

July 11, 2022

Walker Custom Homes Attn: Ryan Hamilton

Re: Inspection Letter: RHF059 Spec Lot 59 The Retreat at Hook Farms 1st Plat – 2118 SW Red Barn Ln., Lee's Summit, Missouri

Vista Structural Engineering, LLC was asked to address the following rough-in inspection items for the project located at above referenced address. Please see the following responses w/ attached partial plan mark up, calculations, and site photos for reference.

1) Inspection comment: "Address hip rafters over notched at bearing ends in garage"

Vista Structural's response: Hip rafters at garage, and rafters/ceiling joist at master suite/bath are the governing cases with the biggest spans & bearing reactions. Available depth of notched rafters/ceiling joists are min. 5 ½" in depth at interior face of bearing wall. Design shear stresses are lower than allowable shear stresses per NDS 2018. Therefore, we recommend approval of the current framing, without repair. See attached partial plans, calculations, and ref. photos.

2) Inspection comment: "Address hip rafter to top plate above pantry"

Vista Structural's response: See comment #1 response. We recommend approval of the current framing, without repair.

Inspection comment: "Address over notched lvl rafter above dining area"

Vista Structural's response: Available depth of notched LVL hip rafter should be approximately 5 ½"-6" min. at (2) 2x12 beam bearing. Shear stress of reduced LVL hip rafter is okay. See attached partial plan, calculation, and ref. photo.

4) Inspection comment: "Address ceiling joists and hip rafter in master bed over notched"

Vista Structural's response: See comment #1 response. We recommend approval of the current framing, without repair.

5) Inspection comment: "Address over notched ceiling joist ends above master bath"

Vista Structural's response: See comment #1 response. We recommend approval of the current framing, without repair.

6) Inspection comment: "Roof supports not to land on 2x12's in master bath per plans"

Vista Structural's response: (2) 2x12 supporting hip rafters in master bath will adequately support the design load as currently framed. See attached partial plan, calculation, and ref. photo.



7) Inspection comment: "Address lvl above bed 2 over notched at bearing ends"

Vista Structural's response: Available depth of notched dbl 1 3/4" x 11 7/8" LVL ceiling beam should be approximately 5 ½" min. at interior face of bearing wall. Design shear stresses are lower than allowable shear stresses per NDS 2018. Therefore, we recommend approval of the current framing, without repair. See attached calculation and ref. photo.

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







Master Suite/Bath Partial Plan – Governing Typ. Rafter/Ceiling Joist & Hip Rafter Support at (2) 2x12 Ceiling Beams

VISTA STRUCTURAL ENGINEERING, LLC 14718 NW DELIA STREET PORTLAND, OREGON 97229





Garage Roof Partial Plan – Governing Hip Rafter





Dining Room Roof Partial Plan – LVL Hip Rafter



HIP RAFTER AT GARAGE



RAFTER/CEILING JOIST AT MASTER SUITE



CEILING JOIST/BM AT MASTER BATH



HIP RAFTER ROOF SUPPORTS AT (2) 2x12 CEILING BM



NOTCHED (2) LVL CEILING BM AT BEDROOM 2





ROOF, 2X12 HIP RAFTER (FOR RXN LOAD ONLY) 1 piece(s) 2 x 12 DF No.2

Sloped Length: 18' 3 11/16"



Member Length : 18' 3 15/16"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

							R
	B	earing Leng	th	Loads t	o Supports	(lbs)	
Supports	Total	Available	Required	Dead	Snow	Total	ecessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	390	529	919	Blocking
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	559	825	1384	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.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 16' 11 5/8"	N/A	4.3		
1 - Tapered (PLF)	0 to 2' 9 15/16"	N/A	0.0 to 44.7	0.0 to 70.7	Generated from Roof Geometry
2 - Tapered (PLF)	2' 9 15/16" to 16' 11 5/8"	N/A	0.0 to 107.3	0.0 to 176.8	Generated from Roof Geometry

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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	



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ROOF, LVL HIP RAFTER (FOR RXN LOAD ONLY) 1 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL

Sloped Length: 18' 3 11/16"



Member Length : 18' 4 3/16"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

							R
	B	earing Leng	th	Loads t	o Supports ((lbs)	
Supports	Total	Available	Required	Dead	Snow	Total	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	-199	-400	-599	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	2.33"	753	1082 🗸	1835	None
3 - Hanger on 11 7/8" SPF beam	3.50"	Hanger ¹	1.50"	427	618	1045	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.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 16' 11 5/8"	N/A	6.1		
1 - Tapered (PLF)	0 to 2' 9 15/16"	N/A	0.0 to 44.7	0.0 to 70.7	Generated from Roof Geometry
2 - Tapered (PLF)	2' 9 15/16" to 16' 11 5/8"	N/A	0.0 to 107.3	0.0 to 176.8	Generated from Roof Geometry

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







Sloped Length: 12' 9 11/16"



Member Length : 12' 9 15/16"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

	B	earing Leng	th	Loads t	o Supports		
Supports	Total	Available	Required	Dead	Snow	Total	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	214	282	496	Blocking
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	210	325	535	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.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 11' 9 7/16"	N/A	4.3		
1 - Tapered (PLF)	0 to 2' 9 15/16"	N/A	0.0 to 44.7	0.0 to 70.7	Generated from Roof Geometry
2 - Tapered (PLF)	2' 9 15/16" to 11' 9 7/16"	N/A	0.0 to 63.7	0.0 to 112.0	Generated from Roof Geometry

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ROOF, B2 1 piece(s) 2 x 12 DF No.2

Sloped Length: 7' 11/16"



Member Length : 7' 1"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

	B	earing Leng	th	Loads t	o Supports		
Supports	Total	Available	Required	Dead	Snow	Total	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	73	87	160	Blocking
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	126	166	292	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.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 4 3/8"	N/A	4.3		
1 - Tapered (PLF)	0 to 6' 4 3/8"	N/A	0.0 to 50.3	0.0 to 79.5	Generated from Roof Geometry

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ROOF, B3 1 piece(s) 2 x 12 DF No.2

Sloped Length: 9' 9 11/16"



Member Length : 9' 9 15/16"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

	В	earing Leng	th	Loads t	o Supports				
Supports	Total	Available	Required	Dead	Snow	Total	Accessories		
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	135	170	305	Blocking		
2 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	242	331	573	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.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 8' 11 1/2"	N/A	4.3		
1 - Tapered (PLF)	0 to 8' 11 1/2"	N/A	0.0 to 70.8	0.0 to 112.0	Generated from Roof Geometry

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ROOF, B4 1 piece(s) 2 x 12 DF No.2



System : Roof Member Type : Drop Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 0/12

	Bearing Length			Loads t	o Supports		
Supports	Total	Available	Required	Dead	Snow	Total	Accessories
1 - Beam - DF	3.50"	3.50"	1.93"	707	1106	1813	Blocking
2 - Beam - DF	3.50"	3.50"	1.72"	655	953	1608	Blocking

Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

			Dead	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 6' 1"	N/A	4.3		
1 - Uniform (PSF)	0 to 6' 1" (Front)	6'	15.0	25.0	ROOF
2 - Point (lb)	0 (Top)	N/A	210	325	Linked from: B1, Support 2
3 - Point (lb)	0 (Top)	N/A	210	325	Linked from: B1, Support 2
4 - Point (lb)	6' 1" (Top)	N/A	126	166	Linked from: B2, Support 2
5 - Point (Ib)	6' 1" (Top)	N/A	242	331	Linked from: B3, Support 2

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ROOF, DBL LVL CEILING BM (FOR RXN LOAD ONLY) 2 piece(s) 1 3/4" x 11 7/8" 2.0E Microllam® LVL



R

System : Floor Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD

	В	earing Leng	th	L	oads to Sup	oorts (Ibs)		
Supports	Total	Available	Required	Dead	Floor Live	Snow	Total	Accessories
1 - Stud wall - DF	5.50"	5.50"	1.50"	802	86	1030	1918	Blocking
2 - Stud wall - DF	5.50"	5.50"	1.50"	802	86	1030	118	Blocking

• Blocking Panels are assumed to carry no loads applied directly above them and the full load is applied to the member being designed.

			Dead	Floor Live	Snow	
Vertical Loads	Location (Side)	Tributary Width	(0.90)	(1.00)	(1.15)	Comments
0 - Self Weight (PLF)	0 to 12' 11"	N/A	12.1			
1 - Uniform (PSF)	0 to 12' 11" (Top)	1' 4"	5.0	10.0	-	CEILING
2 - Point (Ib)	6' 5 1/2" (Top)	N/A	707	-	1106	Linked from: B4, Support 1
3 - Point (lb)	6' 5 1/2" (Top)	N/A	655	-	953	Linked from: B4, Support 2

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ROOF, HIP RAFTERS AT MASTER BATH (FOR RXN LOAD ONLY)

1 piece(s) 2 x 12 DF No.2

Sloped Length: 21' 3 11/16"



Member Length : 21' 3 15/16"

System : Roof Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD Member Pitch : 4.24/12

	Bearing Length			Loads t	o Supports		
Supports	Total	Available	Required	Dead	Snow	Total	Accessories
1 - Beveled Plate - SPF	3.50"	3.50"	1.50"	102	166	268	Blocking
2 - Beveled Plate - SPF	3.50"	3.50"	2.77"	763	1113	1876	None
3 - Hanger on 11 1/4" SPF beam	3.50"	Hanger ¹	1.50"	466	697	1163	See note 1
• Blocking Panels are assumed to carry no load	s applied dire	ctly above the	m and the ful	l load is applie	ed to the men	nber being	designed.

• At hanger supports, the Total Bearing dimension is equal to the width of the material that is supporting the hanger

 \bullet 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 19' 9 9/16"	N/A	4.3		
1 - Tapered (PLF)	0 to 2' 9 15/16"	N/A	0.0 to 44.7	0.0 to 70.7	Generated from Roof Geometry
2 - Tapered (PLF)	2' 9 15/16" to 19' 9 9/16"	N/A	0.0 to 130.4	0.0 to 212.1	Generated from Roof Geometry

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





ROOF, DBL 2x12 CEILING JOIST CHECK (MASTER BATH) 2 piece(s) 2 x 12 DF No.2

Overall Length: 14' 11"



All locations are measured from the outside face of left support (or left cantilever end). All dimensions are horizontal.

Design Results	Actual @ Location	Allowed	Result	LDF	Load: Combination (Pattern)
Member Reaction (lbs)	2014 @ 4"	10313 (5.50")	Passed (20%)		1.0 D + 1.0 S (All Spans)
Shear (lbs)	234 @ 1' 4 3/4"	4050	Passed (6%)	1.00	1.0 D + 1.0 L (All Spans)
Moment (Ft-lbs)	979 @ 7' 5 1/2"	4746	Passed (21%)	1.00	1.0 D + 1.0 L (All Spans)
Live Load Defl. (in)	0.033 @ 7' 5 1/2"	0.356	Passed (L/999+)		1.0 D + 1.0 L (All Spans)
Total Load Defl. (in)	0.063 @ 7' 5 1/2"	0.712	Passed (L/999+)		1.0 D + 1.0 L (All Spans)

System : Floor Member Type : Flush Beam Building Use : Residential Building Code : IBC 2018 Design Methodology : ASD

• Deflection criteria: LL (L/480) and TL (L/240).

Allowed moment does not reflect the adjustment for the beam stability factor.

Applicable calculations are based on NDS.

	Bearing Length			L	oads to Sup			
Supports	Total	Available	Required	Dead	Floor Live	Snow	Total	Accessories
1 - Stud wall - DF	5.50"	5.50"	1.50"	901	149	1113	2163	Blocking
2 - Stud wall - DF	5.50"	5.50"	1.50"	138	149	-	287	Blocking
· Blocking Panels are assumed to carry no load	s applied dire	ctly above the	m and the ful	l load is applie	ed to the mem	ber being des	signed.	

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	14' 11" o/c	
Bottom Edge (Lu)	14' 11" o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location (Side)	Tributary Width	Dead (0.90)	Floor Live (1.00)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 14' 11"	N/A	8.6			
1 - Uniform (PSF)	0 to 14' 11" (Top)	2'	5.0	10.0	-	CEILING
2 - Point (lb)	0 (Top)	N/A	763	-	1113	Linked from: HIP RAFTERS AT MASTER BATH (FOR RXN LOAD ONLY), Support 2

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