



# HD Engineering & Design

*Solutions for all your engineering and design needs*

October 14, 2022

SAB CONSTRUCTION, LLC

**Re: Solaia (HFR054)**  
**2808 SW Hearthstone Place**  
**Lee's Summit, MO**

Our firm has been asked to make structural recommendations for the house being built at the address listed above. During the rough in inspection process the AHJ has questioned items. Below is a list of our recommendations along with the corresponding city item.

### **Over-cut Rafter Seats**

The framer has cut an additional seat cut on the hip and valley rafters at the dining room vault. To allow clearance at the vault the hip and valley now bear on the box vault. The depth of the hip and valley rafter have caused an over-cut seat. To allow the hip and valley rafter to transfer load as intended the rafters will be reinforced at the vault bearing location as shown on the attached repair sketch. The remaining tail section to the wall is adequate as is.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either expressed or implied, are intended or made.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact us.

Very truly yours,  
HD ENGINEERING & DESIGN, INC.

John Hulse, Principal



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STRUCTURAL REVIEW  
HD ENGINEERING & DESIGN  
HD: 43897 DATE: 10/14/2022

# HD ENGINEERING & DESIGN

## OVER-CUT RAFTER SEAT REPAIR

**BUILDING LOCATION:** 2808 SW HEARTHSTONE PLACE

**WALL LOCATION:** DINING ROOM BOX VAULT

