

August 10, 2022

Viewpoint Residential Design, LLC 1550 SW Market St., Suite230A Lee's Summit, MO 64081 Attn: Jeffrey Pfeifer

Re: RWR127 Swinney – Notched Hip/Valley Rafter (Inspection Letter)

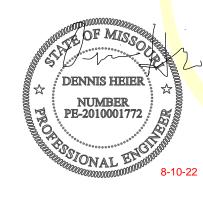
Per conversation with Jeffrey Pfeifer, on August 10, 2022, Vista Structural Engineering, LLC was asked to address the notched hip & valley rafters to the exterior bearing walls located at the garage. The 1 3/4" x 11 7/8" hip & valley rafters were notched with 7" of available depth (measured from interior face of wall). *We recommend approval of the current framing, without repair.* Please see attached partial plan mark ups, calculations, and photos for reference.

Our firm appreciates the opportunity to serve you. If you have any questions or if you need anything further, please feel free to contact us.

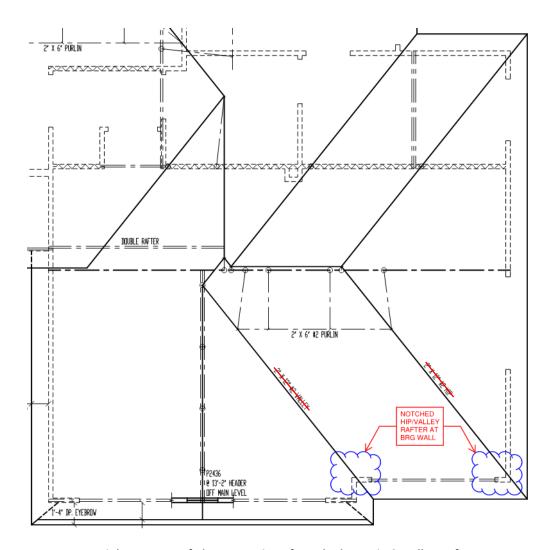
Sincerely,

Vista Structural Engineering, LLC

Dennis Heier, P.E.

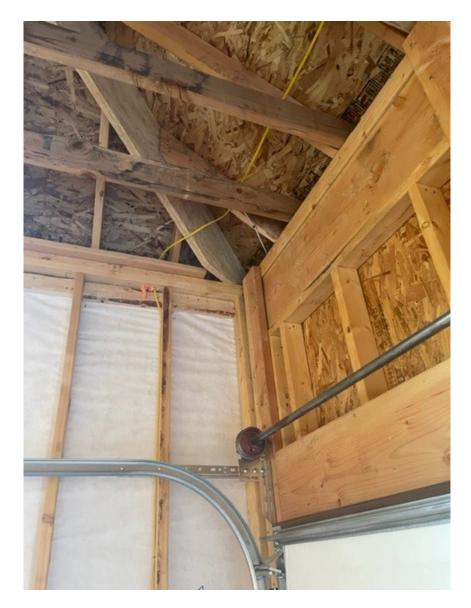






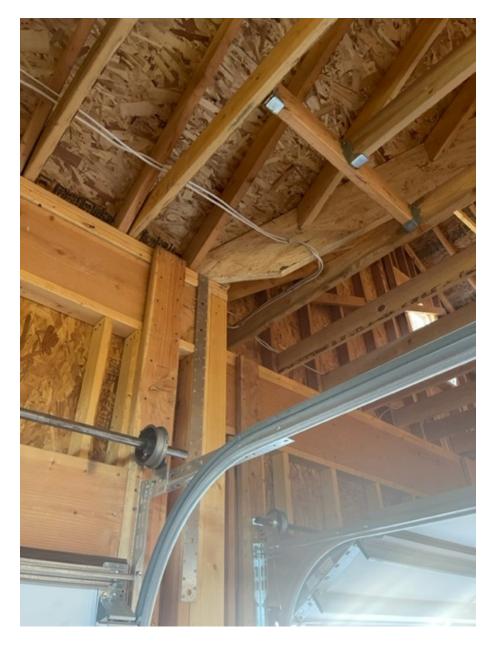
Partial Garage Roof Plan - Location of Notched LVL Hip & Valley Rafters





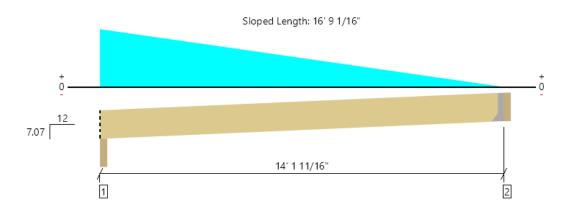
Notched Hip Rafter at Garage





Notched Valley Rafter at Garage

ROOF, R1



GOVERNING REACTION AT BEARING WALL Bearing Length Loads to Supports (lbs) Supports Total Available Required Dead Snow Factored 4ccessories 1537 - Beveled Plate - SPF Blocking 2 - Hanger on 11 1/4" SPF beam 3.50" 407 1.50 352 Hanger¹ 759 See note 1

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.
- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- ullet 1 See Connector grid below for additional information and/or requirements.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 14' 1 11/16"	N/A	4.3		
1 - Tapered (PLF)	0 to 14' 1 11/16"	N/A	119.0 to 0.0		Generated from Roof Geometry

Weyerhaeuser Notes

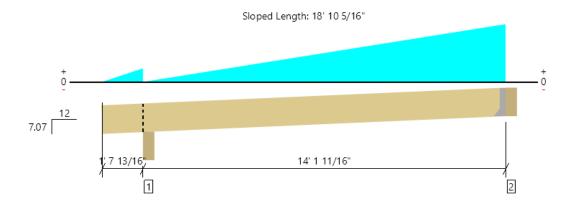
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The product application, input design loads, dimensions and support information have been provided by ForteWEB Software Operator

ForteWEB Software Operator	Job Notes
Dennis Nguyen Vista Structural Engineering LLC (503) 515-1124 dn@vistastructural.com	



ROOF, R1



	В	earing Lengt	th	Loads	to Supports		
Supports	Total	Available	Required	Dead	Snow	Factored	Accessories
1 - Beveled Plate - DF	5.50"	5.50"	1.50"	399	459	858	Blocking
2 - Hanger on 11 1/4" DF beam	5.50"	Hanger ¹	1.59"	669	826	1495	See note 1

- Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.
- At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger
- ¹ See Connector grid below for additional information and/or requirements.

Connector: Simpson Strong-Tie												
Support	Model	Seat Length	Top Fasteners	Face Fasteners	Member Fasteners	Accessories						
2 - Face Mount Hanger	LRU210Z	1.94"	N/A	6-16d	7-16d							

REACTION AT BEARING WALL

[•] Refer to manufacturer notes and instructions for proper installation and use of all connectors.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 15' 9 1/2"	N/A	4.3		
1 - Tapered (PLF)	0 to 1' 7 13/16"	N/A	0.0 to 27.8	0.0 to 41.2	Generated from Roof Geometry
2 - Tapered (PLF)	1' 7 13/16" to 15' 9 1/2"	N/A	0.0 to 117.3	0.0 to 176.8	Generated from Roof Geometry

Weyerhaeuser Notes

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