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Ms. Ingrid Geiger

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re: ROOF FRAMING – SMITH/MENDEZ CARPORT

In lieu of engineered trusses, the roof can be constructed using the following framing members for a live load of 20 psf and a dead load of 10 psf:

- Rafters: 2x6 SP#1 @ 24" o.c.
- Ridge beam: 2x6 SP#1
- Purlins: 2x6 SP#1 @ double 14" LVL
- Collar tie: 2x6 SP#1 @ 1/3 H from top
- Fasteners per Table R802.5.1, 2020 FBC, 7th edition Simpson H2.5A clip @ each rafter both ends
- Double 14" LVL spanning carport at ceiling heights bearing on 2x6 columns

In my professional opinion, this structure meets the structural load and uplift requirement for a residential dwelling per the Florida Building Code 2020, 7th Edition, Residential. Should you have any questions, please don't hesitate to contact me.

Respectfully,

 Digitally signed by
Carol Chadwick
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Carol Chadwick, P.E.

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CC Job #FL21261

