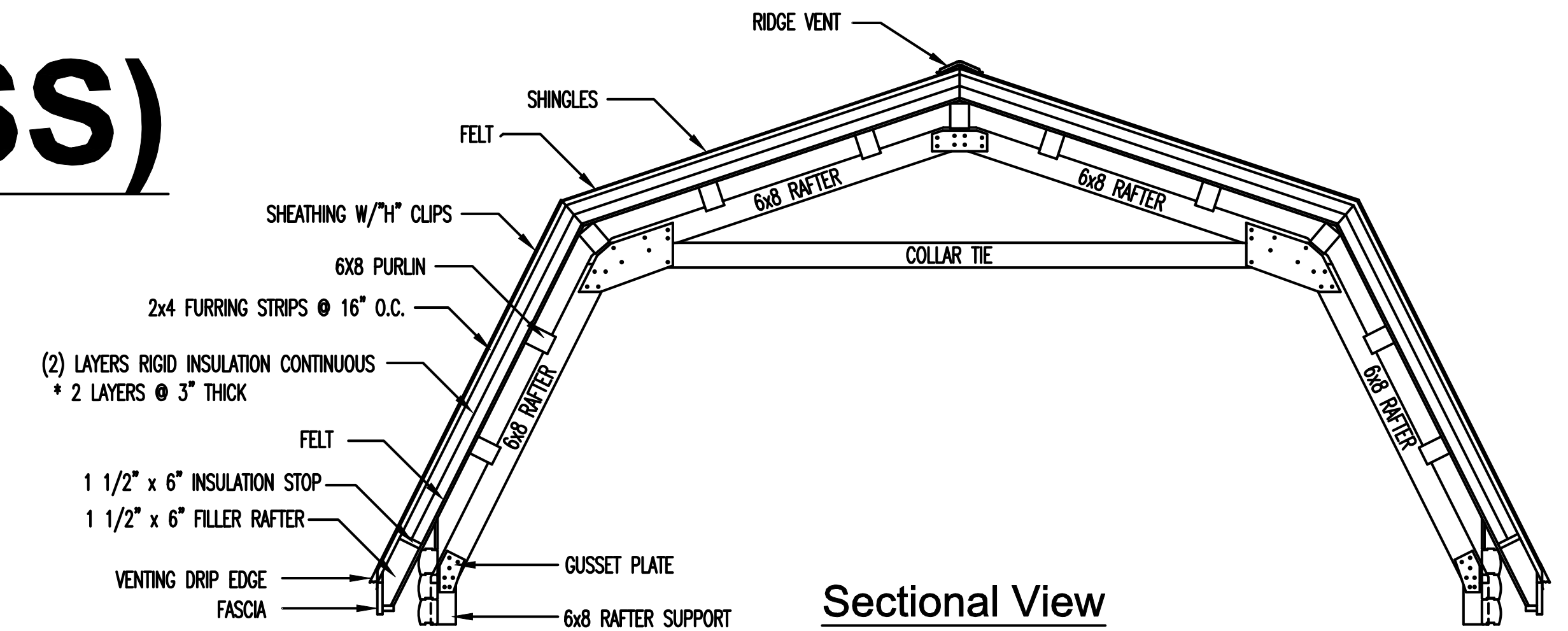
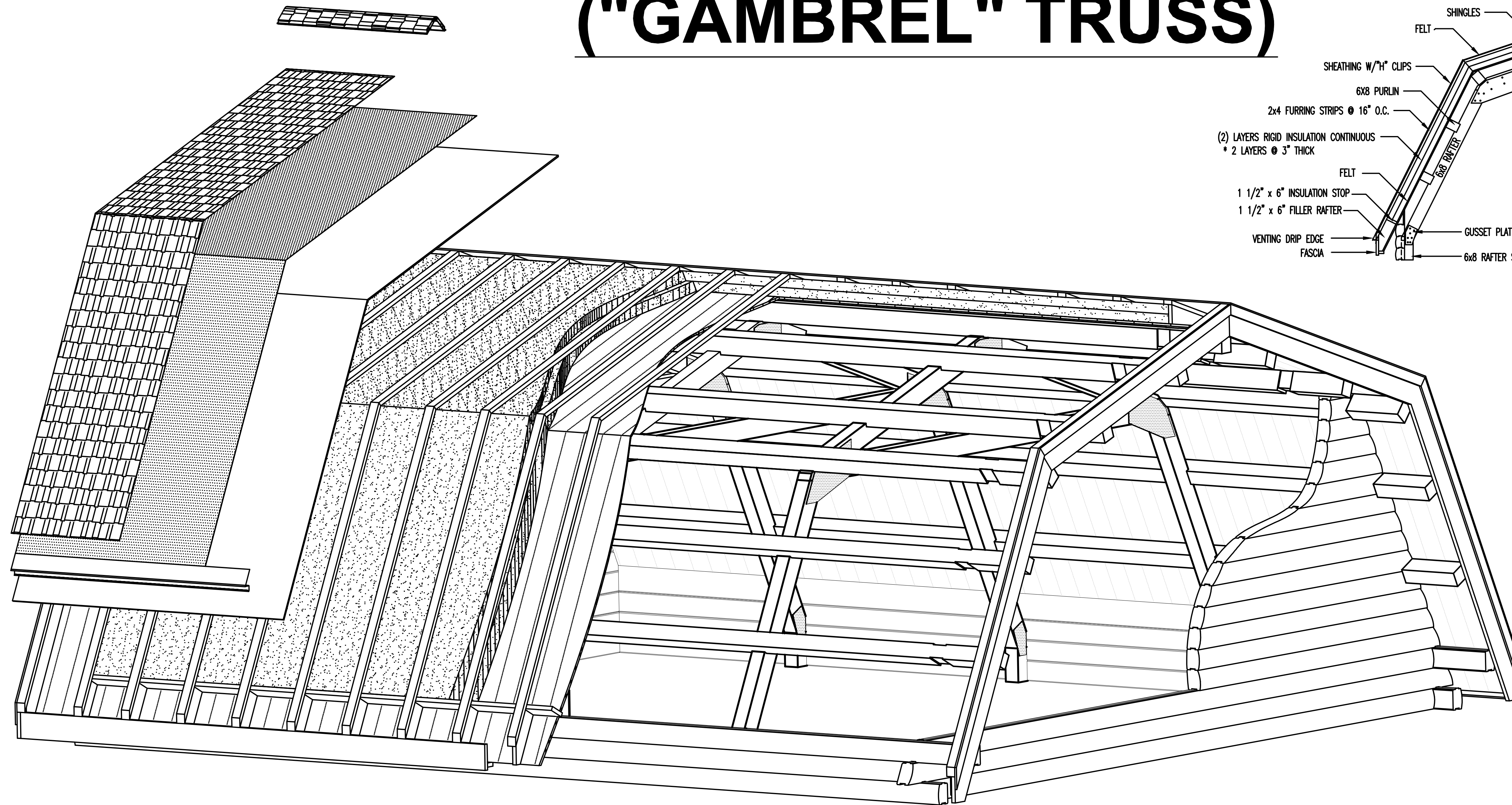


Sectional View

## DESIGN SPECIFICATIONS

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- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 5'-0" TO 10'-0" APART WITH STRUCTURAL COLLAR TIE AT EACH ASSEMBLY. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- TRUSS ASSEMBLY DESIGNED FOR HOMES LESS THAN 28'-0" WIDE.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE PURLINS.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 27 LOG/SIDING COURSES TO SQUARE.

# BEAM & PURLIN ("GAMBREL" TRUSS)

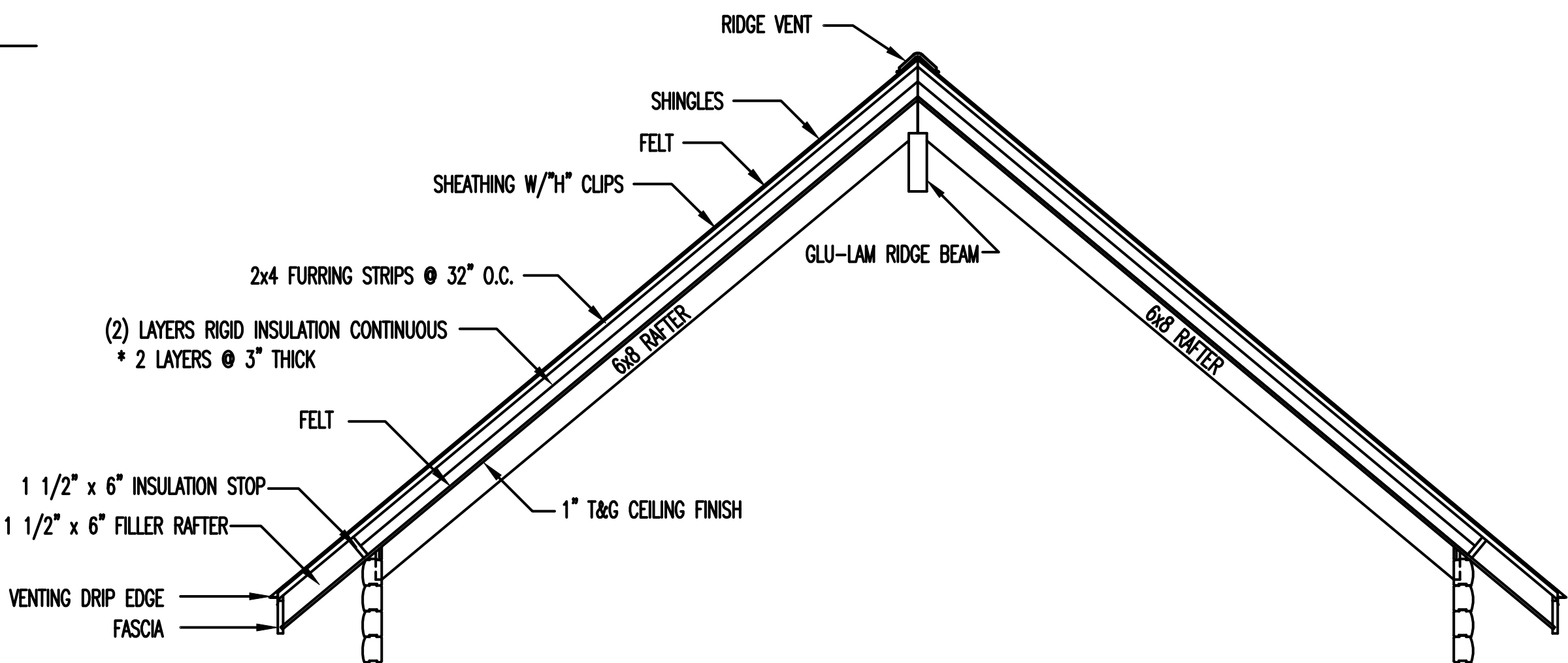
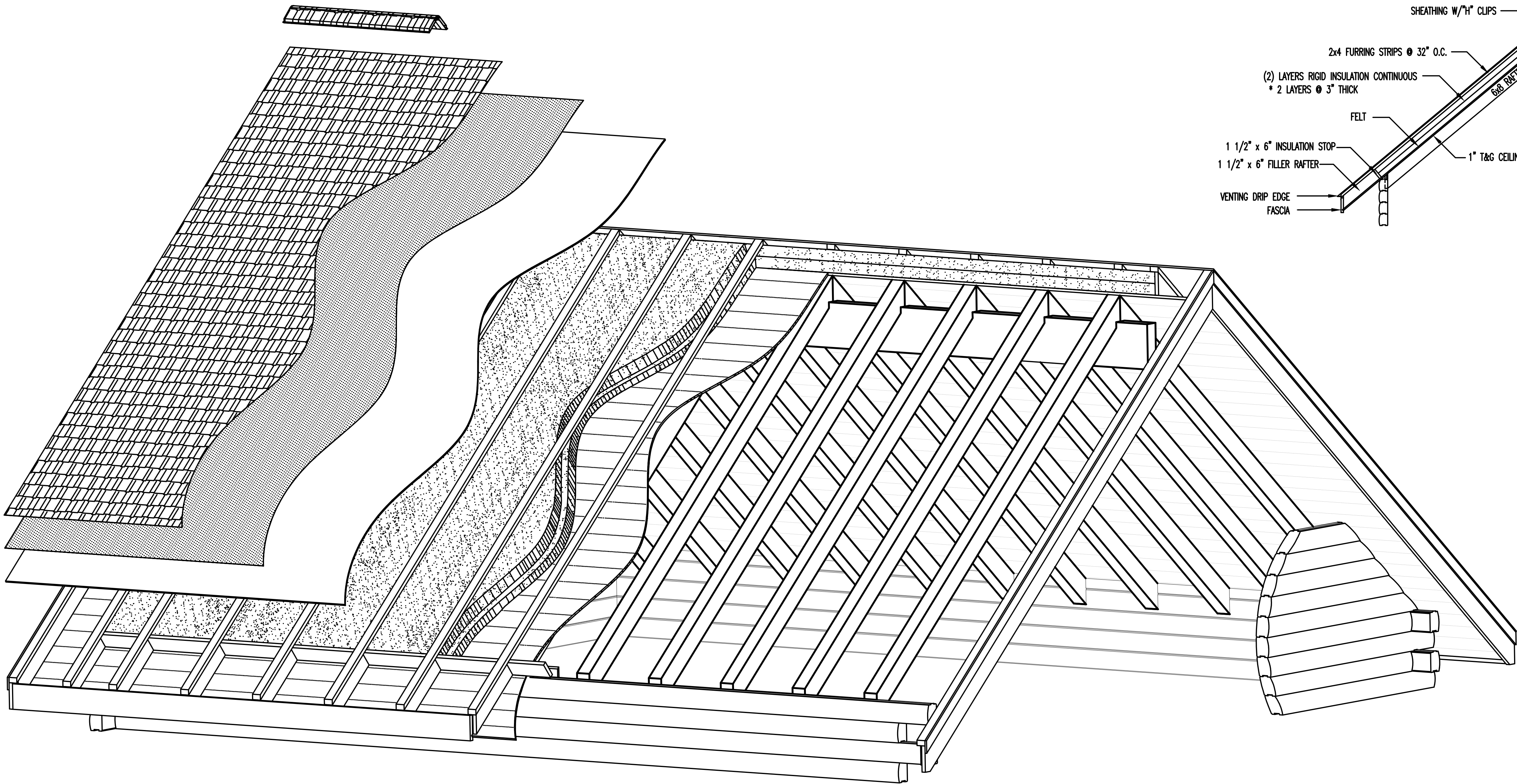


## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 5'-0" TO 10'-0" APART WITH STRUCTURAL COLLAR TIE AT EACH ASSEMBLY. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- TRUSS ASSEMBLY DESIGNED FOR HOMES LESS THAN 28'-0" WIDE. (DESIGN MAY VARY PENDING WIDTH OF HOME).
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE PURLINS.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 16 LOG/SIDING COURSES TO SQUARE.



# 6x8 RAFTER ROOF

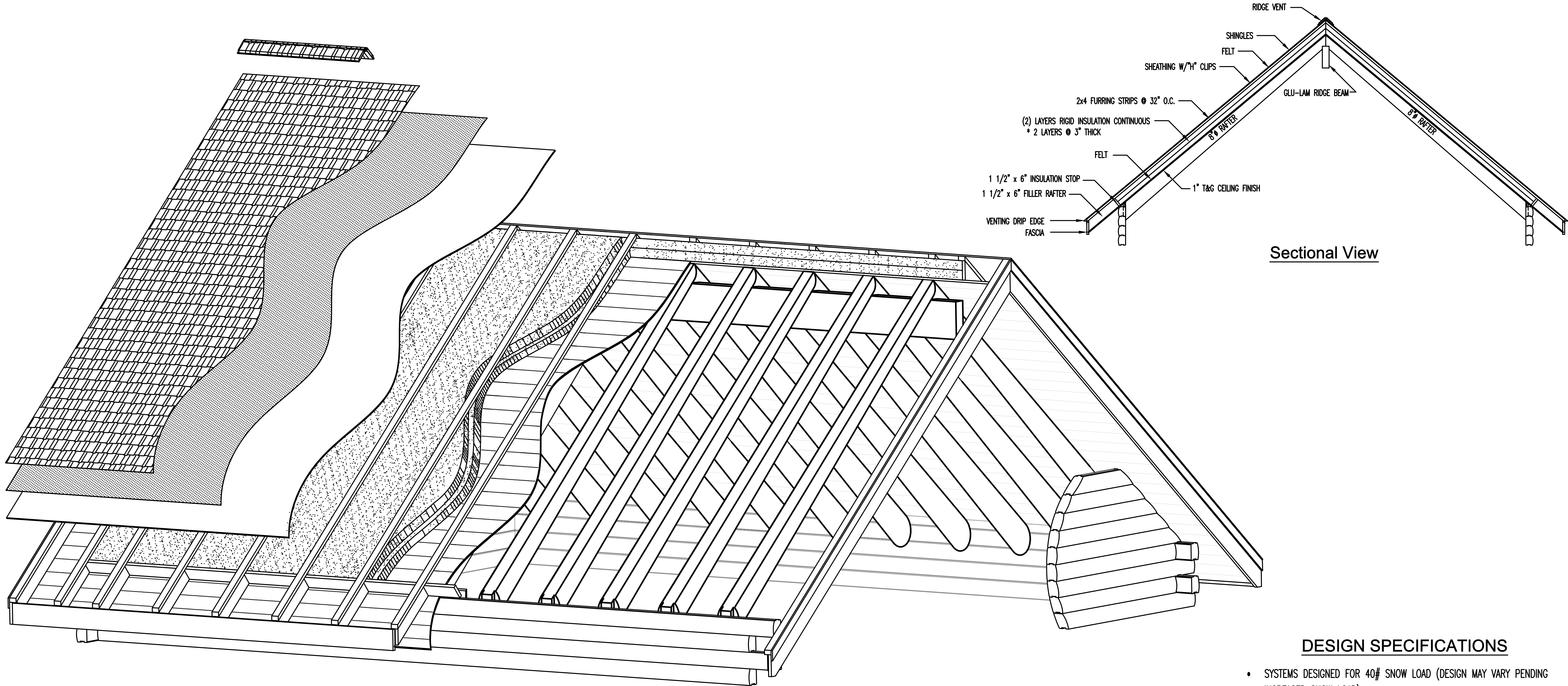


Sectional View

## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 32" O.C. WITH STRUCTURAL COLLAR TIES SPACED 64" O.C. COLLAR TIES BUTT INTO RAFTERS AND ARE FASTENED WITH A STEEL GUSSET PLATE AND THROUGH-BOLTS. (SPACING MAY VARY PENDING ENGINEERING AND/OR SPECIFIC DESIGN REQUIREMENTS)
- DESIGNED WITH A GLU-LAM RIDGE BEAM.
- SYSTEM DESIGNED FOR HOMES LESS THAN 28'-0" WIDE. (DESIGN MAY VARY PENDING WIDTH OF HOME).
- ROOF PITCHES VARY PENDING DESIGN.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- RAFTERS SUPPORTING A DORMER WALL MAY BE CHANGED TO A LARGER TIMBER PER ENGINEERING REQUIREMENT.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.

# 8"Ø RAFTER ROOF



## DESIGN SPECIFICATIONS

- SYSTEMS DESIGNED FOR 40# SNOW LOAD (DESIGN MAY VARY PENDING INCREASED SNOW LOAD).
- SYSTEMS DESIGNED FOR 90 MPH WIND LOAD (DESIGN MAY VARY PENDING INCREASED WIND LOAD).
- RAFTERS ARE TYPICALLY SPACED 32" O.C. (NO COLLAR TIES)
- DESIGNED WITH A GLU-LAM RIDGE BEAM.
- SYSTEM DESIGNED FOR HOMES LESS THAN 28'-0" WIDE. (DESIGN MAY VARY PENDING WIDTH OF HOME).
- ROOF PITCHES VARY PENDING DESIGN.
- INSULATION VALUE = R-38
- T&G CEILING FINISH INSTALLED PERPENDICULAR TO THE RAFTERS.
- RAFTERS SUPPORTING A DORMER WALL MAY BE CHANGED TO A LARGER TIMBER PER ENGINEERING REQUIREMENT.
- THE EXISTENCE OF A SECOND FLOOR WILL REQUIRE A MINIMUM OF 15 LOG/SIDING COURSES TO SQUARE.