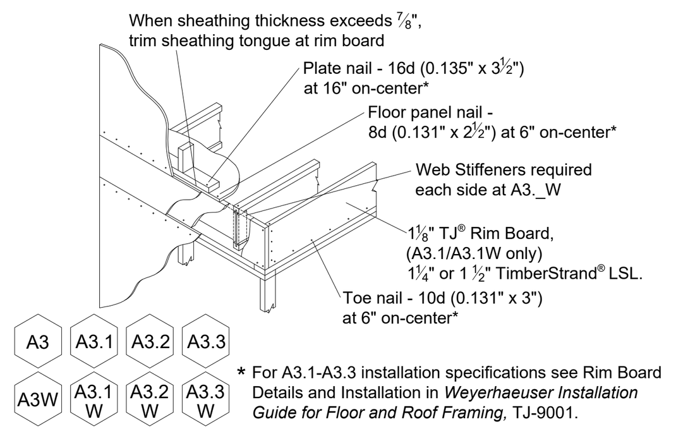
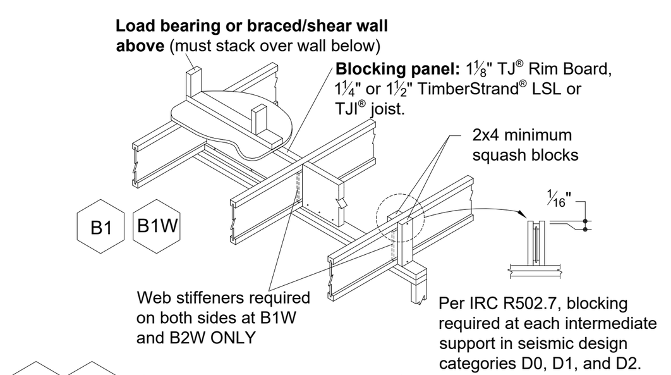
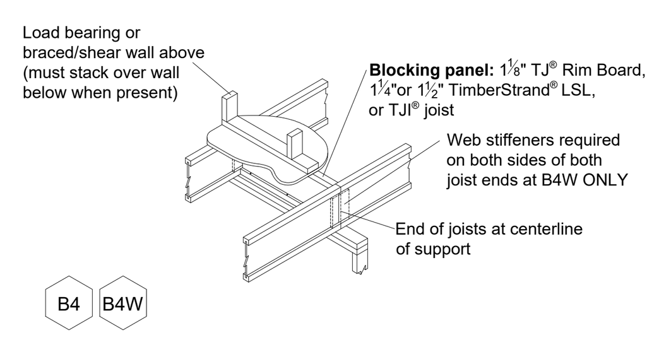
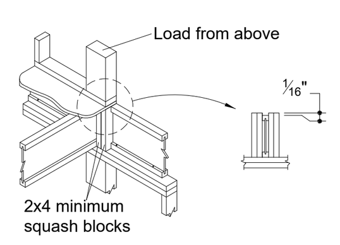


* For A3.1-A3.3 installation specifications see Rim Board Details and Installation in *Weyerhaeuser Installation Guide for Floor and Roof Framing,* TJ-9001.

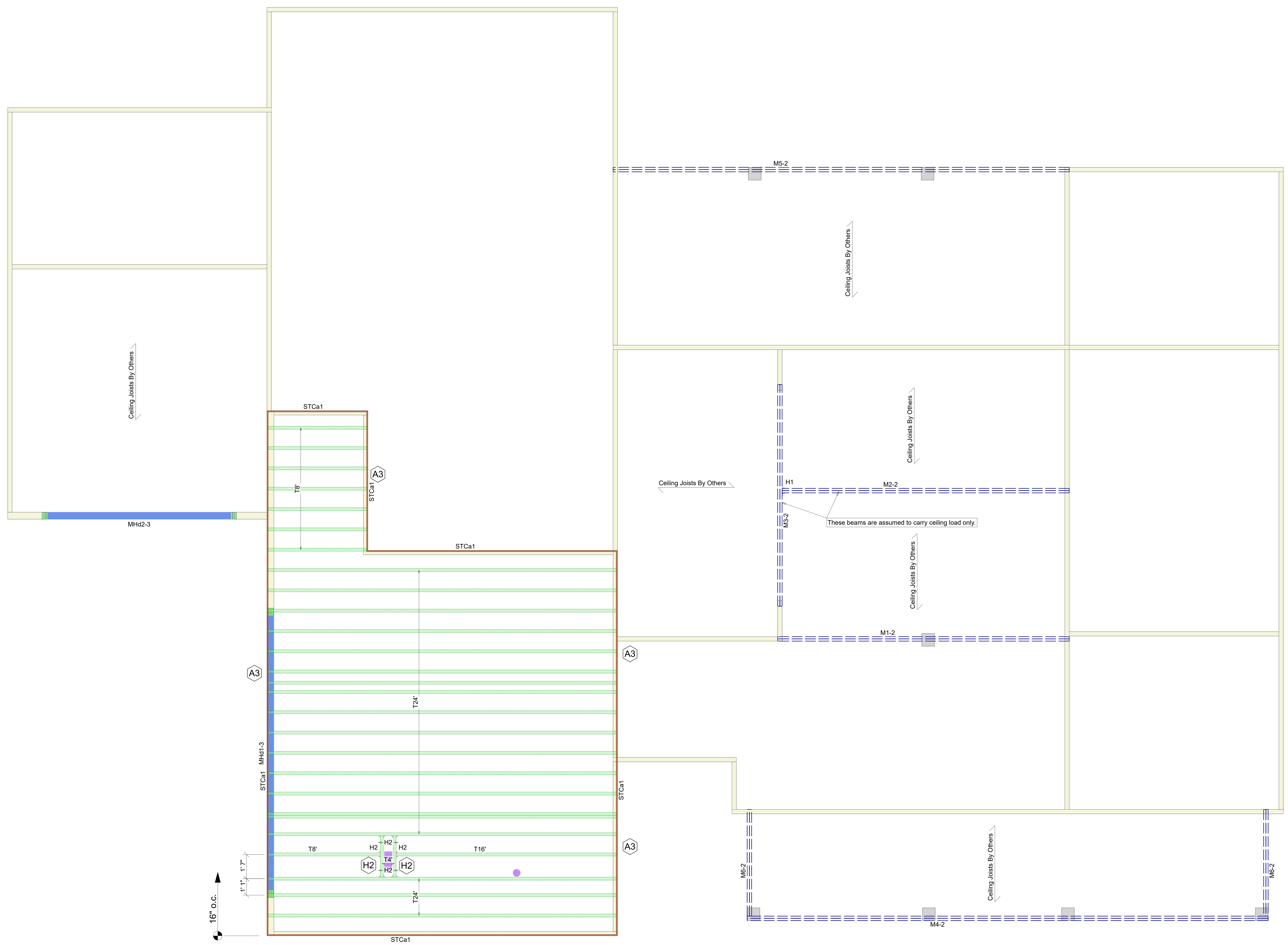


B2 B2W Blocking panels may be required with braced/shear walls above or below — see detail B1





CS ***Use 2x4 minimum squash blocks to transfer load around TJI® joist***



Framing Connector Summary

PlotID	Qty	Manuf	Product	Backer Blks	Web Stiff
H1	1	Simpson	HU416	No	No
H2	6	Simpson	IUS2.37/16	2	No

Products

PlotID	Length	Product	Plies	Net Qty
T24'	24' 0"	16" TJI 360 joist	1	19
T16'	16' 0"	16" TJI 360 joist	1	1
T8'	8' 0"	16" TJI 360 joist	1	8
T4'	4' 0"	16" TJI 360 joist	1	2
M1-2	20' 0"	1 3/4" x 16" 2.0E Microllam LVL	2	2
M2-2	20' 0"	1 3/4" x 14" 2.0E Microllam LVL	2	2
M3-2	16' 0"	1 3/4" x 14" 2.0E Microllam LVL	2	2
M4-2	36' 0"	1 3/4" x 9 1/4" 2.0E Microllam LVL	2	2
M5-2	30' 0"	1 3/4" x 9 1/4" 2.0E Microllam LVL	2	2
M6-2	8' 0"	1 3/4" x 9 1/4" 2.0E Microllam LVL	2	4
STCa1	16' 0"	1 1/8" x 16" TJ Rim Board	1	8

Wall Framing

PlotID	Length	Product	Plies	Net Qty
MHd1-3	20' 0"	1 3/4" x 16" 2.0E Microllam LVL	3	3
MHd2-3	14' 0"	1 3/4" x 9 1/4" 2.0E Microllam LVL	3	3

Accessories

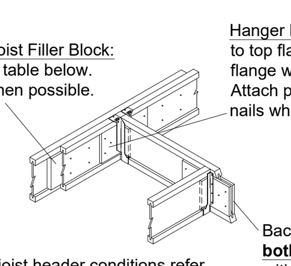
PlotID	Length	Product	Plies	Net Qty
	1' 10"	7/8" or 1" net Backer Blocks	1	4
	1' 0"	7/8" or 1" net Backer Blocks	1	4
		23/32"x48"x96" Weyerhaeuser Edge Gold Panel (0/24) T&G SF	1	22

Total Lengths

Length	Product
544' 0"	16" TJI 360 joist
100' 0"	1 3/4" x 16" 2.0E Microllam LVL
72' 0"	1 3/4" x 14" 2.0E Microllam LVL
206' 0"	1 3/4" x 9 1/4" 2.0E Microllam LVL
128' 0"	1 1/8" x 16" TJ Rim Board
11' 4"	7/8" or 1" net Backer Blocks

LEVEL NOTES	
Current Date:	4/16/2024
File Name:	SR-326192.jvl
Level Name:	2nd Floor
Building Code - Design Methodology:	IBC 2021
Members with Design Overridden:	
TJ-Pro Rating (Weighted Average):	49
Minimum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 45, joist = T24'(i767)
Maximum Level TJ - Pro Rating & Joist:	TJ-Pro rating = 74, joist = T8'(i728)
FLOOR	
Floor Container:	FC1
Use/Occupancy:	ResidentialLivingAreas
Floor Area Loading is:	20.0 lb/ft² Live Load & 10.0 lb/ft² Dead Load
Maximum Allowed Deflection:	L/480 Live Load & L/240 Total Load
TJ-Pro Rating Information:	
Weighted Average:	49
Directly Applied Ceiling:	Gypsum 1/2"
Decking Attachment:	Glue and Nail
Decking Material:	23/32"x48"x96" Weyerhaeuser Edge Gold Panel (0/24) T&G SF
Perpendicular Partition:	No
Strapping at max 8' o.c.:	None
Blocking at max 8' o.c.:	No
Poured Flooring:	No

An additional 20 psf LL has been added to account for floor load in the non-attic area.



For triple TJI® joist header conditions refer to Weyerhaeuser Technical Bulletin TB-820

TJI® Depth, D	TJI® Flange Width	Block Type	Nail Size	Nail Quantity
9½" <D≤ 20"	less than 3½"	Filler	10d(0.128" x 3")	15
		Backer	10d(0.128" x 3")	15
	3½"	Filler	16d(0.135" x 3½")	15 - each side
		Backer	10d(0.128" x 3")	15
20" <D≤ 24"	3½"	Filler	16d(0.135" x 3½")	25 - each side
		Backer	10d(0.128" x 3")	15

For nailing capacities refer to TB-834 (ASD) and TB-861 (LSD)

H2 **With top mount hangers, backer block required only for downward loads exceeding 250 (395 factored) lbs or for uplift conditions. For filler and backer block sizes see *Weyerhaeuser Installation Guide for Floor and Roof Framing,* TJ-9001.**

WARNING

Joists are unstable until braced laterally

Bracing Includes:

- Blocking
- Hangers
- Sheathing
- Rim Board
- Strut Lines
- Rim Joist

DO NOT walk on joists until braced. INJURY MAY RESULT.

DO NOT walk on joists that are lying flat.

DO NOT stack building materials on unsheathed joists. Stack only over beams or walls.

WARNING NOTES:

Lack of proper bracing during construction can result in serious accidents. Observe the following guidelines:

1. All blocking, hangers, rim boards and rim joists at the end supports of the TJI® joists must be completely installed and properly nailed.
2. Lateral strength, like braced end wall or an existing deck, must be established at the ends of the bay. This can also be accomplished by a temporary or permanent deck (sheathing) fastened to the first 4 feet of joists at the end of the bay.
3. Safety bracing of 1x4 (minimum) must be nailed to a braced end wall or sheathed area (as in note 2) and to each joist. Install bracing with 2 - 8d(.0113" x 2.5") nails each joist and end support at 8 ft on center (6 ft for TJI 110 joists). Without this bracing, buckling sideways or rollover is highly probable under light construction loads - such as a worker or one layer of unnailed sheathing.
4. Sheathing must be completely attached to each TJI® joist before additional loads can be placed on the system.
5. Ends of cantilevers require safety bracing on both the top and bottom flanges.
6. The flanges must remain straight within 1/2" from true alignment.
7. See www.wy.com/besafe for additional installation information.

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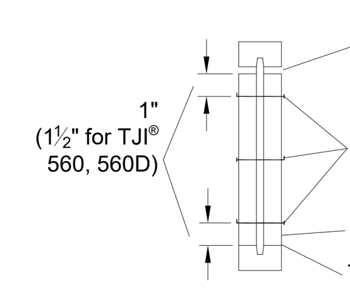
WEB STIFFENER ATTACHMENT



* With point load from above, and no support below, install web stiffener tight to top flange (gap at bottom flange)

TJI® Joist Series	Depth (in.)	Minimum Web Stiffener Size	Nailing Requirements Type	Number Nails End	Number Nails Intermediate
110 210 230 & 360	All All All	5/8" x 2 5/16" (1) 3/4" x 2 5/16" (1) 7/8" x 2 5/16" (1)	8d (0.113" x 2½")	3	3
560	All	2x4 (2)	16d (0.135" x 3½")		
560D	18" 20" 22" (3) 24" (3)	2x4 (2)	16d (0.135" x 3½")	4 5 6 6	4 5 11 13

W

(1) PS1 or PS2 sheathing, face grain vertical
(2) Construction grade or better
(3) Web stiffeners are always required for 22" and 24" TJI® 560D Joists

Second Floor Framing Plan

Scale: 1/4" = 1'-0"

SYMBOL LEGEND

Symbol	Meaning
XX"	Bearing Length Requirement
	Line Load
	Point Load
	Area Load
BBO	Member By Others
CBO	Closure By Others
ULA	Under Load Above
	Toilet/Shower Plumbing Drop
	Tub Plumbing Drop
	Walls Above
XX	Detail Callout Label

GENERAL NOTES:

- Joists may be shifted up to 3" from on center spacing to avoid hanger interference, flush beams and/or plumbing drops. **DO NOT CUT JOIST FLANGES**.
- All EWP beams have been designed assuming full width support of the members/plies, unless noted otherwise.
- This drawing may contain deviations from the original project documents. It is the responsibility of the contractor to notify the project Design Professional of these deviations to verify conformance with the original design intent of the project.
- This layout is intended for the use of TrusJoist engineered wood products only. The substitution of other wood products with this layout is NOT PERMITTED. Please identify the TJI, TimberStrand® LSL, Microllam® LVL and Parallam® PSL stamps on the product to ensure that this layout is valid for the products actually installed.
- Only header openings and roof loads which affect Weyerhaeuser product sizes have been denoted on this layout. In addition to and 'CS' detail callouts shown, solid blocking and/or squash blocks are required to provide vertical load transfer from all concentrated load locations to foundation below. See Pocket Framers Guide for appropriate detail(s).

Weyerhaeuser
TRUS JOIST ENGINEERED WOOD PRODUCTS

Specification Team
plans@wy.com
www.axis.weyerhaeuser.com

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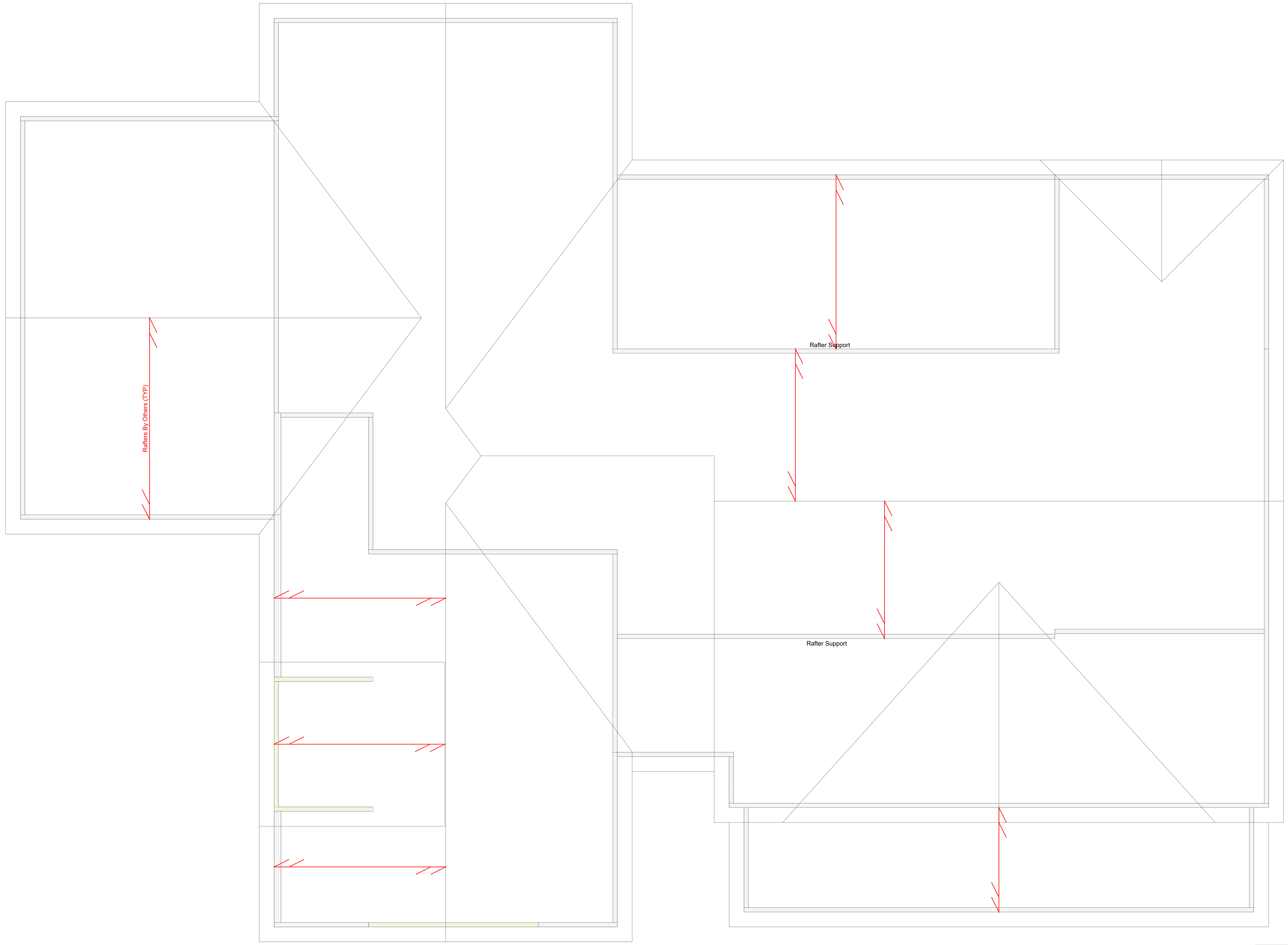
Architectural Drawings Prepared By:	Diane Rives Designs 9/26/2023
Structural Drawings Prepared By:	N/A N/A
Latest Revision Date:	4/16/2024
	Beam changes (SR-326192)
Revised By:	CMT
Drawn By:	Chuck T.
Original Date	12/18/2023

188 Hobby Road
Harrington Properties
NC

R23-255894

SR-326192

Sheet 1 of 2



Roof Framing Assumptions
Scale: 1/4" = 1'-0"

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188 Hobby Road
Harrington Properties
NC

R23-255894
SR-326192

Sheet **2** of **2**

Latest Revision Date:	4/16/2024
Revision Comments:	Beam changes (SR-326192)
Revised By:	CMT
Drawn By:	Chuck T.
Original Date	12/18/2023

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Architectural Drawings Prepared By:	Structural Drawings Prepared By:
Diane Rives Designs	N/A
9/26/2023	N/A

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