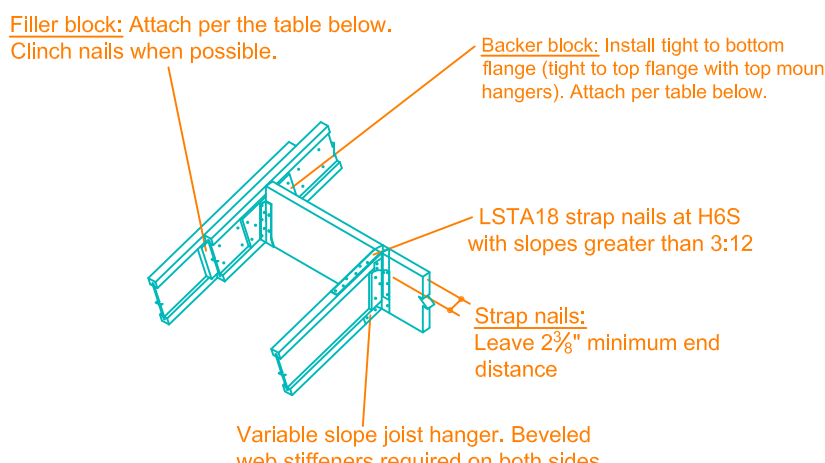
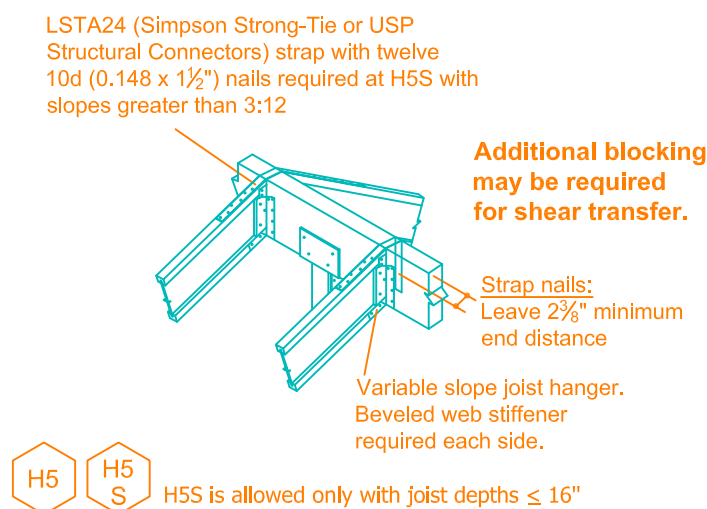
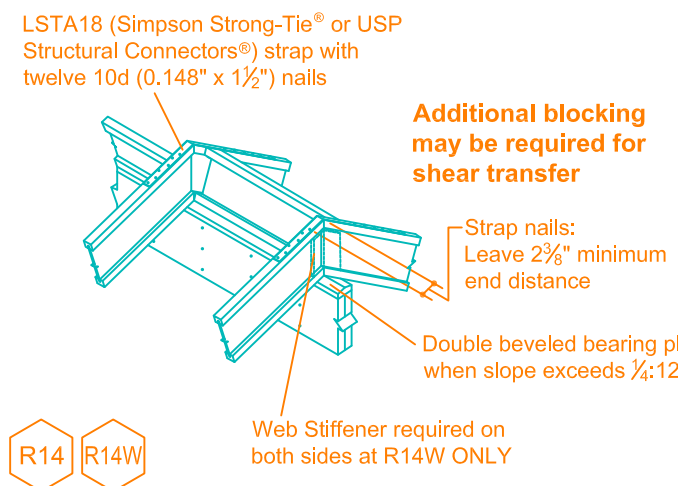
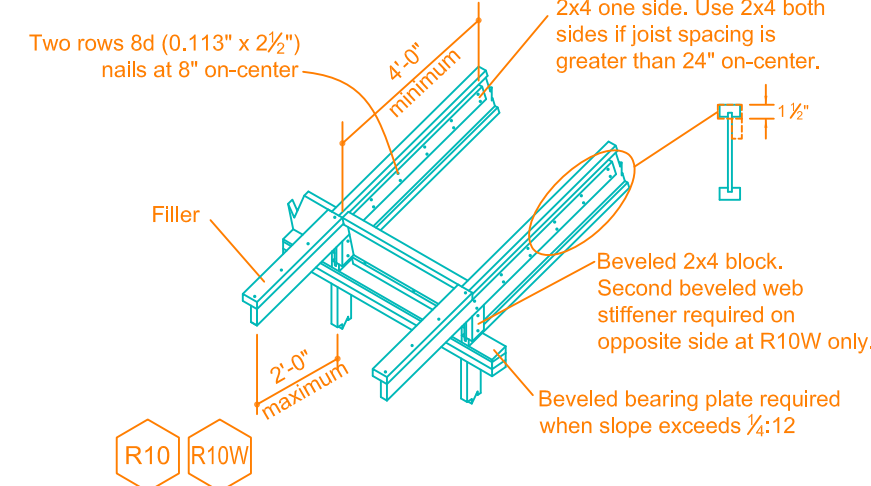
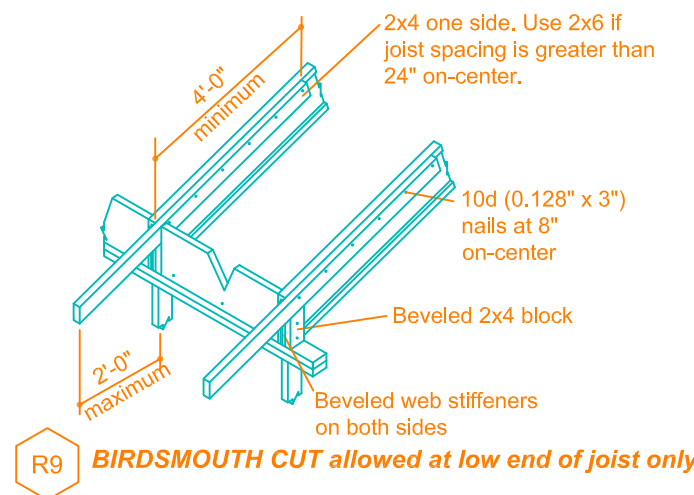
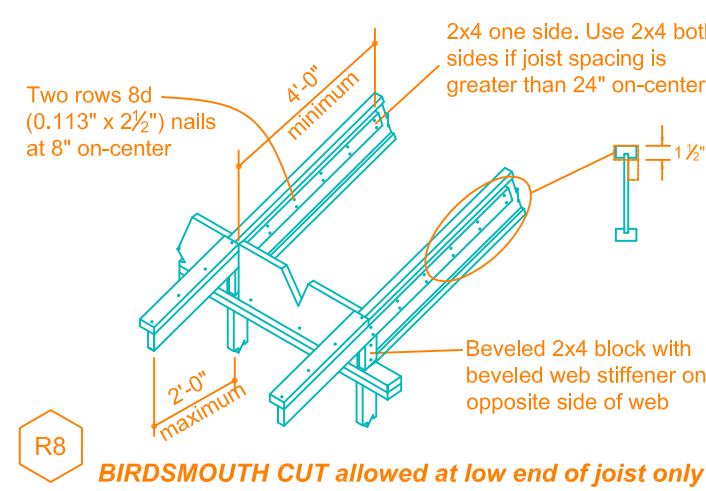
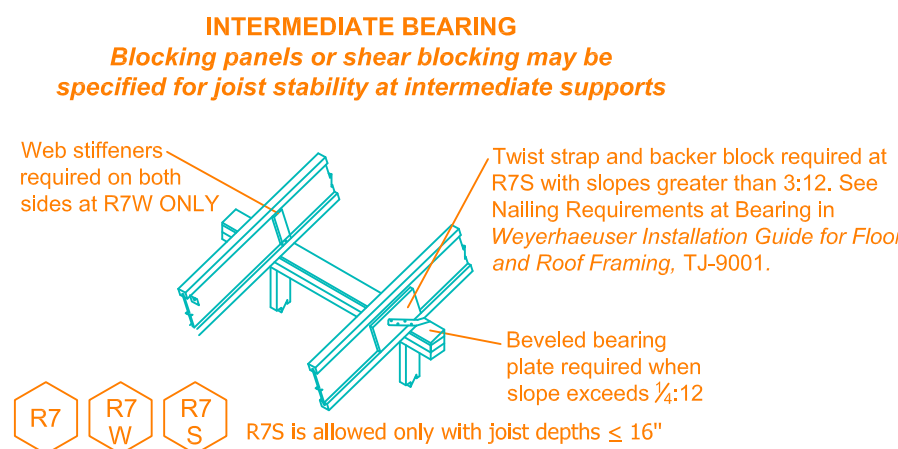
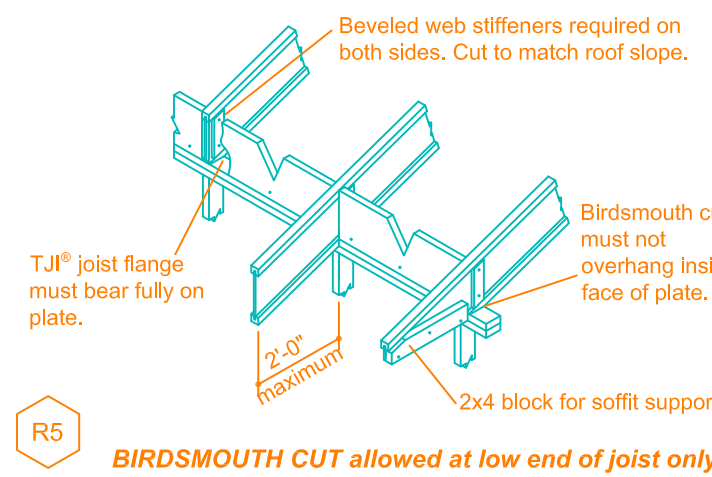
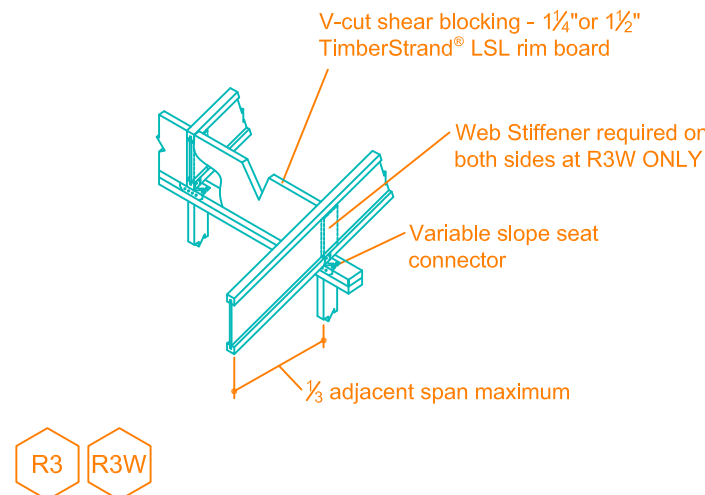
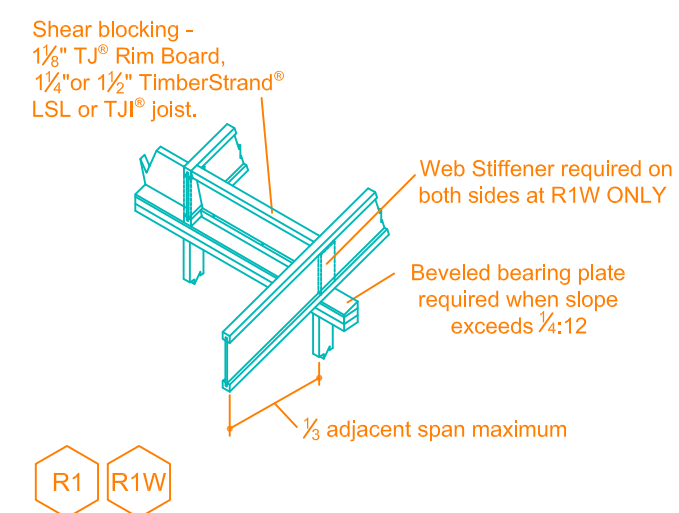




ROOF DETAILS

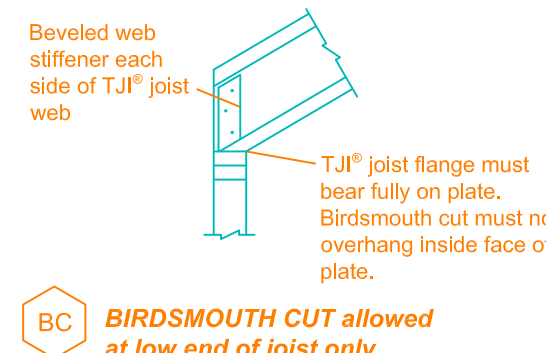
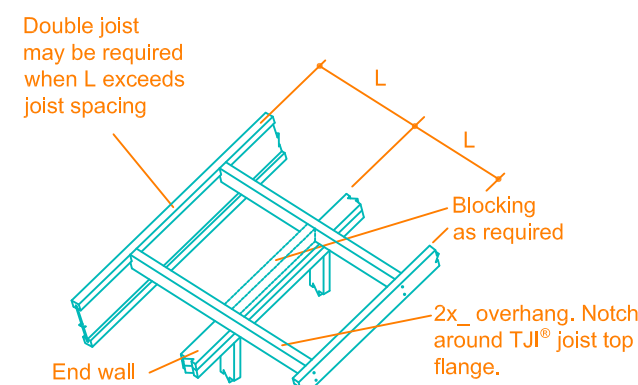
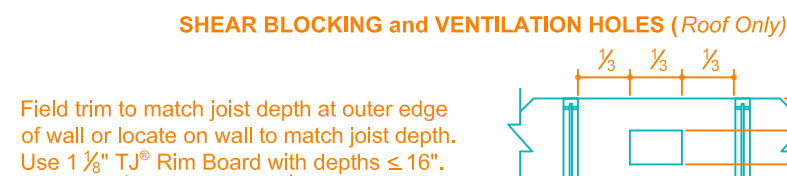
General Notes
Unless otherwise noted, all details are valid to a maximum slope of 12:12. Joists >16" have a maximum slope of 3:12.

Web stiffeners are required with all 22" and 24" joists and when the sides of the hanger do not laterally support at least 3/4" of the TJI® joist top flange. Also see framing plan.



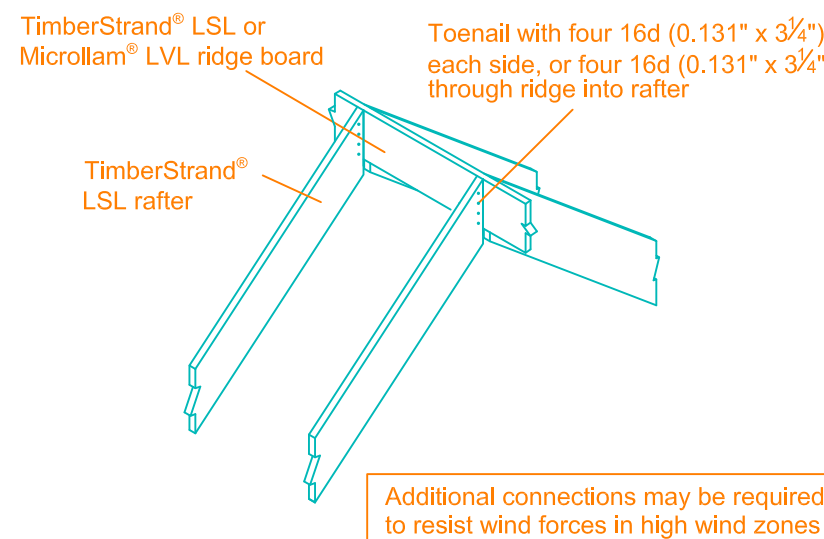
TJI® Depth, D	TJI® Flange Width	Block Type	Size	Nail Quantity
9 1/2" < D ≤ 16"	less than 3 1/2"	Filler	10d(0.128" x 3")	10
		Backer	10d(0.128" x 3")	10
16" < D ≤ 20"	less than 3 1/2"	Filler	16d(0.135" x 3 1/2")	10 - each side
		Backer	10d(0.128" x 3")	10
20" < D ≤ 24"	3 1/2"	Filler	10d(0.128" x 3")	15
		Backer	16d(0.135" x 3 1/2")	15 - each side

H6S is allowed only with joist depths ≤ 16"
For filler and backer block sizes see *Weyerhaeuser TJI® Joist Specifier's Guide*, TJ-4000



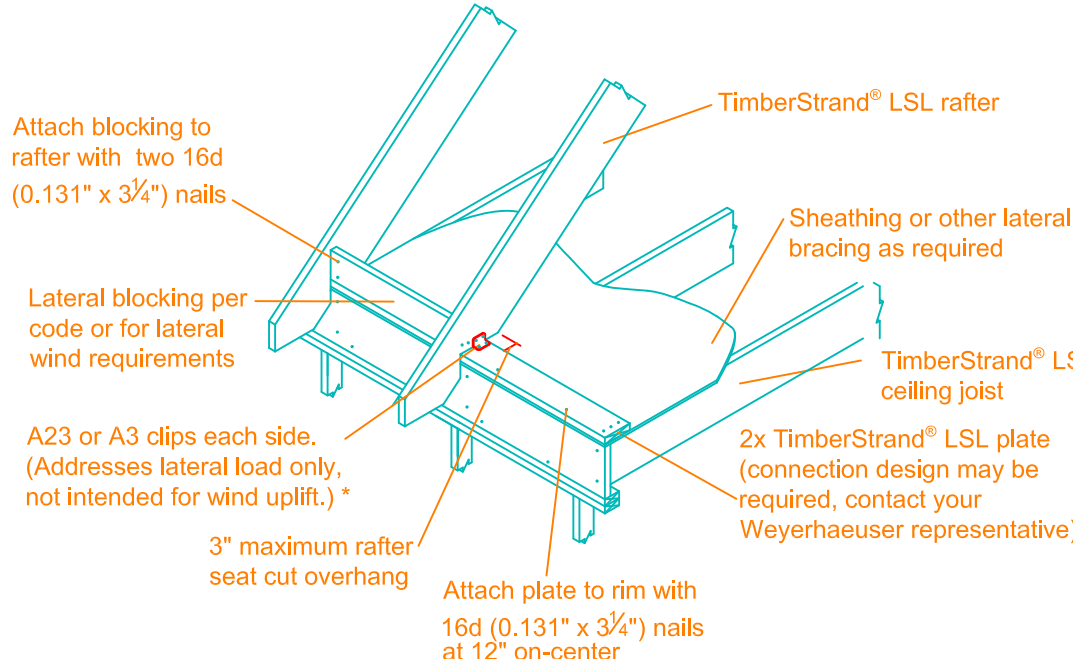
ROOF FRAMING DETAILS

Ridge Connection



Rafter Size	Rafter Pitch		
	4:12 to 9:12	10:12 to 11:12	12:12
2x6	2x8	2x10	2x10
2x8	2x10	2x12	2x12
2x10	14"	14"	14"
2x12	14"	16"	16"

Heel Connection (Platform)



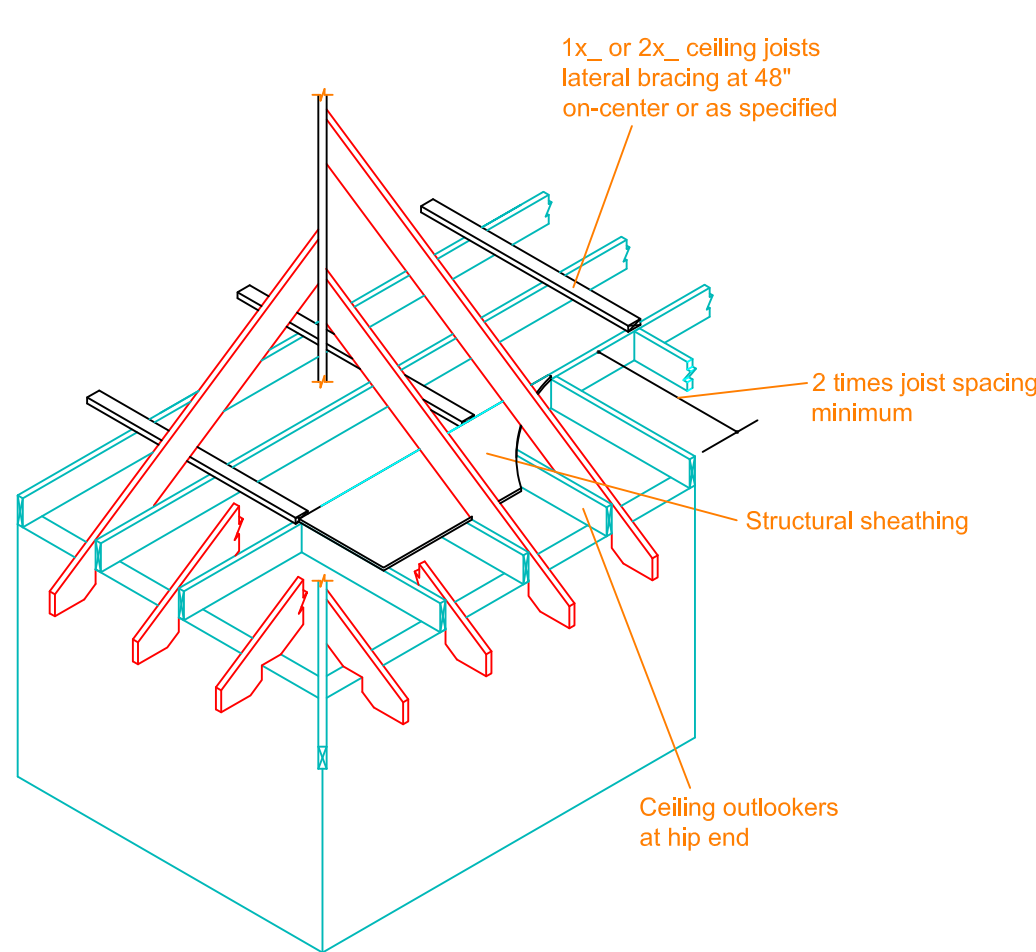
* Angle Clips

Hanger Type	Clip	Nailing	
		Top Plate	Rafter/Ceiling Joist
Simpson Strong Tie®	A23	10d x 1 1/2"	10d x 1 1/2"
USP Structural Connectors®	A3	10d x 1 1/2"	10d x 1 1/2"

Rafter Connection for Thrust:

- For lap connection nail quantity requirements, see Rafter Span and Heel Connection Tables in *Weyerhaeuser Roof System Design Guide*, TJ-9005.
- If fewer than 8 nails are required, use only one A23 or A3 clip, each side.
- If 8-15 nails required, use two A23 or A3 clips, each side.

Outlooker Detail



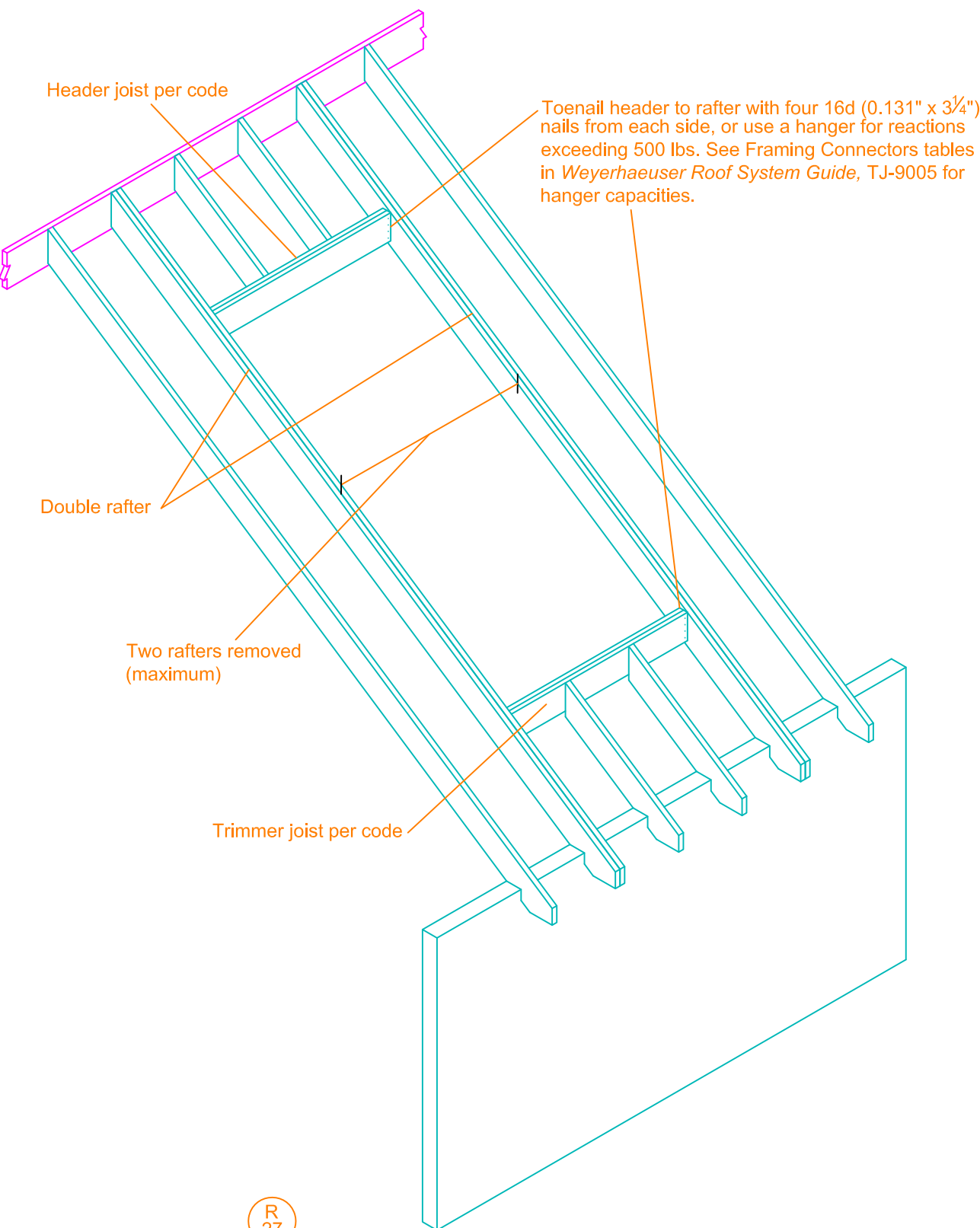
Hip/Valley Intermediate Support

Connect rafter to hip with five 16d (0.131" x 3/4") nails.
Connect rafter to valley with 16d (0.131" x 3/4") nails per table below.

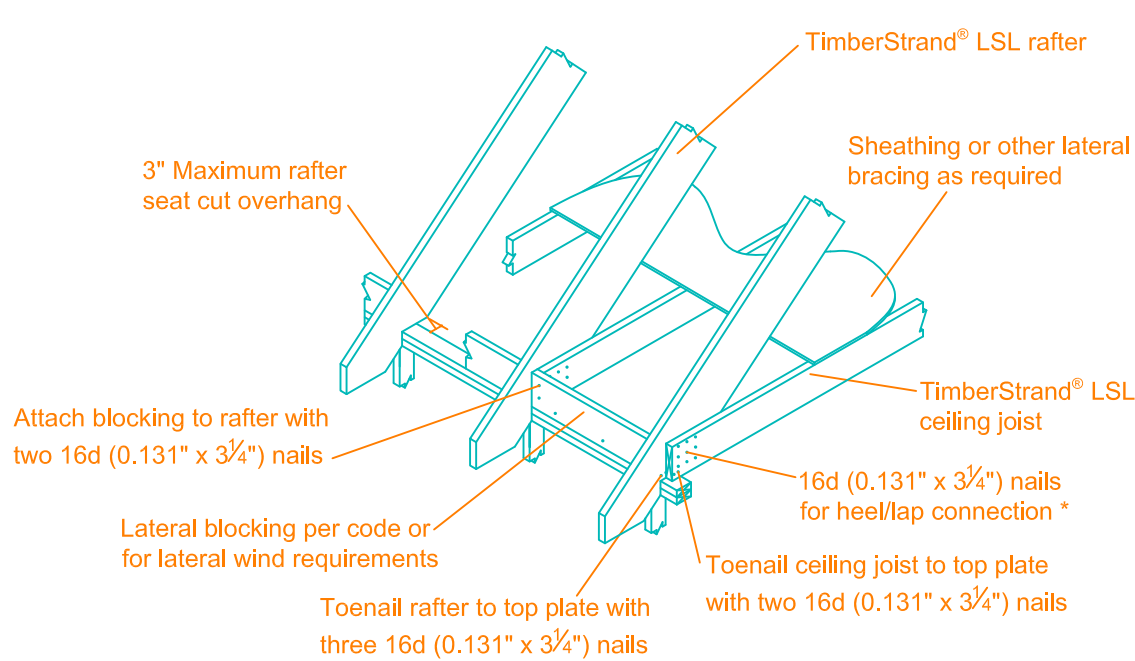
Rafter On-Center Spacing	Rafter Span	Roof Snow Load			
		30 LL + 15 DL	50 LL + 15 DL	80 LL + 15 DL	Number of 16d (0.131" x 3 1/4") nails required
16"	6'	5	5	5	5
	12'	5	6	8	8
	18'	6	9	12	12
	24'	8	12	-	-
24"	6'	5	5	7	7
	12'	6	8	11	11
	18'	9	13	-	-
	24'	12	-	-	-

* Contact your Weyerhaeuser representative for additional connection information.

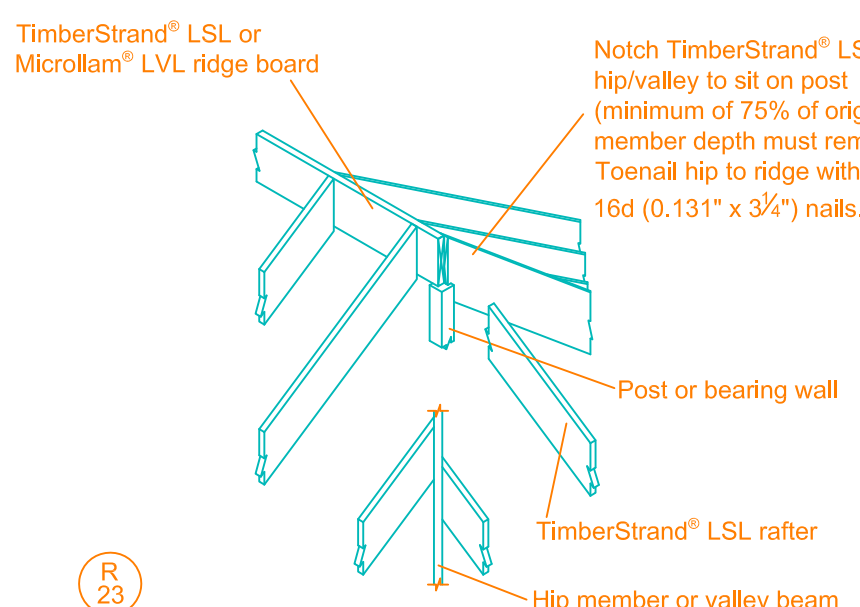
Dormer Framing



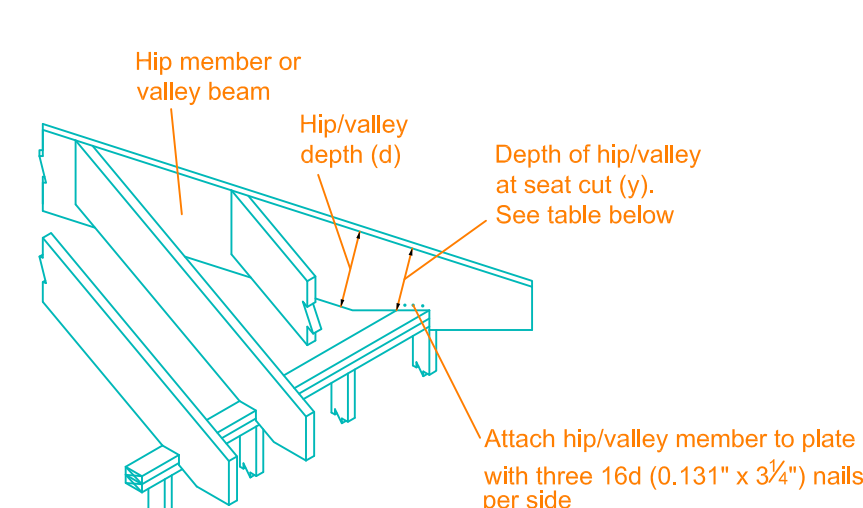
Heel Connection (Lap)



Hip/Ridge/Valley/ Post Detail



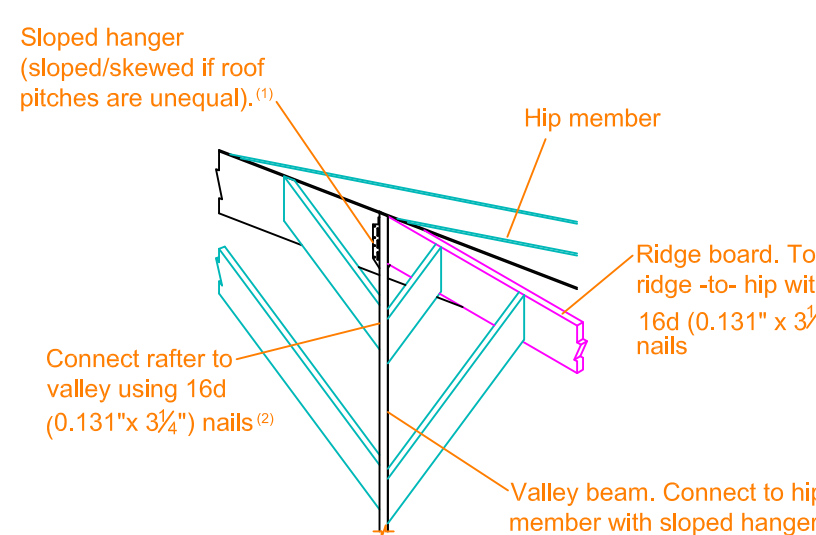
Hip/Valley Low End



Hip/Valley Depth			
Minimum Percentage of Original Hip/Valley Depth Required			
Member Type	TimberStrand® LSL	Microlam® LVL	
Hip Member	30%	50%	
Valley Beam	80%	90%	

Calculate percentage as 90 x 100

Valley -to- Hip Connection



Contact your Weyerhaeuser representative for sizing of a hip or valley with a point load.

(1) See Framing Connectors in *Weyerhaeuser Roof System Guide*, TJ-9005 for hanger capacities.

(2) See Rafter-to- Valley Connection table in Detail R26 above.



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