



April 23, 2024

Attn: Robert Lindsey (Walker Custom Homes)

RE: Inspection Letter – Hook Farms Lot 103, 2119 SW Hook Farm Dr., Lee's Summit, MO

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

1. Inspection comment: Address over span header in master bedroom per table 602.7.

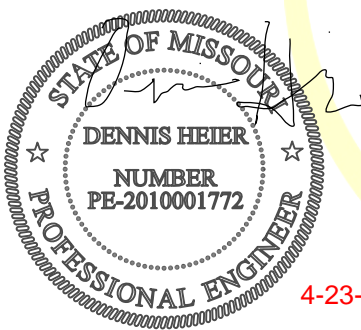
Vista Structural's Response: (2) 36" windows at master bedroom were replaced with (1) 8'-6" window opening with a (2) 2x10 header. **(2) 2x10 header is acceptable for 8'-6" span – no structural upgrade required.** Re. calculation and site photo attached.

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,

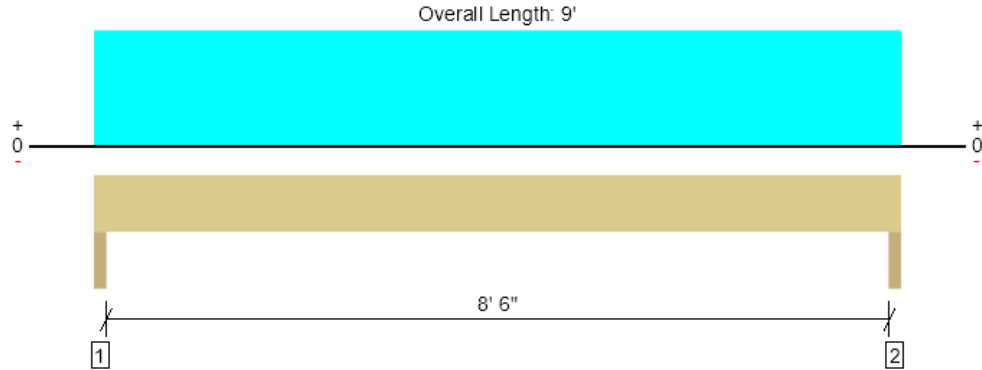
Vista Structural Engineering, LLC

Dennis Heier, P.E.



4-23-24

MAIN CEILING, (2) 2x10 HDR  
2 piece(s) 2 x 10 DF No.2



Drawing is Conceptual. 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)	1322 @ 1' 1/2"	5625 (3.00")	Passed (23%)	--	1.0 D + 1.0 S (All Spans)
Shear (lbs)	1022 @ 1' 1/4"	3830	Passed (27%)	1.15	1.0 D + 1.0 S (All Spans)
Moment (Ft-lbs)	2811 @ 4' 6"	4059	Passed (69%)	1.15	1.0 D + 1.0 S (All Spans)
Live Load Defl. (in)	0.075 @ 4' 6"	0.292	Passed (L/999+)	--	1.0 D + 1.0 S (All Spans)
Total Load Defl. (in)	0.122 @ 4' 6"	0.438	Passed (L/858)	--	1.0 D + 1.0 S (All Spans)

- Deflection criteria: LL (L/360) and TL (L/240).
- Allowed moment does not reflect the adjustment for the beam stability factor.
- Applicable calculations are based on NDS.

Member Length : 9'  
System : Wall  
Member Type : Header  
Building Use : Residential  
Building Code : IBC 2018  
Design Methodology : ASD

Supports	Bearing Length			Loads to Supports (lbs)			Accessories
	Total	Available	Required	Dead	Snow	Factored	
1 - Trimmer - DF	3.00"	3.00"	1.50"	515	806	1322	None
2 - Trimmer - DF	3.00"	3.00"	1.50"	515	806	1322	None

Lateral Bracing	Bracing Intervals	Comments
Top Edge (Lu)	9' o/c	
Bottom Edge (Lu)	9' o/c	

•Maximum allowable bracing intervals based on applied load.

Vertical Loads	Location	Tributary Width	Dead (0.90)	Snow (1.15)	Comments
0 - Self Weight (PLF)	0 to 9'	N/A	7.0	--	
1 - Uniform (PSF)	0 to 9'	7' 2"	15.0	25.0	ROOF

#### 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	



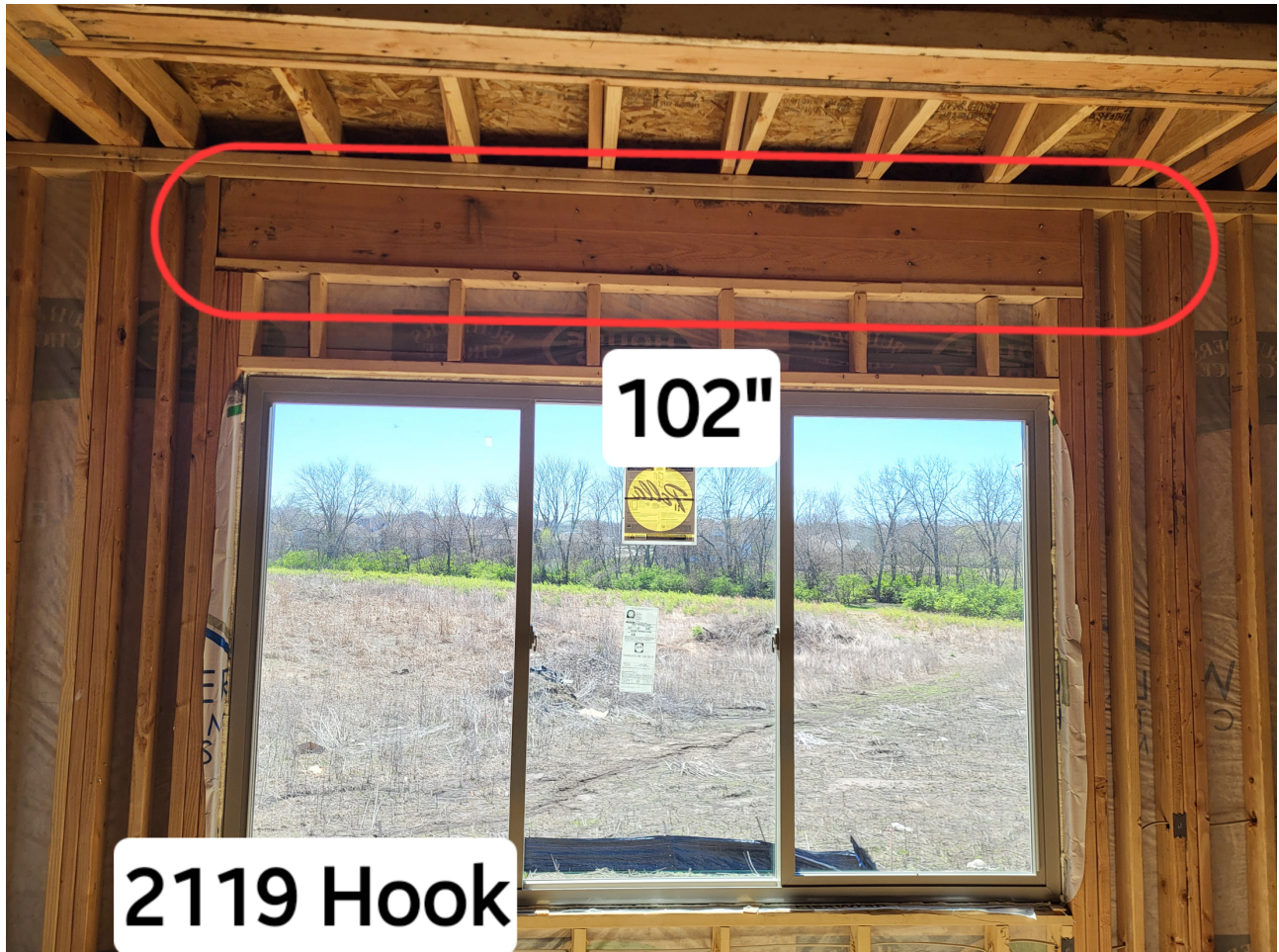


PHOTO 1 - MASTER BEDROOM WINDOW HEADER