

February 25, 2015

To: Jeff Gard

Subject: Limited Framing Inspection

*Existing Patio Structure (Backyard)*

Whitney Residence

2204 E 8<sup>th</sup> Street, Austin, TX 78702

I have inspected the framing structure for the covered patio in the backyard of the above referenced address. The existing construction consists of a plastic roofing material supported by conventional wood framing (stick built) consisting of 4x4 wood posts spaced at approximately 9ft supporting a 2x10 perimeter wood beam and 2x8 and 2x6 rafters spaced at +/- 24" o.c. The existing structure appears non-compliant with current requirements for the wind force resisting system adopted by 2009 and 2012 IBC/IRC. It is the homeowner's intent to construct a new line of columns (wood posts) 5ft away from the property line to comply with City of Austin Ordinances. The overhanging portion of the carport extending closer than 5' to the property line will be cut off (demolished).

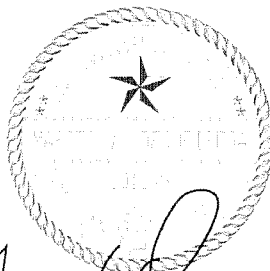
This new line of posts can be engineered to meet current Code requirements for wind force resistance. The new posts will be supported by the new concrete footing using uplift resistant Simpson Connectors and connected to new Ledger beams (2-2x12) using hurricane ties or other Simpson Ties. New posts should be spaced at 9ft (max.). Existing 2x8 rafters will be shortened after the partial demolition and the new (shorter) span is adequate for the applicable loads. However, existing 2x6 rafters should be doubled or an intermediate member (2x6) added for compliance. Connection of existing rafters to Ledger beam will also require hurricane ties for uplift resistance. All new lumber shall be SYP #2 or better.

The new concrete footing will be a 2ftx2ftx1ft (thick) conventionally reinforced with #4 rebar spaced at 6" o.c. each direction. Concrete must have a minimum compressive strength of 3,000 PSI (28 days). It is my professional opinion that the modified structure will comply with current engineering practices and Code requirements. Please contact me if you have any questions. If you have any questions, please contact me at [mdequeiroga@yahoo.com](mailto:mdequeiroga@yahoo.com).

Sincerely,

Marcos V. Dequeiroga, PE

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*Marcos V. Dequeiroga*  
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